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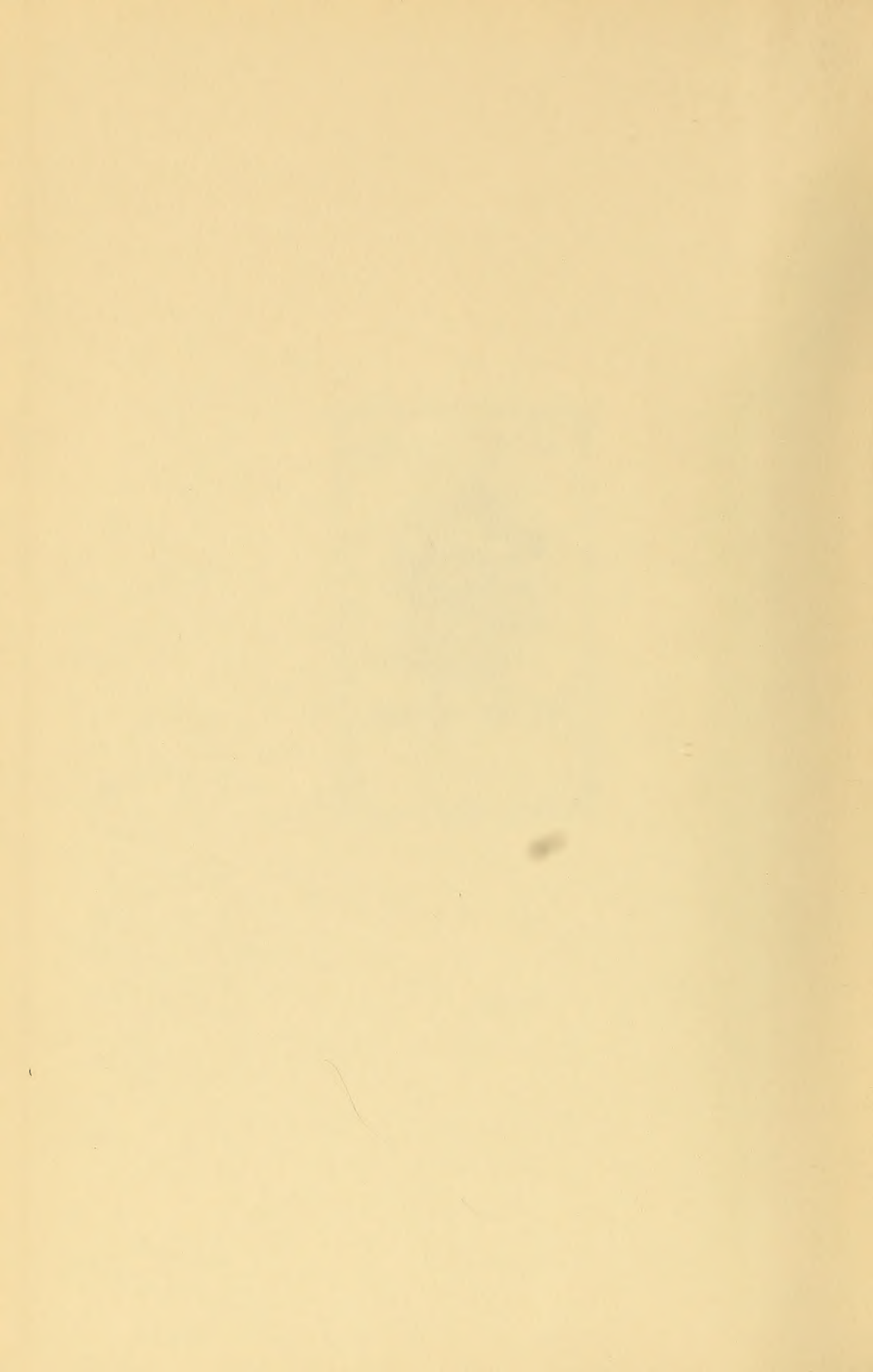


**UNITED STATES PATENT OFFICE**











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<sup>1</sup> Includes 62 Patents withdrawn.

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## LIST OF PATENTEES

This list includes reissue patentees

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- Abrahams, William D. Prefabricated irrigation gate. 2,889,684, 6-9-59, Cl. 61-28.
- Abrahamson, Charles M., to All-Steel Equipment Inc. Desk tray. 2,901,120, 8-25-59, Cl. 211-126.
- Abramitis, Walter W.: See—
- Harwood, James, Reck, and Abramitis. 2,902,401.
- Abramo, John G., and R. H. Reinhard, to Monsanto Chemical Co. Dechlorination of fluorochloroalkanes. 2,903,489, 9-8-59, Cl. 260-653.5.
- Abramoska, Alfred A., and J. R. Cox, to The Balas Collet Mfg. Co. Indexing mechanism. 2,871,721, 2-3-59, Cl. 74-535.
- Abrams, Daniel: See—
- MacFarlane, Roderick T., Abrams, and Passman. 2,917,581.
- Abrams, Donald J., and M. R. Welland. Trigger mechanism for snare or harpoon guns. 2,905,167, 9-22-59, Cl. 124-40.
- Abrams Instrument Corp.: See—
- Hewitt, John E., Schmidt, and Gardner. 2,868,924.
- Abrams, Irving M.: See—
- Patterson, James A., and Abrams. 2,900,352.
- Abrams, Morris, to Arrow Fastener Co., Inc. Hand operated staplers. 2,884,636, 5-5-59, Cl. 1-49.
- Abrams, Ralph, to Cambridge Thermionic Corp. Adjustable assembly. 2,899,220, 8-11-59, Cl. 287-20.
- Abrams, Ralph, to Cambridge Thermionic Corp. Insulating mount. 2,899,486, 8-11-59, Cl. 174-166.
- Abrams, Ralph, to Cambridge Thermionic Corp. Trimmer capacitor. 2,910,635, 10-27-59, Cl. 317-249.
- Abrams, Ralph, to Cambridge Thermionic Corp. Electrically insulating devices. 2,918,521, 12-22-59, Cl. 174-152.
- Abrams, Victor R., to W. F. and John Barnes Co. Apparatus for sterilizing fluid foods. 2,901,225, 8-25-59, Cl. 257-84.
- Abrams, Victor R., to W. F. and John Barnes Co. Food sterilizer. 2,909,985, 10-27-59, Cl. 99-251.
- Abramson, Alvin A., to Central States Paper & Bag Co. Packaging covers for coiled sheet material. 2,883,045, 4-21-59, Cl. 206-59.
- Abramson, Harold A. Deodorant composition. 2,893,918, 7-7-59, Cl. 167-90.
- Abramson, Harvey J., to Sears, Roebuck and Co. Multiple-hanging-garment shipping container. 2,873,851, 2-17-59, Cl. 206-7.
- Abramson, Hugo, to Aktiebolaget C.E. Johansson. Indicator device for measuring instruments. 2,900,732, 8-25-59, Cl. 33-172.
- Abramson, Ralph J.: See—
- Klipp, Jerome M., and Abramson. 2,868,557.
- Abrasive Co. of America: See—
- Johnson, William L. 2,895,851.
- Abresch, Carel F., to General Motors Corp. Domestic appliance. 2,905,092, 9-22-59, Cl. 103-87.
- Abresch, Carel F., to General Motors Corp. Dishwasher. 2,907,335, 10-6-59, Cl. 134-176.
- Abresch, Carel F., to General Motors Corp. Domestic appliance. 2,907,470, 10-6-59, Cl. 211-126.
- Abreu, Francisco D. Loom shuttle. 2,881,806, 4-14-59, Cl. 139-196.
- Absorbent Cotton Co., The: See—
- London, Melvin D. 2,891,544.
- Abzug, Malcolm J., to Sperry Rand Corp. Aircraft automatic pilot. 2,884,212, 4-28-59, Cl. 244-77.
- Account-Tokens Ltd.: See—
- Evans, Jean-Paul R. M. 2,900,899.
- Accumulatoren-Fabrik Aktiengesellschaft: See—
- Bronstert, Franz. 2,898,393.
- Bronstert, Franz. 2,915,577.
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- Hagspihl, Paul. 2,909,586.
- Ace Products Co.: See—
- Fall, Albert P. 2,884,654.
- Ace Tool Engineering Co., Inc.: See—
- Coy, Homer E. 2,895,226.
- Aceto, Nicholas C.: See—
- Turkot, Victor A., Eskew, and Aceto. 2,906,630.
- Achtziger, Christoph, to Porzellanfabrik Weiden Gebr. Bauscher, Zweigniederlassung der Lorenz Hutschenreuther Akt. Soup cup. 2,893,583, 7-7-59, Cl. 215-10.
- Achtznick, Heinz: See—
- Henkel, Hans, and Achtznick. 2,875,900.
- Acker, Robert C.: See—
- Hartwig, Edward C., Kuenning, and Acker. 2,874,235.
- Acker, William L., Jr. Automatic chucking device for drill pipes and the like. 2,905,998, 9-29-59, Cl. 24-254.
- Ackerlind, Erik. High frequency pen recorder. 2,879,499, 3-24-59, Cl. 340-174.
- Ackerman, Carl L., to Avco Mfg. Corp. Television receiver chassis construction. 2,896,201, 7-21-59, Cl. 340-367.
- Ackerman, Harold S. Heat transfer apparatus. 2,918,043, 12-22-59, Cl. 122-156.
- Ackerman, Harold T.: See—
- Ackermann, Frank F. 2,902,302.
- Ackerman, Robert M. Automatic welding fixture for crusher rollers. 2,914,651, 11-24-59, Cl. 219-76.
- Ackerman, Stanley C.: See—
- Kotsch, William E., and Ackerman. 2,901,667.
- Ackermann, Frank F., to H. T. Ackerman. Wobbler type stuffing box. 2,902,302, 9-1-59, Cl. 286-31.
- Ackermann, Franz: See—
- Siegrist, Adolf E., and Ackermann. 2,905,667.
- Siegrist, Adolf E., and Ackermann. 2,910,472.
- Ackermann, Franz, and A. E. Siegrist, to Ciba Ltd. Process for the optical brightening of materials of polyesters. 2,875,089, 2-24-59, Cl. 117-33.5.
- Ackermann, Herman H., to Railtrack Equipment Corp., S.A. Rail head grinding mechanism. 2,906,064, 9-29-59, Cl. 51-54.
- Ackermann, Hugo: See—
- Ackermann, Hugo, and Crümmenerl. 2,917,813.
- Ackermann, Hugo, and G. Crümmenerl, to H. Ackermann. Detachable tool holder, especially for grooving files. 2,917,813, 12-22-59, Cl. 29-80.
- Ackermann, Paul: See—
- Kölbel, Herbert, and Ackermann. 2,868,627.
- Ackermann, Walter, to Radio Corp. of America. Apparatus for removing coatings. 2,891,433, 6-23-59, Cl. 81-9.51.
- Ackerson, Mildred O. Device for holding infants. 2,876,459, 3-10-59, Cl. 4-185.
- Acklam, Merle E. Pennant support. 2,905,140, 9-22-59, Cl. 116-173.
- Ackles, Robert N., to Enu Laboratories, Inc. Mixer agitator. 2,918,264, 12-22-59, Cl. 259-134.
- Ackley, John W., to Deere & Co. Liquid fertilizer attachment. 2,888,891, 6-2-59, Cl. 111-80.
- Ackley, John W., to Deere & Co. Tank enclosure. 2,891,694, 6-23-59, Cl. 220-24.5.
- Ackley, Thomas, to J. J. Donovan. Outrigger fishing pole supports. 2,898,065, 8-4-59, Cl. 248-40.
- Acme Ball Bearing & Mfg. Co.: See—
- Cogger, Howard. 2,916,335.
- Acme-Hamilton Mfg. Corp., The: See—
- Kahn, Marvin M. 2,874,723.



- Acme Hanger Corp.: *See*—  
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- Acme Highway Products Corp.: *See*—  
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- Acme Metal Molding Co.: *See*—  
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- Acme Precision Products, Inc.: *See*—  
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- Acme Protection Equipment Co.: *See*—  
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- Acme Staple Co.: *See*—  
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- Acme Steel Co.: *See*—  
Falck-Pedersen, Kjell A. 2,905,406.  
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Ott, John E. 2,913,939.  
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- Acme Visible Records, Inc.: *See*—  
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Attwood, Charles E. 2,901,308.  
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Freiberg, Stanley B. 2,888,932.  
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Tod, Allan H., and Gray. 2,900,985.
- Acme Wire Co., The: *See*—  
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- Acorn, Byron H., R. G. Pennstrom, and D. W. Carkhuff, to Union Carbide Corp. Magnetic powder dispenser. 2,878,075, 3-17-59, Cl. 302-51.
- Acorn Co.: *See*—  
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- Acorn Engineering Co.: *See*—  
Morris, Earl L. 2,885,689.  
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- Acosta, Ivan J.: *See*—  
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- Acrometal Products, Inc.: *See*—  
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- Acterman, Joseph S.: *See*—  
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- Acterman, Joseph S., to North American Aviation Inc. Auto-lubricated gas thrust bearing. 2,899,243, 8-11-59, Cl. 308-9.
- Actiengesellschaft Joh. Jacob Rieter & Cie: *See*—  
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- Acton, Daniel D., to Anchor Hocking Glass Corp. Screw cap and sealed package. 2,916,175, 12-8-59, Cl. 215-44.
- Acton, Edmund W. Loose leaf holders. 2,891,553, 6-23-59, Cl. 129-17.
- Acton, John R., to Ericsson Telephones Ltd. Electronic counting and computing arrangement. 2,913,628, 11-17-59, Cl. 315-84.6.
- Acton Laboratories, Inc.: *See*—  
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- Adachi, Shizuo R.: *See*—  
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- Ad-A-Day Co., Inc.: *See*—  
Cross, Carroll N., and Hayhow. 2,916,236.  
Cross, Carroll N., and Hayhow. 2,916,242.
- Adair, Paul F., to Jet Ignition Co., Inc. Spark gap electrode. 2,871,388, 1-27-59, Cl. 313-141.
- Adair, Robin, Jr. Variable pressure cushion system. 2,906,259, 9-29-59, Cl. 128-33.
- Adalet Mfg. Co., The: *See*—  
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- Adam Consolidated Industries, Inc.: *See*—  
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- Adam, Elisabeth, and L. W. Granirer. Preparation derived from placental tissue for relieving rheumatoid arthritis. 2,907,695, 10-6-59, Cl. 167-74.
- Adam, Folger. Jail locking devices, and the like. 2,899,027, 8-11-59, Cl. 189-7.
- Adam, Folger. Relievable hangers, and the like. 2,901,207, 8-25-59, Cl. 248-293.
- Adam, Frank, Electric Co.: *See*—  
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- Adam, Hermann. Bobbin supporting device. 2,869,496, 1-20-59, Cl. 112-231.
- Adam, John C.: *See*—  
Torres, Jorge U., and Adam. 2,888,278.
- Adamant Engineering Co. Ltd.: *See*—  
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- Adamec, Oswald T., and G. M. Shapiro, to Adoria Corp. Device to form and shape butter or substances of a similar consistency or nature into ribbon-like or ball-like portions. 2,886,889, 5-19-59, Cl. 30-115.
- Adamick, Jules R.: *See*—  
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- Adams, Arthur, and R. Slack, to May & Baker Ltd. 5-amino-3-methyl-isothiazole and process. 2,871,243, 1-27-59, Cl. 260-306.8.
- Adams, Benjamin F., Jr., to E. I. du Pont de Nemours and Co. Process for shrinking polyacrylonitrile textiles with specific chemical shrinking agents. 2,869,974, 1-20-59, Cl. 8-130.1.
- Adams, Cecil E.: *See*—  
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- Adams, Cecil E., to American Brake Shoe Co. Fluid motor. 2,899,941, 8-18-59, Cl. 121-86.
- Adams, Cecil E., to American Brake Shoe Co. Hydraulic transmission and control mechanism for air conditioning system. 2,910,839, 11-3-59, Cl. 62-196.
- Adams, Cecil E., W. E. Eschliman, and Y. H. Sun, to American Brake Shoe Co. Vane pump. 2,878,753, 3-24-59, Cl. 103-42.
- Adams, Cecil E., and W. E. Eschliman, to American Brake Shoe Co. Variable volume pumping mechanism. 2,887,060, 5-19-59, Cl. 103-42.
- Adams, Charles H.: *See*—  
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- Adams, Charles J.: *See*—  
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- Adams, Charles, Jr. Pipe hanger. 2,893,670, 7-7-59, Cl. 248-59.
- Adams, Charles J., to General Electric Co. Electric control panel. 2,916,721, 12-8-59, Cl. 339-147.
- Adams, Charles J., and J. Schlenker, Jr., to The Northwestern Corp. Selective merchandise vending machine with replaceable magazine. 2,876,928, 3-10-59, Cl. 221-122.
- Adams, Clark E.: *See*—  
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- Adams, Clark E., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Process for the desulfurization and hydrogenation of a cycle oil. 2,880,165, 3-31-59, Cl. 208-97.
- Adams, Clark E., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. 2 vinyl pyridine polymers for ion exchange reactions. 2,899,396, 8-11-59, Cl. 260-21.
- Adams, Clark E., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Monohalogenation of hydrocarbons. 2,916,527, 12-8-59, Cl. 260-660.
- Adams, Clark E., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Hydrosulfurization process employing a presulfided platinum catalyst. 2,918,427, 12-22-59, Cl. 208-217.
- Adams, Clovis H. Pyrotechnic method for increasing the basicity of lead sulfate containing pigments. 2,872,333, 2-3-59, Cl. 106-256.
- Adams, Crawford M., to General Electric Co. Noise reduction in transformers. 2,870,858, 1-27-59, Cl. 181-33.
- Adams, Daniel M., and L. P. Garvey, to General Motors Corp. Selector and indicator device. 2,890,299, 6-9-59, Cl. 200-18.
- Adams, Daniel M., and W. J. Tell, to General Motors Corp. Grille assembly. 2,905,286, 9-22-59, Cl. 189-82.
- Adams, Dennis A. W., and A. K. Sarkar, to Hickson & Welch Ltd. Optical whitening agents. 2,875,106, 2-24-59, Cl. 117-335.
- Adams, Dustin S., and J. F. Bowling, to E. I. du Pont de Nemours & Co. Winding apparatus. 2,907,165, 10-6-59, Cl. 57-75.
- Adams, E. O. N., Redmond, Oreg. 25% to M. L. Hogan. Seed package and dispenser. 2,867,359, 1-6-59, Cl. 222-485.
- Adams, Earl W., and R. L. Jeansonne, to Kaiser Aluminum & Chemical Corp. Improved process of removing zinc contaminants from sodium aluminate liquors. 2,885,261, 5-5-59, Cl. 23-143.
- Adams, Edgar M.: *See*—  
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- Adams, Edgar M., and R. L. Johnson, to The Dow Chemical Co. Film forming aqueous colloidal dispersions containing aliphatic nitroalcohol and method for preparing same. 2,888,421, 5-26-59, Cl. 260-29.7.
- Adams, Edmund, J. F. Haben, and A. M. Syeles, to United States of America, Navy. Magnetic flake core. 2,873,225, 2-10-59, Cl. 148-105.
- Adams, Ernest C., Jr., to Miles Laboratories, Inc. Composition of matter. 2,893,843, 7-7-59, Cl. 23-253.
- Adams, Ernest F.: *See*—  
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- Adams, Foster L., and R. E. Pidcock, to Minneapolis-Honeywell Regulator Co. Fluid quantity measuring apparatus. 2,899,825, 8-18-59, Cl. 73-304.
- Adams, Francis V., to International Business Machines Corp. Signal translating device. 2,869,785, 1-20-59, Cl. 235-61.
- Adams, Francis V., to International Business Machines Corp. Latch circuit. 2,902,601, 9-1-59, Cl. 250-27.
- Adams, Frederick H.: *See*—  
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- Adams, Frederick W., to Rockware Glass Ltd. Purification of silica sands. 2,891,844, 6-23-59, Cl. 23-182.



- Adams, George J., to Chrysler Corp. Multi-stage hydraulic governor. 2,876,784, 3-10-59, Cl. 137-56.
- Adams, George P., to Western Electric Co., Inc. Apparatus for forming spring cords. 2,898,630, 8-11-59, Cl. 18-19.
- Adams, Glenn T., to Mayfair Molded Products Corp. Anode connector. 2,869,100, 1-13-59, Cl. 339-97.
- Adams, Jack J., to The Dow Chemical Co. Process for forming films from non-elastic polymer latexes. 2,914,808, 12-1-59, Cl. 18-57.
- Adams, James W., to American Can Co. Feed for animals. 2,905,558, 9-22-59, Cl. 99-2.
- Adams, Jane. Infant's diaper. 2,898,912, 8-11-59, Cl. 128-284.
- Adams, Joe T.: *See—*  
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 Guest, Howard R., Adams, and Kiff. 2,913,435.  
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- Adams, John E.: *See—*  
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- Adams, John E., to Sylvania Electric Products Inc. Adding and subtracting drive circuit for counting tubes. 2,872,621, 2-3-59, Cl. 315-84.6.
- Adams, John F. E., K. G. Gerber, and G. P. Wilkes, to Imperial Chemical Industries Ltd. Drying process and apparatus. 2,899,754, 8-18-59, Cl. 34-21.
- Adams, John J., and H. J. Kennedy. Shelving assembly. 2,867,332, 1-6-59, Cl. 211-147.
- Adams, John Q., to Becton, Dickinson and Co. Syringe assembly. 2,880,723, 4-7-59, Cl. 128-215.
- Adams, John T. Valve. 2,874,928, 2-24-59, Cl. 251-120.
- Adams, Joseph B.: *See—*  
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 Forth, Murray W., and Adams. 2,894,651.
- Adams, Kenneth T., to Foley Mfg. Co. Cookie dropper. 2,916,820, 12-8-59, Cl. 294-26.5.
- Adams, Leon M., to The American Oil Co. Production of para-terphenyl. 2,918,503, 12-22-59, Cl. 260-670.
- Adams, Lorenzo J.: *See—*  
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- Adams, Loyd W., to Phillips Petroleum Co. Methane separated from hydrogen using ethane as an absorbent. 2,887,850, 5-26-59, Cl. 62-17.
- Adams, Loyd W., and J. E. Cottle, to Phillips Petroleum Co. Underground storage of ammonia and its recovery. 2,901,403, 8-25-59, Cl. 202-39.
- Adams, Marjory. Sun shade. 2,888,021, 5-26-59, Cl. 135-7.1.
- Adams, Max M., to Phillips Petroleum Co. Detonation meter. 2,879,665, 3-31-59, Cl. 73-35.
- Adams-Millis Corp.: *See—*  
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- Adams, Mozel A., to Trex Corp. Valve seat washing pump and chemical injector. 2,911,921, 11-10-59, Cl. 103-179.
- Adams, Philip N., to Adams Pipe Repair Products. Pipe clamp device. 2,908,061, 10-13-59, Cl. 24-279.
- Adams, Phillip: *See—*  
 Beinfest, Sidney, Adams, and Millus. 2,885,419.
- Adams Pipe Repair Products: *See—*  
 Adams, Philip N. 2,908,061.
- Adams Powel Equipment Ltd.: *See—*  
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- Adams, Rayburn L. Vaporizing device. 2,899,722, 8-18-59, Cl. 21-120.
- Adams, Raymond N. Rotary stool. 2,905,229, 9-22-59, Cl. 155-95.
- Adams, Richard D.: *See—*  
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 Tavernese, Vincent, and Deatruck. 2,881,781.
- Adams, Richard L., to Leach Corp. Relay. 2,875,293, 2-24-59, Cl. 200-87.
- Adams, Robert K. Portable insulated container. 2,872,095, 2-3-59, Cl. 229-14.
- Adams, Robert R., to The Cincinnati Milling Machine Co. Power drawbar for a milling machine. 2,885,930, 5-12-59, Cl. 90-11.
- Adams, Robert T., to International Telephone and Telegraph Corp. Diversity receiving system. 2,903,577, 9-8-59, Cl. 250-20.
- Adams, Robert T., and R. K. Van Vechten, to International Telephone and Telegraph Corp. Automatic tuning system. 2,874,274, 2-17-59, Cl. 250-17.
- Adams, Robert T., and J. B. Harvey, to International Telephone and Telegraph Corp. Sliding contact device for tuning coils. 2,894,233, 7-7-59, Cl. 336-149.
- Adams, Robert T., and J. B. Harvey, to International Telephone and Telegraph Corp. Pulse detector responsive to both pulse amplitude and duty cycle. 2,916,618, 12-8-59, Cl. 250-20.
- Adams, Roy M., to Callery Chemical Co. Preparation of diborane. 2,888,327, 5-26-59, Cl. 23-204.
- Adams, Wayne P. Hay rake. 2,867,966, 1-13-59, Cl. 56-384.
- Adams & Westlake Co., The: *See—*  
 Burmeister, Herman R. 2,887,802.
- Adams, William C., and A. D. Andersen. Display means. 2,870,915, 1-27-59, Cl. 211-1.5.
- Adams, William L. and William L. Jr. Multiple shaft bearing structures. 2,903,908, 9-15-59, Cl. 74-579.
- Adams, William L., Jr.: *See—*  
 Adams, William L. and William L., Jr. 2,903,908.
- Adams, William L., Sr., to Industrial Tectonics, Inc. Ball bearing structure. 2,887,334, 5-19-59, Cl. 287-90.
- Adamson, Bertil: *See—*  
 Jacobsson, Gösta. 2,896,609.
- Adamson, Bliss, and K. L. McNemar, to Welx, Inc. Measuring wheel. 2,876,549, 3-10-59, Cl. 33-129.
- Adamson, Bliss, Jr., to Welx, Inc. Actuating device. 2,892,258, 6-30-59, Cl. 33-178.
- Adamson, Donald W., to Burroughs Wellcome & Co. (U.S.A.) Inc. Method of treating Parkinsonism. 2,891,890, 6-23-59, Cl. 167-65.
- Adamson, Floyd E.: *See—*  
 Bichsel, Harry J., and Adamson. 2,913,653.
- Adamson, John Q. Collapsible play pen. 2,873,458, 2-17-59, Cl. 5-98.
- Adamson, Phil A., and M. L. MacKnight, to Hughes Aircraft Co. Digital-to-analog converter. 2,916,209, 12-8-59, Cl. 235-154.
- Adamson, Robert M., to Jalousies of Ohio, Co., Inc. Window construction. 2,873,827, 2-17-59, Cl. 189-62.
- Adamson, Robert M. Window construction. 2,904,854, 9-22-59, Cl. 20-40.
- Adamson, Robert M. Latch mechanisms. 2,905,495, 9-22-59, Cl. 292-244.
- Adcock, John L., to Wickman Ltd. Electro-erosion of metals. 2,902,585, 9-1-59, Cl. 219-69.
- Adcock, Mack D.: *See—*  
 Van Atta, Lester C., Adcock, and Kinaga. 2,908,904.
- Adcock, Willis A., to Texas Instruments Inc. Base contacts for transistors. 2,909,715, 10-20-59, Cl. 317-236.
- Addicks, Mentor C. Corner mounting device for sheaves and the like. 2,892,606, 6-30-59, Cl. 248-216.
- Addis, Wendell A., to Millers Falls Co. Portable power planer with outboard support for cutter. 2,893,454, 7-7-59, Cl. 145-4.
- Addison, Harry W. Brine tank valve. 2,904,061, 9-15-59, Cl. 137-391.
- Addison, Herman H., to The Texas Co. Mud sampling device. 2,882,014, 4-14-59, Cl. 255-1.4.
- Addison, Leslie M.: *See—*  
 Turpin, Frank G., Jr., Draeger, and Addison. 2,913,402.
- Addleman, Lloyd A., to Sylvania Electric Products Inc. Branched coaxial waveguide structure utilizing fine resistive wire coupling. 2,896,075, 7-21-59, Cl. 250-20.
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 Bates, Darwin S. 2,903,276.  
 Gollwitzer, Walter T. 2,868,115.  
 Gruver, John H. 2,889,984.  
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- Adelaar, Hans H.: *See—*  
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- Adell, Marvin M.: *See—*  
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- Adelsberger, Alfred: *See—*  
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- Adelson, Samuel L., to Inflico Inc. Liquid level control system. 2,867,233, 1-6-59, Cl. 137-413.



- Adelson, Samuel L., to Inflico Inc. Device for producing pressures varying proportionally to variations in a condition. 2,895,494, 7-21-59, Cl. 137-85.
- Adelson, Samuel L., to Inflico Inc. Differential pressure adjuster for fluid flow meter. 2,899,824, 8-18-59, Cl. 73-213.
- Adelson, Samuel L., to Inflico Inc. Control for four-way fluid switch. 2,911,005, 11-3-59, Cl. 137-622.
- Adelt, Carl W. Roof construction. 2,900,929, 8-25-59, Cl. 108-17.
- Adenstedt, Willy J. H.: *See*—  
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- Ader, Milton: *See*—  
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- Adickes, Franz: *See*—  
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- Adler, Charles, Jr. Undulating exterior light for aircraft. 2,881,307, 4-7-59, Cl. 240-7.7.
- Adler, Charles, Jr., and H. A. Barnes. Street traffic control system with selective automatic time direction. 2,879,497, 3-24-59, Cl. 340-42.
- Adler, Claes G., and E. S. Jung. Exercise apparatus. 2,895,736, 7-21-59, Cl. 272-58.
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- Adler, Franklin P.: *See*—  
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- Adler, Franklin P., to Pullman-Standard Car Mfg. Co. Lading strap anchor for flat cars. 2,867,178, 1-6-59, Cl. 105-369.
- Adler, Franklin P., to Pullman-Standard Car Mfg. Co. Lading strap anchor shelf bracket. 2,892,421, 6-30-59, Cl. 105-369.
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- Adler, Orville E., to National-Standard Co. Brass plated rubber adherent steel wire. 2,870,526, 1-27-59, Cl. 29-183.5.
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- Adler, Robert, to Zenith Radio Corp. Television receiver. 2,882,334, 4-14-59, Cl. 178-7.3.
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- Adler, Rochelle M. Nightgown. 2,896,630, 7-28-59, Cl. 128-454.
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Morton, Evans T. 2,867,842.  
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Summerer, William H. 2,900,630.  
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- Adolfson, George, and J. A. Hatfield. Scaffolding accessory. 2,883,241, 4-21-59, Cl. 304-32.
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- Adolphson, Roy T.: *See*—  
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- Adrian, Joseph J. Rubbish burner. 2,912,133, 11-10-59, Cl. 220-19.
- Adrian, William J.: *See*—  
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- Advance Transformer Co.: *See*—  
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- Aelony, David, to General Mills, Inc. Alkyl phenol formaldehyde resin esters. 2,891,021, 6-16-59, Cl. 260-19.
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- Aeppli, Otto T., to Pennsalt Chemicals Corp. Benzene hexachloride manufacture. 2,904,597, 9-15-59, Cl. 260-648.
- Aeppli, Albert, to Maag-Zahnrad und Maschinen Akt. Grinding of gear-wheels. 2,879,630, 3-31-59, Cl. 51-56.
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- Aerojet-General Corp.: *See*—  
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- Aerophysics Development Corp.: *See*—  
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- Aerovox Corp.: *See*—  
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- Aetna Products & Mfg. Co.: *See*—  
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- Aetna Steel Products: *See*—  
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- Af Kleen, Nils E., and W. J. Pohlman, to A. O. Smith Corp. Absorption refrigeration system and method of treating the same. 2,909,041, 10-20-59, Cl. 62—77.
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- Agan, Theodore H., to R. G. Wells. Process for pickling celery. 2,892,722, 6-30-59, Cl. 99—156.
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- Agar, William O., to Marconi's Wireless Telegraph Co. Ltd. Magneto-strictive resonators. 2,895,113, 7-14-59, Cl. 333—71.
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- Agarwal, Jagdish C., to United States Steel Corp. Method and apparatus for handling reducing gases. 2,915,379, 12-1-59, Cl. 75—26.
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- Aggen, George: *See*—  
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- Aghnides, Elie P. Ash tray with cavities for extinguishing cigarettes. Re. 24,721, 10-20-59, Cl. 131—235.
- Agie, A.G. für industrielle Elektronik: *See*—  
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- Agne, Robert W., and C. M. Frank. Hose clamp. 2,895,197, 7-21-59, Cl. 24—279.
- Agnello, Eugene J.: *See*—  
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- Ägren, Georg. Magazine and cartridge clip combination. 2,910,795, 11-3-59, Cl. 42—50.
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- Agricultural Products, Inc.: *See*—  
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- Agrillo, Paul. Changeable exhibitor having a plurality of independent manually movable tapes carrying educational indicia. 2,917,839, 12-22-59, Cl. 35—76.
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- Agtergaal, Peter M., Dough dividing machine. 2,876,713, 3-10-59, Cl. 107—9.
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- Ahlgren, Axel W., to Amerock Corp. Operator for windows with swinging sash. 2,899,195, 8-11-59, Cl. 268—105.
- Ahlin, Olle: *See*—  
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- Ahlport, Brodie E. Reversing mechanism. 2,874,584, 2-24-59, Cl. 74—319.
- Ahlstedt, Thure E.: *See*—  
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- Ahn, Albert D. Invalid's tool. 2,903,170, 9-8-59, Cl. 223-111.
- Ahonen, Raymond M., to Century Die & Mfg. Co. Metal stretch bending apparatus. 2,887,143, 5-19-59, Cl. 153-40.
- Ahrens, Alfred H. Bolt and bearing puller and positioning tool. 2,869,225, 1-20-59, Cl. 29-256.
- Ahrens, Frank F., Jr. Outrigger bracket for fishing boats. 2,886,268, 5-12-59, Cl. 248-42.
- Ahrens, Hermann H. F., to Daimler-Benz Akt. Vehicle. 2,885,017, 5-5-59, Cl. 180-64.
- Ahrns, Wilbur C.: *See*—  
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- Ahuad, Farjat: *See*—  
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- Aibel, Fredric L., 8½% to M. Joffe, and 8½% to A. Findler. Knitted fabric. 2,878,661, 3-24-59, Cl. 66-195.
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- Aid, Joseph J., and E. G. Paxton, Jr., to Continental Can Co., Inc. Polyethylene resin coated fibrous material. 2,878,145, 3-17-59, Cl. 117-145.
- Aigrain, Pierre R., to International Standard Electric Corp. Calling circuit identification. 2,872,524, 2-3-59, Cl. 179-18.
- Aijala, Sulo A., to Apco Mossberg Co. Predetermined torque release hand tool. 2,887,919, 5-26-59, Cl. 81-52.4.
- Aiken, John F., F. A. Tompkins, and D. C. Zapf, to General Dynamics Corp. Handling apparatus. 2,867,334, 1-6-59, Cl. 214-1.
- Aiken, Percy, to Acrometal Products, Inc. Bridging strut. 2,867,854, 1-13-59, Cl. 20-9.
- Aiken, William R., to Kaiser Industries Corp. Electronic device. 2,870,361, 1-20-59, Cl. 313-77.
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- Aiken, William R., to Kaiser Industries Corp. Electronic control system. 2,904,722, 9-15-59, Cl. 315-13.
- Aiken, William R. Adjustable sign. 2,912,674, 11-10-59, Cl. 340-44.
- Aiken, William R., and L. C. Foster, to Kaiser Industries Corp. Facsimile tube. 2,880,341, 3-31-59, Cl. 313-77.
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- Ailes, Warren, D. J. George, and S. E. Tarby, to United States Steel Corp. Rod descaler. 2,874,451, 2-24-59, Cl. 29-81.
- Ainscough, Dennis: *See*—  
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- Ainsley, Robert L.: *See*—  
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- Ainslie, Thomas D., to Phillips-Van Heusen Corp. Collar and method of making collars. 2,897,509, 8-4-59, Cl. 2-132.
- Ainslie, Thomas D., to Phillips-Van Heusen Corp. Collar construction. 2,903,702, 9-15-59, Cl. 2-132.
- Ainslie, Thomas D., to Phillips-Van Heusen Corp. Collar tip construction. 2,909,783, 10-27-59, Cl. 2-131.
- Ainsworth, John R., J. L. Lutyens, and A. White, to United Shoe Machinery Corp. Machines for straightening wire leads of electric components by rolling said leads between surfaces of tapering pressure members. 2,867,262, 1-6-59, Cl. 153-39.
- Ainsworth, Laine J., to Harleigh Holmes 4-Wheel Drive Co. Steering drive axle. 2,871,965, 2-3-59, Cl. 180-43.
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- Aitchison, Robert B. Rotatable kiln having replaceable clinker ring section. 2,904,324, 9-15-59, Cl. 263-33.
- Aitchison, Robert B., and G. H. Smith, to Union Carbide Corp. Churn drill for thermal rock piercing. Re. 24,603, 2-17-59, Cl. 255-1.8.
- Aitchison, Robert B., and G. H. Smith, to Union Carbide Corp. Thermal mineral piercing employing a free suspension blowpipe. 2,882,016, 4-14-59, Cl. 255-1.8.
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- Aitken, Charles W. Adjustable cleat attachment for shoes. 2,876,563, 3-10-59, Cl. 36-7.7.
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- Aitken, Melvin N. Orifice fitting. 2,896,668, 7-28-59, Cl. 138-44.
- Aitken, Robert K., to Hazeltine Research, Inc. Signal-to-noise responsive system. 2,868,970, 1-13-59, Cl. 250-27.
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- Aitken, Robert L. Timber-stocking apparatus and the like. 2,915,202, 12-1-59, Cl. 214-6.
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- Ajouelo, Davis J., to A. H. Kern. Instant thread dyeing device. 2,910,026, 10-27-59, Cl. 112-218.
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- Aker, Charles M., to Lockheed Aircraft Corp. Television camera. 2,916,548, 12-8-59, Cl. 178-7.2.
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- Aktiebolaget Torsten Lagerman: *See*—  
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- Aktiebolaget Tudor: *See*—  
Bargholtz, Hubert F. S., Lindbergh, Schmechtig, and Ström. 2,912,043.  
Sundberg, Erik G. 2,896,006.  
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- Aktiebolaget Urfabriken: *See*—  
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- Aktiebolaget Valida Maskiner: *See*—  
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- Aktiebolaget Volvo: *See*—  
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Quistgaard, Erik V., and Karlsson. 2,912,874.
- Aktiebolaget Wicanders Korkfabriker: *See*—  
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- Aktiengesellschaft Brown, Boveri & Cie.: *See*—  
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Blatter, Hans. 2,895,101.  
Brandt, Armand. 2,869,005.  
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Christoffel, Martin, and Edlinger. 2,874,359.  
Cuny, Robert. 2,903,280.  
Förner, Hans. 2,876,336.  
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- Aktiengesellschaft Fuer Technische Studien: *See*—  
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- Aktiengesellschaft fuer Unternehmungen der Eisen- und Stahlindustrie: *See*—  
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- Aktiengesellschaft Kuhnle, Kopp & Kausch: *See*—  
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- Aktieselskabet de Danske Sukkerfabrikker: *See*—  
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- Aktieselskabet Kemovet: *See*—  
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- Aktieselskabet Niro Atomizer: *See*—  
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- Aktinson's Agricultural Appliances Ltd.: *See*—  
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- Alabama Pipe Co.: *See*—  
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- Alabasta Optical & Plastic Co.: *See*—  
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- Aladdin Industries, Inc.: *See*—  
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- Alamac Knitting Mills, Inc.: *See*—  
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- Alamance Industries, Inc.: *See*—  
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- Aland, Richard C.: *See*—  
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- Alar Products, Inc.: *See*—  
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- Alaska Juneau Gold Mining Co.: *See*—  
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- Albanese, John, and C. W. Fitko. Production of coated sand. 2,888,418, 5-26-59, Cl. 260-28.
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- Albee, Arthur C., and J. L. Pettus, to Radio Corp. of America. Sound film reproducer driving system. 2,870,975, 1-27-59, Cl. 242-55.12.
- Albedyhl, Karl, and A. Bier, to Moeller & Neumann G.m.b.H. Articulated coupling. 2,893,222, 7-7-59, Cl. 64-9.
- Alber, Robert, to Aliosa-Etablissement. Bladder structure. 2,884,646, 5-5-59, Cl. 2-232.
- Alber, Rudolf. Method and apparatus for sharpening saw blades. 2,885,912, 5-12-59, Cl. 76-40.
- Alberda, Gerrit, to N. V. Nederlandsche Combinatie voor Chemische Industrie. Process for the extraction of alkali metal salts of vanillin or its higher homologues from alkaline process liquors. 2,871,270, 1-27-59, Cl. 260-600.
- Albermarle Paper Mfg. Co., The: *See*—  
Outterson, Charles R. 2,867,549.  
Outterson, Charles R., Bell, and Ellerson. 2,878,119.
- Albers, Heinrich B., to Baldwin-Lima-Hamilton Corp. Compact stretch-straightening mechanism with gripping heads having separate upper and lower sections composed of vertical laminations. 2,908,316, 10-13-59, Cl. 153-35.
- Albert, Alexander. X-ray film holder. 2,883,726, 4-28-59, Cl. 24-259.
- Albert, Donald J., to Eastman Kodak Co. Timer. 2,912,051, 11-10-59, Cl. 161-1.
- Albert, Edward J., to M. W. and F. Grum. Surface dressing applicator. 2,870,471, 1-27-59, Cl. 15-134.
- Albert, Emilia T.: *See*—  
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- Albert, Franz: *See*—  
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- Albert, Franz, and G. Hübner, to Societe d'Equipements Industriels et Laitiers. Comminuting machine. 2,888,212, 5-26-59, Cl. 241-46.
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- Albert, Harry E., to The Firestone Tire & Rubber Co. Carbon disulfide-phenylenediamine reaction products in rubber. 2,905,655, 9-22-59, Cl. 260—45.9.
- Albert, John F., to E. T. Albert. Lantern holder. 2,875,974, 3-3-59, Cl. 248—229.
- Albert, Paul A., to Westinghouse Electric Corp. Iron-aluminum materials for magnetic applications. 2,875,114, 2-24-59, Cl. 148—120.
- Albert, Samuel. Electric welding handle. 2,870,324, 1-20-59, Cl. 219—143.
- Alberti, Carlo G., and A. Vercellone, to Societa Farmaceutici Italia.  $\beta$ -thiosubstituted acylamino-nitro propio-phenones. 2,903,392, 8-5-59, Cl. 167—30.
- Alberti, Carlo G., A. Vercellone, and D. Cattapan. Caffeic esters of quinic acid and quinic acid amide and syntheses thereof. 2,918,477, 12-22-59, Cl. 260—340.2.
- Albertine, Albert W.: *See*—  
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- Albertine, Albert W., M. M. Miller, and R. C. Zaller, to Douglas Aircraft Co., Inc. Vibration damping connection. 2,877,970, 3-17-59, Cl. 244—119.
- Alberts, Bruce M.: *See*—  
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- Alberts, Lawrence J.: *See*—  
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- Alberts, Lawrence E., to Minneapolis-Honeywell Regulator Co. Servomotor control system adapted for stabilizing. 2,883,594, 4-21-59, Cl. 318—19.
- Alberts, Linda J. and B. M. Flexible skirt distender attachments. 2,903,706, 9-15-59, Cl. 2—215.
- Albertsen, Hans C. Upflow clarifier apparatus. 2,874,118, 2-17-59, Cl. 210—205.
- Albertson & Co., Inc.: *See*—  
Madsen, Jens A. W. 2,886,997.  
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- Albertson, Lawrence E., to The McKays Co. Water softening system and apparatus. 2,880,872, 4-7-59, Cl. 210—104.
- Albertson, Victor N., and R. E. Paulson, to Minneapolis-Moline Co. Variable speed belt drive. 2,916,926, 12-15-59, Cl. 74—230.17.
- Alberty, Fred J. Automatic film mounting machine. 2,889,066, 6-2-59, Cl. 216—28.
- Albin, Jacques: *See*—  
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- Albiniano, Larry, to F. Ronci Co., Inc. Swivel shoe buckle. 2,897,566, 8-4-59, Cl. 24—188.
- Albinson, Don: *See*—  
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- Albinson, Harold H., and J. F. Voss, to General Motors Corp. Transmission. 2,867,136, 1-6-59, Cl. 74—732.
- Albiswerk Zurich, A.G.: *See*—  
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- Portenier, Ernst, Spinnler, Boly, and Riolo. 2,871,372.
- Albrecht, Alexander J.: *See*—  
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- Albrecht, Hermann F.: *See*—  
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- Albrecht, Joseph A., to Buffalo Eye-Bank and Research Society Inc. Eye carrier. 2,880,856, 4-7-59, Cl. 206—1.
- Albrecht, Leonard N., to General Motors Corp. Domestic appliance. 2,897,812, 8-4-59, Cl. 126—19.
- Albrecht, Otto: *See*—  
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- Albrecht, Otto, to Ciba Ltd. New derivatives of aldehyde condensation products of the aminotriazine or urea group and their manufacture and use. 2,892,810, 6-30-59, Cl. 260—67.6.
- Albrecht, Otto, to Ciba Ltd. Epoxy quaternary ammonium compounds. 2,897,201, 7-28-59, Cl. 260—268.
- Albrecht, Otto, to Ciba Ltd. Derivatives of aldehyde condensation products of the aminotriazine or urea group, and their manufacture and use. 2,915,502, 12-1-59, Cl. 260—67.6.
- Albrecht, Ransom C., to Crown Cork & Seal Co., Inc. Hardness tester. 2,890,585, 6-16-59, Cl. 73—81.
- Albrecht, Rudolf: *See*—  
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- Albrecht, Warren F., to General Electric Co. Photoflash lamp. 2,868,003, 1-13-59, Cl. 67—31.
- Albright Boat & Marine Co.: *See*—  
Albright, William A. 2,910,708.
- Albright, Charles F.: *See*—  
Washburn, Robert M., and Albright. 2,898,365.
- Albright, Franklin C., to Bendix Aviation Corp. Wheel and brake assembly for aircraft landing gear. 2,875,855, 3-3-59, Cl. 188—18.
- Albright, Franklin C., to Bendix Aviation Corp. Aircraft wheel and brake assembly. 2,885,033, 5-5-59, Cl. 188—152.
- Albright, Franklin C., to Bendix Aviation Corp. Brake control device. 2,904,135, 9-15-59, Cl. 188—181.
- Albright, George F.: *See*—  
Mullaney, William J., and Albright. 2,881,489.
- Albright, Harry E.: *See*—  
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- Albright, Harry E., to General Electric Co. Strip chart recorder. 2,879,123, 3-24-59, Cl. 346—117.
- Albright, Roy A., to I-T-E Circuit Breaker Co. Metal enclosed isolated phase bus structure. 2,875,265, 2-24-59, Cl. 174—99.
- Albright, Roy H., to I-T-E Circuit Breaker Co. Telescoping blade switch. 2,889,435, 6-2-59, Cl. 200—163.
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- Albright, William A., to Albright Boat & Marine Co. Water sled. 2,910,708, 11-3-59, Cl. 9—21.
- Albright & Wilson Ltd.: *See*—  
Redfarn, Cyril A., and Coates. 2,909,446.
- Albrighton, Reginald F.: *See*—  
Coley, Nelson B., Judge, and Albrighton. 2,868,962.
- Albrighton, Reginald F., and W. R. Smith, to General Railway Signal Co. Posting indicator control system. 2,916,613, 12-8-59, Cl. 246—122.
- Albro, Paul W., and V. F. Cartwright, to United States of America, Navy. Phase stable divider. 2,885,553, 5-5-59, Cl. 250—27.
- Alcar Instruments, Inc.: *See*—  
Carlin, Benson. 2,896,099.
- Alcaro, Anthony. Means for attaching baking pan covers to baking pans. 2,903,151, 9-8-59, Cl. 220—23.2.
- Alco Products Inc.: *See*—  
Bergner, Robert S., and Hauenstein. 2,882,795.  
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- Alco Valve Co.: *See*—  
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Dube, John E., and Tilney. 2,876,629.  
Tilney, Ralph B. 2,888,039.  
Tilney, Ralph B. 2,900,805.  
Tilney, Ralph B. 2,902,051.
- Alcover, Gabriel, to Picas International Ltd. Gymnastic device. 2,909,371, 10-20-59, Cl. 272—79.
- Alcus, Felix L. System and apparatus for drying air. 2,903,861, 9-15-59, Cl. 62—93.
- Alden, Alex E., and H. E. Rosenberger; said Alden assor. to Twentieth Century-Fox Film Corp., and said Rosenberger assor. to Bausch Lomb Optical Co. Projection apparatus. 2,909,097, 10-20-59, Cl. 88—24.
- Alden, John M. Shielded connector. 2,915,734, 12-1-59, Cl. 339—143.
- Alden, Milton. Friction device for a moving web. 2,879,061, 3-24-59, Cl. 271—23.
- Alden, Milton. Recording electrode. 2,879,129, 3-24-59, Cl. 346—139.
- Alden, Milton. Stylus recorder. 2,916,343, 12-8-59, Cl. 346—49.
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Fricks, Richard E. 2,873,315.  
Fricks, Richard E. 2,918,525.  
Nyman, Alexander. 2,888,516.
- Alder, Robert L., to Dresser Industries, Inc. Earth borehole logging system. 2,898,088, 8-4-59, Cl. 255—24.
- Alder, Robert L., to Dresser Industries, Inc. Apparatus for earth borehole investigating and signaling. 2,901,685, 8-25-59, Cl. 323—74.
- Alderfer, Sterling Co.: *See*—  
Alderfer, Sterling W., and Bodley. 2,898,626.
- Alderfer, Sterling W., and H. D. Bodley, to Sterling Alderfer Co. Method and apparatus for forming foamed material. 2,898,626, 8-11-59, Cl. 18—4.
- Alderfer, Sterling W., to Sterling Alderfer Co. Method for producing foamed plastic material. 2,898,634, 8-11-59, Cl. 18—59.
- Alderman, Edwin N., E. I. Spearman, and C. M. Stout, to The Dow Chemical Co. Thickened petroleum liquid especially for treating wells. 2,914,476, 11-24-59, Cl. 252—8.55.
- Alderman, Edwin N., Jr., and C. M. Stout, to The Dow Chemical Co. Corrosion inhibition of brine. 2,913,420, 11-17-59, Cl. 252—389.
- Alderman, Freida B.: *See*—  
Alderman, Jerome E. 2,872,926.
- Alderman, Jerome E., deceased, by F. B. Alderman, executrix. Electro encephalographic electrode. 2,872,926, 2-10-59, Cl. 128—410.
- Alderman, Leon D., R. E. Hobbs, Jr., and M. Maeser, to United Shoe Machinery Corp. Component inserting machines. 2,896,208, 7-28-59, Cl. 1—2.
- Alderman, Leon D., C. P. Cardani, E. S. Kant, and H. B. Kimball, to United Shoe Machinery Corp. Machines for cutting, forming and fastening components. 2,896,213, 7-28-59, Cl. 1—102.
- Alders, Lucas, J. P. Fortuin, H. Mondria, and G. H. Reman, to Shell Development Co. Process for the separation of diisopropylbenzene dihydroperoxides. 2,915,558, 12-1-59, Cl. 260—610.
- Alders, Lucas, N. Max, and J. J. Tjepkema, to Shell Development Co. Purification of halohydrins. 2,891,093, 6-16-59, Cl. 260—633.
- Alderson, Hedley W.: *See*—  
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- Alderson, William T., to Ingersoll-Rand Co. Compressor. 2,889,108, 6-2-59, Cl. 230—181.



- Alderwerke vorm. Heinrich Kleyer Akt.: *See*—  
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- Aldinger, Ulrich: *See*—  
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- Aldinger, Ulrich, and F. Eheim, to Robert Bosch, G.m.b.H. Fuel supply system for internal combustion engines. 2,902,019, 9-1-59, Cl. 123-140.
- Aldinger, Ulrich, and J. Weber, to Robert Bosch, G.m.b.H. Control valve arrangement for injection pumps. 2,918,048, 12-22-59, Cl. 123-140.
- Aldington, Elmer T., to American Can Co. Capping heads. 2,885,851, 5-12-59, Cl. 53-357.
- Aldon Co., The: *See*—  
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- Aldred, Eldon D.: *See*—  
Huettner, Clarence, and Aldred. 2,895,118.
- Aldredge, Howard D.: *See*—  
Aldredge, Robert L. and H. D. 2,885,101.
- Aldredge, Robert L. and H. D., to Container Service Co. Material handling device. 2,885,101, 5-5-59, Cl. 214-302.
- Aldrich, Donald F. and W. E. Newell, to Westinghouse Electric Corp. Starter for a gaseous discharge device. 2,871,409, 1-27-59, Cl. 315-99.
- Aldrich, Ellwood H. Apparatus for the purification of liquids. 2,878,959, 3-24-59, Cl. 210-202.
- Aldrich, Ellwood H. Apparatus for separating solids from liquids. 2,888,144, 5-26-59, Cl. 210-530.
- Aldrich Machine Works: *See*—  
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- Aldridge, Clyde L.: *See*—  
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- Aldridge, Clyde L., and E. M. Charlet, to Esso Research and Engineering Co. Method for preparing emulsifying agents and emulsions prepared therefrom. 2,871,137, 1-27-59, Cl. 106-235.
- Aldridge, Clyde L., W. E. Catterall, and D. W. Wood, to Esso Research and Engineering Co. Preparation of olefins. 2,906,794, 9-29-59, Cl. 260-683.15.
- Aldridge, Clyde L., and E. A. Hunter, to Esso Research and Engineering Co. Stripping solvent from isobutylene-isoprene copolymer latices. 2,912,401, 11-10-59, Cl. 260-29.7.
- Aldridge, John E., to Kuner-Empson Co. Feed tube. 2,867,247, 1-6-59, Cl. 141-39.
- Aldridge, Robert C.: *See*—  
Buckingham, William D., and Aldridge. 2,882,434.
- Aldridge, Seth E. Fuel injection system. 2,870,759, 1-27-59, Cl. 123-140.
- Aleksa, Peter, to General Telephone Laboratories, Inc. Desk telephone. 2,910,538, 10-27-59, Cl. 179-103.
- Aler, Richard P. Interlock fastener. 2,867,025, 1-6-59, Cl. 24-221.
- Alessi, Andrew J., Jr.: *See*—  
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Hirschey, Malcolm, Gottscho, and Alessi. 2,879,711.
- Alessio, Ernesto D. Combination of screed with handles and manipulating means therefor. 2,897,735, 8-4-59, Cl. 94-45.
- Aleweld, Heinz, to Messrs. Metallwerke Gebr. Sepelfricke G.m.b.H. Electric igniting devices for gas stoves or the like. 2,896,704, 7-28-59, Cl. 158-115.
- Alexander, Allen A.: *See*—  
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- Alexander, Ben, to International Telephone and Telegraph Corp. Magnetic switching circuit. 2,881,331, 4-7-59, Cl. 307-88.
- Alexander, Benjamin H.: *See*—  
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- Alexander, Carl Z. Stand boiler. 2,905,153, 9-22-59, Cl. 122-166.
- Alexander, Charles F., to Kiekhaefer Corp. Throttle and ignition control for internal combustion engines. 2,890,689, 6-16-59, Cl. 123-98.
- Alexander, Douglas S., and W. A. Henry, to Polymer Corp. Ltd. Extraction process for diolefins using copper ammonium acetate. 2,887,521, 5-19-59, Cl. 260-681.5.
- Alexander, Ernest J.: *See*—  
Kirchner, Frederick K., and Alexander. 2,879,270.
- Alexander, Focaneau. Voltage testing device. 2,892,117, 6-23-59, Cl. 313-146.
- Alexander, Frank M., to Industrial Nucleonics Corp. Measuring and controlling system. 2,909,660, 10-20-59, Cl. 250-52.
- Alexander, Guy B., and R. K. Iler, to E. I. du Pont de Nemours and Co. Organophilic and hydrophilic composition. 2,886,460, 5-12-59, Cl. 106-308.
- Alexander, Guy B., and R. K. Iler, to E. I. du Pont de Nemours & Co. Process for modifying the properties of a silica sol and product thereof. 2,892,797, 6-30-59, Cl. 252-313.
- Alexander, Guy B., to E. I. du Pont de Nemours and Co. Chemical process and composition. 2,913,419, 11-17-59, Cl. 252-313.
- Alexander, Herbert C., to Bomac Laboratories Inc. Transmit-receive device. 2,903,655, 9-8-59, Cl. 333-13.
- Alexander, Herbert C., and J. E. Burr, Jr., said Alexander assor. to Bomac Laboratories Inc. Transmit-receive tube. 2,918,603, 12-22-59, Cl. 315-41.
- Alexander, James M., and O. T. Homan. Rocket projectile. 2,884,859, 5-5-59, Cl. 102-38.
- Alexander, Jeanne E.: *See*—  
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- Alexander, Laurence R., and L. J. Rzewinski. Power supply. 2,891,479, 6-23-59, Cl. 102-70.2.
- Alexander, Lewis W.: *See*—  
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- Alexander, Lewis W., to Halax Corp. Composite ball joint. 2,905,492, 9-22-59, Cl. 287-87.
- Alexander, Marcel R.: *See*—  
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- Alexander, Matthew A.: *See*—  
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- Alexander, Matthew A., and R. Stuart-Williams, to Tele-meter Magnetics, Inc. Analog-to-digital conversion system. 2,897,486, 7-28-59, Cl. 340-347.
- Alexander, Paul, to Union Carbide Corp. Process of melt extruding plastic film. 2,876,497, 3-10-59, Cl. 18-57.
- Alexander, Paul, to Continental Can Co., Inc. Vaporizing element connector and method. 2,903,547, 9-8-59, Cl. 219-19.
- Alexander, Perry L., Jr.: *See*—  
Currie, Grover C., and Alexander. 2,885,841.
- Alexander, Ray H. Spring tire. 2,912,032, 11-10-59, Cl. 152-6.
- Alexander, Robert L., to The Altex Corp. Door and window structures. 2,913,778, 11-24-59, Cl. 20-11.
- Alexander, Rolf. Conveyance of liquids through pipelines. 2,892,416, 6-30-59, Cl. 103-234.
- Alexander, Verma C. Interlocked flooring and method. 2,914,815, 12-1-59, Cl. 20-8.
- Alexander, Walter B., to Acme Precision Products, Inc. Vise. 2,896,515, 7-28-59, Cl. 90-60.
- Alexander, Wendal A., to National Research Council. Preparation of oxidation catalytic units. 2,883,346, 4-21-59, Cl. 252-473.
- Alexander, William W., to The Distributor's Group, Inc. Method and article for lubricating sewing machines and the like. 2,897,774, 8-4-59, Cl. 112-256.
- Alexander, William W., and K. M. Magee. Lubricant dispenser for lubricating strip material. 2,908,246, 10-13-59, Cl. 118-268.
- Alexanderson, Ernst F. W. Motor control system. 2,876,408, 3-3-59, Cl. 318-345.
- Alexandersson, Harald V., and C. O. Sohlberg, to Telefonaktiebolaget L M Ericsson. Dial. 2,887,539, 5-19-59, Cl. 179-90.
- Alexandroff, Sergei D. Valve assembly for an internal combustion engine. 2,917,036, 12-15-59, Cl. 123-188.
- Alexandrovsky, George. Screw conveyor and method for its manufacture. 2,917,815, 12-22-59, Cl. 29-156.8.
- Alexeff, Alexander V., to Oehler Development & Mfg. Corp. Uniform tension pipe support. 2,867,399, 1-6-59, Cl. 248-54.
- Alexeff, Alexander V., and H. R. Richards, to Industrial Owens, Inc. Pneumatic tire. 2,915,102, 12-1-59, Cl. 152-356.
- Alf, Fritz, to Deutsche Edelstahlwerke Akt., and Allgemeine Elektrizitäts-Gesellschaft. Method of and apparatus for progressively heating metal strip by the direct passage of an electric current therethrough. 2,894,115, 7-7-59, Cl. 219-155.
- Alf, Fritz, V. Seul, and J. Lenze, to Deutsche Edelstahlwerke Akt., Allgemeine Elektrizitäts-Gesellschaft, and Stahl-und Walzwerke Rasselstein/Andernach Akt. Method of progressively heating sheet metal and an induction coil for performing the method. 2,897,328, 7-28-59, Cl. 219-10.41.
- Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli. Device for automatic control of friction clutch in automotive vehicle. 2,908,364, 10-13-59, Cl. 192-3.5.
- Alford, Andrew. Coaxial switch. 2,876,303, 3-3-59, Cl. 200-6.
- Alford, Andrew. Aperiodic directive antenana. 2,910,694, 10-27-59, Cl. 343-732.
- Alford, Andrew W. Means for matching the characteristic impedance of a coaxial conductor. 2,880,398, 3-31-59, Cl. 333-22.
- Alford, Edwin L., 1/2 to W. W. Garber. Radio-proof electric firing device. 2,918,001, 12-22-59, Cl. 102-28.
- Alford, Maitland W.: *See*—  
Robinson, Albert, and Alford. 2,914,810.
- Alford Package Machines, Inc.: *See*—  
Bowman, Paul F. 2,912,806.
- Alfords Cartons: *See*—  
Vines, Oscar L. 2,872,096.
- Alfreds, Torris H.: *See*—  
Bennett, Anthony, and Alfreds. Re. 24,714.
- Alfredsson, Per-Olof: *See*—  
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- Algaie, Lawrence I., to Instruments for Industry, Inc. Duplex operation using alternately keyed distributed amplifiers. 2,900,634, 8-18-59, Cl. 343-178.
- Alger, James C. Hub cap lock. 2,874,561, 2-24-59, Cl. 70-169.
- Alger, Jerry T., to Configured Tube Products Co. Flame deflector. 2,877,837, 3-17-59, Cl. 158-113.
- Alger, Jerry T., to Cribben and Sexton Co. Pilot burner assembly. 2,918,119, 12-22-59, Cl. 158-115.
- Alger, John. Refreshment plate holders. 2,916,180, 12-8-59, Cl. 220-23.86.



- Alger, Philip L., to General Electric Co. Reactor controlled dual winding induction motor. 2,894,190, 7-7-59, Cl. 318-228.
- Alginat Industries Ltd.: See—  
Merton, Robert R., McDowell, and Aylett. 2,895,910.  
Mitchell, Ernest K., and McDowell. 2,902,446.
- Algino, Joseph M.: See—  
Eskin, Samuel G., Algino, and Legeza. 2,898,046.
- Algino, Joseph M., and J. S. Slimak, to The Dole Valve Co. Safety shut-off gas valve. 2,869,566, 1-20-59, Cl. 137-66.
- Alheim, Robert J.: See—  
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- Alh  ti  re, Louis, and F.-X. Poincet, to Les Usines de Melle (Soci  t   Anonyme). Manufacture of highly pure ethyl alcohol. 2,878,167, 3-17-59, Cl. 202-40.
- Alholm, Wayne L., J. R. Campbell, A. B. Foye, A. J. Lynn, and D. L. Shanklin, to W. R. Grace & Co. Gasket applying machine. 2,907,300, 10-6-59, Cl. 118-323.
- Alim Corp.: See—  
Schulenburg, Wilhelm. 2,881,088.
- Alimanestiano, Mihai, to Speed-Park Inc. Automobile parking apparatus. 2,890,802, 6-16-59, Cl. 214-16.1.
- Alimanestiano, Serban, to Speed-Park, Inc. Transfer device. 2,915,204, 12-1-59, Cl. 214-16.4.
- Alinari, Carlo. Panoramic mount for cinematographic cameras. 2,894,709, 7-14-59, Cl. 248-186.
- Aliosa-Etablissement: See—  
Alber, Robert. 2,884,646.
- Alizon, Etienne, to Compagnie Industrielle des Telephones. Device for the regeneration of telegraph signals. 2,898,404, 8-4-59, Cl. 178-70.
- Alkire, Innis D., to North American Aviation, Inc. High temperature spring seal. 2,875,917, 3-3-59, Cl. 220-46.
- Alkire, Robert L.: See—  
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- Allais, Andre, and P. Girault, to U C L A F. 2,3-dichloro-2-butene-1,4-bis-(  thioacetic acid) and process for preparing same. 2,885,437, 5-5-59, Cl. 260-537.
- Allais, Andre, and C. Hoffmann, to Les Laboratoires Francais de Chimiotherapie. Process of producing cis-testosterone. 2,918,482, 12-22-59, Cl. 260-397.4.
- All American Engineering Co.: See—  
Cotton, Robert B., and Daniels. 2,872,136.  
Doolittle, Donald B. 2,872,132.  
Doolittle, Donald B. 2,906,476.
- All-American Mfg. Co.: See—  
Raines, Fred H. 2,917,615.
- Allander, Claes, P.-O. Alfredsson, and S. Wallin, to Aktiebolaget Svenska Flaktfabriken. High-velocity air-conditioning. 2,899,180, 8-11-59, Cl. 257-277.
- Allander, Claes, to Aktiebolaget Svenska Flaktfabriken. Ventilating unit provided with an electric heater. 2,914,648, 11-24-59, Cl. 219-39.
- Allard, Harrie M., to Improved Machinery, Inc. Injection molding machine nozzle. 2,871,517, 2-3-59, Cl. 18-30.
- Allard, Marc, B. Trentini, and L. Wahl, to Institut de Recherches de la Siderurgie. Method for desulfurizing molten metal and in particular liquid pig iron. 2,906,616, 9-29-59, Cl. 75-51.
- Allard, Nils G. E. Device for automatic lubrication of rail curves. 2,871,980, 2-3-59, Cl. 184-3.
- Allbright-Nell Co., The: See—  
Allbright, Norman J., and Illsley. 2,881,942.  
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Illsley, Ralph W. 2,908,424.
- Allbright, Norman J., and R. W. Illsley, to The Allbright-Nell Co. Container closure structure. 2,881,942, 4-14-59, Cl. 220-41.
- All-Brite Fluorescent Fixtures, Inc.: See—  
Thallon, Robert. 2,894,118.
- Allebach, Karl A., to Northrop Corp. Bi-directional counter mechanism. 2,904,250, 9-15-59, Cl. 235-91.
- Allegemeine Elektrizit  ts-Gesellschaft: See—  
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- Allegheny Ludlum Steel Corp.: See—  
Burridge, Joseph V. 2,887,829.  
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Dyrkacz, Wasil W., Aggen, and Reynolds. 2,873,187.  
Gifford, Paul B. 2,900,556.  
Heck, Daniel W. 2,867,061.  
Laine, Edward A. 2,905,078.  
Lena, Adolph J., and Bush. 2,874,082.  
Passafaro, Anthony L., Braun, and Powers. 2,876,598.  
Patterson, Walter M., Connor, and Shaw. 2,869,197.  
Zaremski, Donald R. 2,871,175.  
Zaremski, Donald R., and Beigay. 2,913,360.
- Allegretti, Anthony J., to R. R. Donnelley & Sons Co. Adhesive composition comprising water, bentonite and polyvinyl methyl ether. 2,884,396, 4-28-59, Cl. 260-29.6.
- Allegretti, Anthony J., and R. P. Fischer, to The Cuneo Press, Inc. Method and apparatus for preparing and binding books. 2,897,523, 8-4-59, Cl. 11-1.
- Allegretti, John E., to Merck & Co., Inc. Stable vitamin A compositions. 2,897,118, 7-28-59, Cl. 167-81.
- Allegrina, Louis A., and L. F. Bush. Electrical oil level measuring device. 2,889,545, 6-2-59, Cl. 340-244.
- Alleman, Carl E.: See—  
Stafford, Joseph D., Jr., and Alleman. 2,905,597.
- Alleman, Hugo. Rotary or turning arrangements on fashioning machines. 2,883,897, 4-28-59, Cl. 82-2.
- Alleman, Hugo, to Hugo Alleman A.G. Automatically controlled machine tool. 2,898,784, 8-11-59, Cl. 77-34.5.
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- Allen, Alan A., to Milli-Switch Corp. Mounting means for switch units. 2,875,306, 2-24-59, Cl. 200-168.
- Allen, Alan R., to Kennedy-Van Saun Mfg. & Eng. Corp. Method and apparatus for hydrating calcitic and dolomitic quicklimes. 2,888,324, 5-26-59, Cl. 23-188.
- Allen, Albert, and L. K. Spink, to The Foxboro Co. Viscosity measurement system. 2,896,656, 7-28-59, Cl. 137-92.
- Allen, Arthur C., to Stewart-Warner Corp. High capacity fuel pump. 2,872,871, 2-10-59, Cl. 103-37.
- Allen, Arthur C., to Stewart-Warner Corp. Combustion heater control. 2,884,196, 4-28-59, Cl. 236-1.
- Allen-Bradley Co.: See—  
Bradley, Harry L., and Hower. 2,899,611.  
Dehn, William F., and Dickinson. 2,868,931.  
De Smidt, Woodrow A., Look, and Zarwell. 2,897,327.  
Kuhn, Edward H. 2,903,528.  
Kuhn, Edward H., and Matthias. 2,919,327.  
Lawrence, Leland E. 2,903,537.  
Schlicke, Heinz M. 2,890,422.
- Allen, Byron W., Jr. Plate glass storage rack. 2,902,168, 9-1-59, Cl. 211-41.
- Allen, Charles F.: See—  
Booth, Robert B., Walker, and Allen. 2,894,851.
- Allen, Charles F. H., and J. J. Sagura, to Eastman Kodak Co. Stabilized photographic silver halide emulsions. 2,870,015, 1-20-59, Cl. 96-109.
- Allen, Charles S. Power operated flexible conveyor. 2,888,128, 5-26-59, Cl. 198-64.
- Allen, Charles S. Trash receiver for automobiles. 2,914,163, 11-24-59, Cl. 206-19.5.
- Allen, Clayton H.: See—  
Baruch, Jordan J., and Allen. 2,893,508.
- Allen, Clifford H., to Thompson Products, Inc. Valve rotating device. 2,881,745, 4-14-59, Cl. 123-90.
- Allen, Clifford H., to Thompson Ramo Wooldridge, Inc. Tappet. 2,915,051, 12-1-59, Cl. 123-90.
- Allen-Crawford Ltd.: See—  
Pelletier, Joseph A. 2,874,649.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Calcium silicate and method of producing same. 2,888,377, 5-26-59, Cl. 162-181.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Silica composition and production thereof. 2,905,567, 9-22-59, Cl. 106-304.
- Allen, Edward M., to Columbia-Southern Chemical Corp. Method of producing silica. 2,910,375, 10-27-59, Cl. 106-306.
- Allen, Edwin L., to L. W. Menzimer, trustee. Door check. 2,880,029, 3-31-59, Cl. 292-278.
- Allen, Edwin L., to L. W. Menzimer, trustee. Door holding device. 2,915,777, 12-8-59, Cl. 16-82.
- Allen, Edwin L., to L. W. Menzimer, trustee. Door holding device. 2,915,779, 12-8-59, Cl. 16-82.
- Allen Electric Equipment Co.: See—  
Weidner, Ralph J. 2,884,215.
- Allen Electric & Equipment Co.: See—  
Marriott, William L. 2,899,624.  
Moehring, William D. 2,908,859.
- Allen, Emma G.: See—  
Booth, Robert B., Walker, and Allen. 2,894,851.
- Allen, Ernest W., to Westinghouse Electric Corp. Soldering apparatus. 2,877,731, 3-17-59, Cl. 113-93.
- Allen, Forrest J., Jr.: See—  
Karcher, John C., and Allen. 2,885,270.
- Allen, Frank B., to The Fry-Fyter Co. Stored pressure medium container with discharge control. Re. 24,718, 10-13-59, Cl. 222-5.
- Allen, Frank E., to Owens-Corning Fiberglas Corp. Multiple spindle apparatus with radial axes. 2,877,670, 3-17-59, Cl. 77-26.
- Allen, Frank J., Jr. Matching games. 2,876,012, 3-3-59, Cl. 273-153.
- Allen, Frank J., Jr. Card with garment attaching portion. 2,914,869, 12-1-59, Cl. 40-1.5.
- Allen, Garner M.: See—  
McVoy, Vincen P. 2,894,154.
- Allen, George H. Portlight and skylight ventilator. 2,885,941, 5-12-59, Cl. 98-37.
- Allen, George J., and R. C. Parsons, to Virginia-Carolina Chemical Corp. Diethylamine addition products of acid phosphates. 2,903,393, 9-8-59, Cl. 167-30.
- Allen, George, Jr., and J. S. Webb, to American Cyanamid Co. Substituted pyroles. 2,901,489, 8-25-59, Cl. 260-326.3.
- Allen, George W., to Stewart-Warner Corp. Sheet metal burner and cross lighter. 2,875,821, 3-3-59, Cl. 158-115.
- Allen, Gordon S. J.: See—  
Crosfield, John F., and Allen. 2,870,253.
- Allen & Hanburys Ltd.: See—  
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Thorpe, Ronald J. 2,898,168.
- Allen-Harper, Inc.: See—  
Allen, Kenneth M., and Harper. 2,899,044.
- Allen, Harry W., and E. C. Frey. Anti-jimmy lock. 2,910,859, 11-3-59, Cl. 70-135.
- Allen, Herbert, to Cameron Iron Works, Inc. Valve. 2,873,085, 2-10-59, Cl. 251-261.
- Allen, Herbert, to Cameron Iron Works, Inc. Slip assembly. 2,874,436, 2-24-59, Cl. 24-263.
- Allen, Herbert, to Cameron Iron Works, Inc. Well control equipment. 2,877,977, 3-17-59, Cl. 251-1.



- Allen, Herbert, M. T. Works, and J. P. Oliver, to Cameron Iron Works, Inc. Blowout preventer. 2,912,214, 11-10-59, Cl. 251-1.
- Allen, Horace E.: *See*—  
Barren, James L. 2,891,020.
- Allen, Howard G., to Bostitch, Inc. Fastener-applying implement. 2,899,679, 8-18-59, Cl. 1-49.
- Allen Iron & Steel Co., The: *See*—  
Bell, Francis J., and Stoddart. 2,918,176.  
Stover, Carrell J. 2,884,063.
- Allen, James R., J. H. Kress, and P. R. Bunnelle, to Deere & Co. Demand compensated hydraulic system. 2,892,312, 6-30-59, Cl. 60-52.
- Allen, James W.: *See*—  
Williams, Donald L., and Allen. 2,911,051.
- Allen, John G., to Phillips Petroleum Co. Conversion process and apparatus. 2,908,631, 10-13-59, Cl. 208-75.
- Allen, John K., to Sylvania Electric Products Inc. Television receiver with color reference source. 2,904,625, 9-15-59, Cl. 178-5.4.
- Allen, John M., to Penley Brothers. Clothespin loading machine. 2,907,159, 10-6-59, Cl. 53-154.
- Allen, John M., and G. V. Scott, to Colgate-Palmolive Co. Shampoo composition. 2,879,231, 3-24-59, Cl. 252-90.
- Allen, Joseph C., to The Texas Co. Producing petroleum from underground formations. 2,878,874, 3-24-59, Cl. 166-2.
- Allen, Joseph C., to Texaco Inc. Producing viscous crudes from underground formations. 2,909,224, 10-20-59, Cl. 166-45.
- Allen, Joseph C., and R. E. Kunetka, to The Texas Co. In situ combustion within a subsurface formation containing petroleum hydrocarbons. 2,871,941, 2-3-59, Cl. 166-38.
- Allen, Joseph C., and R. C. Reynolds, to Texaco Inc. Productivity well logging. 2,900,517, 8-18-59, Cl. 250-83.
- Allen, Kenneth C., to The Hobart Mfg. Co. Weighing scale adapted servomotor system. 2,873,416, 2-10-59, Cl. 318-31.
- Allen, Kenneth C., and E. A. Reussenzehn, to The Hobart Mfg. Co. Computing scale. 2,880,643, 4-7-59, Cl. 88-1.
- Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Vibrating conveyors. 2,899,044, 8-11-59, Cl. 198-220.
- Allen, Laird R., Jr.: *See*—  
Wandell, George F., and Allen. 2,901,910.
- Allen, Lawrence E.: *See*—  
Oberholtz, Lester E., and Allen. 2,868,027.
- Allen, Lawrence E., to Allis-Chalmers Mfg. Co. Header mounting for harvester threshers. 2,867,958, 1-13-59, Cl. 56-21.
- Allen, Leslie J.: *See*—  
Davison, Alan, and Allen. 2,898,406.
- Allen, Lyman S., to Monsanto Chemical Co. Coating composition and process of preparation. 2,870,035, 1-20-59, Cl. 106-192.
- Allen, Norman P., and J. D. Grogan, to United States of America, Atomic Energy Commission. Uranium compositions. 2,886,430, 5-12-59, Cl. 75-122.7.
- Allen, Oliver L., to Electrolux Corp. Multiple purpose nozzle. 2,880,447, 4-7-59, Cl. 15-417.
- Allen Organ Co., Inc.: *See*—  
Markowitz, Jerome. 2,888,850.
- Allen, Peter W., and G. L. Cavender, to The Federal Machine and Welder Co. Methods of and apparatus for sorting. 2,873,017, 2-10-59, Cl. 198-33.
- Allen, Philip H.: *See*—  
Lawrence, Joseph L., and Allen. 2,910,292.
- Allen, Philip H., and B. J. Chromy. Registers. 2,893,632, 7-7-59, Cl. 235-92.
- Allen, Philip H., and B. J. Chromy. Cathode ray tube apparatus. 2,896,112, 7-21-59, Cl. 315-21.
- Allen, Philip J. Microwave circulator. 2,867,772, 1-6-59, Cl. 333-9.
- Allen, Philip J., to United States of America, Navy. Trimode hybrid junction. 2,892,982, 6-30-59, Cl. 333-11.
- Allen, Philip S.: *See*—  
Applegate, Marvin C., and Fritz. 2,916,976.
- Allen, Philip S. Combined cigarette-package, matchbook and ashtray holder. 2,919,018, 12-29-59, Cl. 206-38.
- Allen, R. C., Business Machines, Inc.: *See*—  
Kuijper, James R. 2,871,707.
- Allen, Richard W., and F. Cohen, to United States of America, Army. Variable impedance transformer. 2,900,610, 8-18-59, Cl. 333-35.
- Allen, Robert E.: *See*—  
Van Campen, Marcus G., Jr., Allen, Palopoli, and Schumann. 2,877,269.
- Allen, Robert E., and W. J. Kennedy, to Textron Inc. Lens chuck. 2,879,632, 3-31-59, Cl. 51-237.
- Allen, Robert E., F. P. Palopoli, E. L. Schumann, W. C. Day, and V. J. Feil, to The Wm. S. Merrell Co. Amino alkoxy phenyl methanes. 2,891,957, 6-23-59, Cl. 260-294.7.
- Allen, Robert E., F. P. Palopoli, E. L. Schumann, and M. G. Van Campen, Jr., to The Wm. S. Merrell Co. Mono amines of triphenyl ethylenes. 2,914,529, 11-24-59, Cl. 260-247.7.
- Allen, Robert E., F. P. Palopoli, E. L. Schumann, and M. G. Van Campen, Jr., to The Wm. S. Merrell Co. Amine derivatives of triphenylethylene. 2,914,561, 11-24-59, Cl. 260-570.
- Allen, Robert E., F. P. Palopoli, E. L. Schumann, and M. G. Van Campen, Jr., to The Wm. S. Merrell Co. Amine derivatives of triphenylethanol. 2,914,562, 11-24-59, Cl. 260-570.
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- Allen, Robert E., F. P. Palopoli, E. L. Schumann, and M. G. Van Campen, Jr., to The Wm. S. Merrell Co. Amine derivatives of 1,1,2-triphenylethane. 2,914,564, 11-24-59, Cl. 260-570.
- Allen, Robert K., to General Electric Co. Method of treating rails to prevent oil films. 2,890,970, 6-16-59, Cl. 117-49.
- Allen, Robert R., and A. A. Kiess, to Armour and Co. Separation of monocarboxylic and dicarboxylic acids. 2,916,502, 12-8-59, Cl. 260-419.
- Allen, Robert W., and A. W. Taylor, to Henry Simon, Ltd. Pneumatic conveyors and the like for powdered and granular materials. 2,868,590, 1-13-59, Cl. 302-17.
- Allen, Roy M., to R. P. Cargille Laboratories, Inc. Refractometers. 2,869,417, 1-20-59, Cl. 88-14.
- Allen, Russell G., to Owens-Illinois Glass Co. Article transfer mechanism. 2,888,131, 5-26-59, Cl. 198-210.
- Allen, S. L., & Co., Inc.: *See*—  
Bonner, Edwin K., Jr., and Wickert. 2,890,561.
- Allen, Samuel G., II, F. L. Currie, and J. J. McManus, to The Western Union Telegraph Co. Phasing system. 2,874,218, 2-17-59, Cl. 178-69.5.
- Allen, Thomas E. Rat traps. 2,896,361, 7-28-59, Cl. 43-131.
- Allen, Thomas O., to Jersey Production Research Co. Gun perforators for wells. 2,884,836, 5-5-59, Cl. 89-1.
- Allen, Thomas O., to Jersey Production Research Co. Gun perforator. 2,889,774, 6-9-59, Cl. 102-20.
- Allen, W. D. Mfg. Co.: *See*—  
O'Brien, William P. 2,871,059.  
Pokryfke, John A. 2,871,083.
- Allen, Wade W., to The Upjohn Co. Semi-micro evaporation apparatus. 2,868,626, 1-13-59, Cl. 23-259.
- Allen, Wade W., and N. A. Drake, to The Upjohn Co. Time lapse attachment for movie cameras. 2,912,896, 11-17-59, Cl. 88-16.
- Allen, William A., to Carrier Corp. Breaker strip construction. 2,873,041, 2-10-59, Cl. 220-9.
- Allen, William B.: *See*—  
Smith, Clarence G., and Allen. 2,887,554.
- Allen, William H., to Joslyn Mfg. and Supply Co. Method of processing and packaging. 2,908,122, 10-13-59, Cl. 53-21.
- Allen, William M., to Battelle Memorial Institute. Slitter-disk bark-stripping apparatus. 2,891,588, 6-23-59, Cl. 144-208.
- Allen, William M., to Haloid Xerox Inc. Tripartite developer for electrostatic images. 2,919,247, 12-29-59, Cl. 252-62.1.
- Allenby, William F.: *See*—  
Lee, Herbert C., and Allenby. 2,911,144.
- Alender, Richard E., to American Air Filter Co., Inc. Storage cabinet. 2,857,351, 5-19-59, Cl. 312-253.
- Alfer, Edmund R., to General American Transportation Corp. Hoppers for finely divided materials. 2,919,158, 12-29-59, Cl. 302-52.
- Alfer Press A/S: *See*—  
Mosegaard, Marius. 2,910,939.
- Alfer, Willis F., to The Sheffield Corp. Pressure unit. 2,875,331, 3-17-59, Cl. 200-83.
- Alfer, Willis F., to The Sheffield Corp. Gauging device. 2,909,812, 10-27-59, Cl. 33-174.
- Alfer, Willis F., to The Sheffield Corp. Apparatus and method for setting up dimensional gauging devices. 2,916,911, 12-15-59, Cl. 73-37.9.
- Alfer, Willis F., and N. L. Jeglum, to The Sheffield Corp. Apparatus for bending a part to a predetermined configuration. 2,912,040, 11-10-59, Cl. 153-50.
- Alles, Francis P.: *See*—  
Blake, Ralph K., and Alles. 2,887,379.
- Alles, Francis P., to E. I. du Pont de Nemours and Co. Process for producing improved polymeric terephthalate film. 2,884,663, 5-5-59, Cl. 18-48.
- Alles, Francis P., to E. I. du Pont de Nemours and Co. Mechanism for positioning an adhesive strip material in a splicing apparatus. 2,899,200, 8-11-59, Cl. 271-2.5.
- Allgaier, Earl. Dual control for automobiles. 2,890,597, 6-16-59, Cl. 74-562.5.
- Allgaier-Werke G.m.b.H.: *See*—  
Hütter, Wolfgang, and Ritter. 2,917,121.  
Ritter, Kaspar. 2,903,080.
- Allgaier, William A., to Sylvania Electric Products Inc. Getter flashing mechanism. 2,881,298, 4-7-59, Cl. 219-10.69.
- Allgayer, August, to Schuhmaschinenfabrik Hanke & Co., G.m.b.H. Apparatus for reinforcing projecting lips on inner soles. 2,909,792, 10-27-59, Cl. 12-20.
- Allgeyer, Guy H.: *See*—  
McLaughlin, John E., and Allgeyer. 2,913,852.
- Alliance Mfg. Co., Division of Consolidated Electronics Corp.: *See*—  
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- Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp.: *See*—  
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- Allied Block Chemical Co.:** *See—*  
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- Allied Chemical Corp.:** *See—*  
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 Gilbert, Everett E. 2,891,887.  
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- Allied Chemical & Dye Corp.:** *See—*  
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- Allied Container Corp.:** *See—*  
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- Allied Laboratories, Inc.:** *See—*  
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- Allied Materials Corp.:** *See—*  
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- Allied Plastics Co.:** *See—*  
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- Allied Steel and Conveyors, Inc.:** *See—*  
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- Allied Steel and Conveyors, Division of The Sparks-Withington Co.:** *See—*  
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- Alliger, Glen, and H. P. Stevens, to The Firestone Tire & Rubber Co. Method of vulcanizing rubber with an N,N-dialkylthiocarbamyl sulfenamide as an accelerator, and the vulcanizable composition. 2,875,260, 2-24-59, Cl. 260—793.
- Allimann, George, to Vertrieb-und Verkauf-Akt. Predetermined torque release wrench. 2,885,918, 5-12-59, Cl. 81—52.4.
- Allin, George S., to International Harvester Co. Hydraulic ram mountings for earth moving machines. 2,867,922, 1-13-59, Cl. 37—144.
- Allin, George S., Jr.: *See—*  
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- Allin, George S., Sr., to International Harvester Co. Wheeled scraper. 2,888,758, 6-2-59, Cl. 37—126.
- Allin, George S., Sr., and J. K. Liu, to International Harvester Co. Planetary steering mechanism for crawler tractors. 2,876,657, 3-10-59, Cl. 74—710.5.
- Alling, John F., and A. R. Fleischer; said Fleischer assor. of ½ to said Alling. Portable training device for electric accounting machine operators. 2,893,137, 7-7-59, Cl. 35—19.
- Allingham, Walter F., to Carrier Corp. Valve constructions. 2,867,237, 1-6-59, Cl. 137—625.29.
- Allinquant, Fernand S. Lower attachment for a telescopic shock-absorber in an automobile vehicle suspension. 2,873,045, 3-17-59, Cl. 287—85.
- Allinquant, Fernand S. Diaphragm device for separating two different fluids in a cylindrical chamber. 2,914,089, 11-24-59, Cl. 137—784.
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 Hartwig, Walter J. 2,911,160.  
 Hawk, Dale W. 2,886,357.  
 Herbage, Bernard S. 2,905,358.  
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 John, Russell W. 2,872,815.  
 Johnston, Gorman J. 2,904,760.  
 Kamlukin, Igor. 2,871,726.  
 Kenney, Clarence E. 2,910,894.  
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 Kurze, Paul G. 2,876,649.  
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 Ramrath, Joseph M. 2,891,134.  
 Reaves, Robert S. 2,884,080.  
 Reinke, Herbert J., and Gallatin. 2,870,395.  
 Richter, Walther. 2,910,941.  
 Ringland, William L. 2,869,007.  
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 Standish, Earl L. 2,895,751.  
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- Bradburn, William J., Jr. 2,897,427.  
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 Allison, Adrian G., to United States of America, Atomic Energy Commission. Slip casting method. 2,902,380, 9-1-59, Cl. 106—121.  
 Allison, Blaine M., and W. Schmid, to Owens-Illinois Glass Co. Injection molding machines. 2,894,284, 7-14-59, Cl. 18—30.  
 Allison, Clifford. Bending tool. 2,905,224, 9-22-59, Cl. 153—16.  
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 Allison, Kenneth C. Tuning apparatus. 2,881,322, 4-7-59, Cl. 250—40.  
 Allison, Kenneth C. Electrical switching units. 2,900,461, 8-18-59, Cl. 200—11.  
 Allison, Kenneth C. Slide-type electric switch. 2,902,550, 9-1-59, Cl. 200—16.  
 Allison, Kenneth C., and W. L. Hoehn. Rotary switch detent spring. 2,869,395, 1-20-59, Cl. 74—527.  
 Allison, Ollie M. Automobile seat attachment for dogs. 2,869,146, 1-20-59, Cl. 5—118.  
 Allison, Sewell W., to Bell Telephone Laboratories, Inc. Toll telephone circuits. 2,868,886, 1-13-59, Cl. 179—27.  
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 Allison, William D. Inertia control means for load compensator mechanism. 2,876,019, 3-3-59, Cl. 280—124.  
 Allison, William D. Torsional spring suspension for vehicles. 2,893,750, 7-7-59, Cl. 280—104.  
 Allison, William D. Load compensating spring suspension for vehicles. 2,911,231, 11-3-59, Cl. 280—104.  
 Allmand, Leslie E., and W. C. Electric lantern. 2,899,540, 8-11-59, Cl. 240—10.5.  
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- Thompson, Ivan P., Allmand, Hartmann, Winter, and Blackburn. 2,873,224.

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- Sundberg, Sven A. 2,899,733.  
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 Charles, Thomas G. 2,919,413.  
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 Al-Marachy, Pierre F. Apparatus for effecting chemical reactions on glass or like plates. 2,914,384, 11-24-59, Cl. 23—253.  
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 Almén, Bengt S. O., to Sandvikens Jernverks Aktiebolag. Tool holder. 2,911,707, 11-10-59, Cl. 29—96.  
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 Almen, John O. Means of cooling transmission rollers. 2,910,143, 10-27-59, Cl. 184—6.  
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- Alps, Hugo A., M. D. Hurwitz, and B. B. Kine, to Rohm & Haas Co. Coated materials and methods for producing them. 2,880,116, 3-31-59, Cl. 117-72.
- Alpura Aktiengesellschaft: *See*—  
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- Alsberg, Frederick R., R. N. Heslop, I. D. Rattee, and W. E. Stephen, to Imperial Chemical Industries Ltd. Colouring process. 2,892,670, 6-30-59, Cl. 8-39.
- Alsberg, Frederick R., I. D. Rattee, and W. E. Stephen, to Imperial Chemical Industries Ltd. Colouring process. 2,892,671, 6-30-59, Cl. 8-41.
- Alsberg, Frederick R., and A. H. Wyld, to Imperial Chemical Industries Ltd. New colouration process for textile materials. 2,895,785, 7-21-59, Cl. 8-65.
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- Alspaugh, Paul L., to Union Carbide Corp. Continuous automatic coker. 2,893,922, 7-7-59, Cl. 202-22.
- Alspaugh, Paul L., J. W. Heimaster, and R. L. McNeill, to Union Carbide Corp. Mining machine launching device. 2,872,170, 2-3-59, Cl. 262-26.
- Alspaugh, Paul L., R. G. Keister, and R. C. Perry, to Union Carbide Corp. Apparatus for pressurizing hot pulverized coal. 2,912,126, 11-10-59, Cl. 214-17.
- Alspaugh, Paul L., R. G. Keister, and R. C. Perry, to Union Carbide Corp. Method for pressurizing hot pulverized coal. 2,912,132, 11-10-59, Cl. 214-152.
- Alstad, Norman J., and G. E. Chandler, to Raytheon Co. Circuit employing reflex klystron with protective diode. 2,910,612, 10-27-59, Cl. 315-5.19.
- Alstadt, Donald M.: *See*—  
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- Altenburg, William M., to Diamond Gardner Corp. Molded pulp pallet. 2,903,218, 9-8-59, Cl. 248-120.
- Altenburger, Ernst: *See*—  
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- Altendorf, Joseph M. Lawn edging tool. 2,890,525, 6-16-59, Cl. 30-307.
- Altenpohl, Dietrich: *See*—  
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- Altgelt, Rudolph J., to Ford Motor Co. Two way plow with reversible moldboard. 2,874,788, 2-24-59, Cl. 172-219.
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- Alumbaugh, John W., and E. W. Greenwood. Sliding material guide for table saws. 2,881,812, 4-14-59, Cl. 143-52.
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 Brockman, John A., Jr., and Fabio. 2,877,243.  
 Brockman, John A., Jr., and Fabio. 2,891,988.  
 Brockman, John A., Jr., and Fabio. 2,905,679.  
 Brody, Frederick, and Leavitt. 2,901,485.  
 Bullock, Milton W. 2,872,455.  
 Bullock, Milton W. 2,894,965.  
 Bullock, Milton W., and Hand. 2,883,420.  
 Bullock, Milton W., and Hand. 2,901,506.  
 Butler, Caroline. 2,903,430.  
 Cardaciotto, Paul S., and Vitalis. 2,871,157.  
 Cardaciotto, Paul S., and Vitalis. 2,871,158.  
 Carnarius, Edwin H., and Kaufman. 2,917,878.  
 Carnes, Joseph J., and Vitalis. 2,887,504.  
 Carver, Gordon M., Jr., and Barber. 2,893,548.  
 Cauwenberg, Winfred J., and Dietz. 2,879,131.  
 Cauwenberg, Winfred J., and Dietz. 2,879,132.  
 Chamberlain, Ralph J. 2,891,878.  
 Chamberlain, Ralph J. 2,893,875.  
 Christmann, Ludwig J., and Houpt. 2,878,169.  
 Clark, Joe H., and Taft. 2,891,953.  
 Clarke, Frank H. 2,914,445.  
 Conn, Robert C., Kosloski, and Kienle. 2,881,152.  
 Coutras, Alexander. 2,867,600.  
 Coutras, Alexander, and Updegraff. 2,867,590.  
 Cresswell, Arthur. 2,916,348.  
 D'Adamo, Amedeo F., Jr., and Van Loo. 2,889,192.  
 Dalalian, Harry P., Starker, and Goldman. 2,909,524.  
 Daniel, John H., Jr. 2,906,724.  
 Davis, Arnold R. 2,912,403.  
 Di Cicco, George. 2,917,431.  
 Divine, Ralph D. 2,879,214.  
 Divine, Ralph D., and Yost. 2,879,284.  
 Dixon, James K., Du Breuil, and Boardway. 2,918,468.  
 Drucker, Arnold, and Daniel. 2,917,501.  
 Duhnkrack, George B., and Dugliss. 2,877,204.  
 Federgreen, Nathan, and Jordan. 2,900,078.  
 Forster, Warren S. 2,892,872.  
 Fox, Sidney M., Blicharz, and Winterbottom. 2,875,247.  
 Frazier, Charles, and Fortune. 2,868,748.  
 Frazier, Charles, and Fortune. 2,868,752.  
 Frazza, Everett J., and Rapoport. 2,916,511.  
 Friedlander, Henry Z. 2,886,558.  
 Gersumky, William D., and Sutherland. 2,878,290.  
 Goodman, Joseph J. 2,871,166.  
 Goodman, Joseph J. 2,911,339.  
 Groszoz, Stephen J. 2,884,441.  
 Groszoz, Stephen J. 2,915,543.  
 Groszoz, Stephen J., and Hall. 2,885,370.  
 Groszoz, Stephen J., and Stafiej. 2,892,869.  
 Gruber, Arnold H. 2,897,170.  
 Hardy, Elizabeth M., Hosler, and Lamb. 2,879,198.  
 Hardy, William B. 2,890,193.  
 Hardy, William B. 2,890,201.  
 Hardy, William B., and Adams. 2,912,391.  
 Hardy, William B., and Hosler. 2,914,536.  
 Hardy, William B., Hosler, and Lamb. 2,877,258.  
 Hardy, William B., and Klingsberg. 2,900,401.  
 Hardy, William B., Thelin, and Furman. 2,877,261.  
 Hardy, William B., Thelin, and Furman. 2,884,449.  
 Hardy, William B., Thelin, and Furman. 2,903,484.  
 Hart, William F. 2,919,253.  
 Hedley, Norman, and Tabachnick. 2,884,322.  
 Hedley, Norman, and Tabachnick. 2,903,345.  
 Hein, Delton W., Alheim, and Barabutes. 2,877,252.



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Hengel, Mathew C. 2,915,012.  
Hensley, William L., Kirsch, and Layman. 2,889,293.  
Herbes, William F., and Polansky. 2,881,153.  
Herringer, Richard, and Garber. 2,898,350.  
Hewitt, Redginal I., and Taylor. 2,877,154.  
Hoffmann, Arthur K. 2,868,840.  
Hoffmann, Arthur K., and Groszoz. 2,882,317.  
Hopkins, William C., and Senese. 2,873,203.  
Hosler, John F. 2,907,763.  
Hotchkiss, Charles N., Kloth, and Callahan. 2,890,980.  
House, Ronald R., and Jen. 2,872,313.  
Hulburt, Hugh M., and Hyman. 2,908,551.  
Hutchison, Alexander H. 2,887,215.  
Jen, Yun. 2,867,607.  
Jen, Yun, Moore, and Suen. 2,885,318.  
Johnson, Robert B., and Sutherland. 2,907,801.  
Jordan, Donald G. 2,872,706.  
Karkalits, Olin C., Jr., Vanderwaart, and Megson. 2,891,094.  
Katz, Leon, Hein, Pretka, and Long. 2,913,450.  
Kissman, Henry M., and Weiss. 2,881,164.  
Klingsberg, Erwin. 2,884,424.  
Klingsberg, Erwin. 2,888,461.  
Klingsberg, Erwin. 2,898,343.  
Kocay, Witold R., and Mogensen. 2,885,878.  
Konazewski, William P., and Bott. 2,918,759.  
Kun, Kenneth A., and Schmidlein. 2,918,452.  
Lake, Francis G. 2,867,997.  
Lamb, Glentworth. 2,867,562.  
Lamb, Glentworth, and Clark. 2,882,196.  
Lawler, Edward B., Vartanian, and Roth. 2,909,451.  
Layman, Ralph E., Jr. 2,889,294.  
Lecher, Hans Z., and Greenwood. 2,870,204.  
Lecher, Hans Z., and Hardy. 2,872,484.  
Lecher, Hans Z., and Hardy. 2,878,272.  
Lobby, Joseph. 2,913,494.  
Long, Robert S., and Boyle. 2,877,230.  
Long, Robert S., and Buell. 2,893,986.  
Long, Robert S., and Buell. 2,894,003.  
Long, Robert S., and Pretka. 2,915,534.  
Long, Robert S., and Tsang. 2,877,218.  
Long, Robert S., and Tsang. 2,889,317.  
Long, Robert S., and Tsang. 2,898,332.  
Long, Robert S., and Tsang. 2,898,371.  
Long, Robert S., and Tsang. 2,903,450.  
Luberoff, Benjamin J. 2,882,297.  
Luberoff, Benjamin J. 2,882,298.  
Lurie, David. 2,875,045.  
Lyle, Alfred G., Brubaker, and Beyer. 2,915,388.  
Madison, Richard K., and Bellis. 2,887,510.  
Malley, Thomas J., Pennell, and Schindler. 2,911,374.  
McCormick, Jerry R. D., Hirsch, Jensen, and Sjolander. 2,878,289.  
McSheehy, Justin A. 2,898,337.  
Mecco, Jerry M., Carlino, and Zimmerman. 2,881,045.  
Melchore, James A., and Laube. 2,883,260.  
Mendelsohn, Harold. 2,905,714.  
Miller, Mary L. 2,873,240.  
Minieri, Pasquale P., and Ziegler. 2,871,264.  
Morgan, Russell L., and Kolodny. 2,868,753.  
Mowat, John H., and Webb. 2,918,471.  
Paz, Alfred R. 2,872,425.  
Pelcak, Emil J., and Dornbush. 2,906,595.  
Petropoulos, John C. 2,870,227.  
Petropoulos, John C. 2,873,262.  
Petropoulos, John C. 2,898,319.  
Polansky, Raymond, and Herbes. 2,881,154.  
Popino, Robert P., and Charlebois. 2,918,410.  
Price, John A. 2,871,229.  
Price, John A. 2,883,370.  
Price, John A. 2,891,025.  
Price, John A., and Padbury. 2,891,035.  
Ramirez, Fausto. 2,914,522.  
Reed, Charles C., and Winterbottom. 2,871,265.  
Ritson, Daniel D. 2,889,299.  
Ritson, Daniel D., and Jen. 2,918,438.  
Roberts, George L., Jr. 2,891,964.  
Rolland, Calvin C., and Johnson. 2,907,804.  
Rolland, Calvin C., and Sutherland. 2,907,802.  
Rolland, Calvin C., and Sutherland. 2,907,803.  
Russell, William N., and Suen. 2,878,237.  
Ryder, Robert C. 2,885,409.  
Sandhage, Ellsworth R. 2,906,423.  
Sandhage, Ellsworth R., and Bott. 2,907,357.  
Scalera, Mario, Brody, Zimmerman, and Ulmes. 2,911,425.  
Scalera, Mario, Tomcufoik, and Hardy. 2,879,274.  
Schaefer, Frederic C. 2,878,250.  
Schaefer, Frederic C., and Landers. 2,901,464.  
Schaub, Robert E., and Weiss. 2,908,694.  
Schaufelberger, Felix A. 2,916,357.  
Schmutzler, Alfred F. 2,881,145.  
Schuller, Walter H., Thomas, Moore, and House. 2,884,058.  
Sellers, William N. 2,874,446.  
Sellers, William N. 2,886,403.  
Sellers, William N., and Sonnino. 2,881,474.  
Shaw, John T., Hosler, and Beachem. 2,917,540.  
Sieger, George M., Jr., Valentine, and Weidenheimer. 2,899,362.  
Smalley, Janet H., and Stafiej. 2,917,543.  
Smith, Leland L., Marx, and Muller. 2,905,662.

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Smolin, Edwin M. 2,878,259.  
Smolin, Edwin M. 2,905,729.  
Smolin, Edwin M., and Jordan. 2,917,560.  
Smolin, Edwin M., and Luberoff. 2,882,299.  
Spencer, Cecil A. 2,867,613.  
Spitzer, Penn F., Jr., and Perry. 2,883,258.  
Sprague, George S., and Friedlander. 2,898,320.  
Stafford, Robert W. 2,882,589.  
Stirn, Frank E., and Taylor. 2,878,630.  
Stirn, Frank E., and Taylor. 2,902,802.  
Suen, Tzeng J., and Jen. 2,900,367.  
Suen, Tzeng J., and Russell. 2,893,977.  
Suen, Tzeng J., and Webb. 2,917,477.  
Sullivan, Frank A. V. 2,879,262.  
Sullivan, Frank A. V., and Westerback. 2,875,202.  
Szumski, Stephen A. 2,871,167.  
Szumski, Stephen A. 2,904,473.  
Taylor, Arthur S., and Konazewski. 2,891,468.  
Thelin, Jack H. 2,905,695.  
Thomas, Samuel O., Lowery, and Singleton. 2,914,525.  
Thomas, Walter M. 2,895,949.  
Thomas, Walter M., Sullivan, and Hardy. 2,883,371.  
Tsang, Sien M. 2,891,048.  
Tsang, Sien M., Lewis, and Paul. 2,893,816.  
Tsang, Sien M., and Long. 2,884,446.  
Turner, Richard J., and Song. 2,891,961.  
Valentine, William, and Stearns. 2,889,252.  
Valentine, William, and Weidenheimer. 2,879,161.  
Van Loo, William J., Jr. 2,887,408.  
Van Loo, William J., Jr., and Salsbury. 2,898,238.  
Vitalis, Emil A. 2,874,124.  
Vitalis, Emil A. 2,917,410.  
Vitalis, Emil A., and Andrew. 2,886,422.  
Vitalis, Emil A., and Andrew. 2,886,423.  
Vitalis, Emil A., and Andrew. 2,917,378.  
Voorhees, Albert, and Scott. 2,899,261.  
Wagner, Alan R., and Cooper. 2,893,392.  
Webb, John S., and Schneller. 2,891,949.  
Whitehouse, Karl C., and Lecher. 2,894,024.  
Wilson, Lucius H., Hopkins, and Stafiej. 2,909,514.  
Wilson, Lucius H., and Jen. 2,901,391.  
Wilson, Lucius H., Thomas, and Padbury. 2,884,057.  
Winterbottom, Robert, Mendelsohn, Muller, and McCormick. 2,899,422.  
Wohnsiedler, Henry P. 2,884,395.  
Woodberry, Norman T., Moore, and Jen. 2,890,978.  
Wooding, William M. 2,887,116.  
Wooding, William M. 2,887,405.  
Wooding, William M. 2,918,386.  
Wooding, William M. 2,918,387.  
Young, Guy B. 2,882,820.  
Ziegler, William M. 2,914,524.  
American Cystoscope Makers, Inc.: See—  
Wallace, Frederick J. 2,888,017.  
Wallace, Frederick J. 2,898,917.  
Wallace, Frederick J. 2,918,919.  
American Display Co., The: See—  
Dobkin, William J. 2,878,974.  
Dunkelberger, Milton S. 2,884,726.  
American District Telegraph Co.: See—  
Hube, Arthur B. 2,880,808.  
Hube, Arthur B. 2,891,625.  
Rush, Charles D., and Muehter. 2,876,396.  
Sawicki, Alfred T. 2,912,540.  
Vassil, Theo N., and Evans. 2,871,466.  
American Drill Bushing Co.: See—  
Armcast, Robert H., and Robertson. 2,877,674.  
American Duplex Co.: See—  
Schuhmann, Richard L., and Zehnder. 2,900,140.  
American Electric Motors, Inc.: See—  
De Young, Roger E. 2,872,599.  
American Electrical Heater Co.: See—  
Kuhn, Robert A., and Hanser. 2,887,799.  
American Electronics Co.: See—  
Nussbaum, Milton. 2,919,442.  
Stout, Glenn M., and Peterson. 2,887,592.  
American Enka Corp.: See—  
Bakker, Willem. 2,887,279.  
Bakker, Willem. 2,909,026.  
Bakker, Willem. 2,918,781.  
Benninga, Noah, Johnston, Lynch, Markwood, and Parks. 2,908,944.  
Beyer, Jené. 2,867,969.  
Buchkremer, Josef, Bolton, Lutz, and Wistuba. 2,913,772.  
Cromwell, Carroll W., Jr. 2,887,620.  
De Gee, Bob. 2,898,629.  
De La Bréoniere, André B. 2,885,615.  
De Langen, Lambertus H. 2,887,267.  
De Langen, Lambertus H. 2,906,087.  
Elling, Hugo, Ellsner, and Heuer. 2,893,821.  
Geitenbeek, Theodor W. 2,871,569.  
Griset, Ernest J., Jr. 2,881,473.  
Griset, Ernest J., Jr. 2,881,906.  
Griset, Ernest J., Jr. 2,899,265.  
Gumml, Peter. 2,886,879.  
Heijns, James W. I. 2,886,978.  
Heijns, James W. I., and Beyer. 2,872,128.  
Hennemann, Georg. 2,909,445.  
Henry, William V. 2,886,848.  
Henry, William V. 2,877,545.  
Hesslink, Frans. 2,908,937.



- American Enka Corp. : See—Continued**  
 Kessler, Jacob C. F. 2,906,732.  
 Kessler, Jacob C. F., and Kamerbek. 2,913,801.  
 Kohlwey, Johann F., and Klafter. 2,877,478.  
 Koot, Paul. 2,914,493.  
 Limburg, Pieter C. 2,914,375.  
 Schonberg, Eudre, and Wilbrink. 2,882,186.  
 Schrenk, Hans A. 2,913,867.  
 Schrenk, Hans A., and Heijnis. 2,902,817.  
 Schrenk, Hans A., and van Dijk. 2,893,198.  
 Van Dijk, Pieter. 2,869,312.  
 Walker, Bernard F., Ward, and Godehn. 2,905,968.  
 Whisnant, John K. 2,871,502.  
 Zuidema, Bert. 2,881,583.
- American Envelope Co., The : See—**  
 Showalter, Frank W. 2,912,959.
- American Feldmuehle Corp. : See—**  
 Maier, Robert. 2,900,144.
- American Felt Co. : See—**  
 Hencken, Harold G. 2,917,340.  
 Marshall, Jule F. 2,907,405.
- American Fire Apparatus Co. : See—**  
 Barton, Benjamin D. 2,896,541.
- American Flange & Mfg. Co., Inc. : See—**  
 Dearing, Clarence W., Gruczek, and Stone. 2,889,156.  
 Keplinger, Livingston B. 2,916,311.  
 Marchyn, John M. 2,906,429.  
 Taylor, James B., III. 2,907,489.  
 Taylor, James B., III, and Barradas. 2,900,103.
- American Flexible Coupling Co. : See—**  
 Beecher, Donald J. 2,867,100.  
 Beecher, Donald J. 2,871,681.  
 Crankshaw, John H. 2,873,588.  
 Crankshaw, John H. 2,873,589.
- American Forge and Mfg. Co. : See—**  
 Heppenstall, Samuel B., Jr. 2,906,555.
- American Forging and Socket Co. : See—**  
 Koskela, Robert B. 2,908,185.  
 McCarthy, Charles S. 2,907,228.  
 McCarthy, Charles S., Koskela, and Rhodes. 2,905,024.  
 Rhodes, Albert J. 2,904,822.  
 Scott, Edwin D. 2,907,371.
- American Gage & Machine Co. : See—**  
 Wilton, Robert. 2,888,534.
- American Gas Assn., Inc. : See—**  
 Weber, Earl J. 2,896,702.  
 Weber, Earl J. 2,896,703.
- American Gilsonite Co. : See—**  
 Morse, Park L. 2,903,409.
- American Hardware Corp., The : See—**  
 Andreotti, Eugene R., and Mikitka. 2,913,819.  
 Linton, Thomas B. 2,878,049.  
 McConnell, Frank J. 2,879,096.  
 Rainman, Joseph C. 2,917,915.  
 Schoepe, Adolf. 2,870,621.  
 Schweitzer, William V. 2,912,846.  
 Vahlstrom, Carl A. 2,906,112.  
 Welch, Nicholas A. 2,904,172.
- American Hatchery Engineers, Inc. : See—**  
 Morris, Robert C., and Brown. 2,903,290.
- American-Hawaiian Steamship Co. : See—**  
 Black, James J., Brian, Frechie, Hummel, McIlhenny, Rahe, and Suman. 2,894,650.
- American Hoist & Derrick Co. : See—**  
 Brown, Archer W. 2,914,194.  
 Stoddard, Robert J., Brown, and Bratt. 2,902,177.
- American Home Products Corp. : See—**  
 Barr, Martin, and Monaco. 2,918,405.  
 Dann, Morris, Lockwood, and Clovd. 2,884,123.  
 Dann, Morris, and Peterson. 2,870,766.  
 Dann, Morris, and Peterson. 2,871,858.  
 Grant, Gordon A., von Seemann, and Winthrop. 2,876,224.  
 Higgin, Albert S. 2,880,686.  
 Hohnstine, Jack T., Versocki, and Steckhahn. 2,894,928.  
 Irvine, Douglas S., and Gaudry. 2,894,006.  
 Langis, Andre L., and Gaudry. 2,874,158.  
 Pope, Seth, and Zilliken. 2,910,408.  
 Szabo, Joseph L., and Bruce. 2,868,833.  
 Szabo, Joseph L., and Bruce. 2,876,236.  
 Winthrop, Stanley O. 2,894,029.  
 Winthrop, Stanley O. 2,894,030.  
 Winthrop, Stanley O. 2,910,505.  
 Winthrop, Stanley O., and Davis. 2,914,527.
- American Hospital Supply Corp. : See—**  
 Borin, Harlan F. 2,883,262.  
 Johnson, Axel E. F. 2,870,917.  
 Johnson, Axel E. F. 2,901,123.  
 Johnson, Axel E. F. 2,914,281.  
 Johnson, Axel E. F., and Savke. 2,918,243.  
 Savke, Kurt G. C. 2,873,993.
- American Infra Red Radiant Co., Inc. : See—**  
 Schwank, Gunther. 2,870,830.
- American Instrument Co., Inc. : See—**  
 Chase, Fletcher A., Lee, and Montgomery. 2,911,302.  
 Kremen, Jerome, and Shapiro. 2,873,644.  
 Ohlheiser, Carlton E. 2,870,306.  
 Ross, Hugh N. 2,913,902.  
 Shapiro, Justin J. 2,867,784.  
 Shapiro, Justin J., and Winslow. 2,886,964.
- American Iron & Machine Works Co., Inc. : See—**  
 Levendoski, Alfred E. 2,917,114.  
 Rodgers, Otis N., and Olson. 2,903,235.  
 Wolfe, Duane M. 2,869,405.
- American Latex Products Corp. : See—**  
 Gerstin, Harry. 2,871,481.
- American Laundry Machinery Co., The : See—**  
 De Moss, Albert H. 2,906,035.  
 Eygabroad, Robert J. 2,886,838.  
 Malott, Clifton S., Jr. 2,887,313.  
 Myers, Wayne E. 2,887,211.  
 Myers, Wayne E. 2,879,585.  
 Pearson, Otto H., and Strike. 2,913,156.  
 Petre, John R. 2,900,185.  
 Petre, John R. 2,914,320.  
 Sheffer, Harvey I. 2,902,850.
- American Lava Corp. : See—**  
 Nelson, Karl E., and Thurnauer. 2,908,579.
- American Lecithin Co., Inc. : See—**  
 Hennessy, Douglas J., and Kupstas. 2,882,285.  
 Jacini, Giovanni. 2,870,179.
- American Leonic Mfg. Co. : See—**  
 Fenster, Henry. 2,891,309.
- American-Lincoln Corp. : See—**  
 Becker, Anthony F. 2,906,514.  
 Bruck, John P. 2,885,122.  
 Bruck, John P. 2,893,175.  
 Bruck, John P. 2,893,176.  
 Bruck, John P. 2,893,177.  
 Dolan, Francis D. 2,884,185.
- American Linen Supply Co. : See—**  
 Birr, Rudolph G. 2,899,225.  
 Birr, Rudolph G. 2,899,251.
- American Machine and Foundry Co. : See—**  
 Bell, Leo R., and Holloway. 2,896,790.  
 Bell, Leo R., and Panuline. 2,918,772.  
 Briggs, Eugene C. 2,883,566.  
 Broekhuysen, William C., Gilman, and Petrucelly. 2,878,997.  
 Dearsley, George. 2,919,012.  
 Du Bosque, Clayton, Jr. 2,883,251.  
 Dumas, Roger E. 2,890,886.  
 Eissmann, Oswald E. 2,888,935.  
 Eissmann, Oswald E. 2,918,922.  
 Foster, Jack V., and Hanold. 2,917,598.  
 Heim, John M. 2,881,715.  
 Horgan, George D. 2,886,083.  
 Horgan, George D. 2,905,319.  
 Hungerford, Gordon P., and Yarze. 2,906,660.  
 Johnson, Carl W. 2,900,939.  
 Kruder, George A. 2,882,839.  
 Larsen, Carl H. 2,901,306.  
 McEwen, Gerald F., and McGinley. 2,871,807.  
 McLean, William B. 2,882,897.  
 Moore, Thomas W. 2,883,607.  
 Moore, Thomas W., and Wiseman. 2,872,605.  
 Morris, Robert J. 2,918,923.  
 Mueller, Homer L. 2,895,526.  
 Mueller, Homer L. 2,904,096.  
 Persson, Henry. 2,908,203.  
 Pinkham, Jesse R. 2,882,911.  
 Quisenberry, Carter E. 2,886,337.  
 Quisenberry, Carter E. 2,917,122.  
 Rosenberg, Sheldon, and Bandel. 2,887,414.  
 Simpson, Arthur P. 2,886,391.  
 Smith, Zeke R. 2,917,600.  
 Sullivan, James F. 2,880,536.  
 Waite, Fred L. 2,887,212.  
 Zito, Ralph. 2,916,289.  
 Zuercher, John. 2,874,823.  
 Zuercher, John. 2,878,019.
- American Machine and Metals, Inc. : See—**  
 Anderson, Kenneth A. 2,902,160.  
 Buss, Benjamin A. 2,906,042.  
 Buss, Benjamin A. 2,909,052.  
 Cole, James D., Duckwitz, and Sebok. 2,888,192.  
 Darde, Peter. 2,891,296.  
 Davison, Robert T. B., Eriksson, Gordon, and Marden. 2,883,086.  
 Haigler, Edmund D., Huston, and Lombard. 2,907,336.  
 Harland, Philip W., and Storms. 2,874,572.  
 Hull, Richard L. 2,898,030.  
 Huston, William D. 2,917,063.  
 Huston, William D., and Haigler. 2,911,954.  
 Huyser, Francis C. 2,875,610.  
 Huyser, Francis C. 2,889,706.  
 Le Van, Ambrose E., Harland, and Waite. 2,906,232.  
 Schmaus, Siegfried A. H. 2,918,546.
- American Maize-Products Co. : See—**  
 Bravos, George T., and Evans. 2,900,335.  
 Evans, James W., and Van Patten. 2,916,405.
- American Mfg. Co., Inc. : See—**  
 Cunningham, Eugene. 2,907,479.  
 Milner, William P. 2,913,128.  
 Milner, William P. 2,914,186.  
 Milner, William P. 2,918,295.  
 Zachow, Henry E. 2,917,881.
- American Mfg. Co. of Texas : See—**  
 Mitchell, Curtis C., and Burgon. 2,915,919.
- American-Marietta Co. : See—**  
 Baxter, Gene F., Schoening, and Preusser. 2,878,197.  
 Cone, Charles N. 2,895,928.  
 Gossett, John M., Estep, and Perrine. 2,874,134.  
 Peck, William H. 2,891,597.  
 Rikard, Mack A., Bartlett, and Coleman. 2,894,820.  
 Scripture, Edward W., Jr., Benedict, and Jacox. 2,868,659.



- American-Marietta Co.: *See*—Continued  
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 Sheeran, Norman J. 2,870,034.  
 Trautman, Herman P. 2,893,099.  
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 Washabaugh, Edward P. 2,895,299.  
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- American-Marietta Co., Adhesive, Resin and Chemical Division: *See*—  
 Jorgensen, Kristen, Williams, and Miller. 2,888,359.  
 Roeser, Gerald P. 2,873,211.  
 Roeser, Gerald P. 2,873,212.
- American-Marietta Co., Stoner-Mudge Co. Division: *See*—  
 Gray, Daniel M., and Reymann. Re. 24,702.  
 Roeser, Gerald P. 2,913,430.  
 Roeser, Gerald P. 2,918,443.
- American Medical Products Corp.: *See*—  
 Simmonds, Melvin. 2,902,034.
- American Messer Corp.: *See*—  
 Tsunoda, Kenneth, and Kuhlmann. 2,907,176.
- American Metal Climax, Inc.: *See*—  
 Lovell, Clarence E., and Lewis. 2,916,353.  
 Smith, William A., Abernethy, and Downey. 2,919,026.  
 Timmons, George A., and Semchyshen. 2,884,324.
- American Metal Products Co.: *See*—  
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 Flint, Hyland C. 2,868,276.  
 Flint, Hyland C. 2,886,311.  
 Heyl, Russell G., Jr. 2,886,095.  
 Homier, Robert I. 2,881,629.  
 Homier, Robert I. 2,915,111.  
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- American Metallurgical Products Co.: *See*—  
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 Kehoe, William R. 2,898,928.  
 Knapp, William E., and Bolcom. 2,888,741.
- American Meter Co., Inc.: *See*—  
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 Gray, Robert B. 2,874,569.  
 Parish, Charles W., and Preskitt. 2,889,713.  
 Preskitt, Stanley V. 2,912,868.  
 Riester, Hubert A., Jr., and Kugler. 2,903,323.
- American Molded Products Co.: *See*—  
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- American Mollerizing Corp.: *See*—  
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 Moller, Goran A. 2,913,388.
- American Monorail Co., The: *See*—  
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 Simon, Andrew. 2,902,945.
- American Motors Corp.: *See*—  
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 Badertscher, Dana K. 2,893,361.  
 Badertscher, Dana K., and Meech. 2,893,514.  
 Dadson, Thomas E. 2,883,508.  
 Harter, Donald G. 2,883,100.  
 Josaitis, John J. 2,878,534.  
 Kishline, Floyd F., and Voigt. 2,876,018.  
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- American National Bank and Trust Co. of Chicago: *See*—  
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 Breitenstein, Charles T. 2,896,047.  
 Brunicardi, Daniel. 2,896,045.  
 Giepen, Hubert M. 2,895,653.  
 Hooker, Donald E. 2,772,056.  
 Hooker, Donald E. 2,772,057.  
 Nicolaus, Frank G. 2,895,340.  
 Swenson, Thure R. 2,908,180.
- American Oil Co., The: *See*—  
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 Binning, Robert C., and Jennings. 2,908,730.  
 Binning, Robert C., and Kelly. 2,913,507.  
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 Clingman, William H., Jr. 2,891,096.  
 Clingman, William H., Jr. 2,891,097.  
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 Georgian, Carl C. 2,893,851.  
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 Johnston, Walter F., Jr. 2,868,718.  
 Johnston, Walker F., Jr. 2,882,225.  
 Johnston, Walker F., Jr. 2,885,351.  
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- American Optical Co.: *See*—  
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- American Optical Co.: *See*—Continued  
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 Petri, Jan E., and Jones. 2,882,793.  
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 Pincus, Alexis G. 2,901,363.  
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 Sparer, Seno. 2,901,944.  
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- American Pad & Textile Co., The: *See*—  
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- American Percussion Tool Co.: *See*—  
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- American Petroleum Institute: *See*—  
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- American Phenolic Corp.: *See*—  
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- American Photocopy Equipment Co.: *See*—  
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- American Photographic Instrument Co., Inc.: *See*—  
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- American Pipe and Construction Co.: *See*—  
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- American Portable Irrigation Co.: *See*—  
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- American Potash & Chemical Corp.: *See*—  
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- American Pulley Co., The: *See*—  
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- American Radiator & Standard Sanitary Corp.: *See*—  
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- American Rock Wool Corp.: *See*—  
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- American Safety Table Co., Inc.: *See*—  
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- American Saw and Tool Co.: *See*—  
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- American Scientific Laboratories, Inc.: *See*—  
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- American Screen Products Co.: *See*—  
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- American Screw Co.: *See*—  
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- American Sealants Co., The: See—**  
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- American Seating Co.: See—**  
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- American Sign & Indicator Corp.: See—**  
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- American Silicate Co., Inc.: See—**  
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- American Smelting and Refining Co.: See—**  
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- American Special Machine Co.: See—**  
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- American Speedlight Corp.: See—**  
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- American Stay Co.: See—**  
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- American Steel Band Co.: See—**  
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- American Steel Foundries: See—**  
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 Leisk, Roland T. 2,886,865.  
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- American Steel and Pump Corp.: See—**  
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- American Sterilizer Co.: See—**  
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- American Sugar Refining Co., The: See—**  
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- American Tank and Steel Corp.: See—**  
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- American Tape Co.: See—**  
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- American Tapered Wings, Inc.: See—**  
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- American Telephone and Telegraph Co.: See—**  
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- American Thermos Products Co., The: See—**  
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- American Time Products, Inc.: See—**  
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- American Tobacco Co., The: See—**  
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- American Tool Engineering, Inc.: See—**  
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- American Tool Works Co., The: See—**  
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- American Totalisator Co., Inc.: See—**  
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- American Type Founders Co., Inc.: See—**  
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- American Viscose Corp.: See—**  
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 Yoo, Hyungduk. 2,895,288.  
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- American W. M. B., Inc.: See—**  
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- American Welding & Mfg. Co., The: *See*—  
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- American Well Works, The: *See*—  
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- American Wilbert Vault Corp.: *See*—  
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- American Window Glass Co.: *See*—  
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- American Zinc Institute: *See*—  
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- American Zinc, Lead & Smelting Co.: *See*—  
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- Amerio, Pasquale, and A. L. Kraft, to Amerio Refrigerating Equipment Co., Inc. Automatic plate freezer for continuous freezing of food products. 2,882,697, 4-21-59, Cl. 62—155.
- Amerio Refrigerating Equipment Co., Inc.: *See*—  
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- Amerock Corp.: *See*—  
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- Ames, Edward E., to Ames Harris Neville Co. Tent construction. 2,876,783, 3-10-59, Cl. 135—3.
- Ames Harris Neville Co.: *See*—  
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- Ames, Robert G.,  $\frac{1}{2}$  to G. W. Williams, and  $\frac{1}{4}$  to S. Ames. Mastic applicator with removable heads. 2,889,699, 6-9-59, Cl. 72—130.
- Ames, Robert G.,  $\frac{1}{4}$  to S. Ames, and  $\frac{1}{2}$  each, to Miss K. A. Williams, Mrs. L. W. Rosebrook, and G. W. Williams, III. Pump for filling mastic-applying tools. 2,889,857, 6-9-59, Cl. 141—113.
- Ames, Robert G.,  $\frac{1}{2}$  to G. W. Williams, and  $\frac{1}{4}$  to S. Ames. Mastic applicator and corner-finishing tool. 2,889,965, 6-9-59, Cl. 222—323.
- Ames, Stanley: *See*—  
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Ames, Robert G. 2,889,857.  
Ames, Robert G. 2,889,965.
- Ames Safety Envelope Co.: *See*—  
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- Ames Textile Corp.: *See*—  
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- Ames, W. R., Co.: *See*—  
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- Amherst College, The Trustees of: *See*—  
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- Amiard, Gaston, R. Heymes, and L. Velluz, to UCLAF. Method of preparing L(+)-glutamine. 2,883,399, 4-21-59, Cl. 260—389.
- Amiard, Gaston, R. Heymes, and L. Velluz, to UCLAF. Method of making glutathione. 2,900,375, 8-18-59, Cl. 260—112.
- Amida S.A.: *See*—  
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Bamat, Joseph. 2,903,846.  
Bamat, Joseph. 2,915,873.
- Amidon, Roy C. Warp knitting method, machine and needle therefor. 2,913,888, 11-24-59, Cl. 66—86.
- Amiet, Oscar, to Christen & Co., A. G. Chuck with fixed cam and axially movable jaws. 2,881,006, 4-7-59, Cl. 270—53.
- Amiet, Oscar, to Christen & Co. A.G. Apparatus for sharpening drills by means of a grinding wheel. 2,911,771, 11-10-59, Cl. 51—219.
- Amil Aliments Modernes Integraux Lactes X. Rudloff, R. Pernot, P. Berger & Cie: *See*—  
Pernot, Roger G. 2,893,872.
- Amiot, Felix. Ship's hull having electrically insulated metal components. 2,915,032, 12-1-59, Cl. 114—65.
- Amir, Emanuel M., to Eссо Research and Engineering Co. Hydrocarbon chlorination process. 2,914,572, 11-24-59, Cl. 260—648.
- Amirault, Maxime, and P. Destoumieux. Rotary shaft seal. 2,881,014, 4-7-59, Cl. 286—11.
- Amirault, Maxime, and P. Destoumieux. Packing seals for use between a rotatable and a fixed part. 2,884,268, 4-28-59, Cl. 286—11.15.
- Amison, Willard C., Jr., to Bendix Aviation Corp. Valve. 2,880,750, 4-7-59, Cl. 137—469.
- Amistadi, El Henry. Electropneumatic subcaliber mortar trainer. 2,886,025, 5-12-59, Cl. 124—11.
- Amity Leather Products Co.: *See*—  
Meyer, Robert A. 2,882,575.
- Amman, Giuseppe, to Fratelli Borletti D.p.a. Device for actuating the needle bar of zig-zag sewing machines. 2,883,951, 4-28-59, Cl. 112—221.
- Ammann, Bernard W., to The Emerson Electric Mfg. Co. Coil tying machine and method of tying coils. 2,883,949, 4-28-59, Cl. 112—2.
- Ammann, William L. Crop conditioning means. 2,889,142, 6-2-59, Cl. 263—19.
- Ammo Tools, Inc.: *See*—  
Billeter, Henry R. 2,891,435.  
Billeter, Henry R. 2,901,869.
- Ammen, Francis D. Spray nozzle. 2,895,687, 7-21-59, Cl. 239—443.
- Ammenwerth, Martin F., and L. J. Caprarola, to Radio Corp. of America. Grid mount and method of tube assembly. 2,913,616, 11-17-59, Cl. 313—284.
- Ammerall, Albert J. Yarn dispensing means. 2,913,800, 11-24-59, Cl. 28—1.
- Ammerman, George E.: *See*—  
McOrilly, Joseph C., and Ammerman. 2,877,334.
- Ammerman, George E., to The Edwin L. Wiegand Co. Electric heating unit. 2,881,302, 4-7-59, Cl. 219—37.
- Ammon, Edward R. Physical conditioning machine. 2,915,057, 12-1-59, Cl. 128—33.
- Ammon, Lewis G., to A. L. Anderson. Can-filling machines. 2,888,962, 6-2-59, Cl. 141—143.
- Ammon, Roscoe A., to Minneapolis-Honeywell Regulator Co. Electrical instrument mechanism. 2,910,631, 10-27-59, Cl. 317—166.
- Amon, William F., Jr., and F. Claudi-Magnussen, to General Aniline & Film Corp. Laminated structures, compositions for producing same and processes of employing such compositions. 2,895,866, 7-21-59, Cl. 154—139.
- Amosen, George H. Variable speed pulley. 2,892,354, 6-30-59, Cl. 74—230.17.
- Amoretty, Vsevolod A.: *See*—  
Grageroff, Ignace A. 2,883,376.
- Amori, Joseph A. Shear-off article sizing mechanism and method. 2,913,108, 11-17-59, Cl. 209—72.
- Amos, Homer, to Pastushin Aviation Corp. Apparatus for producing objects of cured plastic material. 2,908,039, 10-13-59, Cl. 18—26.
- Amos, Homer, and E. T. Strickland, to Pastushin Aviation Corp. Method and apparatus for fabricating hollow bodies and sheets of plastic material. 2,870,054, 1-20-59, Cl. 154—83.
- Amos, James L.: *See*—  
Hunt, Wilson W., and Amos. 2,914,120.  
Soderquist, Frederick J., and Amos. 2,909,573.
- Ampatco Laboratories Corp.: *See*—  
Meyer, Hans-Joachim K. 2,868,024.
- Ampco Metal, Inc.: *See*—  
Klement, John F. 2,870,051.  
Klement, John F. 2,874,042.
- Ampex Corp.: *See*—  
Barkley, Joseph W. 2,915,357.  
Ginsburg, Charles P., and Dolby. 2,916,546.  
Ginsburg, Charles P., and Henderson. 2,916,547.  
Havstad, James W. 2,900,451.  
Krembs, George M. 2,916,639.  
Kyle, William F., Jr. 2,911,162.  
Maxey, Alexander R. 2,912,518.  
Pfost, Robert F. 2,912,517.  
Schultheis, Eugene W., and Brumbaugh. 2,893,653.  
Selsted, Walter T. 2,868,470.  
Selsted, Walter T., and Brumbaugh. 2,904,275.  
Sweeney, John F., and Reed. 2,914,619.
- Amroc Inc.: *See*—  
Szechtman, Joshua. 2,919,237.
- Amroy Co.: *See*—  
Weiser, David. 2,916,741.
- Amsco Packaging Machinery, Inc.: *See*—  
Sylvester, John D., and Messmer. 2,873,566.  
Sylvester, John D., Messmer, and Keenan. 2,913,863.
- Amsler, Clyde R.: *See*—  
Wylie, Jean, Osborne, and Amsler. 2,899,882.
- Amsler, Clyde, to Hycon Mfg. Co. Variable trim resistor. 2,878,350, 3-17-59, Cl. 201—62.
- Amsler, Rudolph, to Schweizerische Industrie-Gesellschaft. Locking members for a composite breech block. 2,890,626, 6-16-59, Cl. 89—108.
- Amster, Ignace, to Compagnie Generale de Telegraphie Sans Fil. Large pass-band duplex. 2,914,767, 11-24-59, Cl. 343—200.
- Amsterdamer, Mark: *See*—  
Windman, Albert, and Amsterdamer. 2,910,102.
- Amstock, Joseph S.: *See*—  
Sher, Arnold, and Amstock. 2,899,160.
- Amstutz, Edward D., and G. L. Krueger, to The Wm. S. Merrell Co. Indenones substituted by quinolyl, pyridyl and benzimidazolyl radicals. 2,894,952, 7-14-59, Cl. 260—289.
- Amthor, William M., and V. Kosuga. Digging machine. 2,894,341, 7-14-59, Cl. 37—97.
- Amtsberg, Lester A., to Chicago Pneumatic Tool Co. Impact clutch. 2,881,884, 4-14-59, Cl. 192—30.5.
- Amtsberg, Lester A., to Chicago Pneumatic Tool Co. Torque control clutch. 2,881,888, 4-14-59, Cl. 192—56.
- Amyot, Pierre, to Sarong, Inc. Brassiere. 2,897,822, 8-4-59, Cl. 128—483.
- An, Sang Y. Carburetor device. 2,898,095, 8-4-59, Cl. 261—23.
- Anaconda Aluminum Co.: *See*—  
Lundborg, Carl J. 2,918,421.
- Anaconda Co., The: *See*—  
Borcherdt, Edward R. 2,876,915.  
Haman, Harold H. 2,909,922.  
Holderreed, Francis L., and Sullivan. 2,867,972.  
Lapee, Roland J. 2,888,390.  
Zoldak, John. 2,901,271.



- Anaconda Copper Mining Co.: *See*—  
Baldwin, Maynard M. 2,890,150.  
Holderreed, Francis L., and Sullivan. 2,867,972.
- Anaconda Wire and Cable Co.: *See*—  
Arndt, Rudolph P. 2,900,356.  
D'Ascoli, Ralph G. 2,906,810.  
D'Ascoli, Ralph G. 2,914,501.  
Ebel, Lawrence C., and D'Ascoli. 2,881,243.  
Ebel, Lawrence C., and D'Ascoli. 2,913,515.  
O'Mara, Joseph B. 2,903,501.  
Whalen, Richard T., and D'Ascoli. 2,885,737.
- Anadite, Inc.: *See*—  
Jenkins, Gordon W. 2,890,135.
- Anander, Andrew K., to Powers Chemco, Inc. Multiple scale for a photoengraving camera. 2,878,717, 3-24-59, Cl. 88-24.
- Anander, Andrew K., to Powers Chemco, Inc. Flexible sheet support for large cameras. 2,910,265, 10-27-59, Cl. 248-363.
- Anastasia, Harry G., to Bendix Aviation Corp. Instrument movement correction means. 2,869,365, 1-20-59, Cl. 73-181.
- Anastasia, Harry G., and W. T. Clermont, to Bendix Aviation Corp. Pressure responsive device. 2,879,351, 3-24-59, Cl. 200-83.
- Anatol, Jesus, and V. Torelli, to UCLAF. New N,N-dibenzyl amino acid compounds and process of making same. 2,917,541, 12-15-59, Cl. 260-518.
- Ancelle, Henri: *See*—  
Bursaux, Jacques, Ancelle, and de Saint Chamant. 2,875,032.
- Ancet, Victor M. J., and Marius Fayolle known as Marcel Fayolle. Shuttleless weaving looms. 2,906,296, 9-29-59, Cl. 139-127.
- Anchor Hocking Glass Corp.: *See*—  
Acton, Daniel D. 2,916,175.  
Fouse, Frederick Z. 2,908,114.  
Stover, Harry E. 2,869,300.  
Stover, Harry E. 2,869,301.  
Stover, Harry E. 2,877,493.  
Stover, Harry E. 2,891,366.  
Stover, Harry E. 2,915,862.
- Anchor Mfg. Co.: *See*—  
Davis, Flavius B. 2,870,238.  
Davis, Flavius B., III. 2,882,454.  
Fosburgh, Herman. 2,891,693.
- Anchor Supply Co., Inc.: *See*—  
Daus, John J., Jr. 2,874,708.
- Andale Co.: *See*—  
McNeal, Daniel R. 2,893,681.
- Andean Corp.: *See*—  
Tolman, John A. 2,870,882.
- Andeen, Richard E., to Sperry Rand Corp. Aircraft automatic pilot. 2,896,883, 7-28-59, Cl. 244-77.
- Anders, Eric B., to Minneapolis-Honeywell Regulator Co. Resiliently mounted electromagnetic actuator for valves and the like. 2,894,714, 7-14-59, Cl. 251-30.
- Anderau, Emil G., to Stoffel Seals Corp. Bag closure. 2,903,287, 9-8-59, Cl. 292-325.
- Anderle, Joseph A., to Lorentzen Hardware Mfg. Corp. Cornice installation and mounting bracket. 2,890,851, 6-16-59, Cl. 248-201.
- Anderle, Joseph A., to Lorentzen Hardware Mfg. Corp. Venetian blind hold-down arrangement. 2,901,035, 8-25-59, Cl. 160-178.
- Andermann, George, and J. W. Kemp, to Applied Research Laboratories, Inc. Spectroscopy. 2,897,367, 7-28-59, Cl. 250-53.
- Andersen, Alvin D.: *See*—  
Adams, William C., and Andersen. 2,870,915.
- Andersen, Clifford W., to The Rudolph Wurlitzer Co. Electronic piano. 2,881,651, 4-14-59, Cl. 84-114.
- Andersen, Clifford W., to The Rudolph Wurlitzer Co. Damper mechanism for piano. 2,888,851, 6-2-59, Cl. 84-217.
- Andersen, Clifford W., to The Rudolph Wurlitzer Co. Piano action. 2,909,093, 10-20-59, Cl. 84-236.
- Andersen, Clifford W., to The Rudolph Wurlitzer Co. Tuning device. 2,909,727, 10-20-59, Cl. 324-79.
- Andersen Corp.: *See*—  
Fredricksen, Vern P. 2,867,014.  
Fredricksen, Vern P., and Ward. 2,867,009.
- Andersen, Donald L., to General Mills, Inc. Process for corrosion inhibition. 2,913,305, 11-17-59, Cl. 21-27.
- Andersen, Hans J., and W. E. Swenson, to Minneapolis-Moline Co. Tractor front end suspension. 2,874,972, 2-24-59, Cl. 280-92.
- Andersen, Holger C., and A. J. Haley, Jr., to Engelhard Industries, Inc. Hydrogenation of acetylene. 2,909,573, 10-20-59, Cl. 260-677.
- Andersen, James B. Plank protector with cold worked deflecting teeth. 2,895,369, 7-21-59, Cl. 85-11.
- Andersen, Johan R., to Bell Telephone Laboratories, Inc. Anti-backlash gear assembly. 2,902,879, 9-8-59, Cl. 74-440.
- Andersen, John W., to Monsanto Chemical Co. Changing pressure seals on high pressure equipment. 2,879,085, 3-24-59, Cl. 286-16.3.
- Andersen, Just B., to International Business Machines Corp. Record controlled machine. 2,872,038, 2-3-59, Cl. 209-110.
- Andersen, Louis M., to Allis-Chalmers Mfg. Co. Means for conveying crushed material from a gyratory crusher. 2,869,707, 1-20-59, Cl. 198-56.
- Andersen, Ralph A., to American Air Filter Co., Inc. High efficiency portable heater. 2,897,814, 8-4-59, Cl. 126-110.
- Andersen, Raymond C., to Flexonics Corp. Expansion joint. 2,901,272, 8-25-59, Cl. 285-227.
- Andersen, Raymond C., and E. W. Parlasca, to Flexonics Corp. Multiple bellows expansion joint with limit means. 2,873,984, 2-17-59, Cl. 285-228.
- Anderson, Adolph E., Jr. Readily attachable and detachable fishing float. 2,874,508, 2-24-59, Cl. 43-43.1.
- Anderson, Albert J. M., Mfg. Co.: *See*—  
Cobbett, Leonard C., and Winkler. 2,917,722.
- Anderson, Albin. Spark plug. 2,870,363, 1-20-59, Cl. 313-143.
- Anderson, Albin M., to Anderson Machine & Tool Works, Inc. Cushion filling machine. 2,907,156, 10-6-59, Cl. 53-124.
- Anderson, Alfred H. and W., to The General Fireproofing Co. Mounting for desk drawers. 2,872,269, 2-3-59, Cl. 312-330.
- Anderson, Alice M. and E. E. Sewing tool. 2,869,494, 1-20-59, Cl. 112-203.
- Anderson, Anders G. Slidable outer jaw wrench. 2,878,702, 3-24-59, Cl. 81-145.
- Anderson, Anderus J.: *See*—  
Lintz, Mark, and Anderson. 2,898,466.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Machine for covering containers. 2,889,675, 6-9-59, Cl. 53-220.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Mechanism for heat sealing wrappers and a method of sealing packages. 2,899,791, 8-18-59, Cl. 53-376.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Mechanism for turning packages. 2,905,295, 9-22-59, Cl. 193-43.
- Anderson, Andrew W., to Packaging Machinery Co. Article feeding and stacking mechanisms. 2,905,341, 9-22-59, Cl. 214-6.
- Anderson, Andrew W., to Scandia Packaging Machinery Co. Package sealing means. 2,916,865, 12-15-59, Cl. 153-379.
- Anderson, Arece L.: *See*—  
Ammon, Lewis G. 2,888,962.
- Anderson, Arnold T. Mold inhibiting process and product. 2,898,372, 8-4-59, Cl. 260-540.
- Anderson, Arthur B. Auto mechanic's tray. 2,901,303, 8-25-59, Cl. 311-21.
- Anderson, Arthur E., and E. A. Sack, Jr., to Westinghouse Electric Corp. Cathode ray tube. 2,888,593, 5-26-59, Cl. 315-1.
- Anderson, Arthur R., to Concrete Technology Corp. Apparatus and method for releasing loads on stressing beds for making prestressed concrete. 2,886,875, 5-19-59, Cl. 25-1.
- Anderson, Arthur W., to The Dow Chemical Co. Oxyalkylation of solid polyols. 2,902,478, 9-1-59, Cl. 260-209.
- Anderson, Arthur W., and M. I. Bro, to E. I. du Pont de Nemours and Co. Polymerization process. 2,879,263, 3-24-59, Cl. 260-94.9.
- Anderson, Arthur W., and W. J. Brehm, to E. I. du Pont de Nemours and Co. Gamma-(3-aminocyclohexyl) butyric acid and esters. 2,894,025, 7-7-59, Cl. 260-514.
- Anderson, Arthur W., J. M. Bruce, Jr., N. G. Merckling, and W. L. Truett to E. I. du Pont de Nemours and Co. Polymerization catalysts. 2,905,645, 9-22-59, Cl. 252-429.
- Anderson, Arthur W., and J. L. Meistad, to The Dow Chemical Co. Esters of 2-hydroxypropylsucrose. 2,908,681, 10-13-59, Cl. 260-234.
- Anderson, Axel: *See*—  
Granberg, Bengt R., and Anderson. 2,877,677.  
Granberg, Johnson, and Anderson. 2,913,945.
- Anderson, Axel, to Sundstrand Machine Tool Co. Tracer valve. 2,914,292, 11-24-59, Cl. 251-3.
- Anderson, Axel and E., to Sundstrand Machine Tool Co. Multipole chuck. 2,882,458, 4-14-59, Cl. 317-163.
- Anderson, Axel F. L.: *See*—  
Meyer, Harry A., and Anderson. 2,884,769.
- Anderson, Bernard E., to The Foxboro Co. Boiling point temperature measuring system. 2,900,816, 8-25-59, Cl. 73-17.
- Anderson, Bernard E., and S. W. Sweet, to The Foxboro Co. Bubble trap for liquid systems. 2,884,366, 4-28-59, Cl. 204-195.
- Anderson-Bolling Mfg. Co.: *See*—  
Peterson, William W. 2,918,976.
- Anderson Brass Works: *See*—  
Lock, Robert L., Nilsson, and Spurgeon. 2,884,476.  
Nilsson, Nils L., and Spurgeon. 2,868,865.
- Anderson, Carl: *See*—  
Rose, William R., Sr. 2,879,976.
- Anderson, Carl A., to W. H. Miner, Inc. Buffer. 2,891,684, 6-23-59, Cl. 213-221.
- Anderson, Carl F., to Packard-Bell Co. System using counter tube coder. 2,883,531, 4-21-59, Cl. 250-27.
- Anderson, Carl F., and J. A. Maize, to Telautograph Corp. Telescribing apparatus. 2,904,631, 9-15-59, Cl. 178-19.
- Anderson, Carl F., and G. S. Corbell, to Telautograph Corp. Telescribing apparatus. 2,916,550, 12-8-59, Cl. 178-19.
- Anderson, Carl R.: *See*—  
Burnet, William B., and Anderson. 2,915,182.
- Anderson, Charles B. Electric fan piercer with free stripping punch. 2,913,821, 11-24-59, Cl. 30-4.
- Anderson, Charles C., V. K. Eder, W. P. Zimmerman, T. A. Heath, and J. F. McLaughlin, to General Motors Corp. Manufacture of compressor vane assembly. 2,898,442, 8-4-59, Cl. 219-80.



- Anderson, Clarence. Fence post driving means. 2,888,245, 5-26-59, Cl. 254-29.
- Anderson, Clayton W. Valve. 2,879,798, 3-31-59, Cl. 137-628.
- Anderson, Clifford E., to Cameron Iron Works, Inc. Pipe hanging apparatus. 2,874,437, 2-24-59, Cl. 24-263.
- Anderson, Clifford E., to J. E. Hill. Rheostat control. 2,908,883, 10-13-59, Cl. 338-215.
- Anderson, Clifford E. Valve. 2,911,188, 11-3-59, Cl. 251-327.
- Anderson, Clifford R. Collapsible chair. 2,867,264, 1-6-59, Cl. 153-139.
- Anderson, Clive D.: See—
- Hiser, Willard U. 2,906,546.
- Anderson Co., The: See—
- Krohm, Fred A. 2,877,659.
- Krohm, Fred A. 2,878,506.
- Krohm, Fred A. 2,878,833.
- Krohm, Fred A. 2,897,529.
- Krohm, Fred A. 2,899,526.
- Krohm, Fred A. 2,908,462.
- Krohm, Fred A. 2,918,690.
- Macpherson, Robert B. 2,907,065.
- Wise, Ralph H. 2,872,184.
- Wise, Ralph H. 2,907,564.
- Wise, Ralph H. 2,907,610.
- Wise, Ralph H. 2,913,920.
- Wise, Ralph H. 2,914,315.
- Anderson, Dale K.: See—
- Mund, Mark G., and Anderson. 2,887,177.
- Anderson, Dale L., dedicated to the public. Wrapping apparatus. 2,889,672, 6-9-59, Cl. 53-33.
- Anderson, David F. Spray gun for viscous liquids. 2,913,187, 11-17-59, Cl. 239-412.
- Anderson, David H.: See—
- Bulova, Arde, Anderson, and Schleifer. 2,890,522.
- Anderson, Donald: See—
- Salem, Samuel, Bingham, and Anderson. 2,898,665.
- Anderson, Donald G., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,884,946, 5-5-59, Cl. 137-209.
- Anderson, Donald R., and W. R. Watson, to National Aluminate Corp. Soot inhibiting composition. 2,890,946, 6-16-59, Cl. 44-68.
- Anderson, Earl R. Manually operable pit gripper for free-stone and clingstone fruits. 2,903,031, 9-8-59, Cl. 146-31.
- Anderson, Eddie. Gasoline vaporizer. 2,892,692, 6-30-59, Cl. 48-102.
- Anderson, Edmund B.,  $\frac{1}{2}$  to W. H. Stark. Constant velocity universal joint. 2,897,663, 8-4-59, Cl. 64-21.
- Anderson, Edmund B.,  $\frac{1}{2}$  to said Anderson, and  $\frac{1}{2}$  to W. H. Stark. Anti-friction slip joint. 2,908,152, 10-13-59, Cl. 64-23.
- Anderson, Edward E., and P. G. Kiely, to Arthur D. Little, Inc. Process for preparing a corn chip product. 2,905,559, 9-22-59, Cl. 99-80.
- Anderson, Edward P., to Engelhard Industries, Inc. Safety fuse. 2,917,594, 12-15-59, Cl. 200-61.41.
- Anderson Electric Corp.: See—
- Nilsson, Nils L. 2,867,787.
- Nilsson, Nils L. 2,879,321.
- Anderson, Elizabeth D. Hair curling device and method. 2,871,865, 2-3-59, Cl. 132-7.
- Anderson, Elizabeth D., and J. L. Device and method for curling and setting the hair. 2,889,834, 6-9-59, Cl. 132-7.
- Anderson, Elmer A. Safety gun trigger. 2,871,605, 2-3-59, Cl. 42-70.
- Anderson, Elmer A., E. G. Foster, C. M. Gable, and G. C. Hood, to Shell Development Co. Recovery of tungstic catalysts. 2,869,986, 1-20-59, Cl. 23-140.
- Anderson, Elmer E.: See—
- Anderson, Alice M., and E. E. 2,869,494.
- Anderson, Elmer G.: See—
- Varrin, Albert, and Anderson. 2,877,037.
- Anderson, Emil, to Electrolux Corp. Adjustable arear restricting members for suction nozzles. 2,885,715, 5-12-59, Cl. 15-354.
- Anderson, Emil, and J. J. Kowalewski, to Electrolux Corp. Apparatus for making container closures. 2,895,551, 7-21-59, Cl. 164-68.
- Anderson, Eric: See—
- Anderson, Axel and E. 2,882,458.
- Anderson, Ernest L. Ventilating window structure. 2,867,860, 1-13-59, Cl. 20-52.2.
- Anderson, Everett V., to United States Rubber Co. Compounding of rubber latex with a thiazole accelerator and an alkali dialkyl dithiophosphate and resulting composition. 2,879,243, 3-24-59, Cl. 260-29.7.
- Anderson, Ford, to Ahmco, Inc. Rotatable table and seating apparatus. 2,877,827, 3-17-59, Cl. 155-123.
- Anderson, Frank F. Combination lawn bench and table. 2,882,957, 4-21-59, Cl. 155-43.
- Anderson, Frank J., to Monolith Portland Midwest Co. Rotary kiln construction. 2,895,725, 7-21-59, Cl. 263-33.
- Anderson, Frederick E., to E. I. du Pont de Nemours and Co. Apparatus for continuously tipping and flagging bristles. 2,911,761, 11-10-59, Cl. 51-80.
- Andersen, Fritz H. Collapsible wheel block. 2,903,094, 9-8-59, Cl. 188-32.
- Anderson, Frohman. Adjustable cam tracks. 2,870,652, 1-27-58, Cl. 74-568.
- Anderson, Frohman. Means for lubricating work in sheet forming machine operating on forming-by-drawing principle. 2,916,075, 12-8-59, Cl. 153-32.
- Anderson, Gene W., and W. Babcock, to The New York Air Brake Co. Seal assembly for centrifugal pumps. 2,900,919, 8-25-59, Cl. 103-111.
- Anderson, George O., to Acme Visible Records, Inc. Record filing devices. 2,903,808, 9-15-59, Cl. 40-158.
- Anderson, George R., M. J. Boho, and G. W. Fulmer, to Hagan Chemicals & Controls, Inc. Boiler feed water control systems. 2,904,017, 9-15-59, Cl. 122-451.
- Anderson, George S., to Westinghouse Air Brake Co. Fluid pressure brake apparatus with equalizing reservoir pressure build-back preventing means. 2,900,209, 8-18-59, Cl. 303-67.
- Anderson, Gerald L.: See—
- Campbell, Donald A., and Anderson. 2,885,224.
- Anderson, Gerald L., and J. V. Margason, to Eclipse Fuel Engineering Co. Emergency check valve construction for gas flow meters. 2,903,005, 9-8-59, Cl. 137-75.
- Anderson, Gerald R., D. W. Hayes, C. E. Kerr, and H. W. Newburn, to Food Machinery and Chemical Corp. Article distributing machine. 2,872,017, 2-3-59, Cl. 198-31.
- Anderson, Gordon C., and D. B. Hopkinson, to Saco-Lowell Shops. Roving frame lifting spindle. 2,898,729, 8-11-59, Cl. 57-95.
- Anderson, Gordon S., and W. J. Budzyna, to Draper Corp. Loom let-off. 2,914,093, 11-24-59, Cl. 139-110.
- Anderson, Greenwood & Co.: See—
- Greenwood, Marvin H., and Francis. 2,890,714.
- Greenwood, Marvin H., and Presnal. 2,888,025.
- Anderson, Harry R., S. Esposito, and J. A. Rossi; said Anderson assor. to said Esposito and said Rossi. Dough mix package. 2,870,022, 1-20-59, Cl. 99-172.
- Anderson, Henry A.: See—
- Hiser, Willard U. 2,906,546.
- Anderson, Henry W. Book type map structure. 2,889,638, 6-9-59, Cl. 35-42.
- Anderson, Henry W., H. Ratner, and G. E. Warren, deceased, (by E. R. Warren, executrix), to Shell Development Co. Process for solubilizing monovalent metal carbonates in oil. 2,915,465, 12-1-59, Cl. 252-33.4.
- Anderson, Herbert A., to Duro-Test Corp. Incandescent lamp. 2,886,735, 5-12-59, Cl. 313-274.
- Anderson, Herbert H.: See—
- Ford, Walter D., and Anderson. 2,890,173.
- Anderson, Herbert M., to Tidewater Oil Co. Diethanolamine recovery by steam stripping. 2,892,775, 6-30-59, Cl. 208-236.
- Anderson, Herbert M., F. C. Draemel, and D. J. Lyons, to Tidewater Oil Co. Diethanolamine reclamation. 2,914-469, 11-24-59, Cl. 208-236.
- Anderson, Herbert R., Jr., to Phillips Petroleum Co. Natural and synthetic rubber compositions containing boron nitride and method for producing same. 2,871,216, 1-27-59, Cl. 260-41.5.
- Anderson, Herman, to C. J. Frost. High speed lathe. 2,917,313, 12-15-59, Cl. 279-1.
- Anderson, Hugh V.: See—
- Moffett, Robert B., and Anderson. 2,880,214.
- Anderson, James A., Jr.: See—
- Heinrich, Raymond L., Anderson, and Peet. 2,916,366.
- Anderson, James A., Jr., J. A. Dinwiddie, M. A. Mosesman, and L. W. Vernon, to Esso Research and Engineering Co. Porous silica free gamma alumina base contacting agents and use thereof. 2,890,162, 6-9-59, Cl. 208-46.
- Anderson, James B. Glare reducing shield. 2,867,718, 1-6-59, Cl. 240-46.01.
- Anderson, Jesse W., and L. E. Evans, to The Dow Chemical Co. Exploration tool. 2,875,347, 2-24-59, Cl. 250-108.
- Anderson, John, G. F. Johnson, and N. W. Hall, to Shell Development Co. Reaction of halocyclopentadienes with acetylene. 2,900,419, 8-18-59, Cl. 260-648.
- Anderson, John, and D. S. Melstrom, to Shell Development Co. Process for the manufacture of epoxy resins. 2,901-462, 8-25-59, Cl. 260-47.
- Anderson, John E., to Minneapolis-Honeywell Regulator Co. Tank unit. 2,916,679, 12-8-59, Cl. 317-246.
- Anderson, John J., W. C. Harris, and T. S. Harrison, to S. C. Johnson & Son, Inc. Spray dispensing assembly. 2,887-273, 5-19-59, Cl. 239-337.
- Anderson, John L.: See—
- Anderson, Elizabeth D. and J. L. 2,889,834.
- Anderson, John L., and H. E. Winberg, to E. I. du Pont de Nemours & Co. Dialkylidene five-membered heterocyclic compounds and polymers thereof. 2,876,216, 3-3-59, Cl. 260-88.3.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Magnetic recording system for storing and reproducing television signals. 2,874,214, 2-17-59, Cl. 178-6.6.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Electrical circuits employing ferroelectric condensers. 2,876,435, 3-3-59, Cl. 340-173.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Electrical circuits employing ferroelectric capacitors. 2,876,436, 3-3-59, Cl. 340-173.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Ferroelectric storage array. 2,905,928, 9-22-59, Cl. 340-173.
- Anderson, John R., to Bell Telephone Laboratories, Inc. Ferroelectric storage circuit. 2,907,984, 10-6-59, Cl. 340-173.



- Anderson, John R., to Bell Telephone Laboratories, Inc. Storage matrix access circuits. 2,914,748, 11-24-59, Cl. 340-166.
- Anderson, John R., and J. P. Remeika, to Bell Telephone Laboratories, Inc. Barium titanate as a ferroelectric material. 2,893,107, 7-7-59, Cl. 29-25.35.
- Anderson, John R., and W. C. von Dohlen, to Union Carbide Corp. Refining of cyclic organic carbonates. 2,894,957, 7-14-59, Cl. 260-340.2.
- Anderson, John R., and D. W. Peck, to Union Carbide Corp. Indole recovery process. 2,916,496, 12-8-59, Cl. 260-319.
- Anderson, John W.: See—
- Fuller, Edwin O., and Anderson. 2,905,956.
- Kinsley, Lewis H., Jr., and Anderson. 2,914,901.
- Anderson, John W., to Minneapolis-Honeywell Regulator Co. Aircraft automatic condition control apparatus. 2,873,076, 2-10-59, Cl. 244-77.
- Anderson, John W. Windshield wiper blade and pressure device therefor. 2,897,530, 8-4-59, Cl. 15-245.
- Anderson, John W. Universal windshield wiper arm remover. 2,898,674, 8-11-59, Cl. 29-278.
- Anderson, John W. Motion-transmitting assembly. 2,901,764, 9-1-59, Cl. 15-253.
- Anderson, John W. Thrust bearing. 2,914,366, 11-24-59, Cl. 308-203.
- Anderson, John W. Connector for a windshield wiper arm unit. 2,916,760, 12-15-59, Cl. 15-250.
- Anderson, John W. Spike anchorage in shoe bottoms. 2,918,733, 12-29-59, Cl. 36-2.5.
- Anderson, Joseph B. and L. V. Chain return support for endless chain conveyors. 2,889,914, 6-9-59, Cl. 198-137.
- Anderson, Kenneth A., to American Machine and Metals, Inc. Separation apparatus. 2,902,160, 9-1-59, Cl. 210-388.
- Anderson, Kermit F., and L. O. Studer. Self-leveling ladder attachment. 2,894,670, 7-14-59, Cl. 228-63.
- Anderson, Lannes E., to Radio Corp. of America. Television optical system for hospital television. 2,911,518, 11-3-59, Cl. 240-1.3.
- Anderson, Lawrence H. Shaft coupling. 2,872,228, 2-3-59, Cl. 287-129.
- Anderson, Leo V.: See—
- Anderson, Joseph B. and L. V. 2,889,914.
- Anderson, Leon L. Inflatable wader garment. 2,869,152, 1-20-59, Cl. 9-20.
- Anderson, Leonard A. Cartridge case trimming device. 2,869,413, 1-20-59, Cl. 86-24.
- Anderson, Leroy E., and H. F. St. Marie, to Tri-State Heating, Inc. Heat conduit connecting collar. 2,880,017, 3-31-59, Cl. 285-18.
- Anderson, Lincoln D. Pneumatic tire belt. 2,886,378, 5-12-59, Cl. 305-10.
- Anderson, Lindson P., and K. Schultz, deceased (by M. F. Schultz, executrix), to Armour and Co. Method of cooking animal and vegetable materials. 2,870,028, 1-20-59, Cl. 99-216.
- Anderson, Lloyd D.: See—
- Jones, John L., Jr., and Anderson. 2,904,681.
- Anderson, Lloyd L., to Jervis Corp. Latch mechanism. 2,901,277, 8-25-59, Cl. 292-78.
- Anderson, Lloyd L., A. J. Van Noord, and E. B. Jacobson, to Jervis Corp. Safety belt buckle. 2,888,724, 6-2-59, Cl. 24-77.
- Anderson Machine & Tool Works, Inc.: See—
- Anderson, Albin M. 2,907,156.
- Anderson, Malcolm, and H. King. Spreading dispensers. 2,888,695, 6-2-59, Cl. 15-135.
- Anderson, Martin E.: See—
- Strickland, Jerome R., and Anderson. 2,907,432.
- Anderson, Martin E. Selective drive differential gear and operating mechanism therefor. 2,913,929, 11-24-59, Cl. 74-710.5.
- Anderson, Martin T. Timing indicator for outboard motors. 2,910,958, 11-3-59, Cl. 116-124.
- Anderson, Maurice K. Athletic eye guards. 2,914,769, 12-1-59, Cl. 2-9.
- Anderson, Norman G., to Owens-Illinois Glass Co. Centrifuge tube and method of centrifuging. 2,878,994, 3-24-59, Cl. 233-26.
- Anderson, Norman L., to Allied Chemical Corp. Bis-aryltriazole optical bleaches. 2,867,617, 1-6-59, Cl. 260-240.
- Anderson, Norman L., to Allied Chemical & Dye Corp. Bis-aryltriazole compounds. 2,867,624, 1-6-59, Cl. 260-308.
- Anderson, Norman L., to Allied Chemical Corp. Water-insoluble disazo compounds. 2,879,266, 3-24-59, Cl. 260-152.
- Anderson, Olof V., to Anson, Inc. Key ring. 2,877,640, 3-17-59, Cl. 70-459.
- Anderson, Olof V. Clasp. 2,908,953, 10-20-59, Cl. 24-49.
- Anderson, Orin M., and W. A. Ferrari, to Pak-Mor Mfg. Co. Refuse handling vehicle. 2,868,398, 1-13-59, Cl. 214-82.
- Anderson, Orson L., to Bell Telephone Laboratories, Inc. Apparatus for applying isotropic pressure at elevated temperature to work pieces. 2,888,316, 5-26-59, Cl. 18-47.
- Anderson, Oscar. Combination bait holder, lure and fish hook. 2,878,613, 3-24-59, Cl. 43-44.2.
- Anderson, Oscar A., to United States of America, Atomic Energy Commission. Particle beam tracking circuit. 2,885,552, 5-5-59, Cl. 250-27.
- Anderson, Oscar D., Jr. Device for removing jar screw caps. 2,897,699, 8-4-59, Cl. 81-3.32.
- Anderson, Otis F., 40% to C. E. Sawyer. Motor driven back massaging machine. 2,909,173, 10-20-59, Cl. 128-33.
- Anderson, Paul E., to Western Electric Co., Inc. Fluid pressure sensitive control devices. 2,885,506, 5-5-59, Cl. 200-81.
- Anderson, Paul E., and C. R. Fischrupp, to Western Electric Co., Inc. Apparatus for cleaning relays. 2,872,693, 2-10-59, Cl. 15-21.
- Anderson, Paul Z.: See—
- Beemer, Paul K., Anderson, and Burney. 2,903,864.
- Anderson, Philip G. Washing device. 2,875,461, 3-3-59, Cl. 15-118.
- Anderson, Ralph A., to Panellit, Inc. Automatic process logging system. 2,883,255, 4-21-59, Cl. 346-34.
- Anderson, Ralph A., to Information Systems, Inc. Data recording system. 2,905,520, 9-22-59, Cl. 346-34.
- Anderson, Ralph F.: See—
- Anderson, Swan F. and R. F. 2,877,121.
- Anderson, Swan F. and R. F. 2,915,865.
- Anderson, Ralph F., to National Lock Co. Cabinet hinge. 2,885,724, 5-12-59, Cl. 16-172.
- Anderson, Ralph F., to United States of America, Agriculture. Method for the production of carotenes. 2,890,989, 6-16-59, Cl. 195-78.
- Anderson, Ralph F. Dispensing valve. 2,893,605, 7-7-59, Cl. 222-145.
- Anderson, Ralph T.: See—
- Anderson, Swan F., and Strombeck. 2,918,769.
- Anderson, Raymond J., to The Dow Chemical Co. Preparation of magnesium fluoride. 2,877,095, 3-10-59, Cl. 23-88.
- Anderson, Raymond J., to The Dow Chemical Co. Method of treating open hearth steel. 2,907,652, 10-6-59, Cl. 75-53.
- Anderson, Richard E., to General Electric Co. Multiple pointer instrument. 2,882,855, 4-21-59, Cl. 116-129.
- Anderson, Richard H., to The Robinson Clay Products Co. Resilient toroidal push-type pipe joint. Re. 24,651, 5-19-59, Cl. 285-345.
- Anderson, Richard L., to International Business Machines Corp. Crystal diode with improved recovery time. 2,894,152, 7-7-59, Cl. 307-88.5.
- Anderson, Richard P.: See—
- Lit, Harry B., and Anderson. 2,868,159.
- Lit, Harry B., and Anderson. 2,875,725.
- Anderson, Robert A. Safety lock for refrigerators and the like. 2,904,986, 9-22-59, Cl. 70-78.
- Anderson, Robert B. Grinders. 2,903,193, 9-8-59, Cl. 241-74.
- Anderson, Robert C., to Imperial Chemical Industries Ltd. Production of alkyl halosilanes by reacting silica with alkyl aluminum halides. 2,914,549, 11-24-59, Cl. 260-448.2.
- Anderson, Robert E.: See—
- Runyan, Walter R., and Anderson. 2,878,152.
- Anderson, Robert H., to Radio Corp. of America. Electron multiplier. 2,868,994, 1-13-59, Cl. 250-207.
- Anderson, Robert H., to Radio Corp. of America. Photo-emissive device. 2,908,840, 10-13-59, Cl. 313-94.
- Anderson, Robert J., to United States of America, Air Force. Vent line centrifuge. 2,868,324, 1-13-59, Cl. 183-77.
- Anderson, Robert J., and J. T. Hamrick, to Thompson Ramo Wooldridge Inc. Self-cooled turbine drive. 2,893,204, 7-7-59, Cl. 60-39.18.
- Anderson, Robert M., to General Electric Co. Device for determining primer bead size in flash lamps. 2,904,746, 9-15-59, Cl. 324-20.
- Anderson, Robert T. Holder for eyeglasses. 2,879,967, 3-31-59, Cl. 248-316.
- Anderson, Rodney R., and H. O. Hodson. Transformer mounting apparatus. 2,879,964, 3-31-59, Cl. 248-221.
- Anderson, Roy A. Two-way ear syringe. 2,879,768, 3-31-59, Cl. 128-248.
- Anderson, Roy D., to Ramsey Corp. Coated piston ring. 2,905,512, 9-22-59, Cl. 309-44.
- Anderson, Roy E.: See—
- Russell, Billy N., and Anderson. 2,906,342.
- Anderson, Russell E.: See—
- Bradfield, William W., and Anderson. 2,871,677.
- Anderson, Sidney E., to Deere & Co. Corn harvesting mechanism. 2,870,593, 1-27-59, Cl. 56-104.
- Anderson, Stanley A.: See—
- Robinson, James M., and Anderson. 2,877,077.
- Anderson, Stanley F., and J. F. Gaskin, to Artloom Carpet Co., Inc. Automatic aligning trimming device for pile fabrics of various widths. 2,910,122, 10-27-59, Cl. 164-61.
- Anderson, Swan F. and R. F. Method of forming frozen confection packages. 2,877,121, 3-10-59, Cl. 99-180.
- Anderson, Swan F. and R. F. Bar forming and wrapping machine. 2,915,865, 12-8-59, Cl. 53-122.
- Anderson, Swan F., and L. Strombeck,  $\frac{1}{2}$  to said S. F. Anderson, and  $\frac{1}{2}$  to R. T. Anderson. Wrapping machine. 2,918,769, 12-29-59, Cl. 53-178.
- Anderson, Tengel, to Overhead Loader Corp. Overhead loader. 2,879,908, 3-31-59, Cl. 214-131.
- Anderson, Theodore R., Sr. Applying and spreading implement for mastic cementitious material. 2,882,716, 4-21-59, Cl. 72-130.
- Anderson, Thomas J.: See—
- Wright, Robert M., and Anderson. 2,903,282.
- Anderson, Trevor J.: See—
- Parriss, Walter H., and Anderson. 2,909,452.
- Anderson, Victor E., to Clear Fir Products Co. Inc. High speed toggle driver pivoted veneer clipper. 2,890,749, 6-16-59, Cl. 164-43.
- Anderson, Vincent R.: See—
- Parsons, Willard J., and Anderson. 2,880,857.



- Anderson, W. E., Inc.: *See*—  
 Hatfield, Robert L., and Webster. 2,887,546.  
 Webster, Raymond C. 2,882,494.  
 Webster, Raymond C. 2,887,625.
- Anderson, Walter J., to Chicago Musical Instrument Co. Electrical musical instrument. Re. 24,743, 12-1-59, Cl. 84-1-24.
- Anderson, Walter W. Drafting pens. 2,886,003, 5-12-59, Cl. 120-42.6.
- Anderson, Warren D., to Norma-Hoffmann Bearings Corp. Retainer for anti-friction bearings. 2,883,245, 4-21-59, Cl. 308-217.
- Anderson, Wilbur G., Jr., to American Box Board Co. Handle receptacle. 2,868,433, 1-13-59, Cl. 229-52.
- Anderson, Wilford: *See*—  
 Anderson, Alfred H. and W. 2,872,269.
- Anderson, William G. Boat anchor control. 2,893,341, 7-7-59, Cl. 114-210.
- Anderson, William G., and T. R. Willis, to Collins Radio Co. Automatic flight control system. 2,875,965, 3-3-59, Cl. 244-77.
- Anderson, William J., III. Instrument tray. 2,903,129, 9-8-59, Cl. 206-72.
- Anderson, William R. Section liner triangle. 2,910,776, 11-3-59, Cl. 33-110.
- Anderson, William R., to Madison Silo Co. Discharge systems for silos and similar structures. 2,911,116, 11-3-59, Cl. 214-17.
- Anderson, William R., and N. G. Dodson, to Blue Spark, Inc. Insect electrocution apparatus construction. 2,917,863, 12-22-59, Cl. 43-112.
- Anderson, William T., Jr., to Engelhard Industries, Inc. Gaseous electric discharge lamp. 2,896,107, 7-21-59, Cl. 313-184.
- Anderson, Wilmer C., to The Liquidometer Corp. Liquid quantity measuring system and capacitor for use therein. 2,910,869, 11-3-59, Cl. 73-304.
- Anderson, Wilton W.: *See*—  
 Carlson, Roy H., and Anderson. 2,912,709.
- Anderson, Wood P.: *See*—  
 Leaper, Joseph M. E., Bishop, and Anderson. 2,904,422.
- Andersson, Arthur H.: *See*—  
 Bergenheim, Karl T., Andersson, and Bergenheim. 2,867,433.
- Andersson, Carl-Axel, to Trafik- & Vagmarken Aktiebolag. Parking meters. 2,915,163, 12-1-59, Cl. 194-54.
- Andersson, Hans A. Method in manufacturing wooden objects consisting of a plurality of jointed members. 2,878,844, 3-24-59, Cl. 144-309.
- Andersson, Holger, and L. O. Ubrus, to Aktiebolaget Svenska Kullagerfabriken. Charging apparatus for shaft furnaces. 2,904,195, 9-15-59, Cl. 214-18.
- Andersson, Karl-A. Collapsible trestle work benches. 2,905,263, 9-22-59, Cl. 182-154.
- Andersson, Karl G.: *See*—  
 Jonsson, Gösta L., and Andersson. 2,895,592.
- Andersson, Karl O. B., to Vibro-Plus Corp. Chain drive for vibrating planing rollers. 2,873,656, 2-17-59, Cl. 94-50.
- Andersson, Nils. Method and apparatus for extrusion coating and product. 2,894,853, 7-14-59, Cl. 117-11.
- Andersson, Per E. D., to B. O. Kaller. Holders for a roll of paper. 2,872,263, 2-3-59, Cl. 312-39.
- Andersson, Sten A.: *See*—  
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- Andersson, Ture E., to Vibro-Plus Corp. Roller vibrator. 2,868,094, 1-13-59, Cl. 94-48.
- Anderton, Gale W.: *See*—  
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- Anderton, Henry: *See*—  
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- Anderton, William J. Shaft seal with relatively rotatable radially containing sealing surfaces. 2,871,041, 1-27-59, Cl. 286-11.15.
- Andis Clipper Co.: *See*—  
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 Andis, Matthew G. 2,869,234.  
 Andis, Matthew G. 2,875,519.
- Andis, Mathew, to Andis Clipper Co. Hair clippers having interchangeable comb plates. 2,874,463, 2-24-59, Cl. 30-200.
- Andis, Mathew, to Andis Clipper Co. Hair clippers having interchangeable comb plates. 2,892,255, 6-30-59, Cl. 30-200.
- Andis, Matthew G., to Andis Clipper Co. Hair clipper having a shiftable shear plate. 2,869,234, 1-20-59, Cl. 30-201.
- Andis, Matthew G., to Andis Clipper Co. Hair clipper having shear blade with teeth of uniform width except two marginal teeth of increased width encompassing amplitude of reciprocal blade vibration. 2,875,519, 3-3-59, Cl. 30-210.
- Andover Laboratories, a subsidiary of Walbuck Crayon Co.: *See*—  
 Gieschi, Thomas L. 2,876,161.
- Andre, Frank V. Building wall structure. 2,875,478, 3-3-59, Cl. 20-4.
- André, Henri G., to Yardney International Corp. Separator for electric batteries. 2,890,261, 6-9-59, Cl. 136-9.
- André, Henri G., to Yardney International Corp. Electric battery. 2,906,802, 9-29-59, Cl. 136-6.
- Andre, Henri G., to Yardney International Corp. Charger-control apparatus for electric batteries. 2,916,686, 12-8-59, Cl. 320-46.
- Andre-Matic Machinery Co.: *See*—  
 Andre, Noble. 2,867,320.  
 Andre, Noble. 2,911,096.
- Andre, Noble, to Andre-Matic Machinery Co. Carrier for cans. 2,867,320, 1-6-59, Cl. 206-65.
- Andre, Noble, to Andre-Matic Machinery Co. Carton and locking means therefor. 2,911,096, 11-3-59, Cl. 206-65.
- Andre Rubber Co. Ltd.: *See*—  
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- Andreas, Arno, to Firma Hazemag Hartzerkleinerungs- und Zement-Maschinenbau Gesellschaft m.B.H. Slinging impact breakers. 2,889,119, 6-2-59, Cl. 241-189.
- Andreas, Ehrhardt O. W. F., to Firma Hazemas Hartzerkleinerungs- und Zement-Maschinenbau-Gesellschaft m.B.H. Disintegrating asbestos ores. 2,891,734, 6-23-59, Cl. 241-289.
- Andreasen, Christian B., to Air-Shields, Inc. Lung ventilators and timing devices therefor. 2,880,719, 4-7-59, Cl. 128-29.
- Andreasen, Christian B., to Air-Shields, Inc. Control apparatus for lung ventilators. 2,904,035, 9-15-59, Cl. 128-29.
- Andreasen, Norman H., to Clipper Industries, Inc. Clamping units. 2,915,799, 12-8-59, Cl. 24-270.
- Andreasson, Rudolf W. Drills. 2,882,765, 4-21-59, Cl. 77-68.
- Andreasson, Rudolf W. Drill. 2,903,921, 9-15-59, Cl. 77-68.
- Andreasson, Rudolf W. Single-double spiral drill. 2,912,887, 11-17-59, Cl. 77-68.
- Andreasson, Rudolf W. Work driver for machine tools. 2,912,893, 11-17-59, Cl. 82-40.
- Andreini, Geno J., to United Aircraft Corp. Preloaded roller bearings. 2,916,336, 12-8-59, Cl. 308-207.
- Andren, Karl H., to Artos Engineering Co. Insulated wire stripper. 2,871,740, 2-3-59, Cl. 81-9.51.
- Andren, Karl H., to Artos Engineering Co. Wire cutting and terminal attaching machine. 2,908,910, 10-20-59, Cl. 1-165.
- Andreotti, Eugene R., and J. Mikitka, to The American Hardware Corp. Powdered metal armature. 2,913,819, 11-24-59, Cl. 29-420.5.
- Andres, Karlheinz, to Ruhrchemie Aktiengesellschaft. Production of nitriles. 2,915,548, 12-1-59, Cl. 260-465.3.
- Andres, Lloyd J., to Apco, Inc. Hot beverage machine. 2,883,922, 4-28-59, Cl. 99-283.
- Andres, Roy K., to Radio Corp. of America. Automatic switching circuit. 2,899,497, 8-11-59, Cl. 178-17.
- Andres, Roy K., to Radio Corp. of America. Automatic switching circuit. 2,912,483, 11-10-59, Cl. 178-2.
- Andresen, Arne O., and F. A. Reinhart. Descaling apparatus for forging ingots. 2,867,893, 1-13-59, Cl. 29-81.
- Andresen, Karl: *See*—  
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- Andresen, William F., Jr., and R. Schemp, to Food Machinery and Chemical Corp. Automatic box wrapping system. 2,867,158, 1-6-59, Cl. 93-54.
- Andress, Harry J., Jr., to Socony Mobil Oil Co., Inc. Fuel oil compositions containing formalimine salts. 2,867,515, 1-6-59, Cl. 44-63.
- Andrew, Lillian W. Flower arrangement carrier. 2,889,920, 6-9-59, Cl. 206-45.34.
- Andrew Corp.: *See*—  
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- Andrew, Eugene A.: *See*—  
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- Andrew, Frederick L.: *See*—  
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- Andrew, Margaret J., to General Motors Corp. Dish rack for domestic appliance. 2,910,207, 10-27-59, Cl. 220-19.
- Andrew, Thomas A. Well jarring tool. 2,882,018, 4-14-59, Cl. 255-27.
- Andrew, Thomas A. Hydraulic vibratory jar. 2,894,724, 7-14-59, Cl. 255-27.
- Andrews, Allen R., and A. E. Winslow, to Standard Screw Co. Twisting means for textile machines. 2,883,824, 4-28-59, Cl. 57-77.45.
- Andrews, Allen R., and A. E. Winslow, to Standard Screw Co. False twist spindle for textile machines. 2,914,905, 12-1-59, Cl. 57-77.45.
- Andrews, Alvin J.: *See*—  
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- Andrews, Anatol N. Automatic transmission alarm. 2,883,460, 4-21-59, Cl. 179-5.
- Andrews, Dallas R., to Radio Corp. of America. Magnetic record transducer. 2,885,488, 5-5-59, Cl. 179-100.2.
- Andrews, Dallas R., and E. A. Bird, to Radio Corp. of America. Web reeling system. 2,908,405, 10-13-59, Cl. 271-2.1.
- Andrews, Earl W., to The New Jersey Zinc Co. Production of titanium metals. 2,892,764, 6-30-59, Cl. 204-64.
- Andrews, Earl W., to The New Jersey Zinc Co. Production of titanium. 2,898,275, 8-4-59, Cl. 204-64.



- Andrews, Earl W., to The New Jersey Zinc Co. Electrolyzing device. 2,900,318, 8-18-59, Cl. 204-246.
- Andrews, Edward F., to General Motors Corp. Signal seeking tuner with manually wound driving spring. 2,902,599, 9-1-59, Cl. 250-20.
- Andrews, Edward F., to General Motors Corp. Control circuit for signal seeking tuner. 2,904,676, 9-15-59, Cl. 250-20.
- Andrews, Eliot R.: *See—*  
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- Andrews, Ernest E. Terminal air brake time testing device. 2,896,443, 7-28-59, Cl. 73-39.
- Andrews, Franklin T., and N. E. Huston. Emergency road sentinel. 2,869,504, 1-20-59, Cl. 116-63.
- Andrews, Howard S., to Esso Research and Engineering Co. Self-cleaning valve. 2,881,783, 4-14-59, Cl. 137-244.
- Andrews, Jack M., H. G. Corneil, N. P. Peet, and W. K. Roquemore, to Esso Research and Engineering Co. Cracking of hydrocarbons. 2,881,129, 4-7-59, Cl. 208-120.
- Andrews, John H. Continuous recording low velocity flow meter and direction indicator. 2,913,900, 11-24-59, Cl. 73-189.
- Andrews, John L., to General Electric Co. Electric heating units and methods of making the same. 2,899,664, 8-11-59, Cl. 338-240.
- Andrews, John Q. Weed extracting device. 2,885,240, 5-5-59, Cl. 294-50.8.
- Andrews, Joseph A., and C. D. Morley, to American Steel Foundries. Draft gear. 2,906,415, 9-29-59, Cl. 213-24.
- Andrews, Kenneth D., to United Aircraft Corp. Lubricating means. 2,878,894, 3-24-59, Cl. 184-6.
- Andrews, Kenneth E., and J. E. Davis, to Lockheed Aircraft Corp. Flush key electrical switch. 2,878,346, 3-17-59, Cl. 200-167.
- Andrews, Laurence M.: *See—*  
Rabinow, Jacob, and Andrews. 2,915,604.
- Andrews, Lewis D., to Stackpole Carbon Co. Electric switch formed from magnets. 2,896,043, 7-21-59, Cl. 200-87.
- Andrews, Netty B. Towel holder. 2,902,244, 9-1-59, Cl. 248-309.
- Andrews, Richard C., Jr.: *See—*  
King, Earle C., and Andrews. 2,880,065.
- Andrews, Robert J. M.: *See—*  
Clarke, George W. 2,914,599.
- Clarke, George W., Weston, and Andrews. 2,894,055.
- Andrews, Roland E., to United States of America, Atomic Energy Commission. Calutron assembling and disassembling apparatus. 2,871,361, 1-27-59, Cl. 250-41.9.
- Andrews, Roland E., to United States of America, Atomic Energy Commission. Calutron assembling and disassembling apparatus. 2,871,363, 1-27-59, Cl. 250-41.9.
- Andrews, Roland E., and J. Thornton, to United States of America, Atomic Energy Commission. Calutron assembling and disassembling means. 2,871,362, 1-27-59, Cl. 250-41.9.
- Andrews, Roy: *See—*  
Jordan, Richard H., and Andrews. 2,877,797.
- Andrews, Rufus A., to Vickers, Inc. Plunger type solenoid. 2,899,609, 8-11-59, Cl. 317-191.
- Andrews, Stanley W. C.: *See—*  
Dwyer, James H., and Andrews. 2,891,315.
- Andrews, Steve, to United States Steel Corp. Vacuum bailing boat particularly for baths of molten metal. 2,901,006, 8-25-59, Cl. 141-28.
- Andrews, Steve, A. B. Larason, and F. C. Spraitzar. End stop and release for conveyor screw. 2,882,546, 4-21-59, Cl. 15-304.
- Andrews, Victor M., and G. M. Berkin, to International Business Machines Corp. Automatic programming device. 2,910,164, 10-27-59, Cl. 197-133.
- Andrie, Boris. Tool for reforming deformed fastener parts. 2,876,666, 3-10-59, Cl. 81-15.
- Andrieux, Jean L., and E. Bonnier. Process of simultaneously producing calcium metal and silicon-aluminum alloy. 2,867,527, 1-6-59, Cl. 75-67.
- Andriot, George W., and W. J. Riester, to Peerless Mfg. Division, Dover Corp. Fire screen support. 2,888,226, 5-26-59, Cl. 248-251.
- Andromeda, Inc.: *See—*  
Lesti, Arnold. 2,885,594.
- Andrus, Budd W. Safety guards for cranes and the like. 2,892,549, 6-30-59, Cl. 212-1.
- Andrus, Orrin E., to A. O. Smith Corp. Method and apparatus for bonding laminated structures. 2,912,551, 11-10-59, Cl. 219-9.5.
- Andrus, Paul G., to Haloid Xerox Inc. Xerographic cleaner. 2,874,064, 2-17-59, Cl. 117-17.5.
- Andrus, Paul G., and L. E. Walkup, to Haloid Xerox Inc. Micromanifold for powder cloud development. 2,873,721, 2-17-59, Cl. 118-637.
- Andrychuk, Dmetro, to Diamond Alkali Co. Method for the analysis of liquid chlorine. 2,917,629, 12-15-59, Cl. 250-43.5.
- Andrzejewski, Matthew S., to American Steel Foundries. Rotor brake. 2,890,768, 6-16-59, Cl. 188-59.
- Andrzejewski, Matthew S., and W. R. Polanin, to American Steel Foundries. Single shoe brake arrangement for six wheel trucks. 2,911,069, 11-3-59, Cl. 188-46.
- Andy Brothers Tire Shop: *See—*  
Di Pietro, Henry. 2,873,479.
- Anemostat Corp. of America: *See—*  
Honerkamp, Friedrich, Kurth, and Barlow. 2,884,005.
- Anetsberger Brothers, Inc.: *See—*  
Anetsberger, Frank A., and R. J. 2,907,659.
- Anetsberger, Joseph F. 2,907,285.
- Anetsberger, Frank A. and R. J., to Anetsberger Brothers, Inc. French frying potatoes and improved apparatus therefor. 2,907,659, 10-6-59, Cl. 99-100.
- Anetsberger, Joseph F., to Anetsberger Brothers, Inc. Dough roller equipment. 2,907,285, 10-6-59, Cl. 107-9.
- Anetsberger, Richard J.: *See—*  
Anetsberger, Frank A. and R. J. 2,907,659.
- Ang, Choh-Yi, to P. R. Mallory & Co., Inc. High-strength high-density tungsten base alloys. Re. 24,674, 7-28-59, Cl. 29-182.
- Angarita, Quimet B.: *See—*  
De Brigard, Juan P., and Angarita. 2,902,745.
- Angel, Arthur M., and R. G. Fisher, to The National Cash Register Co. Tape stopping mechanism. 2,877,012, 3-10-59, Cl. 271-2.3.
- Angel, Arthur M., and H. Mangan, to The National Cash Register Co. Punched tape reader. 2,916,624, 12-8-59, Cl. 250-219.
- Angelaccio, Americo, J. Percella, and J. Petrullo. Hair curler. 2,903,000, 9-8-59, Cl. 132-34.
- Angelastro, Salvatore P.: *See—*  
Kamen, Ira, and Angelastro. 2,895,129.
- Angelica Uniform Co.: *See—*  
Coates, Elmer T. 2,882,846.
- Angelico, Argie C. Protective device for clothesline pulley. 2,889,053, 6-2-59, Cl. 211-119.02.
- Angelini, Roger M., and G. J. Piermarini, 33 1/3% to A. Di Russo. Combs. 2,883,994, 4-28-59, Cl. 132-138.
- Angell, Charles H.: *See—*  
Noble, Carl M., and Angell. 2,896,854.
- Angell, Frank J. Artist's paint tube rack. 2,867,928, 1-13-59, Cl. 41-4.
- Angell, Pierce T., and R. Cliborn, to Thompson Ramo Wooldridge Inc. Turbine driven pump. 2,910,005, 10-27-59, Cl. 103-87.
- Angeloff, Frank J. Pencil-point sharpener. 2,895,452, 7-21-59, Cl. 120-91.
- Angelstone Ltd.: *See—*  
Ratcliffe, Edward B. 2,867,887.
- Angelus Sanitary Can Machine Co.: *See—*  
Peterson, William B., Jr. 2,877,729.
- Peterson, William B., Jr. 2,907,293.
- Angenieux, Pierre. Mechanism for variable focal length objective. 2,873,646, 2-17-59, Cl. 88-57.
- Anger, Ernest G.: *See—*  
Gould, Charles C., and Anger. 2,911,580.
- Anger, Ernest G., to Square D Co. Motor control system. 2,881,374, 4-7-59, Cl. 318-6.
- Anger, Ernest G., to Square D Co. Motor control circuits. 2,902,634, 9-1-59, Cl. 318-251.
- Anger, Ernest G., and D. L. Pettit, to Square D Co. Motor control system. 2,885,616, 5-5-59, Cl. 318-85.
- Anger, Ernest G., and R. C. Montross, to Square D Co. Electric motor controllers. 2,899,620, 8-11-59, Cl. 318-331.
- Anger, Rudolf, to Sprimag Spritzmaschinenbau G.m.b.H. Device for the feeding of tubes to and for the removal of tubes from a tube-varnishing-machine. 2,914,162, 11-24-59, Cl. 198-33.
- Angerby, Erik A.: *See—*  
Vigren, Sten D., Angerby, Broberg, and Zander. 2,911,508.
- Angledrill Corp.: *See—*  
Holmes, Charles D. and H. H. 2,896,913.
- Anglo-American Extrusion Co.: *See—*  
Rowles, Reginald V., and Gowing. 2,896,581.
- Anglo Paper Products, Ltd.: *See—*  
Logan, Kenneth C., and Mardon. 2,892,499.
- Angold, Edward B., to The Plessey Co. Ltd. Electro-magnetic relay. 2,902,565, 9-1-59, Cl. 200-104.
- Angst, Paul, and W. Rabald. Razor having an elastic reciprocating cutting means to cut long and short hair. 2,870,534, 1-27-59, Cl. 30-34.
- Angstreich, Herman C.: *See—*  
Grotsky, Arthur. 2,875,008.
- Angus, George, & Co.: *See—*  
Moore, William A. 2,889,739.
- Thompson, Ezra C., and Jagger. 2,885,740.
- Angus, Harvey L. Combine attachment. 2,887,226, 5-19-59, Cl. 209-139.
- Anheuser-Busch, Inc.: *See—*  
Herrmann, Bernard L., and Reifeiss. 2,882,696.
- Pollock, Glenn E., Jr., Jett, Gerwitz, and Scallet. 2,913-359.
- Schwaiger, Frank H., Gadsby, and J. Schwaiger. 2,916,421.
- Sowell, Ernest A., Curtin, Hall, and Scallet. 2,987,086.
- Anicetti, Robert J., to United States of America, Atomic Energy Commission. Process of producing shaped plutonium. 2,899,298, 8-11-59, Cl. 75-84.1.
- Anigstein, Dorothy M.: *See—*  
Anigstein, Ludwik, Whitney, and Micks. 2,912,359.
- Anigstein, Ludwik, D. M. Whitney, and D. W. Micks; said D. M. Whitney, now by change of name D. M. Anigstein, assor. of 15% to Developments Inc., and 35% to the Board of Regents of The University of Texas. Wound healing agent obtained from blood and method of preparation. 2,912,359, 11-10-59, Cl. 167-74.
- Animal Trap Co. of America: *See—*  
Koch, Melvin B. 2,900,773.



- Aninga, Johannes B., and J. Tenger, to North American Phillips Co., Inc. Transport device for elongated objects. 2,876,889, 3-10-59, Cl. 198-41.
- Aniser, Charles F. Salt block. 2,908,250, 10-13-59, Cl. 119-51.
- Anjeskey, Alphonse F., to The Cleveland Crane & Engineering Co. Trolley bar conductor support. 2,881,271, 4-7-59, Cl. 191-23.
- Anke, John R., to Allis-Chalmers Mfg. Co. Frangible article shipping assembly. 2,900,157, 8-13-59, Cl. 248-119.
- Anke, Rudolph, to Textile Machine Work. Yarn carrier rod driving mechanism for knitting machines. 2,907,194, 10-6-59, Cl. 66-126.
- Anker-Werke Aktiengesellschaft: *See*—  
Lauschke, Hans-Ulrich. 2,902,215.  
Sobisch, Johannes. 2,886,107.  
Sobisch, Johannes, and Krüger. 2,915,962.
- Ankh Laboratories, Inc.: *See*—  
Salisbury, Alvin B., Jr. 2,871,168.  
Salisbury, Alvin B., Jr. 2,872,924.
- Ann, Alberta J. Keyed collet. 2,896,956, 7-28-59, Cl. 279-46.
- Annable, Weldon G.: *See*—  
Haines, Robert M., Walsh, and Annable. 2,882,232.  
Jacobs, William L., and Annable. 2,897,142.
- Annable, Weldon G., and W. L. Jacobs, to The Pure Oil Co. Contacting apparatus. 2,868,524, 1-13-59, Cl. 261-111.
- Annable, Weldon G., and R. M. Haines, to The Pure Oil Co. Motor fuel. 2,868,629, 1-13-59, Cl. 44-66.
- Annable, Weldon G., W. L. Jacobs, and R. M. Haines, to The Pure Oil Co. Motor fuel. 2,875,145, 2-24-59, Cl. 208-17.
- Annable, Weldon G., and R. M. Haines, to The Pure Oil Co. Gasoline motor fuel. 2,890,947, 6-16-59, Cl. 44-69.
- Annable, Weldon G., and W. L. Jacobs, to The Pure Oil Co. Hydro-refining method for lubricating oils and wax using nickel molybdate or silver molybdate on alumina. 2,915,448, 12-1-59, Cl. 208-27.
- Anner, Georg: *See*—  
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,904,545.  
Wettstein, Albert, and Anner. 2,917,510.  
Wettstein, Albert, Anner, and Schmidlin. 2,883,378.
- Anness, Russell W., to Diamond Gardner Corp. Blank gluing apparatus. 2,875,726, 3-3-59, Cl. 118-212.
- Anness, Russell W., to Diamond Gardner Corp. Container packaging device. 2,900,776, 8-25-59, Cl. 53-191.
- Annis, Andrew J. Power plant. 2,871,438, 1-27-59, Cl. 322-13.
- Annis, Rupert E., Jr., to Improved Machinery, Inc. Bark-removing tools mounted on revolving self-opening arms. 2,880,771, 4-7-59, Cl. 144-208.
- Annis, Rupert E., Jr., to Improved Machinery, Inc. Log-centering barker feeding mechanism. 2,897,859, 8-4-59, Cl. 144-247.
- Anocut Engineering Co.: *See*—  
Williams, Lynn A. 2,899,781.
- Anrep, René J. Automatic machine for washing, filling and sealing ampoules or similar receptacles. 2,877,611, 3-17-59, Cl. 53-86.
- Anrig, Robert M. Spool trailer. 2,867,390, 1-6-59, Cl. 242-86.5.
- Ansel, Gerhard, and C. J. Huffman, to The Dow Chemical Co. Mandrel and die. 2,872,037, 2-3-59, Cl. 207-19.
- Anselman, George W., and G. A. Babcock, to Whirl-Air-Flow Corp. Air flow conveying system. Re. 24,716, 10-6-59, Cl. 302-24.
- Ansingh, Carl H., to P. L. Robertson Mfg. Co. Ltd. Screw socket of pyramidal cross section terminating in a conical bottom wall. 2,914,984, 12-1-59, Cl. 85-45.
- Anson, Inc.: *See*—  
Anderson, Olof V. 2,877,640.
- Anson, Mortimer L., and M. Pader, to Lever Brothers Co. Method for preparing a meat-like product. 2,879,163, 3-24-59, Cl. 99-14.
- Anspach, Charles F.: *See*—  
Kirk, Howard B., and Anspach. 2,876,806.
- Anspach, Harry D., to General Aniline & Film Corp. Process for inhibiting the polymerization of  $\alpha$ -chloroacrylate esters and the resultant compositions. 2,882,207, 4-14-59, Cl. 202-57.
- Anspach, Harry D., to General Aniline & Film Corp. Process for inhibiting the polymerization of  $\alpha$ -chloroacrylate esters and the resultant compositions. 2,886,494, 5-12-59, Cl. 202-57.
- Anspach, Harry D., and Frank E. Pschorr, to General Aniline & Film Corp. Process for preparation of methyl-alpha-chloroacrylate polymer. 2,913,441, 11-17-59, Cl. 260-89.5.
- Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen Energa: *See*—  
Brandt, Edgar W. 2,910,000.
- Anstalt für Montage-Technik: *See*—  
Hulti, Martin. 2,895,135.
- Anstalt Merces: *See*—  
Arni, Johann R. 2,874,018.
- Anstett, Edgar P. Driven type fastener. 2,867,807, 1-13-59, Cl. 1-56.
- Anstett, Edgar P. Sheet metal nail tapered opposite the drawn penetrating end. 2,868,057, 1-13-59, Cl. 85-30.
- Anstett, Edgar P., to No-Sag Spring Co. Spring mounting clip. 2,877,471, 3-17-59, Cl. 5-259.
- Anstine, Roland W. Filling indicator for underground tanks. 2,897,853, 8-4-59, Cl. 141-95.
- Antalek, John J., and R. W. Saville, to Radio Industries, Inc. Variable inductance device. 2,914,276, 11-24-59, Cl. 248-27.
- Antar Petroles de l'Atlantique: *See*—  
Reymoneng, Gaston, and Ouvrard. 2,869,113.
- Antaramian, Vaughn H. Mobile vehicle carrier. 2,918,326, 12-22-59, Cl. 296-1.
- Antell, Joseph C., to Prime Mfg. Co. Rib applying machine. 2,875,455, 3-3-59, Cl. 12-20.
- Antenna Designs, Inc.: *See*—  
Weiss, Robert S., and Wells. 2,888,678.
- Antenna Specialists Co., The: *See*—  
Friedberg, Milton R., and Stewart. 2,899,485.  
Stewart, Jack L. 2,872,680.  
Stewart, Jack L., Friedberg, and Finke. 2,870,243.
- Antennavision Mfg. & Engineering Co.: *See*—  
Richardson, John T. 2,895,713.
- Anthes, Clifford C., to Union Carbide Corp. Quick detachable safety connection between blowpipe body and stem. 2,914,344, 11-24-59, Cl. 285-93.
- Anthes, Jacob. Tube tester. 2,897,434, 7-28-59, Cl. 324-23.
- Anthony, Benjamin F.: *See*—  
Daley, Robert E., and Anthony. 2,890,504.
- Anthony, Benjamin F., to Oglebay Norton Co. Apparatus for producing a veneer lining upon inner wall of hot tops. 2,986,266, 7-28-59, Cl. 18-59.
- Anthony Bros. Fibre Glass Pool Corp.: *See*—  
Smith, George H. 2,913,036.
- Anthony, Harry E., C. S. Burnham, J. R. De Ment, G. W. Hahn, and J. M. Hepler, Jr., to American Telephone and Telegraph Co. Drawer for storage of keys. 2,886,396, 5-12-59, Cl. 312-308.
- Anthony, John W.: *See*—  
Jordan, Paul B., and Anthony. 2,910,611.
- Anthony, Myron L., and R. M. Virkus, to Skil Corp. Cutting apparatus and manufacture thereof. 2,906,612, 9-29-59, Cl. 51-309.
- Anthony, Paul Z.: *See*—  
Ginger, Leonard G., and Anthony. 2,889,363.
- Anthony, Paul Z., and L. G. Ginger, to Baxter Laboratories, Inc. Process for producing thyroxine. 2,889,364, 6-2-59, Cl. 260-519.
- Anthony, Robert C., and R. J. Williams, to General Motors Corp. Hinge. 2,870,477, 1-27-59, Cl. 16-164.
- Anthony, Russell W.: *See*—  
McNabb, Warren C., and Anthony. 2,916,971.
- Anthony, Russell W., to National Broach & Machine Co. Compensated worm, worm gear device. 2,877,658, 3-17-59, Cl. 74-409.
- Anthony, Russell W., to National Broach & Machine Co. Centering chuck. 2,893,744, 7-7-59, Cl. 279-123.
- Anthony, Stewart H.: *See*—  
Hehn, Otto. 2,909,963.
- Anthony, William C.: *See*—  
Speeter, Merrill E., and Anthony. 2,870,162.
- Antioch College: *See*—  
Asakawa, George, and Vernet. 2,901,908.  
Vernet, Sergius. 2,893,244.  
Vernet, Sergius. 2,915,900.  
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Vernet, Sergius, Corwin, and Asakawa. 2,915,899.  
Von Wangenheim, Adolf. 2,873,609.
- Antioch College of Yellow Springs: *See*—  
Hunsberger, Isaac M. 2,879,160.  
Hunsberger, Isaac M. 2,892,715.
- Antle, Wade H.: *See*—  
Page, John S., Jr., J. S. Page, Jr., Antle, and Knickerbocker. 2,891,769.
- Antfinger, George J., to The B. F. Goodrich Co. Novel barrier layer in laminated structure. 2,893,908, 7-7-59, Cl. 154-139.
- Antognini, Joe: *See*—  
Tilles, Harry, and Antognini. 2,887,372.  
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Tilles, Harry, and Antognini. 2,916,370.
- Antognini, Joseph: *See*—  
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- Anton Ernst J. Eisele, and W. Federkiel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyestuffs of the anthraquinone series. 2,911,417, 11-3-59, Cl. 260-376.
- Anton, Nicholas: *See*—  
Mason, Willard F. 2,882,511.
- Anton, Nicholas. Variable voltage regulator. 2,874,319, 2-17-59, Cl. 313-54.
- Anton, Nicholas. Radiation detector and indicator. 2,917,632, 12-15-59, Cl. 250-83.6.
- Antonevich, Michael, to The Crawford Mfg. Co., Inc. Stop motions. 2,880,381, 3-31-59, Cl. 317-157.
- Antonidis, John E., M. E. Dray, and R. A. Ulm, to General Motors Corp. Dynamo electric machine. 2,870,354, 1-20-59, Cl. 310-247.
- Antonissen, Peter H. L., to Associated British Oil Engines Ltd. Heat engines. 2,877,622, 3-17-59, Cl. 60-13.



- Antonius, John I. Collapsible automobile tables. 2,898,170, 8-4-59, Cl. 311-21.
- Antonucci, James A. Clamping device for outlet boxes. 2,915,266, 12-1-59, Cl. 248-27.
- Antraigue, Roger. Re-treading machine. 2,915,108, 12-1-59, Cl. 154-9.
- Antrim, William D., to Carrier Corp. Gas burner control means. 2,868,278, 1-13-59, Cl. 158-132.
- Anritter, Max : See—  
Maitland, Peter M., and Anritter. 2,918,983.
- Anulf, Karl A. Automatic telecommunication systems. 2,873,323, 2-10-59, Cl. 179-175.2.
- Anxionnaz, René, 1/2 to Societe Rateau (Societe Anonyme). Control of high-power turbines. 2,874,711, 2-24-59, Cl. 137-26.
- Anzalone, Rose L. Hair curling device. 2,867,223, 1-6-59, Cl. 132-40.
- Apa, Frank E., and A. W. Terrible, to Land-Air, Inc. Phase control system for a rotating member. 2,881,377, 4-7-59, Cl. 318-175.
- Appelt, William R., and J. A. Wedekind, to Foster Wheeler Corp. Automatic welding torches. 2,908,805, 10-13-59, Cl. 219-125.
- Apco, Inc. : See—  
Andres, Lloyd J. 2,883,922.
- Apco Mossberg Co. : See—  
Aijala, Sulo A. 2,887,919.
- Apel, Alfons, and G. Rössler, to UDIC Societe Anonyme. Preparation of stable polyol solutions and the resulting product. 2,917,390, 12-15-59, Cl. 99-142.
- Apel, John H., to The Jaeger Machine Co. Combination clutch and gear shift control for mixer units. 2,880,832, 4-7-59, Cl. 192-3.5.
- Apex Machine Mfg. Co., Inc. : See—  
Kinker, John C., Jr. 2,888,180.
- Apfelbaum, Fred. Vehicle brake operation responsive safety seat device. 2,880,815, 4-7-59, Cl. 180-82.
- Apfelzweig, Alex A. Toggle bolt. 2,908,196, 10-13-59, Cl. 85-3.
- Apgar, Donald H., and E. H. Bosman, to International Business Machines Corp. Digital servo system. 2,907,937, 10-6-59, Cl. 318-23.
- Apon, Cornelis J. V. : See—  
Van Laar, Jan A. W., and Apon. 2,868,670.
- Apoteksvarucentralen Vitrum Apotekareaktiebolaget : See—  
Jorpes, Johan E., Mutt, Rastgeldi, and Linden. 2,878,159.
- Apotheker, David, to E. I. du Pont de Nemours and Co. Chemical process. 2,875,258, 2-24-59, Cl. 260-678.
- Appel, Arthur V., and R. E. Lewis, to United States of America. Air Force. Instrument dial illuminator. 2,868,960, 1-13-59, Cl. 240-2.1.
- Appel, Gerhard H. Apparatus for straightening and for relieving stresses in workpieces. 2,894,421, 7-14-59, Cl. 78-14.
- Appel, Gerhard H., and E. Tlaker, to Appel Process, Ltd. Plural workpiece forging machines. 2,872,832, 2-10-59, Cl. 78-24.
- Appel, Gerhard H., and E. Tlaker, to Appel Process, Ltd. Die actuation means for forging machines. 2,905,031, 9-22-59, Cl. 78-21.
- Appel Process, Ltd. : See—  
Appel, Gerhard H., and Tlaker. 2,872,832.  
Appel, Gerhard H., and Tlaker. 2,905,031.
- Appeldoorn, John K. : See—  
Ertelt, Henry R., Knapp, and Appeldoorn. 2,904,568.
- Appell, Herbert R., to Universal Oil Products Co. Boron halide-alkali metal acid pyrophosphate complex and catalyst containing same. 2,871,198, 1-27-59, Cl. 252-433.
- Appell, Herbert R., to Universal Oil Products Co. Process of oxidizing and separating alkylaryl mixtures. 2,874,098, 2-17-59, Cl. 202-57.
- Appell, Herbert R., to Universal Oil Products Co. Alkylation process and catalyst therefor. 2,882,289, 4-14-59, Cl. 260-448.
- Appell, Herbert R., to Universal Oil Products Co. Alkylation of saturated hydrocarbons. 2,903,490, 9-8-59, Cl. 260-666.
- Appenzeller, Valentin, to E. Kusters. Pressure treatment of material. 2,908,964, 10-20-59, Cl. 29-110.
- Appert, Didier, and S. Cailliot. Apparatus for enabling a continuous magnetic tape or some other support in the form of a continuous band to be regularly driven inside a magazine charger. 2,918,536, 12-22-59, Cl. 179-100.2.
- Apple, Edward M., to J. Martin. Power operated emergency brake. 2,910,156, 10-27-59, Cl. 192-3.
- Appleberry, Cecil M., Jr. : See—  
Seats, Peter, and Appleberry. 2,906,639.
- Applegate, Marvin C., and C. M. Fritz, to P. S. Allen. Automatic photographic apparatus. 2,916,976, 12-15-59, Cl. 95-14.
- Applegate, Walter M. Bole-supporting device. 2,893,668, 7-7-59, Cl. 248-44.
- Applegath, Fred, and R. A. Franz, to Monsanto Chemical Co. Ureas. 2,874,149, 2-17-59, Cl. 260-77.5.
- Applegath, Fred, and R. A. Franz, to Monsanto Chemical Co. Substituted ureas. 2,877,268, 3-10-59, Cl. 260-553.
- Applegath, Fred, and R. A. Franz, to Monsanto Chemical Co. Preparation of arylenebenzoxazolols and arylenebenzothiazolols. 2,915,525, 12-1-59, Cl. 260-304.
- Appleton, Arthur I. : See—  
Appleton, Norton A. and A. I. 2,917,263.
- Appleton, Arthur I. Tool for seamless conduit terminal elements. 2,867,143, 1-6-59, Cl. 81-15.
- Appleton, Arthur I. Control for automobile seat. 2,871,913, 2-3-59, Cl. 155-15.
- Appleton, Arthur I. Rail anchor. 2,875,954, 3-3-59, Cl. 238-338.
- Appleton, Arthur I. Adjustable mounting flange for switch boxes and the like. 2,879,912, 3-31-59, Cl. 220-3.9.
- Appleton, Arthur I. Electrical conduit union and expansion coupling. 2,900,436, 8-18-59, Cl. 174-86.
- Appleton, Arthur I. Key type rail anchor. 2,905,391, 9-22-59, Cl. 238-315.
- Appleton, Arthur I. Mixer. 2,905,452, 9-22-59, Cl. 259-105.
- Appleton, Arthur I. Service entrance fitting. 2,908,745, 10-13-59, Cl. 174-81.
- Appleton, Arthur I. Apparatus for producing reflectors. 2,910,962, 11-3-59, Cl. 118-500.
- Appleton, Arthur I. Wedge type rail anchor. 2,911,155, 11-3-59, Cl. 238-317.
- Appleton, Arthur I. Mounting for switchbox and the like. 2,917,199, 12-15-59, Cl. 220-3.7.
- Appleton, Bernard S., and K. Barth, to G.M.E. Corp. Hatch cover assembly. 2,891,500, 6-23-59, Cl. 114-202.
- Appleton, Bernard S., and P. Richter, to G.M.E. Corp. Single actuator folding hatch cover. 2,918,122, 12-22-59, Cl. 160-188.
- Appleton Electric Co. : See—  
Appleton, Norton A. and A. I. 2,917,263.
- Appleton Machine Co., The : See—  
Wendshuh, Herbert L. 2,875,955.  
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- Appleton, Norton A. and A. I., to Appleton Electric Co. Electrical fixture fastener. 2,917,263, 12-15-59, Cl. 248-216.
- Appleton Wire Works Corp. : See—  
Gerhauser, John P. 2,893,664.  
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- Appleton Wire Works Inc. : See—  
Frentzel, Herman C. 2,876,802.
- Applied Physics Corp. : See—  
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- Applied Radiation Corp. : See—  
Farrell, Sherman R. 2,896,103.  
Geisler, Wilson S., Jr. 2,913,619.  
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- Applied Research Inc. : See—  
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- Applied Research Laboratories, Inc. : See—  
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- Applied Science Corp. of Princeton : See—  
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- Appling, John W. : See—  
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- Apstein, Maurice, to United States of America, Army. Firing circuit. 2,890,655, 6-16-59, Cl. 102-70.2.
- Aquadynamics, Inc. : See—  
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- Aquafilter Corp. : See—  
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- Aquamatic Inc. : See—  
Dunlap, Edwin V. 2,871,883.  
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- Aquatic Products Corp. : See—  
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- Arabian, Karekin G., to Shell Development Co. Paraffin wax compositions having improved flexibility. 2,915,447, 12-1-59, Cl. 208-21.
- Araki, Tsunao : See—  
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- Arant, Gene W. : See—  
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- Arant, Perry, to Clayton Manufacturing Co. Air interlock control for gas burning apparatus. 2,916,022, 12-8-59, Cl. 122-504.
- Arant, Perry. Method of steam cleaning and liquid rinsing. 2,919,070, 12-29-59, Cl. 239-10.
- Arbogast, Alva G. Trapless steam condensate system. 2,886,247, 5-12-59, Cl. 237-9.
- Arbore, James W. Teepee tent. 2,879,780, 3-31-59, Cl. 135-4.
- Arborelius, Måns M., and C. E. G. Lundgren. Arrangement in breathing apparatus for use under water. 2,896,616, 7-28-59, Cl. 128-142.
- Arbuckle, Walter K. : See—  
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- Arcadia Metal Products : See—  
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- Arcadia Metal Products, Inc. : See—  
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- Arcair Co.: *See*—  
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- Arce, Ambrosio. Adjustable sanitary belt and safety catamenial pad holder. 2,888,926, 6-2-59, Cl. 128-289.
- Arceomont, Paul R.: *See*—  
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- Arch, John, Jr. Contact governor. 2,895,346, 7-21-59, Cl. 74-526.
- Archard, Geoffrey D., to Metropolitan-Vickers Electrical Co. Ltd. Magnetic means for deflecting electron beams. 2,909,688, 10-20-59, Cl. 313-76.
- Archer, Alva I.: *See*—  
Walker, William J. and R. M., Duggan, and Archer. 2,868,448.
- Archer-Daniels-Midland Co.: *See*—  
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Crumley, Lloyd I., and Fulton. 2,906,327.  
Crumley, Lloyd I., and Fulton. 2,917,071.  
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Rheineck, Alfred E., and Oberg. 2,877,123.
- Archer, George W., and M. B., to A-S-K Corp. Rope guide and retainer for knot tying device. 2,916,316, 12-8-59, Cl. 289-13.
- Archer, Hugh M.: *See*—  
Dickey, Robert C., Hauck, and Archer. 2,869,511.
- Archer, James R.: *See*—  
Hartig, Rufus G., and Archer. 2,901,061.
- Archer, John, and G. V. Carcasson, to North American Philips Co., Inc. Method of and apparatus for position-selecting, scanning and the like. 2,890,378, 6-9-59, Cl. 315-13.
- Archer, John E. Modeling method and means. 2,917,774, 12-22-59, Cl. 18-5-1.
- Archer, Lee A., and F. X. Keegan, to The Pyle-National Co. Interfittng electrical connector. 2,882,509, 4-14-59, Cl. 339-48.
- Archer, Monte B.: *See*—  
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- Archer, Sydney, and J. O. Hoppe, to Sterling Drug Inc. Acylated triiodoaminophenylalkanoic acids and preparation thereof. 2,895,988, 7-21-59, Cl. 260-518.
- Archer, Wesley L.: *See*—  
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- Archer, Wesley L., and R. S. Montgomery, to The Dow Chemical Co. Resinous compositions from coal acids and alcamines and method for making composite products thereof. 2,895,934, 7-21-59, Cl. 260-37.
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- Archibald, James O., and R. C. Shoemaker, to Hyster Co. Earth compacting device. 2,911,893, 11-10-59, Cl. 94-50.
- Arceweld Mfg. Co.: *See*—  
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- Arden, Thomas R.: *See*—  
Ladd, John W. B., and Arden. 2,890,801.
- Ardern, David B., to Houdry Process Corp. Contacting solids and gases. 2,897,138, 7-28-59, Cl. 208-165.
- Ardia, Vincent H., to Bendix Aviation Corp. Manual controller for an automatic pilot system. 2,879,015, 3-24-59, Cl. 244-77.
- Arditi, Maurice, to International Telephone and Telegraph Corp. Microwave lines and high Q filters. 2,867,782, 1-6-59, Cl. 333-73.
- Arditi, Maurice, to International Telephone and Telegraph Corp. Radio frequency radio receiver with line-above-ground directional couplers and automatic frequency control. 2,868,966, 1-13-59, Cl. 250-20.
- Arditi, Maurice, and E. S. Nassor, to International Telephone and Telegraph Corp. Variable attenuators. 2,890,424, 6-9-59, Cl. 333-81.
- Ardito, William A., to Westinghouse Electric Corp. Vacuum cleaner coupling with expandable ring locking means. 2,899,215, 8-11-59, Cl. 285-7.
- Ardolino, Anthony G. Doll baby and walker toy. 2,896,371, 7-28-59, Cl. 46-102.
- Arenberg, David L. Ultrasonic apparatus. 2,883,660, 4-21-59, Cl. 343-17.7.
- Arenco Aktiebolag: *See*—  
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- Arenhold, Karl-Helz, to Westinghouse-Bremesen-Gesellschaft m.b.H. Combination fluid pressure and vacuum brake system. 2,910,324, 10-27-59, Cl. 303-4.
- Arenhold, Karl-Helz, and W. Ortmann, to Westinghouse-Bremesen-Gesellschaft m.b.H. Self-lapping relay valve device. 2,893,415, 7-7-59, Cl. 137-116.5.
- Arens Controls, Inc.: *See*—  
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- Arens, Walter: *See*—  
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- Arenson, Simon W., and F. A. Baldauski, to National Dairy Products Corp. Composition and method of making same. 2,874,050, 2-17-59, Cl. 99-94.
- Arent, Otto H.: *See*—  
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- Arentze, Cornelius: *See*—  
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- Arenz, Matthias, to Firma Schloemann Akt., Combined die pusher and quenching device for extrusion press. 2,883,049, 4-21-59, Cl. 207-1.
- Arenz, Matthias, to Firma Schloemann Akt. Piercing ram arrangement for an extrusion press. 2,901,104, 8-25-59, Cl. 207-3.
- Arenz, Matthias, to Schloemann Akt. Metal tube press. 2,905,317, 9-22-59, Cl. 207-3.
- Arenz, Matthias, and H. Vievring, to Schloemann Akt. Receiver for metal extrusion presses and the like with an inductive-heating arrangement. 2,886,683, 5-12-59, Cl. 219-10.79.
- Arey, Ralph G., to Texas Instruments Inc. Electrical switch structures. 2,912,546, 11-10-59, Cl. 200-116.
- Arey, William F., Jr.: *See*—  
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- Arey, William F., Jr., to Esso Research and Engineering Co. Preoxidizing feed to fuels coker. 2,905,615, 9-22-59, Cl. 208-7.
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- Argentin, Lou F., to The Budd Co. Resistance welding methods and apparatus. 2,876,333, 3-3-59, Cl. 219-91.
- Argereu, William: *See*—  
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- Argiro, Nicholas T., and E. J. Swimmer. Toy simulated sewing machine. 2,878,614, 3-24-59, Cl. 46-39.
- Argo, William M.:  $\frac{1}{2}$  to A. D. Black. Combination neckband and towel for barbers and beauty operators. 2,882,529, 4-21-59, Cl. 2-50.
- Arguillere, Jean E. Apparatus for defibrating hard wood. 2,902,090, 9-1-59, Cl. 162-236.
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- Argus Chemical Laboratory, Inc.: *See*—  
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- Argyle, Leroy C., to Corning Glass Works. Marking device. 2,902,002, 9-1-59, Cl. 118-243.
- Argyle, Sidney C., to Aerojet-General Corp. Optical rectifier. 2,868,066, 1-13-59, Cl. 88-16.8.
- Ariens, Virgil C., to Hamilton Mfg. Co. Waste handling means. 2,916,183, 12-8-59, Cl. 220-65.
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- Aries, Robert S.: *See*—  
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- Aries, Robert S. Purification of amides of pyridine carboxylic acids. 2,870,155, 1-20-59, Cl. 260-294.9.
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- Aries, Robert S. Nitriles from aromatic acids and derivatives. 2,901,504, 8-25-59, Cl. 260-465.
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- Arisman, Mervin B.: *See*—  
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- Arisman, Mervin B., W. H. Budd, and A. M. Daily, to Chicago Telephone Supply Corp. High voltage variable resistor. 2,871,325, 1-27-59, Cl. 201-55.
- Aristo-Craft Products: *See*—  
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- Arizona Activite, Inc.: *See*—  
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- Ar-Ka Engineering Inc.: *See*—  
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- Arkansas Co., Inc.: *See*—  
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- Arkell and Smiths: *See*—  
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- Ark-Les Switch Corp.: *See*—  
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- Arkless, George F.: *See*—  
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- Arkus, Jack. Undergarments. 2,904,042, 9-15-59, Cl. 128-159.
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- Arlin, Max M. Electrical gauging apparatus. 2,908,980, 10-20-59, Cl. 33-172.
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- Arlington Seating Co.: *See*—  
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- Arlt, Herbert G., Jr., to American Cyanamid Co. Sizing compositions containing fatty acid. 2,901,371, 8-25-59, Cl. 106-243.
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- Armcast, Wilbur H., to Combustion Engineering, Inc. Power plant with separately fired reheater. 2,867,983, 1-13-59, Cl. 60-73.
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- Armentrout, Edward L. Promotional name plate. 2,903,805, 9-15-59, Cl. 40-10.
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- Armington, Arthur P., to General Motors Corp. Angle bulldozer for four-wheel steer tractor. 2,904,910, 9-22-59, Cl. 37-144.
- Armington, George E., to General Motors Corp. Loader-articulated frame. 2,896,344, 7-28-59, Cl. 37-110.
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- Armington, Stewart F., Jr., to The Euclid Crane & Hoist Co. Hoist with gear reduction. 2,891,767, 6-23-59, Cl. 254-186.
- Armistead, Fontaine C., to Texaco Development Corp. Radioactivity borehole logging. 2,909,661, 10-20-59, Cl. 250-83.3.
- Armistead, Fontaine C., to Texaco Development Corp. Scintillation type detector. 2,910,592, 10-27-59, Cl. 250-71.5.
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- Armitage, Joseph B., and T. F. Eserkalm, to Kearney & Trecker Corp. Machine tool transmission and control mechanism. 2,914,992, 12-1-59, Cl. 90-21.
- Armond, John W., to The British Oxygen Co. Ltd. Purification of argon. 2,893,512, 7-7-59, Cl. 183-114.2.
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- Armour, Frank K., to Interlake Iron Corp. Blast furnace distributor seal. 2,908,407, 10-13-59, Cl. 214-37.
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- Armstrong, Adam E., to Armstrong Machine Works. Drainage devices for steam-heated drying cylinders or drums. 2,892,264, 6-30-59, Cl. 34-125.
- Armstrong, Adam E., to Armstrong Machine Works. Humidifier. 2,892,621, 6-30-59, Cl. 261-15.
- Armstrong, Anna M.: *See*—  
 Forward, Frank A., and Armstrong. 2,898,196.  
 Forward, Frank A., and Armstrong. 2,898,197.
- Armstrong, Blair D., and J. W. Wallace, to Armstrong Store Fixture Co. Merchandise shelf adapter and method of making same. 2,894,303, 7-14-59, Cl. 24-81.
- Armstrong-Blum Mfg. Co.: *See*—  
 Blum, Harry J. 2,914,101.  
 Lindholm, Frank J. 2,914,100.  
 Lindholm, Frank J. 2,914,102.
- Armstrong Bros. Tool Co.: *See*—  
 Armstrong, John O. 2,887,760.
- Armstrong Cork Co.: *See*—  
 Baumgartner, George L., Jr. 2,904,524.  
 Baymiller, John W., and Merrifield. 2,887,428.  
 Boje, Herbert H., and Schulz. 2,918,039.  
 Clark, Lawrence. 2,873,259.  
 Dunn, Lewis R., and Eckert. 2,875,044.  
 Dunlap, Lawrence H., and Parker. 2,873,201.  
 Eckert, Lewis W. 2,874,617.  
 Eckert, Lewis W. 2,874,796.  
 Feigley, David A., Jr. 2,868,641.  
 Feigley, David A., Jr. 2,868,743.  
 Feigley, David A., Jr. 2,880,090.  
 Feigley, David A., Jr., and Hassel. 2,905,583.  
 Feigley, David A., Jr., and Parker. 2,914,494.  
 Forsythe, Alan K., and Parker. 2,877,203.  
 Gard, George E. 2,870,543.  
 Gard, George E. 2,870,544.



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- Gard, George E. 2,873,345.  
 Gard, George E., and Rueggeberg. 2,892,915.  
 Gaston, Jack E. 2,904,843.  
 Graff, Richard A., and Schaller. 2,903,832.  
 Graham, Galen E. 2,912,395.  
 Graham, Galen E. 2,918,441.  
 Graham, Galen E., and Parker. 2,893,969.  
 Haines, Charles, Jr. 2,890,739.  
 Hassel, Lloyd V. 2,913,773.  
 Heinzelman, Earl E. 2,891,281.  
 Herr, Benjamin F. 2,886,847.  
 Hornberger, Clarence L. 2,918,224.  
 Knold, James P. 2,887,426.  
 Lescallette, Richard F. 2,885,913.  
 McKinney, Paul V. 2,881,095.  
 McKinney, Paul V. 2,883,344.  
 Moore, Clarence D. 2,884,400.  
 Moore, Clarence D. 2,892,806.  
 Navikas, Victor A. 2,880,898.  
 Parker, John A. 2,884,404.  
 Parker, John A. 2,885,433.  
 Parker, John A., and Versnel. 2,872,430.  
 Piersol, Jay L. 2,887,431.  
 Rueggeberg, Werner. 2,903,543.  
 Rueggeberg, Werner. 2,906,961.  
 Snyder, Robert W. 2,908,042.  
 Ustica, Joseph J. 2,871,331.
- Armstrong, David E., and T. J. J. Dunn, to Horace T. Potts Co. Cold tube bending. 2,907,102, 10-6-59, Cl. 29—157.  
 Armstrong, Edward M., to Associated Spring Corp. Connector spring. 2,898,102, 8-4-59, Cl. 267—1.  
 Armstrong, Edward T., to The Goodyear Tire & Rubber Co. Disc type brake with load equalizing pressure applying members. 2,888,103, 5-26-59, Cl. 188—72.  
 Armstrong, Edwin H.: See—  
   Bose, John H. 2,871,292.  
   Bose, John H. 2,879,335.  
 Armstrong, Esther M.: See—  
   Bose, John H. 2,871,292.  
   Bose, John H. 2,879,335.  
 Armstrong, Frank W., to The Babcock & Wilcox Co. Twin electrode welding method and apparatus. 2,911,517, 11-3-59, Cl. 219—125.  
 Armstrong Furnace Co.: See—  
   Hays, Herbert G., and Wentz. 2,918,967.  
 Armstrong, Gordon, Co., Inc.: See—  
   Dorsak, John W., and Van Denberg. 2,895,760.  
 Armstrong, Herbert L., to United States of America, Army. Automatic photographic pressing timer. 2,895,097, 7-14-59, Cl. 318—443.  
 Armstrong, Howard H., to The B. F. Goodrich Co. Sealing slide fastener having laterally curved portions. 2,909,823, 10-27-59, Cl. 24—205.1.  
 Armstrong, Jack W., and D. M. Preiss, to Shell Development Co. Clay grease compositions and process of preparation therefor. 2,886,524, 5-12-59, Cl. 252—28.  
 Armstrong, Jack W., and J. A. Edgar, to Shell Development Co. Extreme high temperature grease compositions gelled with thermosetting resin-coated gels. 2,890,171, 6-9-59, Cl. 252—28.  
 Armstrong, Jack W., and H. A. Woods, to Shell Development Co. Grease manufacturing process for pigment or dye gelled oils. 2,915,470, 12-1-59, Cl. 252—49.6.  
 Armstrong, James A. Attachable neckties. 2,879,517, 3-31-59, 3-31-59, Cl. 2—155.  
 Armstrong, James E.: See—  
   Fitch, Frederick T., and Armstrong. 2,916,352.  
 Armstrong, James F., to ACF Industries, Inc. Starter controlled priming system for a fuel injection operated internal combustion engine. 2,876,758, 3-10-59, Cl. 123—179.  
 Armstrong, James F., to ACF Industries, Inc. Fuel injection system. 2,915,053, 12-1-59, Cl. 123—119.  
 Armstrong, James F., and R. E. Kalert, Jr., to ACF Industries, Inc. Ram tube manifold for fuel injection system. 2,915,049, 12-1-59, Cl. 123—52.  
 Armstrong, James K.: See—  
   Willis, Newton H., Erickson, and Armstrong. 2,902,837.  
 Armstrong, John A., to Research Corp. Discharge electrode. 2,867,287, 1-6-59, Cl. 183—7.  
 Armstrong, John C. Tooth powder containers. 2,907,358, 10-6-59, Cl. 141—360.  
 Armstrong, John D., G. J. Flynn, Jr., and W. W. Wittenberger, to Baker Perkins, Inc. Conveyor system. 2,883,033, 4-21-59, Cl. 198—31.  
 Armstrong, John O., to Armstrong Bros. Tool Co. Cutting tool. 2,887,760, 5-26-59, Cl. 29—96.  
 Armstrong, John P., and J. D. Hoffpauir. Coupling and steering apparatus for a single screw tug. 2,870,734, 1-27-59, Cl. 114—236.  
 Armstrong, John R.: See—  
   Wellborn, William W., and Armstrong. 2,877,088.  
 Armstrong, Lee B.: See—  
   Eisenberg, Irwin W., Dibble, Armstrong, Love and Rhodes. 2,905,776.  
 Armstrong, Leonard J., and A. Mudrak, to The Harshaw Chemical Co. Asphaltic compounds and additives therefor. 2,875,083, 2-24-59, Cl. 106—273.  
 Armstrong, Lorne D., to Radio Corp. of America. Semi-conductor devices. 2,906,931, 9-29-59, Cl. 317—235.
- Armstrong, Lorne D., to Radio Corp. of America. Semi-conductor devices and methods of making them. 2,918,719, 12-29-59, Cl. 29—25.3.  
 Armstrong, Lorne D., and R. L. Sherwood, to Radio Corp. of America. Semi-conductor devices. 2,877,396, 3-10-59, Cl. 317—239.  
 Armstrong, Lorne D., H. D. Harmon, and H. R. Meisel, to Radio Corp. of America. Silicon junction devices. 2,878,432, 3-17-59, Cl. 317—240.  
 Armstrong Machine Works: See—  
   Armstrong, Adam E. 2,892,264.  
   Armstrong, Adam E. 2,892,621.  
 Armstrong, Merlyn M., to Motorola, Inc. Color television receiver. 2,880,340, 3-31-59, Cl. 313—77.  
 Armstrong, Merlyn M., and R. G. O'Fallon, to Motorola, Inc. Cathode ray beam control apparatus. 2,880,366, 3-31-59, Cl. 315—27.  
 Armstrong, Philip N., and J. B. Wiener, to The Magnavox Co. Card processing apparatus. 2,905,465, 9-22-59, Cl. 271—5.  
 Armstrong, Raymond L., and Gerald H. and George H. Morenus. Pneumatically operated electric switch. 2,875,291, 2-24-59, Cl. 200—81.  
 Armstrong Rubber Co., The: See—  
   Fortner, Herman S. 2,893,467.  
 Armstrong Siddeley Motors Ltd.: See—  
   Barton, Frank. 2,916,973.  
   Reutt, Zigmund. 2,868,441.  
   Stokes, Morris A. 2,916,367.  
 Armstrong, Sir W. G.: See—  
   Gauld, John E. A. 2,906,985.  
 Armstrong Store Fixture Co.: See—  
   Armstrong, Blair D., and Wallace. 2,894,303.  
 Armstrong, Warren E., and C. Z. Morgan, to Shell Development Co. Dehydrogenation of hydrocarbons. 2,870,228, 1-20-59, Cl. 260—669.  
 Armstrong, Warren E., and C. Z. Morgan. Dehydrogenation of hydrocarbons. 2,916,531, 12-8-59, Cl. 260—669.  
 Armstrong, William J., P. Morrison, and P. K. Myhre, to Collins Radio Co. Minimum shaft positioning means. 2,905,011, 9-22-59, Cl. 74—424.8.  
 Arnaut, Arnold D.: See—  
   Saubestre, Edward B., and Arnaut. 2,898,274.  
 Arnaut, Arnold D., and E. B. Saubestre, to Sylvania Electric Products Inc. Anodes for electroplating bath. 2,907,702, 10-6-59, Cl. 204—43.  
 Arnberg, Leonard A.: See—  
   Ferguson, Edgar A., Jr. 2,882,455.  
 Arnd, Maurice. Frame for shop windows, show cases and the like. 2,883,717, 4-28-59, Cl. 20—56.4.  
 Arndt, Charles J., to Goodman Mfg. Co. Locking device for idler assemblies of rope strand supported endless conveyors. 2,908,958, 10-20-59, Cl. 24—125.  
 Arndt, John H. Anti-dust device for grain elevators. 2,904,176, 9-15-59, Cl. 209—147.  
 Arndt, Rudolph P., to Anaconda Wire and Cable Co. Solution comprising zinc aromatic polyester, method of making, and wire coated therewith. 2,900,356, 8-18-59, Cl. 260—33.4.  
 Arne, Christian, and L. P. Zick, to Chicago Bridge & Iron Co. Penetration structure for pressure vessels. 2,869,749, 1-20-59, Cl. 220—1.  
 Arnelo, Anders I.: See—  
   Fredriksson, Per S. E., Arnelo, Lofgren, and Lotvik. 2,898,650.  
 Arnmann, Friedrich: See—  
   Baumann, Hans, Arnmann, Elsele, and Federkiel. 2,913,303.  
 Arnes, Lyle L., to Walker Mfg. Co. of Wisconsin. Tool. 2,888,743, 6-2-59, Cl. 30—101.  
 Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 2,905,359, 9-22-59, Cl. 220—113.  
 Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 2,919,050, 12-29-59, Cl. 220—113.  
 Arneson, Lawrence E., to Federal Paper Board Co., Inc. Method and apparatus for packaging cans and the like. 2,873,565, 2-17-59, Cl. 53—29.  
 Arnett, Leslie, and W. G. Freise, to United Coffee Corp. Valve for beverage dispenser. 2,912,145, 11-10-59, Cl. 222—487.  
 Arni, Johann R., to Anstalt Merces. Speed recorders. 2,874,018, 2-17-59, Cl. 346—18.  
 Arnit, Fred H., to Garden City Plating & Mfg. Co. Method of forming drawer slide. 2,869,499, 1-20-59, Cl. 113—116.  
 Arnit, Fred H., to Garden City Plating & Mfg. Co. Drawer slide. 2,898,159, 8-4-59, Cl. 308—3.8.  
 Arnoff, Milton J.: See—  
   Merlub-Sobel, Menahem, Arnoff, and Sorkin. 2,870,073.  
 Arnoff, Milton J., to Horizons Titanium Corp. Production of oxygen-free and anhydrous fused salt electrolyte from oxygen containing compounds of uranium. 2,887,356, 5-19-59, Cl. 23—14.5.  
 Arnold, Albert E., Jr. Method of assembling electrical components. 2,871,549, 2-3-59, Cl. 29—155.5.  
 Arnold, Bruce C., to J. I. Case Co. Speedometer drive means. 2,893,249, 7-7-59, Cl. 74—12.  
 Arnold, Bruce C., to J. I. Case Co. Power transmission means for tractor. 2,914,966, 12-1-59, Cl. 74—74.5.  
 Arnold, Carl, and H. Brandt, to C. Arnold. Continuously rotating workpiece carrier with plural workholders and a tool carrier which oscillates synchronously with the workpiece carrier during the tool operation. 2,890,468, 6-16-59, Cl. 10—2.



- Arnold, Carter H. Hoisting device. 2,917,278, 12-15-59, Cl. 254-150.
- Arnold, Carter H. Hoisting device. 2,917,279, 12-15-59, Cl. 254-150.
- Arnold, Charles F., and E. N. Cole, to General Motors Corp. Pre-aimed light projector. 2,870,362, 1-20-59, Cl. 313-113.
- Arnold, Chester L., and L. C. Bratt, to Stauffer Chemical Co. Boron-carbon feed stock. 2,917,462, 12-15-59, Cl. 252-182.
- Arnold-Copeland Co., Inc.: See—  
Kleid, Boris. 2,884,164.
- Arnold, Edward W. Pulling tool. 2,901,044, 8-25-59, Cl. 166-98.
- Arnold Fredric. Collapsible folding chair. 2,871,921, 2-3-59, Cl. 155-140.
- Arnold, George B., and L. Kovach, to The Texas Co. Method of separating mixtures of organic compounds. 2,879,220, 3-24-59, Cl. 208-25.
- Arnold, Gerald D. Method and apparatus for centrifugal separation with uni-directional flow at the point of separation. 2,890,764, 6-18-59, Cl. 183-83.
- Arnold, Hartmut, and G. Duck, to Goetzwerke Friedrich Goetze Aktiengesellschaft. Piston packing. 2,915,348, 12-15-59, Cl. 309-10.
- Arnold, Herbert, and N. Brock, to Asta-Werke Aktiengesellschaft Chemische Fabrik. Succinic acid esters. 2,894,983, 7-14-59, Cl. 260-485.
- Arnold, Herbert H.: See—  
Campbell, William M., Arnold, and Petrich. 2,901,987.
- Arnold, Herrick R., F. S. Fawcett, and W. W. Gilbert, to E. I. du Pont de Nemours and Co. Reduced phosphomolybdic acids wherein the average valence of the molybdenum is not more than 4. 2,900,235, 8-18-59, Cl. 23-139.
- Arnold, Hoffman & Co., Inc.: See—  
Conbere, John P., and Perry. 2,878,144.  
Conbere, John P., and Perry. 2,878,273.
- Arnold, James S., R. W. Dressel, and H. W. Haas, to United States of America, Navy. Antenna feed. 2,893,003, 6-30-59, Cl. 343-781.
- Arnold, James W., to Kimberly-Clark Corp. Display support. 2,913,209, 11-17-59, Cl. 248-201.
- Arnold, Lionel K.: See—  
Sweeney, Orland R., Arnold, and Long. 2,871,207.
- Arnold, Lois J., Jr. Combined baseball bat rack and carrier. 2,889,863, 6-9-59, Cl. 150-15.
- Arnold, Orlan M., to Ajem Laboratories, Inc. Power washer. 2,900,991, 8-25-59, Cl. 134-64.
- Arnold, Orlan M., and R. H. Harbin, to Ajem Laboratories, Inc. Metal cleaner. 2,916,459, 12-8-59, Cl. 252-152.
- Arnold, R. L. Multi-purpose implement for cultivation including flaming. 2,899,776, 8-18-59, Cl. 47-1.
- Arnold, Rice B. Sponge mop and compressing apparatus therefor. 2,907,062, 10-6-59, Cl. 15-119.
- Arnold & Richter K. G.: See—  
Lechner, Herbert. 2,869,865.
- Arnold, Robert G., and D. M. Simons, to E. I. du Pont de Nemours and Co. 1,3 bis (3-isocyanato-o-toyl) urea and curing polyurethane elastomers therewith. 2,902,474, 9-1-59, Cl. 260-77.5.
- Arnold, Stanfield N., and G. E. Tate, to Foster Wheeler Corp. Vapor generator. 2,909,158, 10-20-59, Cl. 122-235.
- Arnold, Theodore M.: See—  
Carlisle, James V., and Arnold. 2,912,750.  
Romine, Glenn N., and Arnold. 2,911,192.
- Arnold, Walter, to Fuller Co. Feeding devices for finely-divided materials. 2,917,208, 12-15-59, Cl. 222-368.
- Arnold, Walter L., and R. K. Pearce, to Radio Corp. of America. Coating method. 2,890,971, 6-16-59, Cl. 117-65.
- Arnold, Wayne R., to Schlumberger Well Surveying Corp. Well logging apparatus. 2,914,677, 11-24-59, Cl. 250-83.6.
- Arnold, William E. Commutators for dynamo-electric machines. 2,915,658, 12-1-59, Cl. 310-234.
- Arnoldi, Robert A., to United Aircraft Corp. Low drag flameholder capable of flutter during operation. 2,908,136, 10-13-59, Cl. 60-39.72.
- Arnolds, Bernhard: See—  
Kaess, Franz, Kronacher, Arnolds, and Wehrheim. 2,906,604.
- Arnot, Alfred E. R., to J. R. Sharp and E. Kaye. Aircraft manoeuvring apparatus. 2,874,861, 2-24-59, Cl. 214-332.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Seals for pistons, glands and the like. 2,877,071, 3-10-59, Cl. 309-23.
- Arnot, Alfred E. R., to J. R. Sharp, and E. Kaye. Trucks for handling aircraft. 2,877,911, 3-17-59, Cl. 214-332.
- Arnot, Alfred E. R., to J. R. Sharp, and E. Kaye. Apparatus for manipulating aircraft. 2,877,913, 3-17-59, Cl. 214-332.
- Arnot, Alfred E. R., to E. Kaye, and J. R. Sharp. Mast lift trucks. 2,883,003, 4-21-59, Cl. 187-9.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Hoses. 2,894,536, 7-14-59, Cl. 138-56.
- Arnot, Alfred E. R., to J. R. Sharp and E. Kaye. Lift trucks. 2,911,793, 11-10-59, Cl. 60-97.
- Arnot, Alfred E. R., to E. Kaye and J. R. Sharp. Means for the storage of goods. 2,916,141, 12-8-59, Cl. 206-46.
- Arnett, William, Jr., to Burndy Corp. Coating for metal to reduce electrical contact resistance. 2,901,722, 8-25-59, Cl. 339-114.
- Arnould, Raymond: See—  
Braconier, Frederic F. A., Le Bihan, and Arnould. 2,876,265.
- Arnoux Corp.: See—  
McIntosh, Robert B., and St. John. 2,907,902.
- Arnow, Samuel M. Steam power generating apparatus. 2,883,832, 4-28-59, Cl. 60-67.
- Arntzen, Clyde E., and E. J. Croop, to Westinghouse Electric Corp. Encased magnetic core impregnated with silicone fluid. 2,909,741, 10-20-59, Cl. 336-100.
- Aro Equipment Corp.: The: See—  
Hitt, Otis D., and Short. 2,881,589.  
Short, R. Stanford. 2,881,885.
- Arokiasamy, John. Shuttlecock. 2,911,219, 11-8-59, Cl. 273-106.
- Aron, Samuel, to Radio Corp. of America. Power supply. 2,905,881, 9-22-59, Cl. 321-23.
- Aronofsky, Julius S., G. C. Wallick, and P. P. Reichertz, to Socony Mobil Oil Co., Inc. Method of measuring characteristics of porous material. 2,867,116, 1-6-59, Cl. 73-38.
- Aronson, Albert I., to Radio Corp. of America. Class B amplifier biasing circuit. 2,883,479, 4-21-59, Cl. 179-171.
- Aronson, Albert I., to Radio Corp. of America. Temperature-compensated transistor biasing circuits. 2,887,540, 5-19-59, Cl. 179-171.
- Aronson, Albert I., to Radio Corp. of America. Class B transistor amplifier. 2,892,045, 6-23-59, Cl. 179-171.
- Aronson, Ben J., to Aronson Hanger Covers, Inc. Apparatus for covering wire garment hangers. 2,896,383, 7-28-59, Cl. 53-51.
- Aronson, David, and G. F. Melick, to Worthington Corp. Modular heat exchanger. 2,869,833, 1-20-59, Cl. 257-43.
- Aronson Hanger Covers, Inc.: See—  
Aronson, Ben J. 2,896,383.
- Aronson, Moses, to United States of America, Navy. Simulator for altitude effects on pressure breather. 2,909,185, 10-20-59, Cl. 137-64.
- Aronson, Theodore F., and F. A. Lyon. Electrical terminal means. 2,901,721, 8-25-59, Cl. 338-258.
- Aronson, Theodore F., and F. A. Lyon, to Halm Instrument Co., Inc. Sheet handling and laminating device. 2,918,278, 12-22-59, Cl. 271-8.
- Aronstein, Robert. Method and apparatus for image reproduction. 2,890,363, 6-9-59, Cl. 313-92.
- Arp, Ewald A., to Tobin-Arp Mfg. Co. Quick acting chuck. 2,907,573, 10-6-59, Cl. 279-55.
- Arpin, Donald J., and J. J. Quick setting cementitious composition. 2,918,385, 12-22-59, Cl. 106-97.
- Arpin, Julien J.: See—  
Arpin, Donald J. and J. J. 2,918,385.
- Arpin, Leon G. Gun supporting slings. 2,885,812, 5-12-59, Cl. 42-85.
- Arps, Jan J. Earth borehole logging system. 2,890,019, 6-9-59, Cl. 255-1.
- Arps, Jan J. Earth formation logging system. 2,917,704, 12-15-59, Cl. 324-1.
- Arras, Damiano. Hose connector with axially sliding locking sleeve. 2,868,564, 1-13-59, Cl. 285-243.
- Arras, George. Fixture connection. 2,917,620, 12-15-59, Cl. 240-78.
- Arrasmith, William C., to Radar Relay, Inc. Warning control system circuit. 2,887,677, 5-19-59, Cl. 340-213.
- Arrasmith, William C., and K. W. Kuhn, to Radar Relay, Inc. Electric flasher circuit. 2,880,370, 3-31-59, Cl. 315-72.
- Arrighini, Artill, and G. A. Van Sickle, to Rocwall Co. Prefabricated form for composition walls. 2,882,583, 4-21-59, Cl. 25-131.
- Arrighini, Artill, and G. A. Van Sickle, to Rocwall Co. Outside corner clamp for prefabricated wall forms. 2,896,306, 7-28-59, Cl. 25-131.
- Arrington, Bradford L., and A. M. Bullard, to Holm Tractor & Equipment Co. Means for cleaning in-place pipe lines. 2,897,829, 8-4-59, Cl. 134-99.
- Arrington, Vance L., and R. Zetour. Bow tie rack. 2,886,185, 5-12-59, Cl. 211-119.
- Arrow Fastener Co., Inc.: See—  
Abrams, Morris. 2,884,636.  
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- Arrow-Hart & Hegeman Electric Co., The: See—  
Bentley, Robert H. 2,890,436.  
Bentley, Robert H., and Asinwall. 2,885,515.  
Johnson, David W. 2,916,722.  
Schleicher, Harold E. 2,875,294.  
Schleicher, Harold E. 2,897,311.  
Schleicher, Harold E. 2,908,786.
- Arrow Mfg. Co., Inc.: See—  
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- Arrow Tools, Inc.: See—  
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Veres, Edward W. 2,877,903.  
Veres, Edward W. 2,894,600.
- Arrowhead Products, Inc.: See—  
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- Arrowood, John B. Lawn edger. 2,872,732, 2-10-59, Cl. 30-314.
- Arrowsmith, Jessie M.: See—  
Arrowsmith, Robert K., and J. M. 2,902,775.
- Arrowsmith, Robert K., and J. M. Educational device. 2,902,775, 9-8-59, Cl. 35-9.
- Arsenault, Joseph A.: See—  
Nichols, Charles R., Jr., and Arsenault. 2,871,920.



- Arsenault, Joseph R.: *See*—  
 Rainis, Anthony V., and Arsenault. 2,875,335.
- Arsenault, William R., A. E. Garfein, and R. Thorensen, to The Magnavox Co. Magnetic gating system. 2,905,834, 9-22-59, Cl. 307—88.
- Arslan, Hilmi: *See*—  
 Miller, Arthur, and Arslan. 2,879,477.
- Arson, Samuel L., to Cannon Electric Co. Electrical connector with positioning ribs. 2,869,095, 1-13-59, Cl. 339—61.
- Arson, Samuel L., to Cannon Electric Co. Moisture seal for connectors. 2,881,406, 4-7-59, Cl. 339—59.
- Art Color Printing Co.: *See*—  
 Consaul, John G., and Velten. 2,914,405.  
 Consaul, John G., and Velten. 2,914,406.
- Artercraft Venetian Blind Mfg. Co.: *See*—  
 Macy, Donald. 2,906,323.  
 Nelson, Harry. 2,894,572.
- Artercraft Venetian Blind Mfg. Co. of St. Louis: *See*—  
 Macy, Donald. 2,908,327.  
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 Smythe, Edwin T. 2,886,069.
- Arterbury, Bryant P., 33 $\frac{1}{2}$ %, to R. Arterbury. Jar operable upon release of vacuum. 2,870,992, 1-27-59, Cl. 255—27.
- Arterbury, Roy: *See*—  
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- Arth, Glen E.: *See*—  
 Sarett, Lewis H., Constantin, and Arth. 2,905,678.
- Arth, Glen E., and L. H. Sarett, to Merck & Co., Inc. 2-alkenyl and 2-alkynyl derivatives of 5,6-dihydro-4H pyrans. 2,868,805, 1-13-59, Cl. 260—345.1.
- Arth, Glen E., G. I. Poos, and L. H. Sarett, to Merck & Co., Inc. 1-carboalkoxymethylene-2, 4b-dimethyl-dodecahydrophenanthrene ketones and process. 2,887,492, 5-19-59, Cl. 260—340.9.
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- Arthur, Belton W.: *See*—  
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- Arthur, Evan M. Hose or like clips. 2,910,758, 11-3-59, Cl. 24—274.
- Arthur, Gene M.: *See*—  
 Grasshoff, Adolph W., and Arthur. 2,878,330.
- Arthur, John R., to Lisle Corp. Magnetic chip detector. 2,878,342, 3-17-59, Cl. 200—61.09.
- Arthur, Oscar F. Combined pallet and crate structure. 2,916,178, 12-8-59, Cl. 220—4.
- Arthur, Robert M., to Chicago Pump Co. Double rake comminuting device. 2,897,967, 8-4-59, Cl. 210—173.
- Artiaga, Mariano V.: *See*—  
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- Artistic Wire Products Co., Inc.: *See*—  
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- Artloom Carpet Co., Inc.: *See*—  
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- Artos Engineering Co.: *See*—  
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- Artuso, Nichols F., to Sperry Rand Corp. Microwave diplexer. 2,916,712, 12-8-59, Cl. 333—73.
- Artz, Charles A., to Admiral Corp. Printed circuit construction and method of making. 2,904,772, 9-15-59, Cl. 339—193.
- Artzt, Maurice, to Radio Corp. of America. Multi-phase power regulation. 2,876,412, 3-3-59, Cl. 323—60.
- Artzt, Maurice, to Radio Corp. of America. Frequency modulation system. 2,901,538, 8-25-59, Cl. 173—6.
- Arundale, Erving: *See*—  
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- Arundel, Coulthard & Co. Ltd.: *See*—  
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- Arundel, John T.: *See*—  
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- Arva S.A.: *See*—  
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- Arvai, Tibor, to Arva S.A. Actuator mechanism for a ten-key machine. 2,894,682, 7-14-59, Cl. 235—60.
- Arvai, Tibor, to Arva S.A. Tens transfer mechanism for a ten key machine. 2,904,247, 9-15-59, Cl. 235—60.
- Arvey, Joseph. Stone facers. 2,867,204, 1-6-59, Cl. 125—6.
- Arvey Corp.: *See*—  
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- Arvin Industries, Inc.: *See*—  
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- Arvins, Nathan A.: *See*—  
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- Arvintz, Abraham A. and R. A., and N. A. Arvins, to Sanicom Co., Inc. Draft inducers for boilers. 2,877,724, 3-17-59, Cl. 110—162.
- Arvintz, Robert A.: *See*—  
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- Arzberger, William A.: *See*—  
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- Asahi Chemical Industry Co., Ltd.: *See*—  
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- Asahi Garasu Kabirishiki Kaisha: *See*—  
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- Asahi Kasei Kogyo Kabushiki Kaisha: *See*—  
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- Asakawa, George: *See*—  
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- Asakawa, George, and S. Vernet, to Antioch College. Thermo-static elements. 2,901,908, 9-1-59, Cl. 73—368.3.
- Asay, Richard W.: *See*—  
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- Aschaffenburg Zellstoffwerke Aktiengesellschaft: *See*—  
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- Aschauer, George R., to Twin Disc Clutch Co. Tong operated friction clutch. 2,890,776, 6-16-59, Cl. 192—68.
- Aschauer, George R., to Twin Disc Clutch Co. Transmission. 2,917,951, 12-22-59, Cl. 74—732.
- Aschbacher, Erich: *See*—  
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- Aschoff, Willis A., to Oregon Metallurgical Corp. Casting furnace. 2,912,476, 11-10-59, Cl. 13—10.
- Ascoli, Enzo, to Paillard S. A. Typewriters. 2,891,650, 6-23-59, Cl. 197—17.
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- Ascoli, Enzo, and N. Schaetti, to Paillard S.A. Office machines, particularly typewriters. 2,902,131, 9-1-59, Cl. 197—17.
- Aseltine, Francis L. Windshield wiper mechanism sensitive to direction of rotation. 2,882,736, 4-21-59, Cl. 74—70.
- Asendorf, Erich, and F. Bittner, to Deutsch Gold-und Silber-Scheideanstalt vormals Roessler. Method of producing hydrocyanic acid from formamide. 2,904,400, 9-15-59, Cl. 23—151.
- Asendorf, Erich, and G. Hullen, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Measurement of cyanide concentration. 2,912,367, 11-10-59, Cl. 204—1.
- Aseptic Thermo Indicator Co.: *See*—  
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- Ash, Denis J., and R. A. Davis, to The British Tabulating Machine Co. Ltd. Printing mechanisms. 2,885,956, 5-12-59, Cl. 101—93.
- Ash, Thomas: *See*—  
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- Ashbaugh, Fred E., and P. B. Kennedy, to Boeing Airlane Co. Wave guide construction. 2,897,461, 7-28-59, Cl. 333—95.
- Ashbaugh, Lewis B., to P. Sutro, in trust. Individual shingle and roofing formed therewith. 2,867,181, 1-6-59, Cl. 108—17.
- Ashbrook, Clifford L. Telescopic sight mounting. 2,911,723, 11-10-59, Cl. 33—50.
- Ashbrook, Clifford L., and P. L. Peterschmidt, to H. T. Chamberlain, trustee. Pipe coupling device with pressure activated pipe gripping means. 2,899,217, 8-11-59, Cl. 285—103.
- Ashby, Bruce A., to General Electric Co. Preparation of phenyl alkylchlorosilanes. 2,888,478, 5-26-59, Cl. 260—448.2.
- Ashby, David G. and R. M., to Polarizers (United Kingdom) Ltd. Device for coating a photographic print. 2,908,025, 10-13-59, Cl. 15—118.
- Ashby, Ernest V. A., to Arvin Industries, Inc. Ironing table. 2,913,839, 11-24-59, Cl. 38—121.
- Ashby, George: *See*—  
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- Ashby, George S.: *See*—  
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- Ashby, Harold W.: *See*—  
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- Ashby, Robert M.: *See*—  
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- Ashcraft, William D., to North American Aviation, Inc. Stabilized servo system. 2,917,694, 12-15-59, Cl. 318—448.
- Ashcroft, Alland D. Swimming pool temperature indicator. 2,901,907, 9-1-59, Cl. 73—343.
- Ashe, Benedict H., Jr.: *See*—  
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- Ashe, John M. Treatment pad for muscular ailment. 2,909,176, 10-20-59, Cl. 128-293.
- Ashe, Thomas S., and P. Linton, to Sunvic Controls Ltd. Thermally operated electric switch devices. 2,906,839, 9-29-59, Cl. 200-138.
- Ashe, William J., 25% each to Joseph D. Carrabino, and Richard, Paul, and Jack Matoff. Tubular speaker housing. 2,905,259, 9-22-59, Cl. 181-27.
- Asheim, Bernard R., and V. K. Mayer. Self propelled mechanical parking mechanism with elevator. 2,904,197, 9-15-59, Cl. 214-95.
- Ashehurst, Robert L., and R. C. Minnick, to Bell Telephone Laboratories, Inc. Electrical circuits employing sensing wires threading magnetic core memory elements. 2,912,677, 11-10-59, Cl. 340-174.
- Ashkin, Arthur, and L. R. Walker, to Bell Telephone Laboratories, Inc. Modulated backward wave oscillator. 2,871,451, 1-27-59, Cl. 332-25.
- Ashley, Carlyle M., to Carrier Corp. Method of blanching food products. 2,870,020, 1-20-59, Cl. 99-154.
- Ashley, Carlyle M., to Carrier Corp. Air conditioning control system. 2,896,850, 7-28-59, Cl. 236-92.
- Ashley, Edward L. and J. W., and H. W. Bowker, R. H. Hall, and J. W. Kendall, to United States of America, Atomic Energy Commission. Neutron-irradiated structures. 2,872,398, 2-3-59, Cl. 204-193.2.
- Ashley, James W.: *See*—  
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- Ashley, Kenneth D., to American Cyanamid Co. Process for hydrosulfurizing crude oil in the presence of coke. 2,917,456, 12-15-59, Cl. 208-213.
- Ashley, William H. Jr.: *See*—  
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- Ashlock, Alma E.: *See*—  
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- Ashlock, George W., Jr., deceased; by A. E. Ashlock, legal representative, to George W. Ashlock Co. Cherry sorting machine. 2,903,134, 9-8-59, Cl. 209-108.
- Ashlock, George W. Co.: *See*—  
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- Ashlock, Loma E.: *See*—  
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- Ashman, Herbert W., to Keasbey & Mattison Co. Building panel units and roofs or walls made therefrom. 2,873,008, 2-10-59, Cl. 189-86.
- Ashton, Albert A., to The Youngstown Sheet and Tube Co. Hydraulically driven rotary machine. 2,891,771, 6-23-59, Cl. 255-23.
- Ashton, George H., and R. C. Mueller, to Bemis Bro. Bag Co. Apparatus for the manufacture of draw cord bags. 2,897,729, 8-4-59, Cl. 93-8.
- Ashton, Philip E., to Cuno Engineering Corp. Filter. 2,873,030, 2-10-59, Cl. 210-444.
- Ashton, Philip E., and A. W. Schnick, to The Cuno Engineering Corp. Cigar lighter. 2,895,036, 7-14-59, Cl. 219-32.
- Ashton, Robert, to Massey-Ferguson Inc. Draper-type pick-up. 2,881,580, 4-14-59, Cl. 56-364.
- Ashton, Robert, to Massey-Ferguson Inc. Harvester air intake. 2,886,016, 5-12-59, Cl. 123-41.04.
- Ashton, Robert, to Massey-Ferguson Ltd. Air intake system for harvesting machines. 2,896,594, 7-28-59, Cl. 123-41.04.
- Ashwood, Peter F., to Power Jets (Research and Development) Ltd. Aircraft having orientable jet nozzle arrangement. 2,885,159, 5-5-59, Cl. 244-12.
- Ashworth Bros. Inc.: *See*—  
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- Ashworth, Fred, to United Shoe Machinery Corp. Lock stitch shoe sewing machines. 2,896,561, 7-28-59, Cl. 112-57.
- Ashworth, Fred, and J. R. Ioannilli, to United Shoe Machinery Corp. Driving and stopping mechanisms. 2,903,114, 9-8-59, Cl. 192-146.
- Ashworth, Helen B. Convertible seat. 2,896,695, 7-28-59, Cl. 155-153.
- Ashworth, Winthrop F., to United-Carr Fastener Corp. Fastening device. 2,898,656, 8-11-59, Cl. 24-217.
- Asinger, Friedrich, M. Thiel, L. Schroder, and G. Reckling, to VEB Leuna-Werke "Walter Ulbricht." Process for the preparation of thiazoles. 2,870,158, 1-20-59, Cl. 260-302.
- Asinger, Friedrich, and M. Thiel, to VEB Leuna-Werke "Walter Ulbricht." Process for manufacture of 4,3,4-thiazolines. 2,879,273, 3-24-59, Cl. 260-306.7.
- Asinger, Friedrich, M. Thiel, and E. Pallas, to VEB Leuna-Werke "Walter Ulbricht." Process for the production of  $\alpha$ -mercaptoketones. 2,888,487, 5-26-59, Cl. 260-593.
- Ask, Emil J. Pump. 2,910,946, 11-3-59, Cl. 103-103.
- Askania Regulator Co.: *See*—  
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- Aske, Irving E. Hydraulic weighing scale. 2,886,301, 5-12-59, Cl. 265-47.
- Aske, Leonard E., to Minneapolis-Honeywell Regulator Co. Precision resistance devices. 2,868,934, 1-13-59, Cl. 201-63.
- Aske, Leonard E., to Minneapolis-Honeywell Regulator Co. Magnetic switch. 2,900,471, 8-18-59, Cl. 200-87.
- Askins, William J., and H. R. Chapin, to Sears, Roebuck and Co. Spinning type fishing reel. 2,901,193, 8-25-59, Cl. 242-84.21.
- Asmann, Leonard S.: *See*—  
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- Aspegren, Olof E. A., to The Oil Shale Corp. Heat-treatment of piece-shaped material. 2,872,386, 2-3-59, Cl. 202-136.
- Aspegren, Olof E. A., to The Oil Shale Corp. Method for the reduction of oxides. 2,877,106, 3-10-59, Cl. 75-34.
- Aspelin, Leslie L., and J. F. Murray, to Thompson Products, Inc. Pressure loaded gear pump. 2,876,705, 3-10-59, Cl. 103-126.
- Aspelin, Leslie L., J. F. Murray, and D. L. Lorenz, to Thompson Ramo Wooldridge Inc. Lubricated pump construction. 2,887,058, 5-19-59, Cl. 103-4.
- Aspelin, Leslie L., to Thompson Ramo Wooldridge Inc. Pump. 2,887,063, 5-19-59, Cl. 103-126.
- Aspergren, Brooke D., and R. B. Moffett, to The Upjohn Co. Quaternary ammonium salts of 2,2-diphenyl-4,4-dimethyl-4-pyrrolidino-butyramide. 2,886,574, 5-12-59, Cl. 260-326.3.
- Aspergren, Brooke D., and R. B. Moffett, to The Upjohn Co. Lower alkyl quaternary ammonium salts of 2,2,4-trimethyl- $\alpha$ -diphenyl-1-pyrrolidino-butyramide. 2,891,071, 6-16-59, Cl. 260-326.3.
- Aspergren, Brooke D., and R. B. Moffett, to The Upjohn Co. Organic compounds. 2,894,955, 7-14-59, Cl. 260-313.
- Aspergren, Brooke D., and R. B. Moffett, to The Upjohn Co.  $\omega$ (2,6-dimethyl piperidine-1)- $\alpha$ , $\alpha$ -diphenyl butyramides. 2,895,957, 7-21-59, Cl. 260-294.
- Aspes, Pinchas E. Holder for smoking pipes. 2,881,492, 4-14-59, Cl. 24-3.
- Aspinwall, John E.: *See*—  
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- Asplin, James G., to Wisconsin Alumni Research Foundation. Mortar and pestle. 2,903,198, 9-8-59, Cl. 241-199.
- Asplund, Arne J. A., to Aktiebolaget Defibrator. Grinding apparatus for fibrous materials. 2,891,733, 6-23-59, Cl. 241-256.
- Asseff, Peter A., to The Lubrizol Corp. Beta hydroxy phosphinothioic esters and method of preparing same. 2,895,983, 7-21-59, Cl. 260-461.
- Aselin, Leonard J., Sr. Rolled tube. 2,884,958, 5-5-59, Cl. 138-74.
- Assembly Products, Inc.: *See*—  
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- Associated Box Corp.: *See*—  
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- Associated British Oil Engines Ltd.: *See*—  
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- Associated Engineering & Equipment Co., Inc.: *See*—  
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- Associated Ethyl Co. Ltd., The: *See*—  
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- Associated Portland Cement Manufacturers Ltd., The: *See*—  
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- Associated Spring Corp.: *See*—  
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- Association des Ouvriers en Instruments de Precision: *See*—  
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Richard-Foy, Robert M. P. O. 2,884,533.
- Association en Participation pour le Developpement du Pyrotenax Aux U.S.A.: *See*—  
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- Association for Physiologic Research, Inc.: *See*—  
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Mahon, Thomas J., and Edelstein. 2,895,651.
- Ast, Herbert J.: *See*—  
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- Asta-Werke Aktiengesellschaft Chemische Fabrik: *See*—  
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- Astatic Corp., The: *See*—  
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- Asten, William P. Apparatus for maintaining constant the vibration frequency of a tuning fork. 2,874,602, 2-24-59, Cl. 84-409.
- Aszheimer, Robert W., and E. M. Wormser, to Barnes Engineering Co. Image transducer. 2,895,049, 7-14-59, Cl. 250-65.
- Astin, Allen V., to United States of America, Navy. Telemetering transmitter for a projectile. 2,877,452, 3-10-59, Cl. 340-208.
- Astley, Eugene R.: *See*—  
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- Aston, Blaine S.: *See*—  
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- Aston, Earl F., to United States Steel Corp. Cutting tool for a trepan core. 2,870,838, 1-27-59, Cl. 164-60.
- Aston, Melvin E.: *See*—  
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- Astra Pharmaceutical Products, Inc.: *See*—  
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- Astrahan, Morton M.: *See*—  
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- Atalla, Martin M., E. J. Scheibner, and E. Tannenbaum, to Bell Telephone Laboratories, Inc. Fabrication of semiconductor devices having stable surface characteristics. 2,899,344, 8-11-59, Cl. 148—15.
- Atchison, Leonard W., to General Electric Co. Room air conditioner condensated disposal means. 2,869,334, 1-20-59, Cl. 62—280.
- Atchison, Leonard W., to General Electric Co. Self-contained heating and cooling apparatus. 2,878,657, 3-24-59, Cl. 62—325.
- Atchison, Leonard W., to General Electric Co. Refrigerant control means. 2,896,422, 7-28-59, Cl. 62—197.
- Atchley, Oscar J. Calf feeder. 2,905,143, 9-22-59, Cl. 119—71.
- Atchley, Raymond D., to Raymond Atchley, Inc. Servomechanism. 2,884,906, 5-5-59, Cl. 121—41.
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- Atchley, Raymond D., to Raymond Atchley, Inc. Torque motor. 2,891,181, 6-16-59, Cl. 310—36.
- Atchley, Raymond D., and W. E. Harrison, to Midwestern Geophysical Laboratory. Magnetic assembly having galvanometers provided with adjustable locks. 2,873,429, 2-10-59, Cl. 324—154.
- Atchley, Raymond, Inc.: *See*—  
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- Aten, Ralph W., to Admiral Corp. Hinge clip. 2,917,040, 12-15-59, Cl. 126—194.
- Aterno, Joseph P., H. G. Luther, G. E. Hawley, and E. M. Sacchi, to Chas. Pfizer & Co., Inc. Method of treating bovine mastitis. 2,908,609, 10-13-59, Cl. 167—53.2.
- Athena Industries, Inc.: *See*—  
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- Athens Flooring Co., The: *See*—  
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- Atherton, Frank R., to Hoffmann-La Roche Inc. Process for the manufacture of pantothenic acid 4'-phosphate and its salts. 2,870,188, 1-20-59, Cl. 260—461.
- Atherton, Frank R., to Hoffmann-La Roche Inc. 2-carbamyl-phenyl phosphoric acid and salts thereof. 2,915,547, 12-1-59, Cl. 260—461.
- Atherton, William A. Paint can attachment. 2,873,052, 2-10-59, Cl. 222—570.
- Athy Products Corp.: *See*—  
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- Atiyeh, Larry: *See*—  
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- Atkeson, Florian V., to Pittsburgh Plate Glass Co. Apparatus for treating glass. 2,917,871, 12-22-59, Cl. 49—45.
- Atkin, Rupert L.: *See*—  
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- Atkin, Rupert L., to Kelsey-Hayes Co. Tire rim. 2,884,280, 4-28-59, Cl. 301—10.
- Atkin, Sydney, to Chemical Construction Corp. Production of concentrated superphosphate fertilizers. 2,869,997, 1-20-59, Cl. 71—40.
- Atkin, Sydney, and S. S. Prince, to Chemical Construction Corp. Phosphoric acid concentration. 2,905,535, 9-22-59, Cl. 23—165.
- Atkins, Carl E., and E. G. Matkins. Automatic headlight dimming system. 2,904,699, 9-15-59, Cl. 250—214.
- Atkins, Don C., Jr., and R. V. Edds, to Turco Products, Inc. Process of chemical etching. 2,888,335, 5-26-58, Cl. 41—43.
- Atkins, Henry M. Pipe and support. 2,906,271, 9-29-59, Cl. 131—186.
- Atkins, Herbert A., to County Laboratories Ltd. Viscous fluid dispenser. 2,915,225, 12-1-59, Cl. 222—320.
- Atkins, James: *See*—  
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- Atkins, T. B.: *See*—  
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- Atkinson, Archie C., Jr.: *See*—  
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Atkinson, Archie C., Sr., and A. C. Atkinson, Jr. Crop duster. 2,881,555, 4-14-59, Cl. 43—148.
- Atkinson Bulk Transport Co.: *See*—  
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- Atkinson, Donald L., and L. E. Currison, to Lear, Inc. Gyroscope. 2,898,765, 8-11-59, Cl. 74—5.
- Atkinson, Earl B., to The Madison Equipment Co. Device for holding switch boxes and outlet boxes to wall surfaces. 2,917,917, 12-22-59, Cl. 72—105.
- Atkinson, Frederick M., to Atkinson Bulk Transport Co. Pulverulent material conveying apparatus. 2,890,914, 6-16-59, Cl. 302—49.
- Atkinson, Guy F., Co.: *See*—  
Meyer, Alfred W., Roork, and Deardorff. 2,902,940.  
Spencer, Donald B. 2,894,739.
- Atkinson, James T. N., to Her Majesty the Queen, in the right of Canada, as represented by the Minister of National Defense. Method of electroplating copper on aluminum. 2,871,171, 1-27-59, Cl. 204—33.
- Atkinson, James T. N., to Her Majesty the Queen, in the right of Canada, as represented by the Minister of National Defense. Electro-plating of metals. 2,871,172, 1-27-59, Cl. 204—52.
- Atkinson, Lawrence F.: *See*—  
Rockland, Louis B., and Atkinson. 2,875,070.  
Rockland, Louis B., and Atkinson. 2,889,673.
- Atkinson, Peter D.: *See*—  
Drewe, John, and Atkinson. 2,899,568.
- Atkinson, Ralph B., and S. G. Ellis; said Ellis assor. to said Atkinson. Variable area magnetic recording apparatus. 2,897,286, 7-28-59, Cl. 179—100.2.
- Atkinson, Ralph B., and S. G. Ellis; said Ellis assor. to said Atkinson. Recorder for producing ferrographic images. 2,901,309, 8-25-59, Cl. 346—74.
- Atkinson, Reid G., to American Can Co. Container with improved side seam. 2,893,592, 7-7-59, Cl. 220—77.
- Atkinson, Russell H., to Westinghouse Electric Corp. Method for lamp manufacture. 2,913,297, 11-17-59, Cl. 316—25.
- Atkinson, Wallace E., to Long Mfg. Co., Inc. Luggage lock. 2,912,844, 11-17-59, Cl. 70—75.
- Atkinson, William G., to Somerville Ltd. Egg carton closer. 2,877,610, 3-17-59, Cl. 53—38.
- Atkinson, William J.,  $\frac{1}{2}$  to J. M. Saba. Doorway template. 2,867,911, 1-13-59, Cl. 33—194.
- Atkron, Inc.: *See*—  
Copping, Bruce G. 2,915,868.  
Copping, Bruce G. 2,916,133.
- Atlantic Chemical & Equipment Co.: *See*—  
Fletcher, Fred E., and M. W. 2,919,178.
- Atlantic Industries, Inc.: *See*—  
Matthews, Russell R. 2,876,141.
- Atlantic Machine Tool Works, Inc.: *See*—  
Budney, Michael P., H. S. and T. W., and Saczawa. 2,905,027.  
Budney, Michael P., H. S. and T. W., and Saczawa. 2,911,885.
- Atlantic Plastics Co., Inc.: *See*—  
Rostau, Morris. 2,907,618.
- Atlantic Products Corp.: *See*—  
Cart, Theodore S. 2,867,257.
- Atlantic Refining Co., The: *See*—  
Campbell, William M. 2,884,589.  
Connor, James E., Jr., and Shipley. 2,884,374.  
Kremer, Charles J. 2,886,542.  
McGrogan, John F. 2,870,089.  
Scott, J. O. 2,867,584.
- Slobod, Robert L., Dunlap, and Moore. 2,918,579.
- Stiff, Henry A., Jr., and Davis. 2,875,836.
- Thompson, Kenneth M. 2,875,257.
- Youngman, Carl A. 2,883,856.
- Atlantic Research Corp.: *See*—  
Sloan, Arthur W., and Mann. 2,891,054.  
Sloan, Arthur W., and Mann. 2,891,055.  
Stewart, William D., Pondexter, and Wachtel. 2,915,519.
- Atlantic Service Co., Inc.: *See*—  
Williams, Clarence R. 2,916,069.
- Atlantic Steel Co.: *See*—  
Teepie, Frank A., Jr. 2,867,872.
- Atlas Bolt & Co., The: *See*—  
Bourassa, Hugues. 2,871,005.
- Atlas Copco Aktiebolag: *See*—  
Ekström, Gösta I., and Löwenborg. 2,900,959.  
Holdo, Jan K. 2,896,580.  
Ryd, Sven E. 2,910,901.
- Atlas, David. Device to discretely characterize levels of signal intensity in radar mapping and computer displays. 2,911,640, 11-3-59, Cl. 343—11.
- Atlas Enameling Co., Inc.: *See*—  
Baker, Macon. 2,867,305.
- Atlas Laboratories, Inc.: *See*—  
Feo, Edmond G., Feldman, and Goetz. 2,895,829.
- Atlas Pipe, Inc.: *See*—  
Gresham, William C., and Cochran. 2,886,772.
- Atlas Powder Co.: *See*—  
Baer, Byron N., Brandner, and Le Maistre. 2,875,078.  
Baer, Byron N., Brandner, and Le Maistre. 2,876,124.  
Brandner, John D., and Hunter. 2,889,297.  
Lutz, Earle R., and Sheffield. 2,898,817.  
Velde, Hermann, and Linke. 2,913,372.  
Wilt, Paul E., III, and Young. 2,883,414.  
Woods, George E. 2,909,540.  
Zech, John D. 2,868,724.  
Zech, John D. 2,913,452.
- Atlas Press Co.: *See*—  
Cole, Clayton K. 2,868,034.  
Smith, Edwin W., and Van Dam. 2,886,250.
- Atlas Scraper and Engineering Co.: *See*—  
Chandler, Roy L., and Ogle. 2,882,979.  
Chandler, Roy L., and Ogle. 2,883,773.
- Atlas Werke Akt.: *See*—  
Kietz, Hans. 2,883,642.  
Kunze, Willy. 2,891,243.
- Atlee, Zed J., to Dunlee Corp. Stabilized X-ray generator. 2,919,362, 12-29-59, Cl. 313—55.



- Atomic Energy of Canada Ltd.: *See*—  
Howell, William D. 2,903,524.  
Potvin, Roger J. A., Lavigne, and Laberge. 2,915,417.  
Sage, Roy D. 2,883,145.
- Attenborough, Walter B. A. Knitted fabrics or articles. 2,899,812, 8-18-59, Cl. 66—169.
- Atteridge, Paul T., to The M. W. Kellogg Co. Sulfuric acid purification. 2,881,058, 4-7-59, Cl. 23—295.
- Atti, Eros, to Westinghouse Electric Corp. Image display system. 2,905,855, 9-22-59, Cl. 315—26.
- Atti, Eros, to Westinghouse Electric Corp. Cathode ray tube apparatus. 2,915,673, 12-1-59, Cl. 315—29.
- Atti, Eros, and J. A. Hall, to Westinghouse Electric Corp. Electrostatic lens and deflection system. 2,911,563, 11-3-59, Cl. 315—17.
- Attkins, John K., to United Aircraft Corp. Porous resin composition and method of using and preparing same. 2,895,173, 7-21-59, Cl. 18—59.
- Attinello, John S. Aircraft high lift supercirculation system using supersonic blowing. 2,868,480, 1-13-59, Cl. 244—42.
- Attinello, John S. Boundary layer control system for aircraft. 2,890,843, 6-16-59, Cl. 244—42.
- Attinello, John S. Aerodynamic air brake and lift spoiler for aircraft. 2,896,881, 7-28-59, Cl. 244—42.
- Atkins, Roy, to Imperial Chemical Industries Ltd. Method and apparatus for the manufacture of continuous consumable electrodes. 2,877,492, 3-17-59, Cl. 18—5.
- Atton, Robert A. Fishing float. 2,881,551, 4-14-59, Cl. 43—44.9.
- Attwell, James F. Spray nozzle. 2,874,995, 2-24-59, Cl. 299—129.
- Attwood, Charles E., to Acme Visible Records, Inc. Record card cabinet having movable card-carrying drawers. 2,901,308, 8-25-59, Cl. 312—303.
- Attwood, Charles W. Diffused lighting means. 2,910,574, 10-27-59, Cl. 240—9.
- Atwater, Norman W.: *See*—  
Colton, Frank B., and Atwater. 2,891,078.
- Atwater, William M., and P. B. McCoy. Fowl transporter. 2,896,996, 7-28-59, Cl. 296—3.
- Atwell, Harold V., to The Texas Co. Process for the production of carbon monoxide from a solid fuel. 2,879,148, 3-24-59, Cl. 43—206.
- Atwell, Locke P., J. F. Elwell, and G. E. Spaulding, Jr. Spark plug having protruding tip. 2,899,479, 8-11-59, Cl. 123—169.
- Atwood, Arthur E. Collapsible stretcher. 2,880,427, 4-7-59, Cl. 5—82.
- Atwood, Harold T. Rod support structure. 2,902,243, 9-1-59, Cl. 248—263.
- Atwood, Hyatt B., to Herr Mfg. Co., Inc. Lubrication of spinning rings. 2,867,976, 1-6-59, Cl. 57—120.
- Atwood, John G., to The Perkin-Elmer Corp. Mechanically damped servomotor system. 2,888,623, 5-26-59, Cl. 318—448.
- Atwood, Kingston E.: *See*—  
Kroll, Alvin F., Atwood, and Mehle. 2,886,051.
- Atwood, Mark T.: *See*—  
Bachman, Gustave B., and Atwood. 2,880,245.
- Atwood, Rawson, and C. C. L'Allemand, to Decorated Metal Mfg. Co., Inc. Insulated wire spool. 2,881,987, 4-14-59, Cl. 242—118.61.
- Atwood, Rawson, and C. C. L'Allemand, to Decorated Metal Mfg. Co., Inc. Textile spool end. 2,883,124, 4-21-59, Cl. 242—118.3.
- Atwood Vacuum Machine Co.: *See*—  
Dall, Edward D. 2,886,362.  
Dall, Edward D. 2,917,916.  
Lustig, Walter R. 2,890,476.
- Ring, Harold H., Shrode, Clay, and McCleary. 2,888,734.
- Auber, Edwin H. Shoe heel. 2,878,595, 3-24-59, Cl. 36—36.
- Aubert, Fred B. Flame sensing circuit. 2,870,329, 1-20-59, Cl. 250—27.
- Aubert, Fred B. Safety controls for gas-fired industrial burners. 2,903,052, 9-8-59, Cl. 158—125.
- Aubin, Claude, to Societe d'Etude et D'Application Industrielle de Brevets (S.E.A.B.). Automatic machine for packing liquid or other products. 2,917,879, 12-22-59, Cl. 53—77.
- Aubry, Fernand: *See*—  
Lefranc, Felix R. 2,898,050.
- Auch, Ernest M., to Holley Carburetor Co. Valve construction. 2,916,045, 12-8-59, Cl. 137—449.
- Auchard, Dwight M. Hammer guard. 2,878,476, 3-24-59, Cl. 1—260.
- Audas, Francis G., to The British Rayon Research Assn. Process utilizing fluidized beds in the dyeing of fabrics, yarns and the like. 2,901,312, 8-25-59, Cl. 8—151.
- Audemar, Pierre, to Societe Alsacienne de Constructions Mecaniques. Selective fluid-distributing device. 2,889,851, 6-9-59, Cl. 137—622.
- Auden, Isabelle H.: *See*—  
Ericson, Charles G. 2,884,199.
- Audette, Benjamin J. Frames for vehicle license plates or the like. 2,869,261, 1-20-59, Cl. 40—125.
- Audette, Benjamin J., to Benmatt Industries, Inc. License plate bracket. 2,914,285, 11-24-59, Cl. 248—226.
- Audette, Richard R. Hose coupling with wedge hose gripping means. 2,880,020, 3-31-59, Cl. 285—255.
- Audio Devices, Inc.: *See*—  
Speed, William C., and Sutheim. 2,900,236.  
Speed, William C., and Sutheim. 2,900,239.
- Auditors, Grace. Foldable shopping bag. 2,871,900, 2-3-59, Cl. 150—1.7.
- Audrieth, Ludwig F., to Victor Chemical Works. Methods of making clay products and improved clay products. 2,880,099, 3-31-59, Cl. 106—73.
- Audsey, Alma G. Support for tiered cakes. 2,902,174, 9-1-59, Cl. 211—141.
- Auer, Frederick G., to Champlain Co., Inc. Stripper mechanism. 2,899,871, 8-18-59, Cl. 93—36.
- Auer, John H., Jr., C. S. Wilcox, and M. E. Hoff, Jr., to General Railway Signal Co. Electronic track circuit for railroads. 2,896,068, 7-21-59, Cl. 246—34.
- Auer, Laszlo, to J. R. Geigy, S.A. Clear and pigmented multi-component oil-in-water resin emulsion textile decorating compositions and process for preparing same. 2,907,720, 10-6-59, Cl. 260—6.
- Auer, Laszlo, to J. R. Geigy, S.A. Clear and pigmented oil-in-water resin emulsions containing pentaerythritol alkyl resins. 2,907,721, 10-6-59, Cl. 260—7.5.
- Auer, Laszlo, and L. L. Balassa, to J. R. Geigy, S.A. Pigmented oil-in-water emulsion textile decorating compositions yielding improved resistance to abrasive laundering. 2,900,354, 8-18-59, Cl. 260—21.
- Auer, Otis N. Sectional cabinet. 2,902,328, 9-1-59, Cl. 312—108.
- Auer, Willem U., H. Groothuis, W. P. Hendal, and J. Vink, to Shell Development Co. Preventing condensation inside a vortex tube. 2,894,371, 7-14-59, Cl. 62—5.
- Auerbach, Abraham E., to Leon Fine & Associates. Electromagnetically operated typewriter. 2,875,879, 3-3-59, Cl. 197—14.
- Auerbach, Albert A.: *See*—  
Shaw, Robert F., and Auerbach. 2,902,675.
- Auerbach, Albert A., to United States of America, Air Force. Pulse circuitry stabilization. 2,897,265, 7-28-59, Cl. 178—7.1.
- Auerbach, Albert A., to Underwood Corp. Amplifier circuit. 2,898,457, 8-4-59, Cl. 250—27.
- Auerbach, Albert A., M. Minkow, and E. D. Schreiner, to Underwood Corp. Signal apparatus. 2,902,686, 9-1-59, Cl. 340—345.
- Auerbach, Herbert M. Process of preparing a floating fish food. 2,904,436, 9-15-59, Cl. 99—3.
- Auerbach, Victor, and A. K. Ingbermann, to Union Carbide Corp. Curable glycidyl polyether-polyamine compositions. 2,901,461, 8-25-59, Cl. 260—47.
- Augeard, Jean M. M. Charging apparatus for blast furnace. 2,897,984, 8-4-59, Cl. 214—35.
- Augenstein, Karl C., to Speidel Corp. Ornamental link for telescoping expandable linkage. 2,889,681, 6-9-59, Cl. 59—82.
- Augenstein, Karl C., and P. Levinger, said Augenstein assor. to Speidel Corp. Expandable self retracting linkage. 2,901,895, 9-1-59, Cl. 63—5.
- Auger, Charles J.: *See*—  
Zademach, Erich R., Auger, and Lans. 2,867,225.
- Augereau, Gaston G. E. Seal for axle boxes. 2,890,068, 6-9-59, Cl. 286—3.
- Augery, Jean, and F. Bouisset, to Societe Anonyme dite: "La Charfa." Paper-gumming machines. 2,868,157, 1-13-59, Cl. 118—8.
- Augier de Creimers, Bernard, to Societe d'Applications Generales d'Electricite et de Mecanique S.A.G.E.M. Gyroscopic apparatus. 2,912,865, 11-17-59, Cl. 74—5.34.
- Augsburger, Herbert M., to Owens-Illinois Glass Co. Means of controlling electric currents in a furnace forehearth. 2,919,297, 12-29-59, Cl. 13—6.
- August Thyssen-Huette Akt., and Dortmund-Hoerder Huettenuktion Akt.: *See*—  
Muller, Wilhelm, Kornfeld, and Becker. 2,891,294.
- Augustin, Darold A., to Bendix-Westinghouse Automotive Air Brake Co. Compressor valve structure. 2,908,287, 10-13-59, Cl. 137—525.3.
- Augustin, Herbert, to Industrialtiebolaget Luxor. Magnetic head comprising a core of ferrite. 2,911,481, 11-3-59, Cl. 179—100.2.
- Augustin, Jean, to Societe Franterre. Rubber composition and activated filler for use therein. 2,919,260, 12-29-59, Cl. 260—41.5.
- Augustin, Johann, and O. Holstein, to International Standard Electric Corp. Receiving system for telegraph signals. 2,911,471, 11-3-59, Cl. 178—26.
- Augustine, Alfred: *See*—  
Morton, William A., and Augustine. 2,869,627.
- Augustine, Frank, and A. D. Schwoppe, to Clevite Corp. Quartz crystal. 2,871,192, 1-27-59, Cl. 252—62.9.
- Auken Chemical & Film Corp.: *See*—  
Van Dam, Max. 2,897,090.
- Auliffe, Frank C., and J. Durtal, to Powers-Samas Accounting Machines Ltd. Record card controlled mechanism. 2,876,888, 3-10-59, Cl. 198—38.
- Ault, Cyrus F., to Allen B. Du Mont Laboratories, Inc. Electric circuit. 2,888,634, 5-26-59, Cl. 323—29.
- Ault, Cyrus F., to Allen B. Du Mont Laboratories, Inc. Distributed amplifiers. 2,904,646, 9-15-59, Cl. 179—171.
- Ault, Cyrus F., to Bell Telephone Laboratories, Inc. Electron beam control system. 2,904,721, 9-15-59, Cl. 315—8.5.



- Ault, Neil N., to Norton Co. Zirconia rods for coating articles by flame spraying. 2,876,121, 3-3-59, Cl. 106-57.
- Ault, Neil N., to Norton Co. Alumina rods for coating articles. 2,882,174, 4-14-59, Cl. 106-67.
- Ault, Waldo C., and R. O. Feuge, to United States of America, Agriculture, Monoglyceride diacetates. 2,895,966, 7-21-59, Cl. 260-348.
- Auman, Reiner J., and A. Meyerhoff, to Kerns Mfg. Corp. Spiral rake compensator for cutter grinding machines. 2,891,358, 6-23-59, Cl. 51-100.
- Aumann, Mark D., to Townsend Engineered Products Inc. Flexible conveyor chute. 2,890,779, 6-16-59, Cl. 193-25.
- Aumuller, Edward F., to Sperry Rand Corp. Compensated gyroscope. 2,880,616, 4-7-59, Cl. 74-5.7.
- Aumuller, Walter: *See*—  
Ehnhart, Gustav, Ruschig, Aumuller, Stein, and Ther. 2,912,460.  
Ruschig, Heinrich, and Aumüller. 2,904,586.  
Ruschig, Heinrich, Wagner, Aumuller, Korger, Scholz, and Bander. 2,891,960.
- Anne, Alan E., to Burndy Corp. Shielded and coaxial cable connection. 2,889,394, 6-2-59, Cl. 174-88.
- Auphan, Michel, to Societe Generale d'Electronique. Method of forming a film a short distance from a surface. 2,906,637, 9-29-59, Cl. 117-5.5.
- Auphan, Michel, to Societe Generale d'Electronique. Arrangement for projecting televised images on to a large screen. 2,910,532, 10-27-59, Cl. 178-7.5.
- Aurell, Carl G. P., to Telefonaktiebolaget L M Ericsson. Device for indicating the presence of a pulse group with certain determined time intervals between the pulses included therein. 2,909,657, 10-20-59, Cl. 250-27.
- Aurell, Carl G. P., and S. E. Warring, to Telefonaktiebolaget L M Ericsson. Pulse intervals indicating device. 2,888,559, 5-26-59, Cl. 250-27.
- Aurin, Bruno: *See*—  
Thomas, Ernst, and Aurin. 2,913,808.
- Aurora Equipment Co.: *See*—  
Dunham, Thomas M. 2,884,139.  
Sitler, Richard W. 2,887,193.  
Sitler, Richard W. 2,888,160.  
Sitler, Richard W. 2,897,997.
- Aurora Steel Products Co.: *See*—  
Fohn, Jack E. 2,875,604.
- Auscher, Daniel Y. Drawing pen having a device for feeding a writing liquid to the nibs thereof. 2,889,809, 6-9-59, Cl. 120-42.6.
- Aust, John J.: *See*—  
Welshenbach, Charles D., and Aust. 2,878,984.
- Aust, Paul C., to Food Machinery and Chemical Corp. Apparatus for filling powdered or granular materials into containers. 2,905,362, 9-22-59, Cl. 222-56.
- Austalt fur die Entwicklung von Erfindungen und Gewerblichen Anwendungen Energa: *See*—  
Brandt, Edgar W. 2,910,000.
- Austen, Herman E., to The National Cash Register Co. Method of making magnetic data storage devices. 2,877,540, 3-17-59, Cl. 29-155.5.
- Austen, Herman E., to The National Cash Register Co. Magnetic data storage devices. 2,878,463, 3-17-59, Cl. 340-174.
- Austin, Abraham L. Collapsible combination bench and table. 2,897,876, 8-4-59, Cl. 155-43.
- Austin, Bascum O., to Westinghouse Electric Corp. Circuit interrupter. 2,913,550, 11-17-59, Cl. 200-98.
- Austin, Charles G., and G. A. Hartung, to Federated Industries Inc. Golf putting practice device. 2,908,503, 10-13-59, Cl. 273-179.
- Austin, Chester R., and R. F. Rinesch; said Austin assor. to Henry J. Kaiser Co. and said Rinesch assor. to Vereinigte Oesterreichische Eisenund Stahlwerke Akt. Metallurgical process. 2,892,699, 6-30-59, Cl. 75-45.
- Austin Co., The: *See*—  
Poole, Joseph R. 2,901,170.
- Austin, Dwight E. Vehicle seat. 2,869,615, 1-20-59, Cl. 155-97.
- Austin, Eldon G. Rotary-cutter attachment for portable chainsaw motor. 2,898,959, 8-11-59, Cl. 144-208.
- Austin, Eldon G., to Molalla Mfg. Co. Routing apparatus. 2,898,960, 8-11-59, Cl. 144-208.
- Austin, Eli H.: *See*—  
Austin, Enoch W. 2,893,521.
- Austin, Emmett K., Jr., and R. T. Reid, to James Lees and Sons Co. Variable twist yarn forming apparatus. 2,876,616, 3-10-59, Cl. 57-91.
- Austin, Enoch W., 50% to E. H. Austin. Sleeve joint. 2,893,521, 7-7-59, Cl. 189-19.
- Austin, Fannie B. Colostomy dressing. 2,896,625, 7-28-59, Cl. 128-283.
- Austin, Harold A., to The Brundage Co. Support structure for a blower housing. 2,912,195, 11-10-59, Cl. 248-23.
- Austin, Harold A., and A. M. Waldo, to Brundage Co. Fixture for assembling blower wheels. 2,914,316, 11-24-59, Cl. 269-109.
- Austin, Harry G., Sr.: *See*—  
Mizell, Floyd M., and Austin. 2,911,372.
- Austin, Harry W., and R. R. Hornickel, to Mine Safety Appliances Co. Energy absorption device. 2,910,702, 11-3-59, Cl. 2-3.
- Austin Hoy and Co. Ltd.: *See*—  
Proctor, Sidney E. 2,872,826.  
Proctor, Sidney E. 2,877,006.  
Proctor, Sidney E. 2,893,714.
- Austin, James A., to Association en Participation pour le Developpement du Pyrotenax Aux U.S.A. Manufacture of electric cables or other insulated electric conductors. 2,884,660, 5-5-59, Cl. 18-5.
- Austin, James M. Razor blade magazines and blade changers. 2,874,461, 2-24-59, Cl. 30-40.
- Austin, John L. Support for reinforcing steel for concrete structures. 2,911,819, 11-10-59, Cl. 72-122.
- Austin, John R., Sr. Log handling apparatus. 2,903,803, 9-15-59, Cl. 37-117.5.
- Austin, Leonard E., and A. K. Brown, Jr., to Bendix Aviation Corp. Brake mechanism. 2,880,824, 4-7-59, Cl. 188-78.
- Austin, Leonard E., A. K. Brown, Jr., and J. H. Ettinger, to Bendix Aviation Corp. Unloader mechanism. 2,885,063, 5-5-59, Cl. 198-177.
- Austin, Leonard E., to Bendix Aviation Corp. Power-operated torque wrench. 2,887,920, 5-26-59, Cl. 81-52.4.
- Austin, Leonard E., and J. H. Ettinger, to Bendix Aviation Corp. Fluid pressure motor. 2,893,354, 7-7-59, Cl. 121-38.
- Austin, Leonard E., A. K. Brown, Jr., and J. H. Ettinger, to Bendix Aviation Corp. Loader mechanism. 2,918,164, 12-22-59, Cl. 198-177.
- Austin, Mary I. Doll with disposable hand and foot members. 2,896,372, 7-28-59, Cl. 46-157.
- Austin Motor Co. Ltd.: *See*—  
Dangerfield, Kenneth J. 2,900,126.  
Horwood, Norman. 2,873,104.  
Horwood, Norman. 2,886,944.  
Issigonis, Alexander A. 2,913,927.  
Rajan, Ramon. 2,904,358.  
Weaving, John H., and Stuart. 2,869,397.
- Austin, Robert B., R. V. Pierce, and J. S. Wright. Material handling apparatus. 2,873,866, 2-17-59, Cl. 214-41.
- Austin, Walter R. Lawn conditioning tool. 2,874,657, 2-24-59, Cl. 111-7.1.
- Austland Ltd.: *See*—  
Dowie, David L. 2,867,426.
- Austral Products Corp.: *See*—  
Dallen, Robert D. 2,872,744.
- Australia, Commonwealth of, Crown Solicitor's Office: *See*—  
Cumming, Ronald W., and Green. 2,918,869.
- Australian Paper Manufacturers Ltd.: *See*—  
Donaldson, Godfrey R. 2,878,570.
- Austrow, Harold W., D. May, Jr., O. A. Neumann, and E. M. Szten, to Borg-Warner Corp. Cable reel handling apparatus. 2,876,916, 3-10-59, Cl. 214-77.
- Autem, Fred, to Textile Machine Works. Transfer applying machine. 2,880,538, 4-7-59, Cl. 41-1.
- Autem, Fred, to Textile Machine Works. Hosiery inspecting apparatus. 2,883,093, 4-21-59, Cl. 223-77.
- Auten, Howard L. Garment hanger. 2,910,215, 10-27-59, Cl. 223-98.
- Autenrieth, Hans, to Verkaufsgemeinschaft Deutscher Kaliwerke G.m.b.H. Process for the production of potassium and magnesium sulfate double salts. 2,881,050, 4-7-59, Cl. 23-117.
- Autere, Reuben J.: *See*—  
Willcox, Frederick P., Welanetz, Autere, and Hellen. 2,875,275.
- Authier, Roger A. Outdoor fireplace. 2,897,811, 8-4-59, Cl. 126-9.
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- Auto-Flo Corp.: *See*—  
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- Auto Research Corp.: *See*—  
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 Barsky, George, and Babayan. 2,914,546.  
 Barsky, George, Babayan, and Bahoshy. 2,898,211.
- Babb, David D.: *See*—  
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- Babb, Elbert G., Jr.: *See*—  
 Brant, Archie G. 2,877,597.
- Babb, James F.: *See*—  
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- Babbitt, Bernard R., and C. B. Kunz, to Manganese Chemicals Corp. Apparatus for reducing ferruginous ores containing substantial amounts of manganese. 2,880,988, 4-7-59, Cl. 266-27.
- Babbitt, Seth M., to Eclipse Counterbore Co. Method of making fluted cutting tools. 2,889,669, 6-9-59, Cl. 51-288.
- Babcock, Dale F.: *See*—  
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- Babcock, Dean F.: *See*—  
 Doelz, Melvin L., and Babcock. 2,905,812.
- Babcock, Dean F., to Collins Radio Co. Matrix-controlled phase-pulse generator. 2,870,431, 1-20-59, Cl. 340-170.
- Babcock, Donald E.: *See*—  
 Smith, Rollin P., and Babcock. 2,877,108.
- Babcock, George, Jr., and G. K. Hawkins, to Schering Corp. Topical anti-inflammatory compositions. 2,890,152, 6-9-59, Cl. 167-65.
- Babcock, Gilbert A.: *See*—  
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- Babcock, Gordon M., R. H. Frederick, and F. B. Rethwisch, to Reynolds Metals Co. Stabilized vehicles for rust inhibitive aluminum coatings. 2,903,435, 9-8-59, Cl. 260-21.
- Babcock, Gordon M., F. B. Rethwisch, and W. P. Woosley, to Reynolds Metals Co. Stabilized vehicles for leafing aluminum coatings. 2,904,525, 9-15-59, Cl. 260-21.
- Babcock, John C.: *See*—  
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 Pederson, Raymond L., Herr, Babcock, Campbell, and Hogg. 2,867,630.
- Babcock, John C., to The Upjohn Co. 11-oxygenated 17 $\alpha$ -21-dihydroxyallapregnan-20-one and esters thereof. 2,868,808, 1-13-59, Cl. 260-397.1.
- Babcock, John C., to The Upjohn Co. Mineral acid salts of pregnane-3,11,20-trione 3-enamines. 2,884,416, 4-28-59, Cl. 260-239.5.
- Babcock, John C., and A. C. Ott, to The Upjohn Co. 3-deoxy-11,17-oxygenated-androstanes. 2,881,183, 4-7-59, Cl. 260-397.3.
- Babcock, John C., J. A. Hogg, and R. L. Pederson, to The Upjohn Co. 2,17-di-lower alkyl-testosterones. 2,883,401, 4-21-59, Cl. 260-397.45.
- Babcock, John C., J. A. Campbell, and J. A. Hogg, to The Upjohn Co. 6-fluoro steroids and intermediates therefor. 2,916,486, 12-8-59, Cl. 260-239.55.
- Babcock Radio Engineering, Inc.: *See*—  
 Endres, Charles W. 2,907,035.
- Babcock, Samuel. Incinerators. 2,873,101, 2-10-59, Cl. 263-2.
- Babcock, Stuart K. Self-centering relay. 2,873,546, 2-3-59, Cl. 200-93.
- Babcock, Wallace C., to Bell Telephone Laboratories, Inc. Antenna array. 2,869,122, 1-13-59, Cl. 343-205.
- Babcock & Wilcox Co., The: *See*—  
 Armstrong, Frank W. 2,911,517.  
 Bailey, Ervin G., Hardgrove, and Hamilton. 2,879,717.  
 Bastek, Heinrich. 2,916,021.  
 Bincer, Hans. 2,908,161.  
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 Blundin, Warren S. 2,876,716.  
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 Capron, Adin B., Edgecombe, and Evans. 2,908,384.  
 Chan, Charles R. 2,886,013.  
 Clements, Warren F. 2,876,955.  
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 Coulter, Earl E. 2,891,632.  
 Coulter, Earl E. 2,895,566.  
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 Davies, David K., and Schoessow. 2,904,013.  
 Duplin, Victor J., Jr. 2,877,125.  
 Duplin, Victor J., Jr. 2,889,608.  
 Durham, Edwin. 2,904,016.  
 Evans, Sidley O., and Walker. 2,908,587.  
 Fink, Leroy M. 2,918,900.  
 Fitz, Kenneth E., Schulte, and Wolfe. 2,885,156.  
 Flynt, James W., and Suda. 2,879,838.  
 Forrer, Gilbert R., and Klein. 2,876,363.  
 Godshalk, Russell L. 2,916,263.  
 Gram, Arthur J., Jr., and Sage. 2,891,493.  
 Grossman, Paul R. 2,905,155.  
 Happell, John J. 2,877,747.  
 Hardgrove, Ralph M. 2,869,521.  
 Hardgrove, Ralph M. 2,918,697.  
 Harris, Herbert. 2,912,550.  
 Harter, Isaac, Ratcliffe, and Wilson. 2,867,018.  
 Hartwig, Frederick J. 2,874,201.  
 Harvey, John F. 2,919,048.  
 Hauck, Edwin J., and Su'a. 2,867,195.  
 Heller, Lewis W. 2,884,910.  
 Hohman, Ralph E. 2,873,701.  
 Hubel, Ernst. 2,887,992.  
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 Kaltenbach, Frederick H. 2,884,579.  
 Koch, Paul H. 2,871,833.  
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 Koch, Paul H. 2,897,797.  
 Kooistra, Lambert F. 2,886,694.  
 Langvand, Ivar L. 2,870,750.  
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 Lotz, Otto. 2,868,179.  
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 Nelken, Harvey H. 2,876,748.  
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 Pirsh, Edward A., and Wagner. 2,875,992.  
 Poole, Edward M. 2,906,467.  
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 Rowand, Will H. 2,897,795.  
 Rowand, Will H. 2,908,632.  
 Rowand, Will H. 2,914,040.  
 Rowand, Will H., and Braddy. 2,902,982.  
 Rowand, Will H., Marquez, Bayer, and Hughes. 2,891,522.  
 Schaap, Willem F. C. 2,905,154.  
 Schoessow, Earl E. 2,877,042.  
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 Seidl, Herbert. 2,883,948.  
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 Seidl, Hubert. 2,918,024.  
 Shank, Thomas A. 2,891,596.  
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 Sifrin, Andreas. 2,881,719.  
 Sifrin, Andreas, and Hennecke. 2,873,554.  
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 Smith, Charles S., and Woolley. 2,872,907.  
 Stallkamm, Hubert G. 2,875,736.  
 Stevens, William D. 2,889,698.  
 Thelen, Josef. 2,870,880.  
 Walker, William R. 2,908,385.  
 Winkin, Justin P. 2,890,684.  
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 Zoller, Ronald E. 2,886,012.
- Babcock, Willis: *See*—  
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- Babick, John J., and K. C. Shipley, to Inland Steel Co. Method and apparatus for handling and storing plates. 2,875,909, 3-3-59, Cl. 214-8.
- Babitch, David I.: *See*—  
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- Babits, Carl. Ladder step. 2,899,011, 8-11-59, Cl. 182-228.



- Babler, Otto, to Webcor, Inc. Multi-speed phonograph drive. 2,875,623, 3-3-59, Cl. 74—190.
- Babson Bros. Co.: *See*—  
 Babson, Henry B. 2,893,407.  
 Babson, Henry B. 2,902,975.  
 Merritt, Thomas W. 2,915,072.  
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 Merritt, Thomas W., and Thomas. 2,869,512.  
 Thomas, Chester A. 2,878,819.
- Babson, Henry B., to Babson Bros. Co. Milk pipe line washing system. 2,893,407, 7-7-59, Cl. 134—56.
- Babson, Henry B., to Babson Bros. Co. Automatic shutoff milker. 2,902,975, 9-8-59, Cl. 119—14.43.
- Babunovic, Momir: *See*—  
 Quirk, Justin P., and Babunovic. 2,906,305.
- Babyak, George H. Irrigating coping for gardens. 2,909,328, 10-20-59, Cl. 239—268.
- Baby World Co., Inc.: *See*—  
 Heyden, Herbert F. 2,887,748.
- Baca, Donaciano E. Amusement device. 2,918,284, 12-22-59, Cl. 273—86.
- Bacca, Charles R. Articulated joint unit for hinging two members together. 2,883,254, 4-21-59, Cl. 312—242.
- Bacca, Charles R. Electrical control device for trailer brakes. 2,898,566, 8-4-59, Cl. 338—39.
- Baccara, Mario. Universal clock. 2,907,166, 10-6-59, Cl. 58—44.
- Baccari, Ernest, and T. J. Manse. Gun type electric soldering iron. 2,901,585, 8-25-59, Cl. 219—27.
- Bacchi, Ray, to Baldwin-Lima-Hamilton Corp. Valve operator. 2,908,182, 10-13-59, Cl. 74—509.
- Bach, Ashley S. M., to Pye Ltd. Current feedback circuit for balanced amplifiers. 2,911,565, 11-3-59, Cl. 315—27.
- Bach, Burton E. Micrometric boring head. 2,874,597, 2-24-59, Cl. 77—58.
- Bach, Chester C., and H. F. Runge, to Western Electric Co., Inc. Device for cutting and stripping insulated wire. 2,886,995, 5-19-59, Cl. 81—9.51.
- Bach, Frederick L., Jr., and R. I. Hewitt, to American Cyanamid Co. Anthelmintic polymethylenepiperazine and method of using same. 2,868,692, 1-13-59, Cl. 167—55.
- Bach, Frederick L., Jr., H. J. Brabander, and S. Kushner, to American Cyanamid Co. Substituted piperazines and method of preparing the same. 2,909,523, 10-20-59, Cl. 260—268.
- Bach, Loyal M. Electric cord and plug. 2,909,754, 10-20-59, Cl. 339—101.
- Bach, Roland A.: *See*—  
 Handwerk, Joseph H., and Bach. 2,900,263.
- Bach, Willi, and E. Brackertz, to Askania-Werke A.G. Cinethedolites. 2,893,123, 7-7-59, Cl. 33—46.
- Bach, William D. Remotely adjustable rear-view mirror. 2,873,647, 2-17-59, Cl. 88—93.
- Bacha, James H.: *See*—  
 Mockiewicz, Sylvester C., and Bacha. 2,882,654.
- Bachelet, Albert E., L. A. Dorff, and D. Mitchell, to Bell Telephone Laboratories, Inc. Mobile radio telephone system. 2,896,072, 7-21-59, Cl. 250—6.
- Bachelet, Albert E., and F. S. Entz, to Bell Telephone Laboratories, Inc. Electronic station selecting circuit. 2,906,996, 9-29-59, Cl. 340—147.
- Bachelet, Albert E., H. H. Haas, and N. A. Newell, to Bell Telephone Laboratories, Inc. Order wire alarm and control circuit. 2,919,307, 12-29-59, Cl. 179—5.
- Bacheller, "D" Flavius, 1/2 to D. Campbell. Dispensing device. 2,879,924, 3-31-59, Cl. 222—207.
- Bacher, Adolf, to Siemens & Halske Aktiengesellschaft. Impulse timing chain circuits. 2,912,576, 11-10-59, Cl. 250—27.
- Bacher, Clarence A.: *See*—  
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- Bachle, Carl F., and E. A. Hulbert, to Continental Motors Corp. Hydraulic fan drives. 2,913,083, 11-17-59, Cl. 192—61.
- Bachman, Anatole: *See*—  
 McRoberts, Charles E., and Bachman. 2,902,631.
- Bachman, Fred E., to American Steel Foundries. Renewable contact plate for journal box. 2,888,301, 5-26-59, Cl. 308—54.
- Bachman, Fred E., and A. F. Seelig, Jr., to American Steel Foundries. Snubbed truck. 2,911,923, 11-10-59, Cl. 105—197.
- Bachman, Gustave B., and J. P. Chupp, to Purdue Research Foundation. Chloronitration of alkenes. 2,874,195, 2-17-59, Cl. 260—644.
- Bachman, Gustave B., and M. T. Atwood, to Purdue Research Foundation. Process for producing  $\alpha$ -dinitroalkanes from primary nitroalkanes. 2,880,245, 3-31-59, Cl. 260—644.
- Bachman, Gustave B., and T. Hokama, to Purdue Research Foundation. Process for diazotizing primary aromatic amines. 2,894,941, 7-14-59, Cl. 260—141.
- Bachman, Gustave B., and T. J. Logan, to Purdue Research Foundation. Process for the preparation of nitrohalo polymers. 2,913,423, 11-17-59, Cl. 260—2.
- Bachman, James R., and G. R. Eusner, to United States Steel Corp. Refractory product and method of manufacture. 2,878,132, 3-17-59, Cl. 106—67.
- Bachman, Robert J., to Western Electric Co. Inc. Electroplating apparatus. 2,876,191, 3-3-59, Cl. 204—207.
- Bachman, Rudolph E.: *See*—  
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- Bachman, Rudolph E., to Sterling Precision Instrument Corp. Speed reducing gear mechanism. 2,892,357, 6-30-59, Cl. 74—421.
- Bachmann, Ditmar: *See*—  
 Krause, Walter, Krekeler, Wirtz, Kamptner, and Bachmann. 2,812,475.
- Bachmann, John F., to Bendix Aviation Corp. Oscillator stability checker. 2,902,649, 9-1-59, Cl. 324—82.
- Bachmann, John H., to Columbia-Southern Chemical Corp. Method of leaching unreduced iron-containing titaniferous ores. 2,874,039, 2-24-59, Cl. 75—101.
- Bachmann, John H., J. W. Sellers, and M. P. Wagner, to Columbia-Southern Chemical Corp. Treated pigments and methods of preparing same. 2,884,402, 4-28-59, Cl. 260—41.5.
- Bachmann, Wilhelm: *See*—  
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- Bachmayer, Joseph J.: *See*—  
 Saxton, James B., and Bachmayer. 2,867,166.
- Bachus, Benson F., to Western Electric Co., Inc. Pressure valve and control system for paper pulp machines. 2,895,505, 7-21-59, Cl. 137—563.
- Bachus, Benson F., and T. C. Fitzgerald, to Western Electric Co., Inc. Apparatus for supporting and transferring reels or wire for continuous unreeling of the wire. 2,916,229, 12-8-59, Cl. 242—128.
- Back, Frank G. Reflex camera varifocal lens. 2,902,901, 9-8-59, Cl. 88—57.
- Back, Frank G. Reflex photographic finder. 2,909,109, 10-20-59, Cl. 95—42.
- Back, Frank G. Varifocal lens assembly. 2,913,957, 11-24-59, Cl. 88—57.
- Back, Leonard: *See*—  
 Bergstein, Frank D., and Back. 2,887,933.
- Back, Leonard, and W. Haas, to The Interstate Folding Box Co. Folding device for paperboard carriers. 2,896,382, 7-28-59, Cl. 53—48.
- Backarach Industrial Instrument Co.: *See*—  
 Stein, Joseph A. 2,904,071.
- Backe, John C. Sonic action fish lure. 2,881,548, 4-14-59, Cl. 43—42.31.
- Backer, Leon C. Pipe coupling. 2,898,945, 8-11-59, Cl. 138—99.
- Backer, Leon C. Crooked hole straightener for rotary type earth boring equipment. 2,911,195, 11-3-59, Cl. 255—73.
- Backflow Engineering & Equipment Co.: *See*—  
 Snyder, Leonard L. 2,893,414.
- Backhouse, Headley T. Sheet separating machine. 2,869,867, 1-20-59, Cl. 271—26.
- Backhus, Herman T. Jalousie. 2,917,794, 12-22-59, Cl. 20—62.
- Backlin, Clarence R., to Wilcox & Gibbs Sewing Machine Co. Thread take-up for sewing machine. 2,887,970, 5-26-59, Cl. 112—248.
- Backman, William O. Precision divider setting device. 2,908,979, 10-20-59, Cl. 33—143.
- Backofen, Elmer R.: *See*—  
 Hastings, Russell, Jr., and Backofen. 2,906,373.
- Backofen, Elmer R., to Clark Equipment Co. Industrial truck. 2,905,348, 9-22-59, Cl. 214—674.
- Backus, John G., to United States of America, Atomic Energy Commission. Ion beam focusing means for calutron. 2,890,337, 6-9-59, Cl. 250—41.9.
- Backus, Keith A., and W. P. Somers, to General Electric Co. Circuit apparatus and method. 2,912,481, 11-10-59, Cl. 174—138.
- Backus, Thomas, to Fuller Mfg. Co. Automotive device. 2,875,872, 3-3-59, Cl. 192—3.5.
- Backus, Thomas, and C. M. Perkins, to Fuller Mfg. Co. Multi speed, lever controlled transmission. 2,892,358, 6-30-59, Cl. 74—473.
- Backus, Thomas, and C. M. Perkins, to Fuller Mfg. Co. Clutch control system. 2,916,118, 12-8-59, Cl. 192—3.5.
- Bacom, Nathan C.: *See*—  
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- Bacon American Cor.: *See*—  
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- Bacon, Charles H., Co.: *See*—  
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- Bacon, Donald D., J. H. Scaff, and H. C. Theurer, to Bell Telephone Laboratories, Inc. Treatment of semiconductive material. 2,871,111, 1-27-59, Cl. 41—42.
- Bacon, Henry M. Flyer-head roving pre-twister condenser. 2,878,637, 3-24-59, Cl. 57—115.
- Bacon, Jack C.: *See*—  
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 Brooks, Lester A., and Bacon. 2,911,393.  
 Brooks, Lester A., and Bacon. 2,911,394.
- Bacon, James L., to Morphy-Richards Ltd. Toasters. 2,887,039, 5-19-59, Cl. 99—328.
- Bacon, John H. Key ring. 2,871,691, 2-3-59, Cl. 70—458.
- Bacon, John H. Device for coupling plastic elements and beaded chains. 2,893,089, 7-7-59, Cl. 24—116.
- Bacon, John H. Dog collar or the like. 2,900,696, 8-25-59, Cl. 24—206.
- Bacon, Leslie R., C. E. Smith, and T. H. Vaughn, to Wyandotte Chemicals Corp. Promoted detergent compositions. 2,886,533, 5-12-59, Cl. 252—138.
- Bacon, Marilyn L.: *See*—  
 MacGriff, Jack E., and Bacon. 2,882,365.  
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- Bacon, Moody, Jr.: *See*—  
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- Bacon, Robert E. Door stop. 2,882,547, 4-21-59, Cl. 16—85.
- Bacon, Walter M., D. E. Branson, G. J. Kandel, and G. A. Locke, to Bell Telephone Laboratories, Inc. Message transmission system. 2,871,286, 1-27-59, Cl. 178—2.
- Bacon, Walter M., and B. Ostendorf, Jr., to Bell Telephone Laboratories, Inc. Cipher telegraph system. 2,897,268, 7-28-59, Cl. 178—22.
- Bacto-Strip A.G.: *See*—  
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- Badali, Edward A. Pneumatic tool support. 2,917,953, 12-22-59, Cl. 77—7.
- Badalich, Frank C., to Bell & Howell Co. Magazine slide changer and shutter for stereo projectors. 2,871,760, 2-3-59, Cl. 88—28.
- Badalich, Frank C., to Bell & Howell Co. Slide changer and shutter for stereoscopic projectors. 2,914,985, 12-1-59, Cl. 88—28.
- Badalini, Giovanni, to S.p.A. Cambi Idraulici Badalini. Hydraulic transmission. 2,891,419, 6-23-59, Cl. 74—687.
- Baddock, David N. W., to Kango Electric Hammers Ltd. Percussive tools. 2,880,585, 4-7-59, Cl. 60—62.5.
- Bade, Alfred G., to The Falk Corp. Multi-speed drive. 2,903,899, 9-15-59, Cl. 74—216.5.
- Bade, Alfred G., to The Falk Corp. Speed reducer. 2,906,137, 9-29-59, Cl. 74—421.
- Bade, Alfred G., to The Falk Corp. Multiple take-off power transmission. 2,918,825, 12-29-59, Cl. 74—325.
- Badeau, Carroll A., to The Thomas & Betts Co. Method of splicing cables. 2,906,017, 9-29-59, Cl. 29—518.
- Baden, Thomas A., L. J. Olson, H. L. Miller, and K. W. Copp, to Donaldson Co., Inc. Dry type air cleaner. 2,907,406, 10-6-59, Cl. 183—62.
- Badenell, Herbert C.: *See*—  
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- Bader, Alfred R., and J. E. Hyre, to Pittsburgh Plate Glass Co. Polyamine derivatives of alkyl substituted benzenes. 2,875,161, 2-24-59, Cl. 260—2.1.
- Bader, Alfred R., and H. A. Vogel, to Pittsburgh Plate Glass Co. Acetoacetic acid esters of castor oil and the use thereof in plasticization. 2,895,844, 7-21-59, Cl. 106—195.
- Bader, Clifford J., and R. A. Cola, to Burroughs Corp. Aircraft warning devices. 2,876,388, 3-3-59, Cl. 315—292.
- Bäder, Erich: *See*—  
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- Bader, Erich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Hardening paste for the polymerization of organic compounds. 2,910,443, 10-27-59, Cl. 252—430.
- Bader, Erich, and O. Schweitzer, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for polymerizing ethylenic organic compounds with redox system catalysts in the presence of betaine derivatives. 2,870,118, 1-20-59, Cl. 260—45.5.
- Bader, Erich, and H. Koert, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Adhesive composition comprising an acrylate monomer, an unsaturated polyester and polyvinyl methyl ether. 2,894,932, 7-14-59, Cl. 260—45.4.
- Bader, John: *See*—  
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- Bader, John. Hydrofoil steering, adjusting and retracting mechanism. 2,887,081, 5-19-59, Cl. 114—66.5.
- Bader, John. Hydrofoil control and retraction mechanism. 2,887,979, 5-26-59, Cl. 114—66.5.
- Bäder, Paul, to Ekco Products Co. Strainer constructions. 2,867,331, 1-6-59, Cl. 210—471.
- Bader, Paul E., to Ekco Products Co. Strainer constructions. 2,897,969, 8-4-59, Cl. 210—471.
- Badertscher, Dana K., to American Motors Corp. Engine shroud. 2,893,361, 7-7-59, Cl. 123—41.6.
- Badertscher, Dana K., and J. H. Meech, to American Motors Corp. Lubrication system for an engine. 2,893,514, 7-7-59, Cl. 184—6.
- Badger, Alfred E., to Owens-Illinois Glass Co. Treatment of glass surfaces. 2,881,566, 4-14-59, Cl. 49—77.
- Badger, Everett H., Jr., and S. D. Burton, to Parker-Hannifin Corp. Gate valve and seal. 2,900,165, 8-18-59, Cl. 251—172.
- Badger, George M. W., to Eitel-McCullough, Inc. Thermo-electric power monitor. 2,890,415, 6-9-59, Cl. 324—95.
- Badger, George M. W., to Eitel-McCullough, Inc. Electron tube. 2,910,613, 10-27-59, Cl. 315—5.38.
- Badger, Henry R., J. W. Pratt, and C. Walter, to International Business Machines Corp. Electrical component mounting apparatus. 2,876,277, 3-3-59, Cl. 174—52.
- Badger, John P.: *See*—  
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- Badger Mfg. Co.: *See*—  
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- Reid, Warren H., Jr. 2,886,885.
- Siegfried, Robert E. 2,881,116.
- Badger Paper Mills, Inc.: *See*—  
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- Van Dyck, William J. 2,880,866.
- Badger Tool & Mfg. Co.: *See*—  
Oberfell, Hermann. 2,904,806.
- Oberfell, Hermann. 2,904,807.
- Badgett, Frederick S. Duplicating machine. 2,885,786, 5-12-59, Cl. 33—23.
- Badgley, Gerald J. Television recording camera having stabilized shutter. 2,879,688, 3-31-59, Cl. 88—18.
- Badgley, Gerald J. Reverse drive mechanism for cameras and the like. 2,907,531, 10-6-59, Cl. 242—55.12.
- Badin, Ferdinand, to Societe Mediterraneenne Metallurgique Miniere et Commerciale. Power coupling. 2,895,580, 7-21-59, Cl. 192—58.
- Badin, Ferdinand. Centrifugal powder clutches. 2,901,074, 8-25-59, Cl. 192—58.
- Badische Anilin- & Soda-Fabrik Aktiengesellschaft: *See*—  
Anton, Ernst, Eisele, and Federkiel. 2,911,417.
- Bartholome, Ernst, Frey, Lehrer, and Lorenz. 2,870,867.
- Baumann, Hans, Arnemann, Eisele, and Federkiel. 2,913,303.
- Baumann, Hans, and Kern. 2,872,449.
- Becke, Friedrich, and Sperber. 2,913,500.
- Braun, Willy and Ruppel. 2,905,691.
- Braun, Willy, Trauth, and Von Gross. 2,884,300.
- Brunkhorst, Wilhelm, Kern, and Baumann. 2,906,588.
- Buchholz, Karl. 2,888,410.
- Fikentscher, Hans, and Fricker. 2,877,216.
- Friederich, Herbert. 2,911,445.
- Friederich, Herbert, and Minsinger. 2,889,357.
- Friedrichsen, Wilhelm. 2,905,698.
- Hamprecht, Guenther, and Muehlbauer. 2,867,643.
- Honsberg, Werner. 2,872,403.
- Hopff, Heinrich, von Schickh, and Riedl. 2,903,482.
- Johannsen, Adolf, Danz, Pfannmueller, and Wolf. 2,889,202.
- Kindler, Hubert. 2,894,037.
- Klein, Hans. 2,875,259.
- Kroeper, Hugo, Wirth, and Huchler. 2,914,554.
- Krzikalla, Hans, Engel, Wolf, and Pohlemann. 2,905,639.
- Lautenschlager, Hans, and Friederich. 2,886,591.
- Lautenschlager, Hans, and Friederich. 2,916,513.
- Lautenschlager, Hans, Friedrich, Schmidt, and Dachs. 2,907,755.
- Maier, Karl, Eisele, and Federkiel. 2,913,465.
- Michelitsch, Walter. 2,916,516.
- Moell, Hans, and Schlichting. 2,878,257.
- Muehlbauer, Hubert, and Weber. 2,905,661.
- Nonnenmacher, Helmut, Oettinger, and Reitz. 2,884,370.
- Oettinger, Willi, Von Fuener, and Goehre. 2,894,898.
- Ohlinger, Helmut, and Fricker. 2,895,938.
- Pasedach, Heinrich, and Schmidt-Thomeé. 2,879,305.
- Pasedach, Heinrich, and Seefelder. 2,879,308.
- Pfannmueller, Wilhelm, Wittmann, and Wolf. 2,889,203.
- Pfarrmann, Theodor W. 2,913,347.
- Pfätzner, Helmut, and Kaufmann. 2,871,233.
- Pistor, Hans J., and Koelsch. 2,878,258.
- Poehler, Guenter, and Stichnoth. 2,879,295.
- Pohlemann, Heinz, Stummeyer, and Adolphi. 2,919,288.
- Pommer, Horst. 2,894,011.
- Pommer, Horst. 2,898,368.
- Pommer, Horst, and Wittig. 2,917,523.
- Pommer, Horst, and Wittig. 2,917,524.
- Reppe, Walter, Reicheneder, Dury, and Suter. 2,903,491.
- Reppe, Walter, Reicheneder, Dury, and Zieger. 2,912,472.
- Reppe, Walter, Riedl, and von Schickh. 2,879,215.
- Reppe, Walter, and Stadler. 2,883,418.
- Sarnecki, Wilhelm, and Pommer. 2,905,717.
- Scheuerer, Guenter, and Schlichting. 2,911,412.
- Schlichting, Otto, and Scheuerer. 2,882,292.
- Schlichting, Otto, and Schweter. 2,903,492.
- Scholz, Heinrich. 2,912,435.
- Schuster, Curt, and Gehm. 2,878,183.
- Spaenig, Hermann, and Weickmann. 2,913,462.
- Speer, Walter. 2,883,421.
- Von Schickh, Otto, and Metzger. 2,883,377.
- Von Schickh, Otto, and Nottes. 2,905,540.
- Weber, Heinz, Boehn, Schiller, and Stange. 2,886,560.
- Ziese, Walter. 2,871,099.
- Ziese, Walter, Chorbacher, and Steinhofner. 2,907,634.
- Zinke-Allmang, Helmut, Leichte, von Bank, and Keller. 2,905,598.
- Badowski, Walter. Tool for inserting plugs in tire punctures. 2,869,408, 1-20-59, Cl. 81—15.7.
- Badura, Edmund S., to General Motors Corp. Counterbalancing hinge assembly. 2,895,161, 7-21-59, Cl. 16—163.
- Baechler, Robert C. Automatic equalizing impact rear truck bumper device. 2,890,076, 6-9-59, Cl. 293—90.
- Baechli, George, to Joy Mfg. Co. Suspension troughing idler and supporting means therefor. 2,876,890, 3-10-59, Cl. 198—192.
- Baechli, George, to Joy Mfg. Co. Portable extensible belt conveyor. 2,893,539, 7-7-59, Cl. 198—139.
- Baecklund, Gunnar, to Aktiebolaget Chematur. Method of obtaining acetaldehyde. 2,870,866, 1-27-59, Cl. 183—115.
- Baeder, Donald L.: *See*—  
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- Baehr, Carl G.: *See*—  
Burgess, Robert W., Baehr, and Currello. 2,907,290.
- Johnson, Harry N., and Baehr. 2,890,668.
- Baehr, Robert G. Convertible lawn mower for hedge cutting. 2,911,781, 11-10-59, Cl. 56—235.
- Baer, Albert M., to Imperial Knife Associated Companies, Inc. Knife handle. 2,896,321, 7-28-59, Cl. 30—164.
- Baer, Albert M., to Imperial Knife Associated Companies, Inc. Combination pocket knife and pen. 2,896,576, 7-28-59, Cl. 120—1.



- Baer, Albert M., to Imperial Knife Co., Inc. Cover unit for a pocket knife and a process for making the same. 2,908,096, 10-13-59, Cl. 41—22.
- Baer, Berta, to Poirette Corsets, Inc. Brassiere. 2,884,928, 5-6-59, Cl. 128—475.
- Baer, Byron N., J. D. Brandner, and J. W. Le Maistre, to Atlas Powder Co. Spinning of viscose. 2,875,078, 2-24-59, Cl. 106—165.
- Baer, Byron N., J. D. Brandner, and J. W. Le Maistre, to Atlas Powder Co. Spinning of viscose. 2,876,124, 3-3-59, Cl. 106—165.
- Baer, Charles A.: *See—*  
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- Baer, Charles A., and P. J. Clough, to National Research Corp. Coating. 2,877,145, 3-10-59, Cl. 117—227.
- Baer, Charles A., W. F. Bugbee, and P. J. Clough, to National Research Corp. Coating. 2,887,419, 5-19-59, Cl. 148—635.
- Baer, Edward G., to The Will-Burt Co. Vise handles. 2,873,617, 2-17-59, Cl. 74—548.
- Baer, Francis M.: *See—*  
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- Baer, George A.: *See—*  
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- Baer, John S., and E. A. Dameran, to Radio Corp. of America. Keyboard mechanism. 2,903,687, 9-8-59, Cl. 340—365.
- Baer, John S., and R. D. Grapes, to Radio Corp. of America. Means for securing relatively movable members. 2,917,331, 12-15-59, Cl. 287—52.08.
- Baer, Josef, to Baer Steel Products, Inc. Canal wall trimmer. 2,867,046, 1-6-59, Cl. 37—85.
- Baer, Massimo, to Monsanto Chemical Co. Non-electrostatic styrene polymer compositions. 2,912,413, 11-10-59, Cl. 260—75.
- Baer, Ralph H.: *See—*  
Axelrod, Albert, and Baer. 2,898,511.
- Baer Steel Products, Inc.: *See—*  
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- Baer, Walter S., Sr. Coin-release chair cushion. 2,905,227, 9-22-59, Cl. 153—2.
- Baer, William K.: *See—*  
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- Baer, Wolfgang, to J. M. Voith, G.m.b.H. Tugboat and towing system comprising the same. 2,902,966, 9-8-59, Cl. 114—235.
- Baermann, Max. Magnetic friction brake or clutch. 2,886,149, 5-12-59, Cl. 192—18.
- Baermann, Max. Friction increasing arrangement. 2,895,429, 7-21-59, Cl. 105—77.
- Baermann, Max. Apparatus for heating. 2,912,552, 11-10-59, Cl. 219—10.49.
- Baeschlack, Alfred J.: *See—*  
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Bichsel, Harry J., and Baeschlack. 2,897,342.
- Baessler, John J.: *See—*  
Abplanalp, Robert H. 2,884,160.  
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- Baevsky, Melvin M., to E. I. du Pont de Nemours and Co. Rust preventative and anti-rust stabilizing compositions. 2,873,196, 2-10-59, Cl. 106—14.
- Baffrey, Antoine R., to Societe Anonyme dite: Ateliers de Constructions Electriques de Charleroi. Automatic induction heater. 2,876,325, 3-3-59, Cl. 219—10.69.
- Baffrey, Anton R., H. Hofmeier, W. Schmidt, and E. Hornmann, to Phoenix-Rheinrohr Aktiengesellschaft Vereinigte Hutten-und Rohrenwerke, and A.C.E.C. Ateliers de Constructions Electriques de Charleroi. Induction heating apparatus. 2,895,034, 7-14-59, Cl. 219—8.5.
- Bagarozzy, Tully J., to Bamm Corp. Coffee making apparatus. 2,880,664, 4-7-59, Cl. 99—302.
- Bagby, Leland W., to Northrop Aircraft, Inc. Pressure integrating system. 2,871,698, 2-3-59, Cl. 73—147.
- Bagdanovich, Michael P., and J. R. Wilson, to Harvey Machine Co., Inc. Training and test missile. 2,887,055, 5-19-59, Cl. 102—50.
- Bageman, Fred J. Static wheel balancer. 2,909,063, 10-20-59, Cl. 73—484.
- Baggenstoss, Alois C. and C. P. High tensile strength textile materials. 2,904,455, 9-15-59, Cl. 117—144.
- Baggenstoss, Consuelo P.: *See—*  
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- Baggett, Durward A., and H. H. McClure, to The Dow Chemical Co. Solution of vinylidene chloride polymer in a pyrrolidone solvent. 2,886,547, 5-12-59, Cl. 260—30.2.
- Baggett, Joseph M., and M. E. Pruitt, to The Dow Chemical Co. Solid polymers of epichlorohydrin. 2,871,219, 1-27-59, Cl. 260—45.95.
- Baggett, Charles E., and F. A. Ullrich. Tree hoe. 2,869,655, 1-20-59, Cl. 172—387.
- Baggott, Edmund W., to Ideal Toy Corp. Dolls. 2,883,795, 4-28-59, Cl. 46—173.
- Baggott, Edmund W., to Ideal Toy Corp. Doll or manikin construction. 2,887,822, 5-26-59, Cl. 46—149.
- Baggott, Edmund W., and J. Weih, to Ideal Toy Corp. Doll or manikin knee or limb joint. 2,904,930, 9-22-59, Cl. 46—173.
- Baggs, Burton D.: *See—*  
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- Baggs, Burton D., Jr.: *See—*  
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Smith, Alexander, and Baggs. 2,913,058.
- Bagley, Bruce R. Fabricated multiple-sheave grooved pulley. 2,906,134, 9-29-59, Cl. 74—230.8.
- Bagley, Glen D.: *See—*  
Hoffman, Albert, Jr., and Bagley. 2,891,781.
- Bagley, Jancy A. Telephone receiver support. 2,879,342, 3-24-59, Cl. 179—146.
- Bagley, Vernon H. Debarking adapter for chain saw. 2,889,860, 6-9-59, Cl. 144—208.
- Bagnall, Edwin, deceased; M. L. Gilmer, legatee under the will of E. Bagnall. Vehicle sway inhibiting device. 2,893,723, 7-7-59, Cl. 267—11.
- Bagnall, James A., to Texas Instruments Inc. Control for refrigerator. 2,900,802, 8-25-59, Cl. 62—156.
- Bagnall, John, to Canada Paper Co. Apparatus for the manufacture of handle attachments for paper bags. 2,892,244, 6-30-59, Cl. 29—126.
- Bagnall, Kenneth P. Ship salvage apparatus. 2,918,030, 12-22-59, Cl. 114—54.
- Bagnell, Edgar W., to Johnston Testers, Inc. High pressure hose coupling with pressure-wedged sealing means. 2,877,027, 3-10-59, Cl. 285—113.
- Bagnetto, Lucien, Jr.: *See—*  
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- Bagno, Samuel M., to Walter Kidde & Co., Inc. Sensitivity control of apparatus for detecting disturbances in an enclosure. 2,903,683, 9-8-59, Cl. 340—258.
- Bagno, Samuel M., to Walter Kidde & Co., Inc. Apparatus for photoelectric intruder detection. 2,912,683, 11-10-59, Cl. 340—258.
- Bagno, Samuel M., and E. A. Joerren, to Specialties Development Corp. Explosion suppressing system. 2,867,282, 1-6-59, Cl. 169—4.
- Bahlatzis, Danny M.: *See—*  
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- Bahler, Max E.: *See—*  
Florestano, Herbert J., Jefferies, Osborne, and Bahler. 2,868,689.
- Bahlmann, Oma. Vibratory knife. 2,908,077, 10-13-59, Cl. 30—272.
- Bahlsen, Werner: *See—*  
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- Bahnson, Agnew H., Jr. Traveling cleaner for textile machines. 2,886,843, 5-19-59, Cl. 15—312.
- Bahnson, Agnew H., Jr. Combined roving break-back and feed mechanism for textile processing machines. 2,886,941, 5-19-59, Cl. 57—87.
- Bahnson, Agnew H., Jr. Apparatus for controlling exhaust of motor alloy heat in textile work rooms. 2,898,727, 8-11-59, Cl. 57—56.
- Bahnson, Agnew H., Jr. Apparatus for controlling exhaust. 2,914,136, 11-24-59, Cl. 183—37.
- Bahnson, Agnew H., Jr., and W. V. Avera, to The Bahnson Co. Cooling and humidifying system. 2,904,254, 9-15-59, Cl. 236—44.
- Bahnson, Agnew H., Sr. Portable arm rest for motor vehicle seats. 2,902,085, 9-1-59, Cl. 155—198.
- Bahnson Co., The: *See—*  
Bahnson, Agnew H., Jr., and Avera. 2,904,254.  
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- Bahoshy, Bernard J.: *See—*  
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- Bahr, Morris W. G. Storing and filing devices. 2,902,166, 9-1-59, Cl. 211—11.
- Bahr, Willy: *See—*  
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- Bahrs, George S. Weighing apparatus. 2,914,310, 11-24-59, Cl. 265—70.
- Bahrs, Siegfried: *See—*  
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- Baier, John J., and E. Wodetzky. Art of electrolytically treating metal to clean, level, smooth, polish and/or protect the surfaces thereof. 2,863,705, 1-13-59, Cl. 204—140.5.
- Baier, Othmar, to N S U Werke Akt., and F. Wankel. Mechanism for machining trochoidal rotors and counter-rotors. 2,870,578, 1-27-59, Cl. 51—90.
- Baier, Paul. Self-winding watch. 2,874,532, 2-24-59, Cl. 58—82.
- Baier, Walter: *See—*  
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- Baier, Wilhelm, K.G.: *See—*  
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- Baigent, Keith H., to R. H. Windsor Ltd. Injection moulding machines. 2,916,769, 12-15-59, Cl. 18—30.
- Bailer, Raymond J. Artificial bait. 2,884,732, 5-5-59, Cl. 43—42.33.
- Bailes, Richard H., R. S. Long, R. S. Olson, and H. O. Kerlinger, to United States of America, Atomic Energy Commission. Uranium recovery process. 2,873,165, 2-10-59, Cl. 23—14.5.
- Bailey, Archibald, Jr., and M. Bailey, to Gadget-Of-The-Month Club, Inc. Power-operated disc cutter attachment for drill presses. 2,911,019, 11-3-59, Cl. 144—136.
- Bailey, Bradford E., to Esso Research and Engineering Co. Method and apparatus for heating fluids. 2,884,373, 4-28-59, Cl. 208—132.



- Bailey, Christopher E. G., to North American Philips Co., Inc. Automatic frequency control. 2,897,450, 7-28-59, Cl. 331-18.
- Bailey, Denis R., and P. H. Daniels, to Shell Development Co. Fuel for internal combustion engines. 2,891,851, 6-23-59, Cl. 44-78.
- Bailey, Donald L., to Union Carbide Corp. Gamma-glycidioxypropyl-bis (trimethyl siloxy)-methyl silane. 2,883,397, 4-21-59, Cl. 260-348.
- Bailey, Donald L., to Union Carbide Corp. 1-trimethylsiloxy-1-methyl-1,2-siloxacyclopentane. 2,888,454, 5-26-59, Cl. 260-239.
- Bailey, Donald L., to Union Carbide Corp. Gamma-(trimethylsiloxy)propyl-bis-(trimethylsiloxy)ethylsilane. 2,888,479, 5-26-59, Cl. 260-448.2.
- Bailey, Donald L., to Union Carbide Corp. Allyl ether-silicone copolymer. 2,897,222, 7-28-59, Cl. 260-448.2.
- Bailey, Donald L., to Union Carbide Corp. Alkoxy-endblocked silicone polymers. 2,909,549, 10-20-59, Cl. 260-448.8.
- Bailey, Donald L., to Union Carbide Corp. Trimethylsilyl-endblocked stearylloxethylmethylpolysiloxane. 2,913,473, 11-17-59, Cl. 260-448.2.
- Bailey, Donald L., to Union Carbide Corp. Beta-chloroethoxethyl-bis (trimethylsiloxy) methylsilane. 2,913,474, 11-17-59, Cl. 260-448.2.
- Bailey, Donald L., to Union Carbide Corp. Beta-alkylvinylloxyl-bis (trimethylsiloxy) alkylsilanes. 2,917,530, 12-15-59, Cl. 260-448.2.
- Bailey, Donald L., and W. T. Black, to Union Carbide Corp. Bicycloheptenylethyl-diethoxy silane. 2,868,825, 1-13-59, Cl. 260-448.8.
- Bailey, Donald L., and W. T. Black, to Union Carbide Corp. Cyclohexenylethyl-diethoxysilane. 2,868,826, 1-13-59, Cl. 260-448.8.
- Bailey, Donald L., and F. M. O'Connor, to Union Carbide Corp. Preparation of alkyl orthosilicates by reacting silicon dioxide with an alcohol. 2,881,198, 4-7-59, Cl. 260-448.8.
- Bailey, Donald L., and F. M. O'Connor, to Union Carbide Corp. Process for producing alkoxy-silicon compounds. 2,881,199, 4-7-59, Cl. 260-448.8.
- Bailey, Donald L., and E. R. York, to Union Carbide Corp. Siloxane water repellent treatment for fibrous materials. 2,895,853, 7-21-59, Cl. 117-155.
- Bailey, Donald L., and E. R. York, to Union Carbide Corp. Cyclic polysiloxanes derived from dichlorosilane and dimethyldichlorosilane. 2,905,703, 9-22-59, Cl. 260-448.2.
- Bailey, Donald L., and R. M. Pike, to Union Carbide Corp. Copolymers of mono-vinyl methyl siloxanes and chlorotrifluoroethylene. 2,909,548, 10-20-59, Cl. 260-448.2.
- Bailey, Donald L., and F. M. O'Connor, to Union Carbide Corp. Process for producing acyloxysilicon compounds. 2,910,496, 10-27-59, Cl. 260-448.8.
- Bailey, Donald L., and F. M. O'Connor, to Union Carbide Corp. Siloxane oxyalkylene block copolymers. 2,917,480, 12-15-59, Cl. 260-42.
- Bailey, Edward A., J. B. Bradich, and C. F. H. Crathern, to Food Machinery and Chemical Corp. Paper box machine. 2,890,630, 6-16-59, Cl. 93-41.
- Bailey, Ervin G., R. M. Hardgrove, and C. C. Hamilton, to The Babcock & Wilcox Co. Steam powered locomotive with water tube steam generator. 2,879,717, 3-31-59, Cl. 105-37.
- Bailey, Francis T., to Westinghouse Electric Corp. Radiation level compensator system. 2,883,559, 4-21-59, Cl. 250-219.
- Bailey, Frederick E., Jr., to Union Carbide Corp. Polymerization of epoxides with finely divided alkaline earth metal oxides. 2,914,491, 11-24-59, Cl. 260-2.
- Bailey, Frederick E., Jr., and F. J. Welch, to Union Carbide Corp. Process for controlling the molecular weight of polyethylene. 2,912,425, 11-10-59, Cl. 260-94.9.
- Bailey, George B., to John B. Pierce Foundation. Fin structure. 2,876,631, 3-10-59, Cl. 62-285.
- Bailey, George J., Jr. Model railroad car coupler. 2,868,393, 1-13-59, Cl. 213-75.
- Bailey, Grant C.: See—  
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- Bailey, Harold G., to The Sun Rubber Co. Apparatus for separating and clamping mold sections in rotational casting machines. 2,879,545, 3-31-59, Cl. 18-43.
- Bailey, James R.: See—  
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- Bailey, James R. Morse code balloon signaling device. 2,893,165, 7-7-59, Cl. 46-88.
- Bailey, James R., 30% to R. J. Bailey. Valve construction. 2,895,707, 7-21-59, Cl. 251-46.
- Bailey, James S., to The Rauland Corp. Automatic cathode-ray tube manufacturing apparatus. 2,872,954, 2-10-59, Cl. 141-263.
- Bailey, Jim, deceased, by W. Bailey, administratrix. Apparatus for purifying crude oils. 2,909,262, 10-20-59, Cl. 196-110.
- Bailey, Lee W., and P. Fisch. Hair cutting device. 2,900,718, 8-25-59, Cl. 30-30.
- Bailey, Margaret: See—  
Bailey, Archibald, Jr., and M. Bailey. 2,911,019.
- Bailey, Maurice H.: See—  
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- Bailey Meter Co.: See—  
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- Bailey, Meyer E.: See—  
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- Bailey, Nathaniel A., A. F. Pasowicz, and J. F. Reynolds, to Wright Chemical Corp. Corrosion inhibiting composition. 2,901,437, 8-25-59, Cl. 252-387.
- Bailey, Paul C.: See—  
Van Deventer, Harry R., and Bailey. 2,886,640.
- Bailey, Paul W. Street collection conveyor mail box. 2,900,046, 8-18-59, Cl. 186-1.
- Bailey, Paul W. Street conveyor mail, newspaper and milk products box. 2,904,131, 9-15-59, Cl. 186-1.
- Bailey, Philip S., to Esso Research and Engineering Co. Process for preparing 2,2'-biaryldicarboxylic acids. 2,870,194, 1-20-59, Cl. 260-469.
- Bailey, Philip S., to Esso Research and Engineering Co. Preparation of diphenic acid. 2,888,485, 5-26-59, Cl. 260-523.
- Bailey, Ralph K., to The Buckeye Corp. Hydroponic apparatus and tray therefor. 2,917,867, 12-22-59, Cl. 47-1.2.
- Bailey, Ray: See—  
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- Bailey, Reginald K. Phonograph record and playing system therefor. 2,913,247, 11-17-59, Cl. 274-42.
- Bailey, Richard P., to Quebec Metallurgical Industries Ltd. Method for extracting nickel from laterite ores. 2,899,300, 8-11-59, Cl. 75-101.
- Bailey, Robert H.: See—  
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- Bailey, Robert J.: See—  
Bailey, James R. 2,895,707.
- Bailey, Robert S.: See—  
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- Bailey, Theodore L., to United States of America, Army. Double cap. 2,870,449, 1-27-59, Cl. 2-172.
- Bailey, Theodore L., to United States of America, Army. Elastic front cap. 2,870,450, 1-27-59, Cl. 2-197.
- Bailey, Theodore L. Sofa bed assembly. 2,909,789, 10-27-59, Cl. 5-8.
- Bailey, Thomas E., to The Borden Co. Wiper die. 2,892,442, 6-30-59, Cl. 118-125.
- Bailey, Walter H.: See—  
Coxworth, Lowry. 2,888,064.
- Bailey, William A. Automatic release and reset anchor. 2,874,668, 2-24-59, Cl. 114-208.
- Bailey, William A. Take-off for fluid ducts. 2,907,592, 10-6-59, Cl. 285-219.
- Bailey, William F., to Hazeltine Research, Inc. Color-television projector. 2,875,273, 2-24-59, Cl. 178-5.4.
- Bailey, William J., to J. & E. Hall, Ltd. Lift control systems. 2,867,293, 1-6-59, Cl. 187-29.
- Bailey, William M., Co.: See—  
Bailey, William M., and Plante. 2,878,009.  
Neely, Eugene M. 2,884,959.
- Bailey, William M., and T. W. Plante, to William M. Bailey Co. Sinter cooling machines. 2,878,009, 3-17-59, Cl. 266-21.
- Bailey, William R., to Gar Wood Industries. Supporting members. 2,870,793, 1-27-59, Cl. 138-78.
- Bailey, Winnie: See—  
Bailey, Jim. 2,909,262.
- Bailly, Florent H., to F. H. Bailly. Pozzolanic plasterboard. 2,882,175, 4-14-59, Cl. 106-115.
- Bailly, Florent H. Mineralogical analysis. 2,896,442, 7-28-59, Cl. 73-15.
- Bailly, Randolph M.: See—  
Leigh, Marjorie W., Welty, Sage, and Bailly. 2,911,358.
- Bain, George W.: See—  
Orthuber, Richard K., Larson, and Bain. 2,877,371.
- Bain, George W., to International Telephone and Telegraph Corp. Image multiplier. 2,871,369, 1-27-59, Cl. 250-213.
- Bain, George W., to The Trustees of Amherst College. Recovery of uranium from dilute uranium-containing solutions. 2,885,258, 5-5-59, Cl. 23-14.5.
- Bain, George W., to International Telephone and Telegraph Corp. Polarized electroluminescent phosphors and dielectrics. 2,887,601, 5-19-59, Cl. 313-108.
- Bain, George W., to International Telephone and Telegraph Corp. Delay line. 2,892,104, 6-23-59, Cl. 307-106.
- Bain, James M.: See—  
Edwards, Ernest C., and Bain. 2,879,033.



- Bain, Joseph P., A. B. Booth, H. G. Hunt, and E. A. Klein, to The Glidden Co. Treatment of verbenyl ethers. 2,871,268, 1-27-59, Cl. 260-587.
- Bain, Joseph P., A. B. Booth, and W. Y. Gary, to The Glidden Co. Isomerization of terpene alcohols. 2,894,040, 7-7-59, Cl. 260-631.5.
- Bain, Joseph P., and W. Y. Gary, to The Glidden Co. Production of oxygenated terpenes from alpha-pinene. 2,911,442, 11-3-59, Cl. 260-631.5.
- Bainbridge, Marvin, to Maui Pineapple Co., Ltd. Means for the continuous processing of comestibles. 2,917,989, 12-22-59, Cl. 99-356.
- Balocchi, John. Machine for extruding, measuring, cutting and applying edible material. 2,890,662, 6-16-59, Cl. 107-14.
- Bair, Lura K. Illuminated fishing lure. 2,898,698, 8-11-59, Cl. 43-17.5.
- Bair, Milford M. Prosthetic device. 2,915,760, 12-8-59, Cl. 3-2.
- Bair, Murray W., to The Magnavox Co. Gun control circuit for semi-automatic operation of machine gun. 2,891,449, 6-23-59, Cl. 89-135.
- Bair, Reisin O.: See—  
Roberts, Harold P., and Bair. 2,917,567.
- Bair, Richard H., to The Hubley Mfg. Co. Toy speedometer. 2,896,708, 7-28-59, Cl. 161-18.
- Bair, Richard H., to Weiss Bros. Truck dock bumper. 2,893,720, 7-7-59, Cl. 267-1.
- Bair, Roger I. Combined step and stairway and extension ladder. 2,896,830, 7-28-59, Cl. 228-25.
- Bair, Vernon, to Arencio Aktiebolag. Machine for wrapping tobacco fillers. 2,917,053, 12-15-59, Cl. 131-31.
- Bair, Wilford G.: See—  
Linden, Henry R., Reid, and Bair. 2,881,232.
- Baird, Albert W., to Union Carbide Corp. Welding wire feed. 2,880,305, 3-31-59, Cl. 219-130.
- Baird, Art R.: See—  
Clark, Jonathan H., and Baird. 2,889,944.
- Baird-Atomic, Inc.: See—  
Stoddart, Hugh F., and Voutselas. 2,867,752.  
Stoddart, Hugh F., Cordingley, and Voutselas. 2,880,379.
- Baird, Douglas O., and R. G. Bielenberg, to General Telephone Laboratories, Inc. Automatic telephone systems provided with toll recording facilities. 2,881,258, 4-7-59, Cl. 179-18.
- Baird, Douglas O., and R. G. Bielenberg, to General Telephone Laboratories, Inc. Automatic telephone systems involving toll-recording facilities. 2,881,260, 4-7-59, Cl. 179-18.
- Baird, James D. Ladder platform. 2,881,028, 4-7-59, Cl. 304-11.
- Baird, James S. Fishing hook stand-off. 2,893,159, 7-7-59, Cl. 43-44.85.
- Baird, Joseph J., and C. A. Osovski, to Chesebro Whitman Mfg. Corp. Means for assembling ladders. 2,911,018, 11-3-59, Cl. 144-2.
- Baird Machine Co., The: See—  
Bunnell, Earl C. 2,908,318.
- Baird, Norman F., and W. J. Monohan, to Westinghouse Electric Corp. Metallic part and corrosion resistant coating therefor. 2,916,402, 12-8-59, Cl. 117-134.
- Baird, Otho P. Tiltable outboard motor mount attachment for boats. 2,916,009, 12-8-59, Cl. 115-41.
- Baird, Raymond C., to The Fluor Corp., Ltd. Self-synchronizing horse power indicator. 2,869,962, 1-20-59, Cl. 346-4.
- Baird, Raymond C., to Combustion Engineering, Inc. Vibration free apparatus. 2,893,509, 7-7-59, Cl. 181-46.
- Baird, Richard F., to Chrysler Corp. Windshield wiper mounting. 2,900,658, 8-25-59, Cl. 15-250.4.
- Baird & Tatlock (London) Ltd.: See—  
Bisby, Harry, Chapman, and Matthews. 2,891,699.
- Baisden, Charley W.: See—  
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- Baisden, Harry W.: See—  
Thompson, Wayne G. 2,887,073.
- Baisley, Raymond J.: See—  
Keely, Clifford D. 2,898,816.  
Keely, Clifford D. 2,898,820.
- Baits, Stephen S., to Sundstrand Machine Tool Co. Air block valve circuit. 2,871,981, 2-3-59, Cl. 184-6.
- Bakaloff, Todor: See—  
Leicht, Alfons A., and Bakaloff. 2,872,559.
- Bakelaar, John H.: See—  
Hibbard, Oscar L., and Bakelaar. 2,909,891.
- Baker, Albert A., and J. H. Schmid, to J. A. Zurn Mfg. Co. Siphon leg and water closet combination. 2,875,453, 3-3-59, Cl. 4-252.
- Baker, Albert A., and H. L. Rhoades, Jr., to J. A. Zurn Mfg. Co. Operating mechanism for a wall hydrant. 2,881,602, 4-14-59, Cl. 64-29.
- Baker, Albert A., and H. L. Rhoades, Jr., to J. A. Zurn Mfg. Co. Roof drain. 2,881,921, 4-14-59, Cl. 210-166.
- Baker, Albert A., and H. L. Rhoades, Jr., to Zurn Industries, Inc. Drain cup and support therefor. 2,888,138, 5-26-59, Cl. 210-166.
- Baker, Albert A., and H. L. Rhoades, Jr., to Zurn Industries, Inc. Reservatory supporting device. 2,901,270, 8-25-59, Cl. 285-42.
- Baker, Albert B.: See—  
McHenny, William F., Baker, Clarke, and Bauman. 2,897,051.
- Baker, Albert F., to Hancock Industries, Inc. Free handle door latching mechanism. 2,911,248, 11-3-59, Cl. 292-280.
- Baker, Allister L.: See—  
Keuffel, Carl W., Hillman, and Baker. 2,909,964.
- Baker, Arthur F., to American Steel Foundries. Clasp brake. 2,900,050, 8-18-59, Cl. 188-56.
- Baker, Benjamin P., and P. R. Pierson, to Westinghouse Electric Corp. Electrical insulators. 2,909,591, 10-20-59, Cl. 174-177.
- Baker, Bernard R., and H. M. Kissman, to American Cyanamid Co. Derivatives of 5-amino-d-ribofuranose. 2,875,194, 2-24-59, Cl. 260-211.
- Baker, Bertsil B., and J. D. Morrison, to Southern Research Institute. Process for fluoride detection. 2,870,067, 1-20-59, 204-1.
- Baker Castor Oil Co., The: See—  
Smith, Malcolm K. 2,902,500.
- Baker, Charles B.: See—  
Conlisk, John R., and Baker. 2,886,131.
- Baker, Charles F. Soap holder. 2,908,106, 10-13-59, Cl. 45-28.
- Baker, Charles H.: See—  
Baker, Vance A. 2,911,078.
- Baker, Charles H., to S & C Electric Co. Circuit interrupting means. 2,880,289, 3-31-59, Cl. 200-120.
- Baker, Corwin W., to Burroughs Corp. Ring winding machine. 2,905,399, 9-22-59, Cl. 242-4.
- Baker, Donald R., to The Marley Co. Method of preserving the wooden structure of cooling towers by impregnating. 2,895,848, 7-21-59, Cl. 117-57.
- Baker, Donald R., J. A. Nelson, and A. B. Storer, to The Marley Co. Timber connector. 2,867,016, 1-6-59, Cl. 20-92.
- Baker, Donald R., and H. E. Fordyce, to The Marley Co. Drift eliminator assembly for cooling towers. 2,892,509, 6-30-59, Cl. 183-26.
- Baker, Douglas H., and R. G. Schaale, to Allis-Chalmers Mfg. Co. Rake for trash rack. 2,904,181, 9-15-59, Cl. 210-159.
- Baker, Dwight L.: See—  
Grimm, Phyllis W., and Baker. 2,901,401.
- Baker, Edgar B., to Stauffer Chemical Co. Method of improving soil. 2,868,758, 1-13-59, Cl. 260-41.
- Baker, Edgar B., to Stauffer Chemical Co. Process for preparing epoxy resin modified proteins and compositions resulting therefrom. 2,882,250, 4-14-59, Cl. 260-6.
- Baker, Edward G., to Esso Research and Engineering Co. Titanium dioxide-calcium oxide catalyst for cracking hydrocarbons. 2,886,513, 5-12-59, Cl. 208-121.
- Baker, Edward G., to Esso Research and Engineering Co. Beryllia-borica composition as a catalyst for cracking higher boiling hydrocarbons. 2,916,436, 12-8-59, Cl. 208-114.
- Baker, Edward G., T. J. Obszarny, and J. Schmidt, to Guardian Electric Mfg. Co. Relay. 2,882,367, 4-14-59, Cl. 200-87.
- Baker, Edward G., and I. Kirshenbaum, to Esso Research and Engineering Co. Boron zinc oxide and boron magnesium oxide catalysts for conversion of hydrocarbons. 2,889,266, 6-2-59, Cl. 208-114.
- Baker, Edward G., and I. Kirshenbaum, to Esso Research and Engineering Co. Catalytic cracking. 2,906,692, 9-29-59, Cl. 208-74.
- Baker, Floyd A., to Westinghouse Electric Corp. Amplifier circuit. 2,871,441, 1-27-59, Cl. 323-89.
- Baker, Forrest G., and W. V. Millman, to American Air Filter Co., Inc. Air conditioning unit. 2,909,043, 10-20-59, Cl. 62-285.
- Baker, Frank W. Grass trimming device. 2,882,600, 4-21-59, Cl. 30-316.
- Baker, George E., to United States of America, Atomic Energy Commission. Method of peak current measurement. 2,870,407, 1-20-59, Cl. 324-103.
- Baker, George T., to British Telecommunications Research Ltd. Telecommunication systems. 2,877,306, 3-10-59, Cl. 179-18.
- Baker, George T., to British Telecommunications Research Ltd. Automatic telephone systems. 2,885,482, 5-5-59, Cl. 179-18.
- Baker, George T., to British Telecommunications Research Ltd. Electrical signalling systems. 2,886,645, 5-12-59, Cl. 179-18.
- Baker, George T., to British Telecommunications Research Ltd. Telephone or like systems. 2,887,538, 5-19-59, Cl. 179-18.
- Baker, George T., and J. E. Wright, to British Telecommunications Research Ltd. Magnetic recording equipment. 2,907,007, 9-29-59, Cl. 340-174.
- Baker, George W.: See—  
Gabriel, Gustave O. 2,871,384.
- Baker, Glenn J.: See—  
Barret, William M., and Baker. 2,901,689.
- Baker, Halsted W., Jr., and J. W. Turner, to Rowe Mfg. Co., Inc. Merchandising machine control circuit. 2,876,883, 3-10-59, Cl. 194-10.



- Baker, Harold B.: *See*—  
Barker, Lyliard B., and Baker. 2,900,742.  
Baker, Harold F., to Signode Steel Strapping Co. Piston and staple driver combination. 2,881,738, 4-14-59, Cl. 121-13.  
Baker, Harry I., to King-Seely Corp. Electrical temperature sensing device. 2,890,429, 6-9-59, Cl. 338-28.  
Baker, Harry I., to King-Seely Corp. Thermally compensated overload device. 2,911,501, 11-3-59, Cl. 200-113.  
Baker, H. Dale: *See*—  
Jones, Frank J. 2,873,100.  
Baker, Herbert C.: *See*—  
Gailliot, Joseph M., Jr., Wolfe, and Baker. 2,878,349.  
Baker, Herbert K. Variable speed transmission. 2,883,881, 4-28-59, Cl. 74-677.  
Baker, Herman, and H. B. Ross, to International Hormones, Inc. Production of vitamin B<sub>12</sub> by thermophiles. 2,917,436, 12-15-59, Cl. 195-125.  
Baker, Houston R. Method of etching glass. 2,879,147, 3-24-59, Cl. 41-43.  
Baker, Howard E., and J. A. Kapfer. Fishing apparatus. 2,913,845, 11-24-59, Cl. 43-15.  
Baker, Hugh J., & Co.: *See*—  
Robinson, Howard A. 2,868,487.  
Baker Industries, Inc.: *See*—  
Ratzer, Arthur F., and Levin. 2,870,095.  
Baker, Jack M., to General Electric Co. Regulating system for steam-gas turbine powerplant. 2,911,789, 11-10-59, Cl. 60-39.18.  
Baker, James G., to United States of America, Air Force. 36-inch f/3.7 lens. 2,872,845, 2-10-59, Cl. 88-57.  
Baker, James G., to United States of America, Air Force. Magnifier. 2,885,928, 5-12-59, Cl. 88-57.  
Baker, James G., to United States of America, Air Force. Corrected photographic objective for night photography. 2,892,381, 6-30-59, Cl. 88-57.  
Baker, James G., to United States of America, Air Force. Sighting instrument optical system. 2,899,862, 8-18-59, Cl. 88-57.  
Baker, James G., to United States of America, Air Force. Magnifier. 2,900,871, 8-25-59, Cl. 88-57.  
Baker, James G., to United States of America, Army. Impact detonating fuze. 2,912,934, 11-17-59, Cl. 102-73.  
Baker, Jesse G.: *See*—  
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Netherton, Lyman R., and Baker. 2,878,612.  
Baker, John C.: *See*—  
Pryor, Dean E., and Baker. 2,896,568.  
Baker, John E., H. A. C. Hogg, and E. Kettlewell, to The M-O Valve Co. Ltd. Magnetrons. 2,887,615, 5-19-59, Cl. 315-39.77.  
Baker, John R.: *See*—  
Conrad, Martin B., and Baker. 2,870,841.  
Hoier, Walter A., and Baker. 2,902,798.  
Baker, John R., to Baker Oil Tools, Inc. Cold flow preventing packing structures. 2,896,724, 7-28-59, Cl. 166-204.  
Baker, John R., and E. H. Clark, Jr., to Baker Oil Tools, Inc. Tubing anchor. 2,874,784, 2-24-59, Cl. 166-212.  
Baker, Joseph W., and K. L. Godfrey, to Monsanto Chemical Co. Dialkoxyposphinothioylthio-S-triazines. 2,887,432, 5-19-59, Cl. 167-33.  
Baker, Joseph W., and K. L. Godfrey, to Monsanto Chemical Co. Pyridylethyl thiophosphates. 2,889,330, 6-2-59, Cl. 260-294.8.  
Baker, Joseph W., and G. A. Saul, to Monsanto Chemical Co. Nitrobenzoylphosphonates. 2,900,296, 8-18-59, Cl. 167-30.  
Baker, Joseph W., and G. A. Saul, to Monsanto Chemical Co. Treating agricultural soils with propargyl phosphorothioates. 2,906,661, 9-29-59, Cl. 167-22.  
Baker, Lathan E., to General Motors Corp. Pressure measuring device. 2,879,450, 3-24-59, Cl. 315-58.  
Baker, Leslie N.: *See*—  
Hussar, Joseph P. 2,915,912.  
Baker, Leslie N. Motor driven rotary tooth brush. 2,916,752, 12-15-59, Cl. 15-28.  
Baker, Lionel R.: *See*—  
Hopkins, Harold H., and Baker. 2,878,722.  
Baker, Macon, to Atlas Enameling Co. Inc. Panel sheet mounting clip. 2,867,305, 1-6-59, Cl. 189-88.  
Baker, Marlin S.: *See*—  
Rhoades, Nolan K., and Baker. 2,916,013.  
Baker, Marlin S., to The Parker Pen Co. Fountain pen. 2,871,823, 2-3-59, Cl. 120-42.  
Baker, Marlin S., to The Parker Pen Co. Fountain pen. 2,905,148, 9-22-59, Cl. 120-51.  
Baker, Max P., to General Motors Corp. Flexible diaphragm. 2,869,585, 1-20-59, Cl. 137-793.  
Baker, Max P., to General Motors Corp. Ball joint assembly. 2,879,091, 3-24-59, Cl. 287-87.  
Baker, Max P., to General Motors Corp. Ball joint. 2,917,334, 12-15-59, Cl. 287-87.  
Baker, Max P., to General Motors Corp. Ball joint assemblies. 2,919,150, 12-29-59, Cl. 287-90.  
Baker Oil Tools, Inc.: *See*—  
Baker, John R. 2,896,724.  
Baker, John R., and Clark. 2,874,784.  
Baker, Reuben C. 2,871,949.  
Baker, Reuben C. 2,871,950.  
Baker, Reuben C. 2,878,877.  
Baker, Reuben C. 2,878,878.  
Baker, Reuben C. 2,885,009.  
Baker, Reuben C. 2,886,110.  
Baker, Reuben C. 2,894,725.  
Baker, Reuben C. 2,897,016.  
Baker, Reuben C. 2,906,347.  
Baker, Reuben C. 2,912,227.  
Baker, Reuben C., and Conrad. 2,874,931.  
Barg, Charles H. 2,872,160.  
Bigelow, Herbert L. 2,871,946.  
Clark, Earnest H., Jr. Re. 24,659.  
Clark, Earnest H., Jr. 2,906,344.  
Conrad, Martin B. 2,874,927.  
Conrad, Martin B. 2,906,492.  
Conrad, Martin B. 2,912,216.  
Conrad, Martin B., and Baker. 2,870,841.  
Crowe, Talmadge L. 2,893,491.  
Muse, John F. 2,874,785.  
Park, Robert O. 2,888,989.  
Baker, Paul, to Julius Kayser & Co. Stocking. 2,901,901, 9-1-59, Cl. 66-178.  
Baker, Paul E., to California Research Corp. Carbon logging through casing. 2,910,591, 10-27-59, Cl. 250-71.  
Baker, Paul E., and S. B. Jones, to California Research Corp. Radioactivity well log transmission system. 2,883,548, 4-21-59, Cl. 250-71.  
Baker, Paul H., to Columbia-Southern Chemical Corp. Preparation of stabilizer. 2,904,517, 9-15-59, Cl. 252-397.  
Baker, Paul W., and W. M. Wolff, to Holeproof Hosiery Co. Display package. 2,917,163, 12-15-59, Cl. 206-46.  
Baker Perkins, Inc.: *See*—  
Armstrong, John D., Flynn, and Wittenberger. 2,883,033.  
Dersch, John A., and Burman. 2,885,973.  
Engels, Eugene O. 2,899,135.  
Engels, Eugene O., and Dersch. 2,900,927.  
Irving, Henry F. 2,899,065.  
Leaman, Raymond J., and Feige. 2,883,032.  
Leaman, Raymond J., and Feige. 2,888,126.  
Ricker, Fred G., and Randall. 2,917,192.  
Smith, Harold K., and Gibbons. 2,899,040.  
Valentyne, Peter H., and Sunbom. 2,902,950.  
Wittenberger, Wallace W. 2,877,888.  
Baker Perkins Ltd.: *See*—  
Farrer, Kenneth. 2,884,115.  
Farrer, Kenneth. 2,917,009.  
Baker, Ralph C., to The Sheffield Corp. Amplifying apparatus for gauging product characteristics. 2,889,704, 6-9-59, Cl. 73-37.9.  
Baker, Ralph D. Wallpaper cutter. 2,889,623, 6-9-59, Cl. 30-294.  
Baker, Reuben C., to Baker Oil Tools, Inc. Releasable clutch device for well tools. 2,871,949, 2-3-59, Cl. 166-237.  
Baker, Reuben C., to Baker Oil Tools, Inc. Stop devices for well conduits. 2,871,950, 2-3-59, Cl. 166-241.  
Baker, Reuben C., to Baker Oil Tools, Inc. Tubing anchor and valve apparatus. 2,878,877, 3-24-59, Cl. 166-212.  
Baker, Reuben C., to Baker Oil Tools, Inc. Clutch for subsurface well tools. 2,878,878, 3-24-59, Cl. 166-237.  
Baker, Reuben C., to Baker Oil Tools, Inc. Cold flow preventing packing structures. 2,885,009, 5-5-59, Cl. 166-204.  
Baker, Reuben C., to Baker Oil Tools, Inc. Releasable clutches for subsurface well apparatus. 2,886,110, 5-12-59, Cl. 166-217.  
Baker, Reuben C., to Baker Oil Tools, Inc. Junk basket for well bores. 2,894,725, 7-14-59, Cl. 255-28.  
Baker, Reuben C., to Baker Oil Tools, Inc. Removable drill pipe protector. 2,897,016, 7-28-59, Cl. 308-4.  
Baker, Reuben C., to Baker Oil Tools, Inc. Subsurface well tools. 2,906,347, 9-29-59, Cl. 166-237.  
Baker, Reuben C., to Baker Oil Tools, Inc. Junk basket for well bores. 2,912,227, 11-10-59, Cl. 255-28.  
Baker, Reuben C., and M. B. Conrad, to Baker Oil Tools, Inc. Tubular string valve devices. 2,874,931, 2-24-59, Cl. 251-218.  
Baker, Richard D.: *See*—  
Maraman, William J., Baxman, and Baker. 2,885,260.  
Baker, Richard D., United States of America, Atomic Energy Commission. Production of plutonium from plutonium fluoride. 2,890,110, 6-9-59, Cl. 75-84.1.  
Baker, Robert F.: *See*—  
Marden, John W., Wroughton, and Baker. 2,916,535.  
Baker, Robert G., to The Dow Chemical Co. Fungicidal compositions and methods employing parachloro-alpha-iodotoluene. 2,919,223, 12-29-59, Cl. 167-30.  
Baker, Robert M., 1/2 to N. K. Morey. Log debarking apparatus. 2,912,023, 11-10-59, Cl. 144-208.  
Baker, Robert N., 1/2 to Independent Iron Works, Inc. Adjustable trailer hitch. 2,893,753, 7-7-59, Cl. 280-501.  
Baker, Robert N., to Bowen & Co., Inc. Dental drill chuck. 2,895,738, 7-21-59, Cl. 279-1.  
Baker, Samuel B.: *See*—  
Norton, James H., and Baker. 2,898,300.  
Baker, Stephen C. Ignition system. 2,871,413, 1-27-59, Cl. 315-224.



- Baker, Stephen D. Elliptical reflector for instrument dials. 2,900,949, 8-25-59, Cl. 116-129.
- Baker, Theodore C., to Container Corp. of America. Carton with hinged lid. 2,889,100, 6-2-59, Cl. 229-44.
- Baker, Thomas W., to Armco Steel Corp. Finishing machine and method for use in the hot dip metallic coating of steel strip, and coated strip. 2,906,018, 9-29-59, Cl. 29-528.
- Baker, Vance A., 60% to C. H. Baker. Engine throttle control system. 2,911,078, 11-3-59, Cl. 192-3.
- Baker, Weldon S. Piston ring expander ring. 2,891,831, 6-23-59, Cl. 309-40.
- Baker, Willard C., to Ford Motor Co. Motor vehicle transmission. 2,901,922, 9-1-59, Cl. 74-687.
- Bakker, Willem, to American Enka Corp. Twister. 2,918,781, 12-29-59, Cl. 57-130.
- Baker, William A.: *See*—
- Pollard, Harold J., and Baker. 2,895,635.
- Baker, William E., to Standard-Thomson Corp. Hot wire device. 2,896,163, 7-21-59, Cl. 324-106.
- Baker, William E., to Standard-Thomson Corp. Mechanical transducers. 2,913,904, 11-24-59, Cl. 73-368.3.
- Baker, William R., to United States of America, Atomic Energy Commission. Resonant cavity excitation system. 2,898,555, 8-4-59, Cl. 331-96.
- Baker, William R., to United States of America, Atomic Energy Commission. Transformer. 2,901,714, 8-25-59, Cl. 336-82.
- Baker, William R., to United States of America, Atomic Energy Commission. Accelerated plasma source. 2,902,614, 9-1-59, Cl. 313-61.
- Baker, William R., Q. A. Kerns, and J. Riedel, to United States of America, Atomic Energy Commission. Resonant cavity excitation system. 2,868,974, 1-13-59, Cl. 250-36.
- Bakke, Hans A., and H. D. Treitel, to General Electric Co. Meter housing. 2,895,637, 7-21-59, Cl. 220-40.
- Bakke, Jack W.: *See*—
- Bakke, John W. 2,872,978.
- Bakke, John W., to N. W. and J. W. Bakke, by decree of final distribution. Tire-buffing machine. 2,872,978, 2-10-59, Cl. 164-10.2.
- Bakke, Laurence D., and J. Pechenik, to Continental Motors Corp. Engine lubrication and ventilation system. 2,902,022, 9-1-59, Cl. 123-196.
- Bakke, Norman W.: *See*—
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- Bakke, William W., to The Dow Chemical Co. Vinylolation of oxazinidinones. 2,905,669, 9-22-59, Cl. 260-244.
- Bakke, William W., to The Dow Chemical Co. Vinylolation of oxazolidinones. 2,905,690, 9-22-59, Cl. 260-307.
- Bakker, Eppe: *See*—
- Starre, Gerrit, and Bakker. 2,900,720.
- Bakker, Martinus A. M.: *See*—
- Duran, Johannes C., Bakker, and van Zanten. 2,873,510.
- Bakker, Pier, to General Telephone Laboratories, Inc. Reverting call telephone system. 2,896,023, 7-21-59, Cl. 179-17.
- Bakker, Willem, to American Enka Corp. Winding apparatus. 2,887,279, 5-19-59, Cl. 242-46.2.
- Bakker, Willem, to American Enka Corp. Ring-twisting apparatus. 2,909,026, 10-20-59, Cl. 57-34.
- Bakos, Joseph A., R. E. McGuire, and R. J. Kensel, to R. Wallace & Sons Mfg. Co. Method of making a one piece solid handle knife. 2,868,042, 1-13-59, Cl. 76-104.
- Balaguer, Rodolfo R., to J. D. Hedges and Co. Ltd. Partnership. Method of forming a bibulous coating on a metallic anode. 2,893,899, 7-7-59, Cl. 117-230.
- Balaguer, Rodolfo R., 62½% to James D. Hedges, and 12½% to Bessemer Securities Corp. Primary battery. 2,903,499, 9-8-59, Cl. 136-107.
- Balas Collet Mfg. Co., The: *See*—
- Abramoska, Alfred A., and Cox. 2,871,721.
- Cox, John R., and Smrekar. 2,872,199.
- Balass, Valentin, to Tetra A. G. fur Hydraulische Bremsen und Apparate. Force storage brake for motor vehicles. 2,887,188, 5-19-59, Cl. 188-170.
- Balassa, Leslie L.: *See*—
- Auer, Laszlo, and Balassa. 2,900,354.
- Balassa, Leslie L. Composition of cellulose and an alkali biuret metal complex. 2,887,398, 5-19-59, Cl. 106-203.
- Balaz, Charles S.: *See*—
- Chall, Harold J., and Balaz. 2,868,445.
- Baldanza, Nicholas T. Tile constructions and mortarless mounting thereof. 2,872,804, 2-10-59, Cl. 72-19.
- Baldanza, Nicholas T. Ultraviolet light illuminated sign and display devices. 2,879,614, 3-31-59, Cl. 40-134.
- Baldanza, Nicholas T. Production of multi-color three-dimensional plaques. 2,889,651, 6-9-59, Cl. 41-24.
- Baldauf, Reginald B. Spring-urged hinge construction for doors, covers and the like. 2,867,841, 1-13-59, Cl. 16-180.
- Baldauski, Francis A.: *See*—
- Arenson, Simon W., and Baldauski. 2,874,050.
- Balde, Ulysse, to Mithra A.G. Punched card machines. 2,918,123, 12-22-59, Cl. 164-115.
- Baldeschwieler, Emil L., to Esso Research and Engineering Co. Reducing the corrosivity of vanadium-containing oils. 2,911,292, 11-3-59, Cl. 44-68.
- Baldi, Alfonso L., Jr.: *See*—
- Schuster, Ludwig K., and Baldi. 2,911,332.
- Baldini, James T., and H. R. Rosenberg, to E. I. du Pont de Nemours and Co. Augmenting poultry feed. 2,879,162, 3-24-59, Cl. 99-4.
- Baldinus, Joseph G., to Colgate-Palmolive Co. Process of preparing stable fatty monoglycerides. 2,910,491, 10-27-59, Cl. 260-110.7.
- Baldoni, Andrew A., and J. J. Miyashiro, to Morton Chemical Co. Preparation of organo mercuric compounds. 2,914-451, 11-24-59, Cl. 204-158.
- Baldrige, James D. Swivel arm hook. 2,877,593, 3-17-59, Cl. 43-42.74.
- Baldrige, Joseph R., to Diamond Alkali Co. Chemical composition and method. 2,895,870, 7-21-59, Cl. 167-22.
- Baldrige, Walter M., and K. R. Davison. Spreader unit for truck bodies. 2,871,021, 1-27-59, Cl. 275-6.
- Baldus, Rudolf, and H. Holler. Method of producing non-distortable linings of noncorrosive, metallic materials for containers of any kind. 2,914,846, 12-1-59, Cl. 29-471.1.
- Baldwin, Alan W. Composite indicator. 2,873,396, 2-10-59, Cl. 313-64.
- Baldwin, Ann. Knock-down garment form and support therefor. 2,901,154, 8-25-59, Cl. 223-68.
- Baldwin, Carroll F. Sleep preventing device. 2,910,679, 10-27-59, Cl. 340-213.
- Baldwin, Charles M. Retractable wheel structure for boats. 2,876,466, 3-10-59, Cl. 9-1.
- Baldwin, Darrell H.: *See*—
- Sesler, Robert W., Baldwin, and Sprouse. 2,874,733.
- Baldwin, David A.: *See*—
- Williams, William H., and Baldwin. 2,919,423.
- Baldwin, Francis P.: *See*—
- Robison, Samuel B., and Baldwin. 2,895,850.
- Serniuk, George E., and Baldwin. 2,918,446.
- Baldwin, Francis P., and S. B. Robison, to Esso Research and Engineering Co. Process for heat treating butyl rubber with an aromatic nitroso compound and product obtained. 2,895,937, 7-21-59, Cl. 260-41.5.
- Baldwin, George C., to General Electric Co. Scintillation converter. 2,902,604, 9-1-59, Cl. 250-71.
- Baldwin, George C., E. R. Gaertner, and M. L. Yeater, to General Electric Co. Adaptation of a high energy electron accelerator as a neutron source. 2,902,613, 9-1-59, Cl. 313-61.
- Baldwin, Gordon S. Instant action boat bailer. 2,909,144, 10-20-59, Cl. 114-185.
- Baldwin, John D., Jr., to The Weatherhead Co. Tube coupling including a pushed deformable tube cutting wedge. 2,873,985, 2-17-59, Cl. 285-342.
- Baldwin, John L. E., Rank Cintel Ltd. Magnetic field generating system. 2,890,382, 6-9-59, Cl. 315-27.
- Baldwin, Lawrence W., to United States of America, Atomic Energy Commission. Calutron cathode interlock circuit. 2,888,563, 5-26-59, Cl. 250-41.9.
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- Baldwin, Lee E., and M. C. Bokelman, to Conair, Inc. Flow limiter. 2,881,794, 4-14-59, Cl. 137-501.
- Baldwin, Leroy D., to General Dynamics Corp. Antennas. 2,885,676, 5-5-59, Cl. 343-767.
- Baldwin-Lima-Hamilton Corp.: *See*—
- Albers, Heinrich B. 2,908,316.
- Bacchi Ray. 2,908,182.
- Brown, Edwin C., and Gaden. 2,899,006.
- Byerlein, Arthur A. 2,888,894.
- Govan, William L. 2,899,053.
- Hall, Keith W. 2,867,844.
- Hall, Keith W. 2,882,556.
- Hines, Frank F., and McGrath. 2,868,570.
- Hines, Frank F. 2,913,691.
- Kutsay, Ali U. 2,882,720.
- Lasley, Robert A. 2,874,585.
- Lathrop, Robert P. 2,883,617.
- Lewis, Frank M. 2,884,912.
- Lewis, Frank M., Keenan, and Goldmann. 2,895,291.
- McGrath, John F. 2,913,690.
- Reichl, Raymond M. 2,903,130.
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- Ruge, Arthur C. 2,868,535.
- Sack, Joel. 2,900,090.
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- Snier, Hans G. 2,869,524.
- Willi, Richard B. 2,913,057.
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- Baldwin Piano Co., The: *See*—
- Corwin, Merton D. 2,873,638.
- Gregory, Marion B. 2,899,648.
- Livezey, Frederic M. 2,888,632.
- Jones, Edward M. 2,868,593.
- Jones, Edward M. 2,910,684.
- Jones, Edward M., and Winder. 2,902,655.
- Martin, Daniel W. 2,879,683.
- Munch, Walter, Jr. 2,918,576.
- Schmidt, Vernon E. 2,907,996.
- Timperman, Ernest J. 2,916,706.
- Baldwin, Robert P., C. S. Jennings, and R. H. Eckert. Integrated air-borne towing apparatus. 2,892,599, 6-30-59, Cl. 244-3.
- Baldwin, Vincent C.: *See*—
- Pick, Joseph R., and Lasinski. 2,867,306.



- Baldwin, William S., D. E. Floyd, and R. F. Paschke, to General Mills, Inc. Treatment of poly-unsaturated fatty acids. 2,868,815, 1-13-59, Cl. 260—413.
- Baldwin, William W., to Cambridge Filter Mfg. Corp. Filters. 2,884,091, 4-28-59, Cl. 183—71.
- Bales, Charles A., and H. O. Linde, to United States Steel Corp. Control system for lifting apparatus. 2,906,249, 9-29-59, Cl. 121—46.
- Bales, John K. Universal service drop conduit brace. 2,914,279, 11-24-59, Cl. 248—49.
- Bales, Raymond W. Floor waxing device. 2,911,661, 11-10-59, Cl. 15—98.
- Balestrini, Roberto H. Electric heating element. 2,912,661, 11-10-59, Cl. 338—58.
- Balfe, Bernard J., and P. G. Edgerley, to Imperial Chemical Industries Ltd. Aqueous pigmented dispersion containing a butadiene-methyl methacrylate copolymer. 2,883,355, 4-21-59, Cl. 260—29.7.
- Balfour, Beatty & Co., Ltd.: See—  
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- Balinkin, Isay: See—  
Burchenal, Charles H., and Balinkin. 2,887,867.
- Balinkin, Isay, and C. H. Dwight. Device for demonstrating color mixture. 2,917,836, 12-22-59, Cl. 35—28.3.
- Balint, Allen E.: See—  
Ramsden, Hugh E., and Balint. 2,890,176.
- Balint, John: See—  
Flora, Laurence H., and Balint. 2,893,671.
- Balje, Otto E., and C. R. Stein, to Crane Co. Cooling turbine. 2,904,307, 9-15-59, Cl. 253—55.
- Ball, Albert L., to Bay State Abrasive Products Co. Durable open-mesh fabric. 2,874,729, 2-24-59, Cl. 139—383.
- Ball, Alpheus M., to United States of America, Army. Preparation of rolled sheets of smokeless powder. 2,907,073, 10-6-59, Cl. 1—1.
- Ball, Arthur F., R. H. Goldbaum, and E. H. Whitney,  $\frac{1}{2}$  to R. H. Goldbaum, and  $\frac{1}{2}$  to M. M. Segal. Hollow heel for shoes. 2,906,039, 9-29-59, Cl. 36—34.
- Ball Brothers Co., Inc.: See—  
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- Ball, Fred M., and C. H. Coney, to Eastman Kodak Co. Sulfonic acid catalyzed cellulose acetate butyrate urea-formaldehyde coating composition for paper and process of preparation. 2,875,164, 2-24-59, Cl. 260—15.
- Ball, Gaines L., and J. Hamrick, to The Batson-Cook Co. Vapor hood for size box. 2,897,575, 8-4-59, Cl. 28—28.
- Ball, Henry, to Radio Corp. of America. Bistable relays. 2,895,027, 7-14-59, Cl. 200—87.
- Ball, Henry A., to The Cleanola Co. Apparatus and method for applying coatings. 2,889,237, 6-2-59, Cl. 117—94.
- Ball, Howard L., and J. M. Yuarte. Pliers with handle latching means. 2,881,649, 4-14-59, Cl. 81—339.
- Ball, John A.: See—  
Dolman, Henry J., Hamilton, and Ball. 2,890,554.
- Ball, John S., to Henry Simon, Ltd. Rotary feeders for positive pressure pneumatic conveyor systems. 2,891,685, 6-23-59, Cl. 214—17.
- Ball, Thomas M., to Chrysler Corp. Fuel injection system. 2,918,914, 12-29-59, Cl. 123—119.
- Ballantine Laboratories, Inc.: See—  
Uiga, Endel. 2,879,474.
- Ballantine, P., & Sons: See—  
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- Horn, Peter. 2,880,030.
- Ballard, Chennie M. Disc valve. 2,902,252, 9-1-59, Cl. 251—168.
- Ballard, Hyde W., to James Lees and Sons Co. Pile wire for looms. 2,874,725, 2-24-59, Cl. 139—44.
- Ballard, James W.: See—  
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- Ballard, James W., and H. Brier, to The Commonwealth Engineering Co. of Ohio. Hydraulic system accumulator means. 2,893,434, 7-7-59, Cl. 138—30.
- Ballard, John H.: See—  
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- Ballard, Randall C., to Radio Corp. of America. Light filter. 2,880,268, 3-31-59, Cl. 178—5.4.
- Ballard, Robert G., to General Electric Co. Flowmeter. 2,914,943, 12-1-59, Cl. 73—194.
- Ballard, Robert G., to General Electric Co. Frequency-compensated flowmeter system. 2,914,944, 12-1-59, Cl. 73—194.
- Ballard, Seaver A.: See—  
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- Raley, John H., Mullineaux, and Ballard. 2,898,386.
- Ballard, Wiley P., S. P. Dickens, J. K. McKinley, and B. F. Smith, to The Texas Co. Hydrocarbon coking and hydrogenation process. 2,888,393, 5-26-59, Cl. 208—58.
- Ballard, Wiley P., J. R. Gibson, and B. F. Fort, Jr., to Texaco Inc. Recovery and utilization of normally gaseous olefins. 2,906,795, 9-29-59, Cl. 260—683.43.
- Ballaue, Alb C.: See—  
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- Baller, Maurice H.: See—  
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- Ballet, Leon R., 70% to Societe Anonyme dite: Pleyel. Piano-action. 2,917,962, 12-22-59, Cl. 84—242.
- Ballew, Julius R. Anchoring device. 2,899,029, 8-11-59, Cl. 189—92.
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- Ballinger, Dale O.: See—  
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- Ballinger, Wallace A., to Otis Co. Latched-backbone removable mop. 2,890,471, 6-16-59, Cl. 15—229.
- Ballo, Carlo. Soap cake holder. 2,883,791, 4-28-59, Cl. 45—28.
- Ballon, Frederick E. M.: See—  
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- Ballou, Richard P., to Federal Pacific Electric Co. Electric switches. 2,907,856, 10-6-59, Cl. 200—170.
- Ballweber, Edward G.: See—  
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- Balmain, William A., to Uni-Secco (Overseas) Ltd. Building structures. 2,867,007, 1-6-59, Cl. 20—4.
- Balmer, Donald F.: See—  
Runge, Frank E., and Balmer. 2,891,131.
- Balmer, William, to Autoscreen Mfg. Co. Ltd. Screen printing machines. 2,870,703, 1-27-59, Cl. 101—126.
- Balmes Solanas, Ramon, to Estirajes Balmes, S.A. Mechanism for applying pressure to the drafting rollers of spinning and other textile preparatory machines. 2,884,664, 5-5-59, Cl. 19—135.
- Balocca, Alfred E.: See—  
Canniff, Thomas L., and Balocca. 2,917,391.
- Balogh, Roy O., to McCabe-Powers Auto Body Co. Door latch. 2,871,048, 1-27-59, Cl. 292—173.
- Balogh, Roy O., to McCabe-Powers Auto Body Co. Tower vehicles. 2,888,299, 5-26-59, Cl. 304—29.
- Balonick, Samuel A., to Superior Sleeprite Corp. Guard rail for beds. 2,871,490, 2-3-59, Cl. 5—331.
- Balsam, Maurice M. Die presses. 2,879,826, 3-31-59, Cl. 153—1.
- Balsiger, Harold E., to Landis Tool Co. Concentric loader. 2,874,518, 2-24-59, Cl. 51—103.
- Balsiger, Harold E., and A. J. Jones, to Landis Tool Co. Work transfer apparatus. 2,867,058, 1-6-59, Cl. 51—105.
- Baltes, Bernard J., and S. L. Steelman. Preparation of oxytocin and ACTH. 2,910,404, 10-27-59, Cl. 167—74.
- Balthis, Joseph H., Jr., to E. I. du Pont de Nemours and Co. Polymerization of ethylene. 2,887,473, 5-19-59, Cl. 260—94.9.
- Baltimore Paint & Color Works: See—  
Shuger, Leroy W. 2,897,732.
- Shuger, Leroy W. 2,897,733.
- Baltrush, John J., Jr.: See—  
Smith, Raymond E., and W. R., and Baltrush. 2,905,102.
- Baltus, George T., M. P. Wolpin, B. Smith, Jr., and J. S. Lachick, to Hydraulic Research & Mfg. Co. Servo valves. 2,897,792, 8-4-59, Cl. 121—46.5.
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- Baluck, Francis M., A. J. Brunner, and H. F. Runge, to Western Electric Co., Inc. Article-handling device for racks. 2,911,087, 11-3-59, Cl. 198—26.
- Balzer, Abram P. Implement mounting device for tractors. 2,904,117, 9-15-59, Cl. 172—448.
- Balzhiser, James K.: See—  
Billingsley, William F., and Balzhiser. 2,869,609.
- Bamat, Joseph, to Amida S.A. Watch movement including a sweep seconds hand. 2,898,730, 8-11-59, Cl. 58—59.
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- Bamberger, Julien G., to B-T Co., Inc. Retaining clamps. 2,879,969, 3-31-59, Cl. 248—361.
- Bamberger, Roland: See—  
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- Bamburg, Robert A., to Olin Mathieson Chemical Corp. Shipping container. 2,894,672, 7-14-59, Cl. 229—27.
- Bame, John L.: See—  
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- Bamford, William P., to Libbey-Owens-Ford Glass Co. Method of bending glass sheets. 2,869,287, 1-20-59, Cl. 49—84.
- Bamm Corp.: See—  
Bagarozzy, Tully J. 2,880,664.
- Bampton, Robert F.: See—  
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- Ban, Syoiti, to Tokeda Pharmaceutical Industries, Ltd.  $\alpha$ -Isonicotinoyl- $\beta$ -carbalboxyhydrazines. 2,908,687, 10-13-59, Cl. 260—295.
- Ban, Thomas E.: See—  
McDowell, Robert C., and Ban. 2,876,489.
- Banas, Conrad M.: See—  
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- Bancroft-Brillotex International S.A.: See—  
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- Bancroft Cap Co.: See—  
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- Weinstein, Bernard. 2,878,480.



- Bancroft, George H., to Consolidated Electrodynamics Corp. Liquid level control apparatus. 2,898,933, 8-11-59, Cl. 137—392.
- Bancroft, Joseph, & Sons Co.: See—  
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- Bandel, David: See—  
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- Bander, Alfred: See—  
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- Bandfield, Russel E., and C. J. Kraemer. Combination spout cap and flint holder. 2,886,171, 5-12-59, Cl. 206—42.
- Bandli, John C., L. W. Foster, and D. K. Farmer, to McCulloch Corp. Rotary pump impeller. 2,899,902, 8-18-59, Cl. 103—117.
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- Bandy, Kenneth L., and R. C. Davidson, to The McKay Machine Co. Brake control for uncoiler. 2,900,143, 8-18-59, Cl. 242—75.44.
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- Banes, Fred W.: See—  
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- Banes, Fred W., and W. P. Fitz Gerald, to Esso Research and Engineering Co. Process for reacting a copolymer of an isolefin and a conjugated diene with a polar organic monomer and product thereof. 2,901,458, 8-25-59, Cl. 260—45.5.
- Banfield, Thomas J.: See—  
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- Banfill, Bill L. Electrical caliper device. 2,886,892, 5-19-59, Cl. 33—148.
- Bang, Mogens W., to Allen B. Du Mont Laboratories, Inc. Electrical panel assembly for dip soldering. 2,884,612, 4-28-59, Cl. 339—150.
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- Bangert, Charles, Jr.: See—  
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- Bangert, James G., and A. Feldman, to General Foods Corp. Food product. 2,901,355, 8-25-59, Cl. 99—139.
- Bangert, John T., to Bell Telephone Laboratories, Inc. Computer for network synthesis. 2,910,241, 10-27-59, Cl. 235—180.
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- Baniel, Abraham, and R. Blumberg, to Makhtsavi Israel. Process for the preparation of phosphoric acid. 2,880,063, 3-31-59, Cl. 23—165.
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- Baniel, Abraham, and R. Blumberg, to Makhtsavi Israel. Process for the preparation of water-soluble metal sulfates, phosphates or nitrates. 2,902,341, 9-1-59, Cl. 23—50.
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Lippman, Samuel. 2,876,936.
- Bank, Albert M., and A. J. Katz, to Super Sagless Spring Corp. Reclining furniture. 2,884,990, 5-5-59, Cl. 155—106.
- Bank, Morton L. Jack device for lifting fixtures and the like. 2,882,100, 4-14-59, Cl. 304—2.
- Bank of America National Trust and Savings Assn.: See—  
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Ordorica, Miguel A. 2,894,592.
- Bank, Thor G., to Allis-Chalmers Mfg. Co. Time delay device for circuit breakers. 2,881,285, 4-7-59, Cl. 200—97.
- Banker, Louis C. Ice cream container rack. 2,878,958, 3-24-59, Cl. 220—85.
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- Banker, Oscar H., to New Products Corp. Oil level gauge. 2,876,548, 3-10-59, Cl. 33—126.4.
- Banker, Oscar H., to New Products Corp. Open center valve. 2,879,748, 3-31-59, Cl. 121—46.5.
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- Banker, Oscar H., to New Products Corp. Closed center valve and system. 2,894,533, 7-14-59, Cl. 137—622.
- Banker, Oscar H., to New Products Corp. Accessory drive. 2,896,477, 7-28-59, Cl. 74—752.
- Banker, Oscar H., to New Products Corp. Accessory drive. 2,901,924, 9-1-59, Cl. 74—752.
- Banker, Oscar H., to New Products Corp. Flow divider. 2,910,085, 10-27-59, Cl. 137—101.
- Banker, Oscar H., to New Products Corp. Open center valve with limited reaction. 2,914,035, 11-24-59, Cl. 121—46.5.
- Bankert, Ralph A., to Hercules Powder Co. 2,2'-methylenebis-(5-isopropylphenol). 2,877,210, 3-10-59, Cl. 260—45.95.
- Bankit Container Co.: See—  
Humphrey, Norman J. 2,917,224.
- Banks, George B., to English Electric Valve Co. Ltd. Television and like camera tube arrangements. 2,888,601, 5-26-59, Cl. 315—11.
- Banks, George W. High pressure metering valve. 2,917,271, 12-15-59, Cl. 251—122.
- Banks, Nathaniel H.: See—  
Smith, Joseph N. 2,875,925.
- Banks, Robert R.: See—  
Roche, Charles E., and Banks. 2,883,268.
- Banks, Stanley A. Sunshade for fuel tank. 2,876,715, 3-10-59, Cl. 108—1.
- Banks, Sydney E.: See—  
Fairest, Derek H., and Banks. 2,908,414.
- Banks, Waldo H.: See—  
Newbegin, John L., and Banks. 2,872,948.
- Bann, Michael S., and H. O. Lewis, to Collins Radio Co. Magnetostrictive resonant-disc test jig. 2,897,439, 7-28-59, Cl. 324—34.
- Banner Welder, Inc.: See—  
Forssmark, Boo H. 2,906,856.
- Banning Electrical Products Corp.: See—  
Banning, Gerald E. 2,881,338.
- Banning, Gerald E., to Banning Electrical Products Corp. Variable speed alternating current motor. 2,881,338, 4-7-59, Cl. 310—119.
- Banning, Thomas A., Jr. Cigarette machines and the like. 2,873,745, 2-17-59, Cl. 131—59.
- Bannister, Constance, and J. H. Hatcher. Nursing bottle assembly. 2,870,930, 1-27-59, Cl. 215—11.
- Bannister, Constance, and M. Petitta. Visor cap. 2,874,387, 2-24-59, Cl. 2—195.
- Bannister, Lemuel: See—  
Fidelman, Paul H. 2,882,598.
- Bannon, Thomas W., to U.S. Industries, Inc. Slide adjustment control for metal working press. 2,884,885, 5-5-59, Cl. 113—038.
- Bannow, Rudolph F., to Bridgeport Machines, Inc. Variable leverage joy stick for feeding work. 2,912,879, 11-17-59, Cl. 74—525.
- Banowetz, Michael W., Sr., to Southern Ant Trap Co., Inc. Ant trap. 2,907,136, 10-6-59, Cl. 43—121.
- Banta, George E. Refuse bag holder. 2,896,828, 7-28-59, Cl. 224—42.46.
- Bantar, Inc.: See—  
McBride, John W. 2,906,158.
- Banus, Mario D., E. R. Winiarczyk, and H. W. Lambe, to Metal Hydrides Inc. Method for preparing sodium hydride. 2,898,195, 8-4-59, Cl. 23—204.
- Baptist, Arthur H., to F. Granberg. Sash lock. 2,884,276, 4-28-59, Cl. 292—336.
- Baptista, Albert. Water control system for planting machines. 2,888,890, 6-2-59, Cl. 111—7.
- Bar Products Co.: See—  
Povse, Vincent A., and Zerby. 2,894,281.
- Barabas, John J., to Castro Convertible Corp. Reclining chair structure. 2,892,484, 6-30-59, Cl. 155—106.
- Barabas, Silvio, to Canadian Copper Refiners Ltd. Process of separating palladium from metals of the platinum group. 2,875,040, 2-24-59, Cl. 75—121.
- Barabutes, Nena K.: See—  
Hein, Delton W., Alheim, and Barabutes. 2,877,252.
- Barabutes, Theodore, and A. Kulick, Jr., to Westinghouse Electric Corp. Remote metering apparatus. 2,900,607, 8-18-59, Cl. 332—16.
- Barabutes, Theodore, and A. Kulick, Jr., to Westinghouse Electric Corp. Remote metering apparatus. 2,900,627, 8-18-59, Cl. 340—186.
- Baraké, Gabriel S. Method applied to cinematographic scenes to obtain three dimensional effects of moving pictures without the use of special glasses. 2,891,440, 6-23-59, Cl. 88—16.
- Baral, Leon L., to W. R. Grace & Co. Method of preparing silica-alumina catalysts. 2,904,521, 9-15-59, Cl. 252—455.
- Barall, Karl, to Rhein Stahl Wanheim Gesellschaft mit beschränkter Haftung. Pit props. 2,911,181, 11-3-59, Cl. 248—357.
- Baram, Samuel. Sweep stick for looms. 2,917,086, 12-15-59, Cl. 139—151.
- Baran, John S.: See—  
Pappo, Raphael, and Baran. 2,912,432.
- Baran, John S., and R. Pappo, to G. D. Searle & Co. 3-oxocon-1,4-dienine, and intermediates for its preparation. 2,910,470, 10-27-59, Cl. 260—239.5.
- Baran, Joseph G., to Burgess-Manning Co. Combined panel heating, cooling and lighting system. 2,887,564, 5-19-59, Cl. 240—9.
- Baran, Joseph G., to Burgess-Manning Co. Combined panel heating, cooling and lighting system. 2,887,565, 5-19-59, Cl. 240—9.
- Baran, Paul. Null-responsive ratio-modulation multiplex data transmission systems. 2,879,501, 3-24-59, Cl. 340—182.



- Baranauckas, Charles F., A. L. Blackwell, and J. L. Olmstead, to Hooker Chemical Corp. Process for the manufacture and recovery of a chlorine-containing carboxylic anhydride. 2,903,463, 9-8-59, Cl. 260—346.6.
- Baranauckas, Charles F., and R. R. White, to Hooker Chemical Corp. Hydrogenation of esters of perfluorinated dicarboxylic acids. 2,911,441, 11-3-59, Cl. 260—633.
- Baranauckas, Charles F., and D. H. Campbell, to Hooker Chemical Corp. Recovery of saturated perhalogenated fluorine containing hydrocarbons. 2,916,526, 12-8-59, Cl. 260—653.
- Baranoff, Nicolas: *See*—  
Volcov, Vittorio, and Baranoff. 2,868,492.
- Baranowski, Leslie B.: *See*—  
Topol, George J., Baranowski, and Bartik. 2,870,859.
- Barany, Oscar: *See*—  
Goldberg, Rubin, and Barany. 2,882,702.
- Baratelli, Charles: *See*—  
Benedict, Michael D., Jr., and Baratelli. 2,874,462.
- Barath, Josef. Sofa bed. 2,876,463, 3-10-59, Cl. 5—21.
- Baraut, Marcel J.: *See*—  
Paris, Francois G., Salmon, Mihail, Baraut, and Bertin. 2,878,790.
- Barb, Wolfgang G.: *See*—  
Roper, Alec N., Seijo, and Barb. 2,914,505.
- Barbanotti, Mario. Apparatus for forming a suction-cup receiving cavity in a moulded denture. 2,916,766, 12-15-59, Cl. 18—5.7.
- Barbeau, Raymond A., and H. L. Meade, to International Business Machines Corp. Automatic column error obliteration for paper tape. 2,901,041, 8-25-59, Cl. 164—113.
- Barbeau, Raymond A., and J. B. Norris, to International Business Machines Corp. Multiple purpose unit record control device. 2,910,536, 10-27-59, Cl. 178—92.
- Barber, Alfred E., and A. Maiga. Clothes pin bag. 2,917,260, 12-15-59, Cl. 248—99.
- Barber-Colman Co.: *See*—  
Campbell, William G., and Kelly. 2,918,849.  
Cotta, Ralph L. 2,906,178.  
Crandall, Charles B. 2,909,828.  
Glassow, Franklyn A. 2,882,461.  
Kennedy, Walter W. 2,872,859.  
Kennedy, Walter W. 2,891,576.  
Livingston, Richard D. 2,885,920.  
Marcellus, Brooks. 2,885,658.  
Paulson, William A. 2,889,536.  
Schaeve, Donald K. 2,908,829.  
Trost, Wayne C. 2,867,028.  
Welker, Oscar L., and Hetchler. 2,873,368.  
Westbrook, Lowell V. 2,898,981.
- Barber, Edmund A., Jr., to International Business Machines Corp. Printing machine. 2,909,971, 10-27-59, Cl. 95—1.7.
- Barber, Franklin D., to Standard Car Truck Co. Seal ring for journal bearing. 2,903,306, 9-8-59, Cl. 308—83.
- Barber, George R.: *See*—  
Barber, Harry A., and Sauer. 2,893,600.  
Barber, Harry A., and Sauer. 2,893,601.  
Barber, Harry A., Sauer, and Heacock. 2,893,602.  
Sieg, Robert P., and Barber. 2,870,082.
- Barber-Greene Co.: *See*—  
Barber, Harry A., and Ross. 2,913,710.  
Sauer, James F. 2,873,955.  
Stewart, Edward C. 2,869,710.
- Barber, Harry A., and J. F. Sauer, to Barber-Greene Co. System and apparatus for measuring loose material. 2,893,600, 7-7-59, Cl. 222—1.
- Barber, Harry A., and J. F. Sauer, to Barber-Greene Co. System and apparatus for measuring bitumen and the like. 2,893,601, 7-7-59, Cl. 222—1.
- Barber, Harry A., J. F. Sauer, and R. C. Heacock, to Barber-Greene Co. Apparatus for measuring aggregate for mixture with asphalt. 2,893,602, 7-7-59, Cl. 222—77.
- Barber, Harry A., and B. M. Ross, to Barber-Greene Co. Indicator and shut-off for aggregate bins. 2,913,710, 11-17-59, Cl. 340—246.
- Barber, Michael F., and A. H. Raubitschek. Artificial bird. 2,903,819, 9-15-59, Cl. 46—156.
- Barber, William: *See*—  
Carver, Gordon M., Jr., and Barber. 2,893,548.
- Barbera, Robert A. Shock absorption and vibration isolator. 2,876,979, 3-10-59, Cl. 248—358.
- Barberis, Fortunato, to General Motors Corp. Injector igniter plug. 2,885,859, 5-12-59, Cl. 60—39.82.
- Barberis, Giovanni, to Riv. Officine Di Villar Perosa Societa per Azioni. Lever operated differential actuating mechanism. 2,869,783, 1-20-59, Cl. 235—3.
- Barbknecht, Fred W., to International Harvester Co. Cotton picker spindle mounting. 2,869,308, 1-20-59, Cl. 56—50.
- Barbour, Fenner S.: *See*—  
Worthen, Eugene P., and Barbour. 2,893,926.
- Barbour, John P.: *See*—  
Dyke, Walter P., and Barbour. 2,916,668.
- Barbour Welting Co.: *See*—  
Shea, Francis L. 2,916,834.  
Vizard, William C. 2,912,700.  
Vizard, William C. 2,912,701.
- Barch, William E., to Standard Brands Inc. Pyrophosphate baking powders. 2,870,017, 1-20-59, Cl. 99—95.
- Barch, William E., and W. Neumann, to Standard Brands Inc. Cheese composition. 2,871,127, 1-27-59, Cl. 99—117.
- Barchmann, Helmut, H. Freier, and H. Kruse, to Dr.-Ing. Schneider & Co. Lights intended for use in the open air. 2,916,609, 12-8-59, Cl. 240—25.
- Barclay, Earle H. Method of forming an abrasive sheet. 2,899,288, 8-11-59, Cl. 51—293.
- Barclay, Eugene S., to Merck & Co., Inc. Vented bottle closure. 2,884,152, 4-28-59, Cl. 215—56.
- Barclay, James C.: *See*—  
Rutland, David F., and Barclay. 2,868,454.
- Barclays Bank Ltd.: *See*—  
Clarke, George W., Weston, and Andrews. 2,894,055.  
Clarke, George W., Weston, and Andrews. 2,914,599.
- Barcroft, Stanley, to The Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Gyroscopic apparatus. 2,868,022, 1-13-59, Cl. 74—5.4.
- Bard, Francis N.: *See*—  
Oswald, Harry J. 2,907,590.
- Bard, George L., to Ortho-Sonic Instruments, Inc. Play-back sound reproducer. 2,869,877, 1-20-59, Cl. 274—23.
- Bard-Parker Co., Inc.: *See*—  
Ladd, John W. B. 2,890,792.  
Ladd, John W. B., and Arden. 2,890,801.
- Bardash, Manuel L., and D. P. Saret, to American Bosch Arma Corp. Punch through tester. 2,917,710, 12-15-59, Cl. 324—158.
- Bardeen, Thomas, to Gulf Research & Development Co. Sequence indicator for oscillograms. 2,867,490, 1-6-59, Cl. 346—49.
- Bardeen, Thomas, to Gulf Research & Development Co. Seismometer. 2,890,438, 6-9-59, Cl. 340—17.
- Bardeen, Thomas, to Gulf Research & Development Co. Automatic volume control systems for seismograph amplifiers. 2,905,772, 9-22-59, Cl. 179—171.
- Bardeen, Thomas, to Gulf Research & Development Co. Control for seismograph prospecting filter circuits. 2,911,600, 11-3-59, Cl. 333—70.
- Bardeen, Thomas, and I. C. Zacher, to Gulf Research & Development Co. Seismograph filter systems. 2,867,779, 1-6-59, Cl. 333—70.
- Barden Corp., The: *See*—  
Mims, Bruce L. 2,867,113.  
Mims, Bruce L. 2,867,114.
- Barden, Wayne A.: *See*—  
Budd, Wilbert H., Christner, Barden, Kehres, and Daily. 2,871,328.
- Hartman, Clinton W., Daily, and Barden. 2,916,717.
- Barden, Wayne A., and M. B. Arisman, to Chicago Telephone Supply Corp. Electric snap switch. 2,881,280, 4-7-59, Cl. 200—77.
- Barden, Wayne A., and C. C. Snyder, to Chicago Telephone Supply Corp. High voltage variable resistor. 2,899,662, 8-11-59, Cl. 338—174.
- Barden, Wayne A., C. C. Snyder, and G. S. Thompson, to Chicago Telephone Supply Corp. Electrical control instrumentality. 2,909,749, 10-20-59, Cl. 338—163.
- Bardin, Joe P., and W. H. Dudar. Tire pressure indicators. 2,874,241, 2-17-59, Cl. 200—61.25.
- Bardini, Armando J.: *See*—  
Freeman, Marshall E. C., Creed, and Bardini. 2,905,216.
- Bardoneschi, Roland: *See*—  
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Muller, Georges, Joly, and Bardoneschi. 2,888,472.
- Bardons & Oliver, Inc.: *See*—  
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- Bardorf, Oskar, to Aktiengesellschaft Brown, Boveri & Cie. Heavy duty switch with magnetic blasting. 2,871,320, 1-27-59, Cl. 200—146.
- Bardos, Thomas J., and D. B. Olsen, to Armour and Co. Analogs of riboflavin and their preparation. 2,867,614, 1-6-59, Cl. 260—211.3.
- Bardy, Peter J., to General Binding Corp. Combined punch and binding machine. 2,908,173, 10-13-59, Cl. 74—107.
- Bardy, Peter J., and A. Siegelman, to Armour Research Foundation of Illinois Institute of Technology. Container filling machine. 2,901,209, 8-25-59, Cl. 249—15.
- Bare, Conrad B., and R. L. Clauser, to Bethlehem Steel Co. Nickel and cobalt recovery from ammoniacal solutions. 2,879,137, 3-24-59, Cl. 23—183.
- Barecki, Chester J., to American Seating Co. Safety equipment for vehicle occupants. 2,886,259, 5-12-59, Cl. 242—107.4.
- Barecki, Chester J., to American Seating Co. Safety equipment for vehicle occupants. 2,898,976, 8-11-59, Cl. 155—189.
- Barecki, Chester J., to American Seating Co. Automatic reel. 2,899,146, 8-11-59, Cl. 242—107.4.
- Barecki, Chester J., to American Seating Co. Vehicle seat. 2,907,378, 10-6-59, Cl. 155—191.
- Barefoot, Carlton K., to Bacon American Corp. Apparatus for retreading tires. 2,903,742, 9-15-59, Cl. 18—18.
- Barel, Cornelis, to Rudolf Blik. Electrische Apparaten-en Metaalwarenfabriek N. V. Rotary cleaning brush attachment for suction cleaning devices. 2,870,468, 1-27-59, Cl. 15—49.
- Baren, Louis. Laboratory rack. 2,883,063, 4-21-59, Cl. 211—78.
- Barengoltz, Bernard A., to McGraw-Edison Co. Transformer core and coil clamping means. 2,886,791, 5-12-59, Cl. 336—197.
- Barens, Leonard H., to The Garrett Corp. Contour or spiral milling device. 2,909,966, 10-27-59, Cl. 90—13.



- Barenyi, Bela. Vehicle body composed of an upper and a lower section. 2,880,032, 3-31-59, Cl. 296-28.
- Barényi, Béla, to Daimler-Benz Akt. Car body made of angularly joined body parts. 2,886,373, 5-12-59, Cl. 296-28.
- Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Automobile with flap door. 2,903,296, 9-8-59, Cl. 296-44.
- Barényi, Béla. Device for lifting or loading automobiles. 2,915,334, 12-1-59, Cl. 296-28.
- Barényi, Béla, and K. Wilfert, to Daimler-Benz Akt. Wind-shield wipers for motor vehicles. 2,880,444, 4-7-59, Cl. 15-253.
- Barényi, Béla, and K. Wilfert, to Daimler-Benz Akt. Light system for automobiles. 2,900,491, 8-18-59, Cl. 240-71.
- Barfield, Robert H., and M. G. Gibbs, to Wild-Barfield Electric Furnaces Ltd. Inductors for heating tubes or cylinders. 2,868,938, 1-13-59, Cl. 219-1049.
- Barfod, Frederik, to Bendix Aviation Corp. Mixture control device. 2,910,280, 10-27-59, Cl. 261-69.
- Bärffuss, Alfred, and W. Weiz, to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon. Cooled burner designed for shielded arc welding and cutting of metals. 2,903,560, 8-9-59, Cl. 219-75.
- Barg, Charles H., to Baker Oil Tools, Inc. Hydraulic expandable rotary well drilling bit. 2,872,160, 2-3-59, Cl. 255-76.
- Barg, Dora A. Clamp support for carrying artist's canvases. 2,875,934, 3-3-59, Cl. 224-45.
- Barg, Herbert, to True Form Corset Co., Inc. Girdle construction. 2,867,217, 1-6-59, Cl. 128-547.
- Barg, William, to True Form Foundations, Inc. Brassiere construction. 2,882,905, 4-21-59, Cl. 128-482.
- Bargero, Camillo. Multiple chamber ball mill. 2,884,209, 4-28-59, Cl. 241-153.
- Bargholtz, Hubert F. S., K. E. E. Lindbergh, P. R. Schmechtig, and N. R. Ström, to Aktiebolaget Tudor. Method and apparatus for continuous manufacture of composite tubes. 2,912,043, 11-10-59, Cl. 154-1.8.
- Bargman, Theodore. Tail lights. 2,916,607, 12-8-59, Cl. 240-8.3.
- Bargren, Herman E.: See—  
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- Baril, Albert, Jr., I. H. De Barbieris, R. T. Nieset, and T. Stearns, to Kalvar Corp. System of photographic reproduction. 2,911,299, 11-3-59, Cl. 96-49.
- Baring, John A., and W. J. Popowsky, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,910,585, 10-27-59, Cl. 250-27.
- Barish, Thomas. Method of assembling rolling bearing elements. 2,885,767, 5-12-59, Cl. 29-148.4.
- Barish, Thomas, C. F. Irwin, R. E. Line, and C. B. Wright, to General Motors Corp. Rotatable seal for cowlings. 2,226,112, 5-12-59, Cl. 170-160.23.
- Barium and Chemicals, Inc.: See—  
Bundy, Willard S. 2,890,102.
- Barium Steel Corp.: See—  
Sisto, Joseph A., and Milos. 2,901,234.
- Barkalow, Clare E.: See—  
Webster, Stokely, and Barkalow. 2,918,642.
- Barkas, Walter H. Ionization recording capsules. 2,874,299, 2-17-59, Cl. 250-65.
- Barkdoll, Joseph P., to Smith-Corona Marhant Inc. Typewriter case shift mechanism. 2,896,766, 7-28-59, Cl. 197-74.
- Barkdoll, Joseph P., to Smith-Corona Marchant Inc. Spacing mechanism for power operated typewriter. 2,896,767, 7-28-59, Cl. 197-82.
- Barkdoll, Joseph P., to Smith-Corona Marchant Inc. Typewriter having power operated instrumentalities. 2,901,079, 8-25-59, Cl. 197-17.
- Barkeley Mfg. Co.: See—  
Clayton, William. Re. 24,717.
- Barkely & Dexter, Inc.: See—  
Dexter, Robert G. 2,918,828.
- Barker, Alvin. Greeting card or folder. 2,906,058, 9-29-59, Cl. 46-175.
- Barker, Clifford L., to Walker, Crossweller & Co. Ltd. Fluid flow indicator. 2,884,891, 5-5-59, Cl. 116-117.
- Barker, Dennie W., to Edwards High Vacuum Ltd. Apparatus for vaporization of metals and metalloids. 2,902,525, 9-1-59, Cl. 13-25.
- Barker, Ernest C., to United States Steel Corp. Strap-tensioning tool. 2,890,591, 6-16-59, Cl. 74-154.
- Barker, Graham, to Witco Chemical Co., Inc. Wax emulsion polishes. 2,908,578, 10-13-59, Cl. 106-8.
- Barker, John L., to Eastern Industries, Inc. Traffic actuated control system. 2,883,644, 4-21-59, Cl. 340-36.
- Barker, John L., and B. J. Midlock, to Eastern Industries Inc. Apparatus for detecting and measuring the speed of moving objects by means of radio waves. 2,878,467, 3-17-59, Cl. 343-8.
- Barker, Luther P., Jr., to B. F. McDonald Co. Face shield device. 2,881,443, 4-14-59, Cl. 2-9.
- Barker, Lyliard B., and H. B. Baker. Educational game for teaching spelling. 2,900,742, 8-25-59, Cl. 35-35.
- Barker, Melvin A., and A. J. Rooks. Automatic self-releasing adjustable torque wrench. 2,872,004, 2-3-59, Cl. 192-56.
- Barker, Norval G.: See—  
Chang, Robert W. H., and Barker. 2,915,540.
- Barker, Peter L. M.: See—  
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- Barker Poultry Equipment Co.: See—  
Barker, Seth S., and Smith. 2,914,794.
- Dillman, Earnest J. 2,887,888.
- Garvin, Milton M. 2,892,254.
- Hubbard, Eber J. 2,895,210.
- Hulett, Henry R., and Heller. 2,884,996.
- Hyde, Robert W. 2,896,866.
- Kaul, Ben. 2,891,298.
- Meyer, Harry A., and Anderson. 2,884,769.
- Noakes, Thomas E. 2,889,431.
- Noakes, Thomas E. 2,901,578.
- Smith, Donald P. 2,885,850.
- Tinker, Townsend. 2,888,249.
- Tinker, Townsend. 2,888,250.
- Ullman, Myron E., Jr., and Silver. 2,891,560.
- Barker, Randolph G. Telephone plug. 2,878,459, 3-17-59, Cl. 339-183.
- Barker, Seth S., and D. P. Smith, to Barker Poultry Equipment Co. Fowl picking fingers. 2,914,794, 12-1-59, Cl. 17-11.1.
- Barker, Stacey. Flasher mechanism. 2,878,424, 3-17-59, Cl. 315-186.
- Barker, Stephen, and P. M. Heinmiller, to Utility Trailer Manufacturing Co. Load indicating means. 2,867,432, 1-6-59, Cl. 265-40.
- Barker, Stuart N.: See—  
Meager, Vernon W., and Barker. 2,897,345.
- Barker, Victor A., to General Telephone Laboratories, Inc. Telephone call intercepting system. 2,876,291, 3-3-59, Cl. 179-27.
- Barker, William A., and J. L. Lutyens, to United Shoe Machinery Corp. Shoe handling apparatus. 2,885,058, 5-5-59, Cl. 198-19.
- Barker, William M., and L. Brockman, to General Railway Signal Co. Centralized traffic control system for railroads. 2,907,982, 10-6-59, Cl. 340-163.
- Barkheimer, Donald I. Adjustable television receiver stand. 2,890,010, 6-9-59, Cl. 248-157.
- Barkhuft, Raymond A., Jr., and N. Platzer, to Monsanto Chemical Co. Process of making extruded styrene polymer foams. 2,911,382, 11-3-59, Cl. 260-2.5.
- Barkley, Charles S., to E. I. du Pont de Nemours and Co. Scraper for doctor blade. 2,887,787, 5-26-59, Cl. 34-112.
- Barkley, Dwight W.: See—  
Mazur, Ferdinand J., and Barkley. 2,900,872.
- Barkley, Joseph W., to Ampex Corp. Magnetic tape apparatus. 2,915,357, 12-1-59, Cl. 346-74.
- Barkley, Lloyd B., to Monsanto Chemical Co. Synthesis of steroids. 2,889,320, 6-2-59, Cl. 260-239.55.
- Barkley, Paul: See—  
Coody, John L., Work, and Bell. 2,888,895.
- Barkow, William H., to Radio Corp. of America. Temperature compensated electromagnetic deflection yoke. 2,900,564, 8-18-59, Cl. 315-27.
- Barkow, William H., and C. C. Matthews, to Radio Corp. of America. Electromagnetic deflection yoke. 2,901,650, 8-25-59, Cl. 313-76.
- Barkow, William H., and C. C. Matthews, to Radio Corp. of America. Cathode ray tube deflection yoke. 2,901,665, 8-25-59, Cl. 315-27.
- Barksdale, Edgar W. Dental spray bottle. 2,893,608, 7-7-59, Cl. 222-193.
- Barkstrom, Elmer E., to Western Electric Co., Inc. Pivoted cutter and guard with blade yieldably mounted in protected position. 2,911,043, 11-3-59, Cl. 164-41.
- Barkstrom, Elmer E., to Western Electric Co., Inc. Apparatus for coating and for removing excess coating material from articles. 2,917,021, 12-15-59, Cl. 118-57.
- Barkstrom, Elmer E., and H. M. Larsen, to Western Electric Co., Inc. Apparatus for positioning and annealing work pieces. 2,890,875, 6-16-59, Cl. 263-6.
- Barkey, Wesley V. Can separating device. 2,895,611, 7-21-59, Cl. 209-104.
- Barlament, Norval S., and S. J. Campbell, to Hudson-Sharp Machine Co. Endless conveyor having web rewinder core shafts. 2,883,121, 4-21-59, Cl. 242-56.
- Barler Metal Products, Inc.: See—  
Miller, Marion E., and Yoder. 2,869,953.
- Barley, Herman, and R. D. Bibby, said Bibby assignor to said Barley. Extrusion apparatus. 2,885,730, 5-12-59, Cl. 18-12.
- Barlow, Ernest, to Metropolitan-Vickers Electrical Co. Ltd. Dynamo-electric machines. 2,911,552, 11-3-59, Cl. 310-258.
- Barlow, Herbert N.: See—  
Greene, Harry R., and Barlow. 2,880,853.
- Barlow, Howard. Window ventilator and light blocking screen. 2,881,691, 4-14-59, Cl. 98-99.
- Barlow, Joel H.: See—  
Bishop, Leonard J., and Barlow. 2,875,703.
- Barlow, Raymond S.: See—  
Honerkamp, Friedrich, Kurth, and Barlow. 2,884,005.
- Barlowe, Murray: See—  
Helbing, Clarence H., and Barlowe. 2,868,396.
- Barmer Maschinenfabrik Aktiengesellschaft: See—  
Grein, Hermann, and Zander. 2,915,253.
- Lenk, Walter. 2,875,572.
- Lenk, Walter. 2,882,674.
- Rehn, Karl-Heinz. 2,867,968.
- Weber, Wolfgang, and Lohest. 2,915,254.
- Barnard, Clayton H.: See—  
Shaannon, Jack F., Barnard, and Schink. 2,870,729.



- Barnard, Clayton H., H. C. Schink, and J. K. Loeser, to Bailey Meter Co. Method of operation and control system for submarine steam propulsion unit. 2,876,727, 3-10-59, Cl. 114-16.
- Barnard, Richard P., to General Motors Corp. Cigar lighter having retractable sleeve. 2,871,335, 1-27-59, Cl. 219-32.
- Barnard, Richard P., to General Motors Corp. Power actuated closures. 2,893,727, 7-7-59, Cl. 268-74.
- Barnard, Roy M., D. S. Grirling, and N. C. W. Judd, to International Standard Electric Corp. Manufacture of electrical capacitors. 2,903,780, 9-15-59, Cl. 29-25.42.
- Barnby, Herbert A., to Owens-Illinois Glass Co. Carrier for bottles and other containers. 2,899,051, 8-11-59, Cl. 206-65.
- Barnes, Alfred A.: *See*—  
Wilcox, Isaac L., Barnes, Patch, and Spurr. 2,901,950.
- Barnes, Carl E., W. O. Ney, Jr., and W. R. Nummy, to General Aniline & Film Corp. Polymerization procedures. 2,891,038, 6-16-59, Cl. 260-78.
- Barnes, Charles W. Device for bending metal strip. 2,907,368, 10-6-59, Cl. 153-32.
- Barnes Drill Co.: *See*—  
Caldwell, Harry J. 2,867,139.  
Fowler, Leslie L. 2,876,904.  
Seborg, Earnest Y. 2,870,577.
- Barnes, Earle B., J. E. Thomson, and G. A. Klumb, Jr., to The Dow Chemical Co. Polymerization of ethylene. 2,882,264, 4-14-59, Cl. 260-94.9.
- Barnes Engineering Co.: *See*—  
Astheimer, Robert W., and Wormser. 2,895,049.  
Hall, Richard W. 2,901,811.
- Barnes, Eugene K. Sausage stuffing horn. 2,881,694, 4-14-59, Cl. 99-35.4.
- Barnes, Fred: *See*—  
Pasqualone, Anthony, and Barnes. 2,910,899.
- Barnes, Garrett H., Jr., to Dow Corning Corp. Beta-acetoxyethyl siloxanes. 2,872,434, 2-3-59, Cl. 260-46.5.
- Barnes, Garrett H., Jr., to Dow Corning Corp. Preparation of organodisiloxane esters. 2,898,361, 8-4-59, Cl. 260-448.2.
- Barnes, George A.: *See*—  
Duvivier, Charles. 2,907,671.
- Barnes, George E. Automatic water remover for carburetors. 2,878,944, 3-24-59, Cl. 210-51.3.
- Barnes, George H., to Burroughs Corp. Compensating circuit. 2,900,532, 8-18-59, Cl. 307-88.5.
- Barnes, George H., A. J. Meyerhoff, and M. A. Schultz, to Burroughs Corp. Electronic voltage regulator. 2,912,637, 11-10-59, Cl. 323-22.
- Barnes, Gladeon M., and N. R. Droulard, to United States of America, Army. Center-guide for fin-stabilized fixed round ammunition. 2,872,864, 2-10-59, Cl. 102-38.
- Barnes, Glenn, to Master Vibrator Co. Portable heater. 2,896,933, 7-28-59, Cl. 263-19.
- Barnes, Henry A.: *See*—  
Adler, Charles, Jr., and Barnes. 2,879,497.
- Barnes, Homer C.: *See*—  
Kurzynski, Edward F., Collins, Barnes, and Dahm. 2,889,222.
- Barnes, Homer C., Jr., and G. P. Dahm, to Union Carbide Corp. Process for producing cast iron. 2,877,111, 3-10-59, Cl. 75-130.
- Barnes, Inez: *See*—  
Lehman, John F. 2,908,047.
- Barnes, James F., and J. H. Bent, to Foil Process Corp. Tube winding machine with tension indicator. 2,888,826, 6-2-59, Cl. 73-143.
- Barnes, James F., and E. F. Rebholz, to Foil Process Corp. Package for drink-forming powders. 2,896,839, 7-28-59, Cl. 229-62.
- Barnes, James F., and H. I. Silversher, to Foil Process Corp. Tube coating apparatus. 2,900,881, 8-25-59, Cl. 93-80.
- Barnes, James F., E. F. Rebholz, and H. I. Silversher, to Foil Process Corp. Tube-providing sheet. 2,910,094, 10-27-59, Cl. 138-87.
- Barnes, James F., and H. I. Silversher, to Foil Process Corp. Multiple passage pipe. 2,914,091, 11-24-59, Cl. 138-87.
- Barnes, James H. Tire trim member and securing means therefor. 2,915,335, 12-1-59, Cl. 301-37.
- Barnes, Jeffery W., to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Gyroscope apparatus. 2,900,824, 8-25-59, Cl. 74-5.34.
- Barnes, Jeffery W., and R. A. Herring, to Ferranti, Ltd. Gyroscope apparatus. 2,874,576, 2-24-59, Cl. 74-5.1.
- Barnes, John A., and L. P. Worthen, to The Pillsbury Co. Tomato basic and method of producing same. 2,912,338, 11-10-59, Cl. 99-204.
- Barnes, John, Co.: *See*—  
Smith, Clarence J. 2,873,841.
- Barnes, John L., and M. W. Fisher. Fence structure. 2,906,506, 9-29-59, Cl. 256-19.
- Barnes, John W.: *See*—  
O'Maley, James B., Barnes, and Hansell. 2,905,828.
- Barnes, Kenneth H., to Wheelabrator Corp. Link and flight bar assembly in a blasting machine. 2,909,012, 10-20-59, Cl. 51-163.
- Barnes, Kenneth H., to Wheelabrator Corp. Guard for throwing wheels. 2,909,870, 10-27-59, Cl. 51-9.
- Barnes, Kenneth H., to Wheelabrator Corp. Centrifugal blasting machine. 2,918,758, 12-29-59, Cl. 51-13.
- Barnes, Leslie W., to Forster Mfg. Co. Machine for making spring clip clothespins. 2,873,767, 2-17-59, Cl. 140-1.
- Barnes Mfg. Co.: *See*—  
Jordan, Richard H. 2,870,790.  
Jordan, Richard H., and Andrews. 2,877,797.
- Barnes, Marion D., and J. P. Lea, to Monsanto Chemical Co. Caking bomb assembly. 2,887,945, 5-26-59, Cl. 100-99.
- Barnes, Marion D., and J. P. Lea, to Monsanto Chemical Co. Caking bomb assembly. 2,887,946, 5-26-59, Cl. 100-99.
- Barnes, Milton M. Paper registering device. 2,888,261, 5-26-59, Cl. 271-49.
- Barnes, Oliver G.: *See*—  
Starr, Charles S., and Barnes. 2,901,020.
- Barnes, Ralph G., to Master Vibrator Co. Rotary troweling machine. 2,869,441, 1-20-59, Cl. 94-45.
- Barnes, Ralph G., to Master Vibrator Co. Blade assembly. 2,878,730, 3-24-59, Cl. 94-45.
- Barnes, Ralph G. Muffler. 2,912,063, 11-10-59, Cl. 181-66.
- Barnes, Richard R., to American Telephone and Telegraph Co. Antenna. 2,909,775, 10-20-59, Cl. 343-702.
- Barnes, Robert E., to P. R. Mallory & Co., Inc. Low loss vibrator. 2,916,581, 12-8-59, Cl. 200-90.
- Barnes, Roland D. Heating element. 2,873,350, 2-10-59, Cl. 219-39.
- Barnes, Sidney W., to United States of America, Atomic Energy Commission. Calutron receiver. 2,891,162, 6-16-59, Cl. 250-41.9.
- Barnes, Sidney W., to United States of America, Atomic Energy Commission. Calutron receiver. 2,901,617, 8-25-59, Cl. 250-41.9.
- Barnes, Sidney W., to United States of America, Atomic Energy Commission. Isotope separating apparatus control. 2,901,620, 8-25-59, Cl. 250-41.9.
- Barnes, W. F., and John, Co.: *See*—  
Abrams, Victor R. 2,901,225.  
Abrams, Victor R. 2,909,985.  
Carlson, Elliott C. B. 2,906,072.  
Ryan, James F., Jr. 2,874,523.  
Ryan, James F., Jr. 2,885,845.  
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Smith, Clarence J. 2,868,236.  
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Werge, Thomas C., and Laxo. 2,875,564.
- Barnes, William A.: *See*—  
Rozmus, Walter J., and Barnes. 2,909,951.  
Zeidler, Reinhold C., and Barnes. 2,914,158.
- Barnes, William A., to Kelsey-Hayes Co. Electrical assemblies and apparatus for producing same. 2,888,614, 5-26-59, Cl. 317-101.
- Barnes, William A., to Kelsey-Hayes Co. Cold weld butt tool. 2,889,622, 6-9-59, Cl. 30-233.
- Barnes, William A., to Kelsey-Hayes Co. Wire wrapping tool. 2,914,261, 11-24-59, Cl. 242-7.
- Barnes, William A., and S. Zysk, to Kelsey-Hayes Co. Tools for cold pressure welding. 2,886,992, 5-19-59, Cl. 78-82.
- Barnes, William A., and S. A. Zysk, to Kelsey-Hayes Co., Utica Drop Forge and Tool Division. Machine and die control apparatus for applying cold welding pressures. 2,909,086, 10-20-59, Cl. 78-82.
- Barnes, William D., Jr.: *See*—  
Rolle, Clifford J., Roteman, and Barnes. 2,872,422.
- Barnes, William E., to Sun Oil Co. Well sampling device. 2,870,844, 1-27-59, Cl. 166-165.
- Barnes, William E., to Sun Oil Co. Dump bailer. 2,896,722, 7-28-59, Cl. 166-162.
- Barnes, William E., to Sun Oil Co. Dump bailer. 2,896,723, 7-28-59, Cl. 166-166.
- Barnett, Bartow B., and N. King.  $\frac{1}{2}$  to Bonnie B. Barnett. Releasable ski binding. 2,868,555, 1-13-59, Cl. 280-11.35.
- Barnett, Bonnie B.: *See*—  
Barnett, Bartow B., and King. 2,868,555.
- Barnett, Charles E., to The New Jersey Zinc Co. Production of titanium. 2,908,619, 10-13-59, Cl. 204-64.
- Barnett, Guy F., to Philco Corp. Precision dual-beam cathode-ray tube. 2,891,183, 6-16-59, Cl. 313-69.
- Barnett, Guy F., to Philco Corp. Electron discharge devices. 2,919,380, 12-29-59, Cl. 315-30.
- Barnett, Harry. Metering valve. 2,895,500, 7-21-59, Cl. 137-468.
- Barnett, Herbert R.: *See*—  
Hornickel, Robert R., and Barnett. 2,883,672.
- Barnett, Hugh W., to Canada Packers, Ltd. Method of curing pork products. 2,903,366, 9-8-59, Cl. 99-159.
- Barnett, Hugh W., and C. H. Perrin, to Canada Packers Ltd. Prevention of fading of color of cured meat products. 2,905,561, 9-22-59, Cl. 99-174.
- Barnett, Irvin, to Johns-Manville Corp. Method and apparatus for opening and cleaning fibers. 2,897,548, 8-4-59, Cl. 19-72.
- Barnett, Irvin, to Johns-Manville Corp. Thermal modification of acrylonitrile yarns. 2,913,802, 11-24-59, Cl. 28-76.
- Barnett, John S., to Photographic Analysis, Inc. Pulse operated camera. 2,909,096, 10-20-59, Cl. 88-18.4.
- Barnett, Wilford J., to Aerovox Corp. Right angle socket for electronic devices. 2,904,773, 9-15-59, Cl. 339-193.
- Barnette, Ernest M., Jr. Folding fisherman's seat. 2,877,828, 3-17-59, Cl. 155-135.



- Barney, Arthur L., to E. I. du Pont de Nemours and Co. Polymerizable compositions. 2,893,868, 7-7-59, Cl. 96-115.
- Barney, Arthur L., and H. B. Stevenson, to E. I. du Pont de Nemours & Co. Method of preparing 2,3-dicarbomethoxy-1,3-butadiene. 2,870,196, 1-20-59, Cl. 260-485.
- Barney, Kay H., and L. Greenspan, to Sperry Rand Corp. Extended gate generating circuit. 2,903,605, 9-8-59, Cl. 307-88.5.
- Barnhart, Adam B., to Metric Hosiery Co., Inc. Package for hosiery and other articles. 2,915,174, 12-1-59, Cl. 206-7.
- Barnhart, George E. Pump. 2,877,710, 3-17-59, Cl. 103-2.
- Barnhart, George E. Flexible sealing ring arrangement. 2,878,083, 3-17-59, Cl. 309-33.
- Barnhart, George E. Method of cold working a tubular structure. 2,883,744, 4-28-59, Cl. 29-544.
- Barnhart, George E. Composite cylinder. 2,903,308, 8-9-59, Cl. 309-2.
- Barnhart, Robert E., and W. E. Catlin, to E. I. du Pont de Nemours and Co. P-carbomethoxy-N-nitroso-N-methylbenzamide. 2,876,251, 3-3-59, Cl. 260-171.
- Barnhart, Robert E., and W. E. Catlin, to E. I. du Pont de Nemours and Co. Trans-N,N'-dinitroso N,N'-dimethyl hexahydroterephthalamide. 2,879,292, 3-24-59, Cl. 260-557.
- Barnhart, Vern A. Apparatus for producing hollow structural clay building units. 2,875,497, 3-3-59, Cl. 25-17.
- Barnhart, William S.: See—  
Wade, Robert H., and Barnhart. 2,886,607.  
Wade, Robert H., and Barnhart. 2,909,570.
- Barnhart, William S., to Minnesota Mining and Mfg. Co. Telomerization with fluorobromoalkanes. 2,875,253, 2-24-59, Cl. 260-653.
- Barnhart, William S., to Minnesota Mining and Mfg. Co. Halogenated cotelomers. 2,898,382, 8-4-59, Cl. 260-653.
- Barnhart, William S., to Minnesota Mining and Mfg. Co. Chromium coordination complexes. 2,909,545, 10-20-59, Cl. 260-438.
- Barnhart, William S., to Minnesota Mining and Mfg. Co. Plasticized perfluorochloroethylene polymer and process for preparing porous articles therefrom. 2,915,483, 12-1-59, Cl. 260-2.5.
- Barnhart, William S., and R. H. Wade, to Minnesota Mining and Mfg. Co. Polytrifluorochloroethylene stabilized with tetraphenyl tin. 2,874,143, 2-17-59, Cl. 260-45.75.
- Barnhart, William S., and R. H. Wade, to Minnesota Mining and Mfg. Co. Stabilization of perfluorochloroolefin polymers. 2,874,198, 2-17-59, Cl. 260-652.5.
- Barnhart, William S., and R. H. Wade, to Minnesota Mining and Mfg. Co. Compositions comprising perfluorochloroolefin homopolymers and tetraester plasticizers. 2,884,399, 4-28-59, Cl. 260-30.4.
- Barnhart, William S., and R. H. Wade, to Minnesota Mining and Mfg. Co. Telomer acid process. 2,904,567, 9-15-59, Cl. 260-408.
- Barnhart, William S., C. K. Travis, and C. R. Leder, to Minnesota Mining and Mfg. Co. Mixture of trifluorochloroethylene reaction products useful as potting and sealing compositions. 2,909,503, 10-20-59, Cl. 260-45.5.
- Barnhart, William S., and J. L. Zollinger, to Minnesota Mining and Mfg. Co. Composition comprising fluorine containing polyolefin plasticized with fluorine containing ketone. 2,914,500, 11-24-59, Cl. 260-32.8.
- Barnhart, William S., and R. H. Wade, to Minnesota Mining and Mfg. Co. Method for producing polyfluorochlorinated carboxylic acids. 2,915,552, 12-1-59, Cl. 260-539.
- Barnitz, Edward S., and M. E. Johnson, to Electrodynamics Corp. Self-lubricating bearings and method of making the same. 2,877,134, 3-10-59, Cl. 117-61.
- Barnothy, Jeno M., to Nuclear-Chicago Corp. Nuclear radiation counters. 2,917,634, 12-15-59, Cl. 250-106.
- Barns, Fred K.: See—  
Watson, Arthur E., and Barns. 2,902,082.  
Weston, Roger D., and Barns. 2,897,543.
- Barns, Robert L., R. T. Doshier, Jr., M. L. Humphries, J. K. Jeanes, L. L. Lyon, Jr., E. G. Perry, R. J. Speer, and C. E. Earhart, to Texas Instruments Inc. Magnetic fluid for magnetic fluid clutch. 2,900,343, 8-18-59, Cl. 252-62.5.
- Barneard Still and Sterilizer Co.: See—  
Smith, Verity C. 2,876,791.
- Barnum, Emmett R.: See—  
Lorensen, Lyman E., Barnum, and Zachar. 2,889,282.
- Barnum, Robert E.: See—  
Serniuk, George E., Vanderbilt, Michaels, and Barnum. 2,874,033.
- Barnum, Robert E., to Esso Research and Engineering Co. Aviation gasoline. 2,884,315, 4-28-59, Cl. 44-56.
- Barnwell, Irving F. Means for controlling air flow from a wall duct. 2,910,927, 11-3-59, Cl. 98-118.
- Baron, John E. Load supporting member. 2,887,203, 5-19-59, Cl. 193-37.
- Baron, Jules H.: See—  
Jensen, Raymond W., Baron, and McNutt. 2,918,042.
- Baroni, Giorgio. Roof construction. 2,912,940, 11-17-59, Cl. 108-1.
- Barothy, Charles F., to Western Electric Co., Inc. Card holder for telephone set. 2,882,624, 4-21-59, Cl. 40-10.5.
- Barr, Charles L., to F. B. Redington Co. Packaging machine. 2,909,874, 10-27-59, Cl. 53-75.
- Barr, Charles R.: See—  
Sahminen, Ilmari F., Barr, and Loria. 2,895,826.
- Barr, Courtland H., Jr.: See—  
Barr, Courtland H., Sr., Courtland H. Barr, Jr., and J. W. Barr. 2,876,775.
- Barr, Courtland H., Sr., Courtland H. Barr, Jr., and J. W. Barr. Blood sample collection apparatus. 2,876,775, 3-10-59, Cl. 128-272.
- Barr, Erwin R., R. S. Dowd, and J. W. Thompson, to Aircraft Armaments, Inc. Projectile carrying vehicle. 2,870,711, 1-27-59, Cl. 102-50.
- Barr, Frank T., H. E. W. Burnside, J. W. Brown, C. E. Jahng, and H. Z. Martin, to Esso Research and Engineering Co. Process for cracking oil. 2,889,267, 6-2-59, Cl. 208-127.
- Barr, George A., to Sunbeam Lighting Co. Lighting fixture ceiling mounting clamp. 2,890,011, 6-9-59, Cl. 248-228.
- Barr, Harold N., to Vitro Corp. of America. Densification of coating by use of isostatic hydraulic pressure. 2,878,140, 3-17-59, Cl. 117-65.
- Barr, Irwin R., to Aircraft Armaments, Inc. Amphibious walking vehicle. 2,918,738, 12-29-59, Cl. 37-80.
- Barr, Irwin R., to Aircraft Armaments, Inc. Machine gun. 2,918,847, 12-29-59, Cl. 89-125.
- Barr, Irwin R., and D. D. Terwilliger, to Aircraft Armaments, Inc. Counter recoil governor for a recoil type gun. 2,877,690, 3-17-59, Cl. 89-43.
- Barr, James R.: See—  
McCarty, Orin P., and Barr. 2,878,333.
- Barr, James W., to Taylor Biscuit Co. Coin operated vending machine. 2,909,261, 10-20-59, Cl. 194-85.
- Barr, John C., to Power Jets (Research & Development) Ltd. Power producing equipment incorporating gas turbine plant. 2,898,731, 8-11-59, Cl. 60-13.
- Barr, John D., to The Sperry Gyroscope Co. Ltd. Servo-systems. 2,911,833, 11-10-59, Cl. 74-5.47.
- Barr, John M., to General Motors Corp. Fuel induction system. 2,877,004, 3-10-59, Cl. 261-64.
- Barr, John T.: See—  
McMinn, William A., Jr., and Barr. 2,878,239.
- Barr, John T., and F. E. Lawlor, to Pennsalt Chemicals Corp. Fluoroalkyl sulfur compounds. 2,894,991, 7-14-59, Cl. 260-608.
- Barr, John U.: See—  
Owen, William L. 2,868,725.
- Barr, John W.: See—  
Barr, Courtland H., Sr., Courtland H. Barr, Jr., and J. W. Barr. 2,876,775.
- Barr, Josiah M., to Wen-Mac Corp. Toy engine starter employing elastic element. 2,876,866, 3-10-59, Cl. 185-41.
- Barr, Leslie: See—  
Emmert, George W., and Barr. 2,910,218.
- Barr, Martin, and A. L. Monaco, to American Home Products Corp. Therapeutic compositions containing heat-treated attapulgite. 2,918,405, 12-22-59, Cl. 167-65.
- Barr Rubber Products Co.: The: See—  
Chupa, John C. 2,885,733.  
Chupa, John C. 2,894,746.
- Barr, Victor L.: See—  
Herrmann, Karl L., Barr, and Henwood. 2,884,288.
- Barr, William E.: See—  
Waddill, Paul M., and Barr. 2,901,426.
- Barradas, George, to Consolidated Molded Products Corp. Educational and training device for children. 2,893,591, 7-7-59, Cl. 220-69.
- Barradas, George W.: See—  
Taylor, James B., III, and Barradas. 2,900,103.
- Barradell-Smith, Richard, to Pilkington Brothers Ltd. Apparatus for producing a continuous ribbon of glass. 2,911,760, 11-10-59, Cl. 49-33.
- Barragato, Achille R.: See—  
Smith, Ernest F., Barragato, Oakwood, and Sage. 2,906,122.
- Barrasso, Edward J.: See—  
Cook, David E., and Barrasso. 2,901,417.
- Barratt, Harold, T. N. Forrester, and G. H. Wilson, to Courtlauds Ltd. Sheet feeding apparatus. 2,896,946, 7-28-59, Cl. 271-6.
- Barravecchia, Domenick P. Combined cap, valve and dispensing spout for liquid containers. 2,883,091, 4-21-59, Cl. 222-517.
- Barre, Henry J., M. E. Rader, and W. G. Goodyear, to Steel Co. of Ohio, Inc. Floor structure for a grain storage bin. 2,901,960, 9-1-59, Cl. 98-55.
- Barreca, Henry J. Shoe sole straightener and carrying device. 2,883,688, 4-28-59, Cl. 12-120.5.
- Barren, James L.,  $\frac{1}{2}$  to Emporium Trust Co. and  $\frac{1}{2}$  to H. E. Allen, trustees. Lignin sulfonate-phenol-formaldehyde tanning extract process of making same. 2,891,020, 6-16-59, Cl. 260-17.5.
- Barret, William M., to Engineering Research Corp. Method and apparatus for ground-wave transmission and reception of radio waves. 2,901,687, 8-25-59, Cl. 324-1.
- Barret, William M., to Engineering Research Corp. Method of exploring the earth with electromagnetic energy. 2,901,688, 8-25-59, Cl. 324-6.
- Barret, William M., and G. J. Baker, to Engineering Research Corp. Method of exploring the earth with electromagnetic energy. 2,901,689, 8-25-59, Cl. 324-6.
- Barrett, David M., to Picker X-Ray Corp., Waite Mfg. Div., Inc. Diaphragm apparatus for X-ray tubes. 2,894,144, 7-7-59, Cl. 250-105.



- Barrett, Edward J., Jr., and D. Flitter, to E. I. du Pont de Nemours and Co. Alkyd resin composition and metals coated therewith. 2,873,210, 2-10-59, Cl. 117-75.
- Barrett, Edward L. Method and apparatus for making positive battery plates. 2,886,620, 5-12-59, Cl. 136-34.
- Barrett, Edward L., to J. P. Henebery and E. L. Barrett. Reel assembly. 2,904,272, 9-15-59, Cl. 242-54.
- Barrett, Elliott P., and R. S. Bowman. Refining starch hydrolysates. 2,914,431, 11-24-59, Cl. 127-40.
- Barrett, Elmer G. Rotary motor and radial sliding vane therefor. 2,902,980, 9-8-59, Cl. 121-85.
- Barrett, Frank B. Dispensers for sanitary spoons and the like. 2,871,079, 1-27-59, Cl. 312-42.
- Barrett, Fred O., and J. Kamlet, to Emery Industries, Inc. Manufacture of cyanates. 2,889,198, 6-2-59, Cl. 23-75.
- Barrett, Gaylord P., deceased; M. J. Barrett, administratrix. Well pumping apparatus. 2,870,715, 1-27-59, Cl. 103-6.
- Barrett, Gerald R., to Monsanto Chemical Co. Continuous polymerization processes and resulting products. 2,904,541, 9-15-59, Cl. 260-80.
- Barrett, Harry B. Windshield cleaner systems and valves therefor. 2,887,736, 5-26-59, Cl. 20-40.5.
- Barrett, Harry B. Methods and means for grinding automotive brake shoes. 2,893,180, 7-7-59, Cl. 51-281.
- Barrett, Harry B. Tire tread surfacing machine. 2,897,882, 8-4-59, Cl. 157-13.
- Barrett, Hillard E., and W. F. Payne, to Curtiss-Wright Corp. Jet engine burner apparatus having means for spreading the pilot flame. 2,872,785, 2-10-59, Cl. 60-39.72.
- Barrett, Horace M. Anchoring device for a T-square. 2,908,079, 10-13-59, Cl. 33-76.
- Barrett, Jack P., and L. W. Jones, to Pan American Petroleum Corp. Vapor space corrosion inhibitor. 2,889,276, 6-2-59, Cl. 252-8.55.
- Barrett, James L., to Joy Mfg. Co. Apparatus for rotary drilling. 2,868,511, 1-13-59, Cl. 255-302.
- Barrett, John B., to Parisian Novelty Co. Means for holding plate. 2,904,912, 9-22-59, Cl. 40-2.2.
- Barrett, John J., and R. K. Parducci, to Westinghouse Electric Corp. Missing element detection in a stem making machine. 2,882,523, 4-14-59, Cl. 340-259.
- Barrett, John S., to Vickers Inc. Power transmission. 2,885,045, 5-5-59, Cl. 192-21.5.
- Barrett, La Vern H., to Manett Enterprises, Inc. Feeder for packaging machines. 2,890,784, 6-16-59, Cl. 198-30.
- Barrett, Mary J.: See—  
Barrett, Gaylord P. 2,870,715.
- Barrett, Richard O.: See—  
Bourne, Marlan E., Harrison, Gaa, and Barrett. 2,886,681.
- Barrett, Robert D.: See—  
Hubert, Clarence A., Rosenthal, and Barrett. 2,881,627.
- Barrett, Robert D., to International Harvester Co. Swingable and resiliently mounted tractor seat. 2,868,273, 1-13-59, Cl. 155-51.
- Barrett, Robert F., to Fred W. Kerns. Apparatus for retracting mudguards. 2,872,211, 2-3-59, Cl. 280-154.5.
- Barrett, Robert J. Adjustable strut and bearing for boat shafts. 2,891,825, 6-23-59, Cl. 308-32.
- Barrett, Wesley H., to Dowty Mining Equipment Ltd. Mine roof support devices. 2,910,282, 10-27-59, Cl. 262-1.
- Barrier, Felix, and G. Schklair. Drinking glass holder. 2,879,023, 3-24-59, Cl. 248-22.6.
- Barrington, Charles E., to The Goodyear Tire & Rubber Co. Relay valve. 2,909,194, 10-20-59, Cl. 137-622.
- Barrington, James A., to W. D. Keith. Single use, disposable douche apparatus. 2,887,109, 5-19-59, Cl. 128-227.
- Barroero, Louis F. Air circulation means for upright refrigerated cabinets. 2,907,186, 10-6-59, Cl. 62-408.
- Barron, Charles P. Traction attachment for vehicle wheels. 2,867,259, 1-6-59, Cl. 152-225.
- Barron, Curtis L. Flushing bell. 2,878,823, 3-24-59, Cl. 134-167.
- Barron, Curtis L. Top form for concrete conduits. 2,896,301, 7-28-59, Cl. 25-131.5.
- Barron, Curtis L. Apparatus for forming a liquid conveyor duct. 2,917,804, 12-22-59, Cl. 25-131.5.
- Barron, Edward R., to United States of America, Army. Adjustable angle traction tester. 2,913,896, 11-24-59, Cl. 73-9.
- Barron, John T., to Milton Roy Co. Diaphragm relief valve. 2,888,946, 6-2-59, Cl. 137-469.
- Barrons, Keith C., to The Dow Chemical Co. Method of suppressing plant growth with 2,2,3-trichloropropionitrile. 2,892,696, 6-30-59, Cl. 70-2.7.
- Barrow, Graydon E.: See—  
Nelson, Norman A., and Barrow. 2,902,094.
- Barrows, Robert C., and H. J. Braun, to Westinghouse Electric Corp. Alternating current dynamoelectric machine. 2,897,383, 7-28-59, Cl. 310-68.
- Barry, Austin W., and R. P. Schake, to Daystrom, Inc. Long scale electrical instrument. 2,887,656, 5-19-59, Cl. 324-150.
- Barry Controls Inc.: See—  
Cavanaugh, Richard D., and Goethel. 2,904,302.  
Crede, Charles E. 2,900,161.  
Crede, Charles E., and Furbeck. 2,900,162.  
Gertel, Maurice. 2,908,456.  
Lowe, Russell T., and Cavanaugh. 2,912,212.  
Markowski, Edwin P. 2,917,265.
- Barry, Frank W., to United Aircraft Corp. Inlet probe. 2,911,787, 11-10-59, Cl. 60-35.6.
- Barry, George H., to Collins Radio Co. Magnetic integrator. 2,875,952, 3-3-59, Cl. 235-183.
- Barry, George H., to Collins Radio Co. Detector sampling means. 2,905,837, 9-22-59, Cl. 307-88.5.
- Barry, George H., to Collins Radio Co. Phase-pulse receiver synchronization means. 2,914,674, 11-24-59, Cl. 250-27.
- Barry, George H., to Collins Radio Co. Phase-pulse generator. 2,915,633, 12-1-59, Cl. 250-27.
- Barry, John K., and M. R. Tuozzo, to South Chester Corp. Hollow rivet having two internal shoulders. 2,877,682, 3-17-59, Cl. 85-40.
- Barry, Lee, Laboratories, Inc.: See—  
Lipari, Michael. 2,871,857.
- Barry, Leonard D. Dual head magnetic recorder. 2,885,489, 5-5-59, Cl. 179-100.2.
- Barry, Leonard D. Tapered magnetic head. 2,902,544, 9-1-59, Cl. 179-100.2.
- Barry, Vincent C., J. G. Belton, M. L. Conalty, and D. Twomey, to Geigy Chemical Corp. 2-amino-3-(p-chlorophenylimino)-3,5-dihydro-5-(p-chlorophenyl)-phenazine and salts thereof. 2,875,204, 2-24-59, Cl. 260-267.
- Barry, Vincent C., and P. W. D. Mitchell, to Lasdon Foundation, Inc. Modified saccharide compounds. 2,885,394, 5-5-59, Cl. 260-209.
- Barry-Wehmiller Machinery Co.: See—  
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Lyon, Donald G. 2,885,097.
- Barsalou, Robert L. Aircraft panel fastener. 2,882,580, 4-21-59, Cl. 24-221.
- Barshefsky, Gustave: See—  
Young, Harland H., Ohlson, and Barshefsky. 2,899,372.
- Barshefsky, Gustave, to The Celotex Corp. Sound absorbing unit and bundle thereof. 2,897,908, 8-4-59, Cl. 181-33.
- Barski, Julius J.: See—  
Lathrop, Harry D., and Barski. 2,875,624.
- Barski, Julius J., to The Lathrop-Paulson Co. Case stacker. 2,901,128, 8-25-59, Cl. 214-6.
- Barsky, Arthur J. Endotracheal tube adapter. 2,912,982, 11-17-59, Cl. 128-351.
- Barsky, George, to E. F. Drew & Co., Inc. Method of making a synthetic detergent in cake form. 2,886,585, 5-12-59, Cl. 260-458.
- Barsky, George, and V. K. Babayan, to E. F. Drew & Co. Inc. Edible unsubstituted mono alkyl glucoside-fatty acid ester compositions. 2,886,438, 5-12-59, Cl. 99-92.
- Barsky, George, and H. C. Bierman. Method of making plastisol gaskets. 2,888,366, 5-26-59, Cl. 117-93.
- Barsky, George, V. K. Babayan, and B. J. Bahoshy, to E. F. Drew & Co., Inc. Method of making hard butter. 2,898-211, 8-4-59, Cl. 99-118.
- Barsky, George, and V. K. Babayan, to E. F. Drew & Co., Inc. Interesterified mixed glyceryl esters. 2,914,546, 11-24-59, Cl. 260-410.7.
- Barstrom, Knut A., and A. A. Klebba, to Gray Research and Development Co., Inc. Reproducing apparatus. 2,887,353, 5-19-59, Cl. 346-74.
- Bart, Roger, to International Minerals & Chemical Corp. Method for manufacture of phosphatic material. 2,890,934, 6-16-59, Cl. 23-109.
- Barta, Anthony J.: See—  
Simmons, Aldred J., and Barta. 2,890,899.
- Barta, Frank E.: See—  
Congdon, George L., Barta, and Hanson. 2,879,509.
- Bartay, Delmar M., to Shell Development Co. Process for the preparation of hydrocarbon wax compositions. 2,915,451, 12-1-59, Cl. 208-31.
- Bartel Engineering Co.: See—  
Harker, Charles B. 2,899,786.
- Bartelink, Everhard H. B., to General Precision Laboratory Inc. Television transmission quality testing system. 2,885,470, 5-5-59, Cl. 178-6.8.
- Bartell, Floyd E. Water-impermeable, gas-permeable coating composition, method of preparation and articles coated therewith. 2,893,962, 7-7-59, Cl. 260-2.5.
- Bartels, Alfred, and P. Jobmann, to Nordischer Maschinenbau Rnd. Baader. Apparatus for feeding fish-dressing machines. 2,871,507, 2-3-59, Cl. 17-2.
- Bartels, Bernhard E.: See—  
Rocard, Yves A., and Bartels. 2,884,345.
- Bartels, Bernhard E., to Hupp Corp. Method of producing photocells. 2,892,250, 6-30-59, Cl. 29-155.63.
- Bartels, Charles R., W. L. Bryan, and B. Berk, to Olin Mathieson Chemical Corp. Process for the purification of streptomycin. 2,868,779, 1-13-59, Cl. 260-210.
- Bartels, Vernon O.: See—  
Kreitsek, Edward E., and Bartels. 2,910,647.
- Bartels, William L., to Prosthetic & Orthopedic Supply Co. Cervical collar. 2,911,970, 11-10-59, Cl. 128-75.
- Bartelt Engineering Co.: See—  
Harker, Charles B. 2,885,846.
- Bartenfeld, Wilford G. Unloading unit for cargo vessel. 2,893,574, 7-7-59, Cl. 214-15.
- Bartenstein, Reinhold. Partial conductors having a condenser interposed therebetween for reducing high tension disturbances. 2,903,654, 9-8-59, Cl. 333-12.
- Barter, Le Roy D.: See—  
Crampton, Gale W., Barter, and Schuler. 2,918,657.
- Barth, Harry J., to International Latex Corp. Compositions containing natural rubber and a carboxyl-containing diene polymer, a film thereof, and method of making same. 2,880-186, 3-31-59, Cl. 260-5.



- Barth, John L., to Stewart-Warner Corp. Lubrication device and method of making same. 2,913,820, 11-24-59, Cl. 29—521.
- Barth, Kurt: *See*—  
Appleton, Bernard S., and Barth. 2,891,500.  
Greer, Edward M., Jenkins, and Barth. 2,910,031.
- Barth, Robert H.: *See*—  
Steinhardt, David, Klein, and Barth. 2,915,560.
- Barth, Theodore H., to United States of America, Navy. Aiming angle sight. 2,871,565, 2-3-59, Cl. 33—46.5.
- Barth, Walter: *See*—  
Von Kienlin, Markus, Seifert, and Barth. 2,879,754.
- Barthel, Charles E.: *See*—  
Sounding attachment. 2,914,886, 12-1-59, Cl. 46—175.
- Barthel, Charles E.: *See*—  
Sound-producing mechanism for a child's amusement device. 2,915,312, 12-1-59, Cl. 272—53.2.
- Barthel, Donald R.: *See*—  
Reis, Herbert J., and Barthel. 2,919,418.
- Barthel, William F., B. H. Alexander, J. B. Gahan, and P. G. Piquett. 6-bromopiperonyl and 6-chloropiperonyl esters of chrysanthemum acid as insecticides. 2,886,485, 5-12-59, Cl. 167—33.
- Barthel, Wolfgang: *See*—  
Lang, Kurt, Barthel, Ladewig, Hans, Reichelt, Klaus, and Schädlich. 2,916,771.
- Barthelemy, Pierre, L. Penasse, and G. Nomine, to U C L A F. Recovery of vitamin B<sub>12</sub> from diluted solutions. 2,879,203, 3-24-59, Cl. 167—81.
- Barthelemy, Pierre, L. Penasse, and G. Nomine, to U C L A F. Vitamin B<sub>12</sub> recovery process. 2,879,204, 3-24-59, Cl. 167—81.
- Bartholoma, Helwig and W., to Rodi & Wieneberger Aktiengesellschaft. Elastic link straps. 2,918,785, 12-29-59, Cl. 59—79.
- Bartholoma, Werner: *See*—  
Bartholoma, Helwig and W. 2,918,785.
- Bartholome, Ernst: *See*—  
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- Bartholome, Ernst, O. Frey, E. Lehrer, and L. Lorenz, to Badische Anilin- & Soda-Fabrik Akt. Separation of acetylene from gas mixtures. 2,870,867, 1-27-59, Cl. 183—115.
- Bartholomew, George A.: *See*—  
Frederick, Edward R., and Bartholomew. 2,896,263.
- Bartholomew, Harvey L. Cleat. 2,873,499, 2-17-59, Cl. 24—130.
- Bartholomew, Harvey L. Rod and fixture connector. 2,873,988, 2-17-59, Cl. 287—126.
- Bartholomew, Harvey L. Awning. 2,888,984, 6-2-59, Cl. 160—58.
- Bartholomew, Richard E.: *See*—  
Cooper, James M., and Bartholomew. 2,890,844.
- Bartholow, Dave M., and H. Bormolini. Sreed expansion joint. 2,885,939, 5-12-59, Cl. 94—18.
- Barthruß, Otto, and E. Pfaffenberger, to Eugen Bauer, G.m.b.H. Adjusting device for light measuring and controlling apparatus and the like. 2,902,968, 9-8-59, Cl. 116—114.
- Barthule, George, to Liftex Slings, Inc. Fabric sling. 2,903,291, 9-8-59, Cl. 294—74.
- Bartik, Ivan: *See*—  
Topol, George J., Baranowski, and Bartik. 2,870,859.
- Bartkewitz, Paul. Means for cleaning and dressing footwear and the like. 2,896,236, 7-28-59, Cl. 15—134.
- Bartl, Herbert, to Farbenfabriken Bayer Akt. Process for isomerization of non-vulcanized rubber in absence of water and oxygen. 2,885,457, 5-5-59, Cl. 260—769.
- Bartl, Herbert to Farbenfabriken Bayer Akt. Compositions of matter comprising an aliphatic hydrocarbon solvent having dissolved therein copolymers to esters of polymerizable organic acids. 2,886,549, 5-12-59, Cl. 260—33.6.
- Bartl, Herbert, to Farbenfabriken Bayer Aktiengesellschaft. Process for preparing aqueous emulsions. 2,912,399, 11-10-59, Cl. 260—27.
- Bartl, Herbert, H. Holtschmidt, and O. Bayer, to Farbenfabriken Bayer Akt. Crosslinked polymers of ethylenically unsaturated blocked isocyanates. 2,882,260, 4-14-59, Cl. 260—77.5.
- Bartl, Herbert, and W. Becker, to Farbenfabriken Bayer Akt. Process for the isomerization of non-vulcanized rubber. 2,892,004, 6-23-59, Cl. 260—770.
- Bartl, Herbert, and H. Gensel, to Farbenfabriken Bayer Aktiengesellschaft. Textile sizing copolymer compositions and process for applying the same. 2,917,478, 12-15-59, Cl. 260—33.6.
- Bartl, Hugo: *See*—  
Nüsslein, Joseph, Kuch, and Bartl. 2,901,311.
- Bartlett, Dana W. Adjustable artificial lures. 2,873,549, 2-17-59, Cl. 43—42.22.
- Bartlett, David E. and M. H. Sanitary device. 2,878,486, 3-24-59, Cl. 4—110.
- Bartlett, Eugene A.: *See*—  
Rikard, Mack A., Bartlett, and Coleman. 2,894,820.
- Bartlett, Francis J. W., to F. J. W. Bartlett and W. M. Prager, trustees. Method of applying patterns to vinyl floor coverings. 2,867,263, 1-6-59, Cl. 154—26.
- Bartlett, Frederick A., to Dorman Sprayer Co. Ltd. Spraying nozzles. 2,904,266, 9-15-59, Cl. 239—553.
- Bartlett, George H. Pocket-type lure container. 2,899,770, 8-18-59, Cl. 43—57.5.
- Bartlett, George L. Animal egress and ingress doors. 2,886,861, 5-19-59, Cl. 20—16.
- Bartlett, Harold W., to California Packing Corp. Spot scanner for comestibles. 2,881,919, 4-14-59, Cl. 209—111.
- Bartlett, Jack. Stump removing machine. 2,887,134, 5-19-59, Cl. 144—2.
- Bartlett, James L., Jr., H. T. Hertzog, and R. M. Pickard, to The Garrett Corp. Controls for an air conditioning system. 2,871,671, 2-3-59, Cl. 62—172.
- Bartlett, Jeffrey H.: *See*—  
Brugmann, William H., Jr., Morway, and Bartlett. 2,876,089.  
Brugmann, William H., Jr., Rudel, and Bartlett. 2,903,348.
- Bartlett, Jeffrey H., and A. J. Morway, to Esso Research and Engineering Co. Lubricating greases containing alkyl-beta-amino propionates. 2,882,250, 4-14-59, Cl. 252—33.6.
- Bartlett, Jeffrey H., W. H. Brugmann, Jr., and A. J. Morway, to Esso Research and Engineering Co. Herbicidal grease composition. 2,867,519, 1-6-59, Cl. 71—2.6.
- Bartlett, Jeffrey H., R. S. Brodkey, and L. W. Bowman, to Esso Research and Engineering Co. Dicarboxylic acids from dicyclopentadienes. 2,875,244, 2-24-59, Cl. 260—514.
- Bartlett, Jeffrey H., and W. C. Hollyday, Jr., to Esso Research and Engineering Co. Multifunctional lubricant additives. 2,876,213, 3-3-59, Cl. 260—78.5.
- Bartlett, Jeffrey H., and V. L. Hughes, to Esso Research and Engineering Co. Preparation of bifunctional cycloalkanes. 2,894,038, 7-7-59, Cl. 260—598.
- Bartlett, Joseph W., and E. D. Soltes, to Delhi-Taylor Oil Corp. Sulfur extraction process. 2,890,941, 6-16-59, Cl. 23—310.
- Bartlett, Marjorie: *See*—  
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- Bartlett, Marjorie H.: *See*—  
Bartlett, David E. and M. H. 2,878,486.
- Bartlett, Norman, 1/2 to M. Bartlett. Amusement ride. 2,873,972, 2-17-59, Cl. 273—101.2.
- Bartlett, Norman, 1/2 to M. Bartlett. Amusement ride. 2,895,735, 7-21-59, Cl. 272—51.
- Bartlett, Philip D., to Polaroid Corp. Photographic apparatus. 2,880,657, 4-7-59, Cl. 95—12.
- Bartlett, Philip D., D. R. Bishop, S. B. Whittier, and A. L. H. Wright to Polaroid Corp. Photographic apparatus. 2,873,657, 2-17-59, Cl. 95—13.
- Bartlett, Raymond M., to American Can Co. Method of applying a wax composition to the convex countersink portion of a can end. 2,906,640, 9-29-59, Cl. 117—43.
- Bartlett, Richard J., to Smith, Kline & French Laboratories. Apparatus for assembling containers. 2,878,631, 3-24-59, Cl. 53—243.
- Bartlett, Richard J., C. C. Hall, and J. A. Martell, to Smith, Kline & French Laboratories. Box closing machine. 2,910,815, 11-3-59, Cl. 53—374.
- Bartlett, William R.: *See*—  
Ford, William H. 2,918,800.
- Bartley, Calvin L., to Poor & Co. Insulated end posts. 2,885,153, 5-5-59, Cl. 238—153.
- Bartley, Ted O., to Turner Aviation Corp. Multi crystal tuned radio transceiver. 2,889,452, 6-2-59, Cl. 250—13.
- Bartlo, John S., to Lynch Corp. Product settling means for draw type wrapping machine. 2,915,866, 12-8-59, Cl. 53—124.
- Bartocho, Bodo: *See*—  
Kautsky, Hans W., and Bartocho. 2,886,583.
- Bartolat, Joseph J. Dispenser for liquid additives to water hoses. 2,893,417, 7-7-59, Cl. 137—205.5.
- Bartolucci, Edgar O. Shoe heel. 2,888,755, 6-2-59, Cl. 36—34.
- Barton, Benjamin B., to American Fire Apparatus Co. Governor control mechanism for pumps. 2,896,541, 7-28-59, Cl. 103—19.
- Barton, Clarence D., and M. A. Case, to Gustin-Bacon Mfg. Co. Journal box lubricator pad. 2,869,944, 1-20-59, Cl. 308—243.
- Barton, Donn C. Packaging device for merchandising food concentrates. 2,876,113, 3-3-59, Cl. 99—171.
- Barton, Earl G.: *See*—  
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- Barton, Frank, to Armstrong Siddeley Motors Ltd. Machine for shaping axial-flow blades. 2,916,973, 12-15-59, Cl. 90—55.
- Barton, George C., to United Shoe Machinery Corp. Shoe sewing machines. 2,881,722, 4-14-59, Cl. 112—38.
- Barton, Hugh M., Jr.: *See*—  
Wiley, Bruce F., and Barton. 2,882,914.
- Barton, Hugh M., Jr., to Phillips Petroleum Co. Analyzer. 2,872,588, 2-3-59, Cl. 250—210.



- Barton Instrument Corp.: *See*—  
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- Barton, Larry J., to The Clorox Co. Method of producing purified stabilized sodium hypochlorite. 2,918,351, 12-22-59, Cl. 23—86.
- Barton, Loy E., to Radio Corp. of America. Semiconductor devices. 2,886,748, 5-12-59, Cl. 317—235.
- Barton, Raymond W., and J. T. Herron, to Mead Johnson & Co. Flow regulator. 2,902,248, 9-1-59, Cl. 251—8.
- Barton, Richard D. Mechanics' light support. 2,888,552, 5-26-59, Cl. 240—88.
- Barton, Virginia. Combination diaper bag and baby bed. 2,908,020, 10-13-59, Cl. 5—99.
- Barton, Webley E., to Daystrom Inc. Multiple bimetallic element. 2,918,820, 12-29-59, Cl. 73—363.9.
- Bartram, James F., and D. H. Evans, to Bell Telephone Laboratories, Inc. Beam positioning apparatus. 2,913,622, 11-17-59, Cl. 315—21.
- Bartram, Ralph H., to Sylvania Electric Products Inc. Microwave tube. 2,903,619, 9-8-59, Cl. 315—18.
- Bartram, Ralph H., to Sylvania Electric Products Inc. Microwave tube. 2,903,620, 9-8-59, Cl. 315—18.
- Bartram, Ralph H., to Sylvania Electric Products Inc. Microwave tube. 2,915,666, 12-1-59, Cl. 313—156.
- Bartz, Günter: *See*—  
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- Bartz, Melvin C.: *See*—  
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- Baruch, Jordan J., and C. H. Allen, to Bolt Beranek and Newman Inc. Method of and apparatus for acoustic silencing. 2,893,508, 7-7-59, Cl. 181—45.
- Baruch, Samuel. Jewelry. 2,888,723, 6-2-59, Cl. 24—41.
- Baruch, Sydney N. Power sources. 2,900,592, 8-18-59, Cl. 321—8.
- Barwick, Keith E., to Burroughs Corp. Electrical socket mounting unit. 2,905,921, 9-22-59, Cl. 339—17.
- Barworth, William G.: *See*—  
Cavanaugh, George S., and Barworth. 2,914,974.  
Cavanaugh, George S., and Barworth. 2,914,975.
- Barzelay, Martin E. Spray drying apparatus. 2,884,049, 4-28-59, Cl. 159—4.
- Basch, Walter M.: *See*—  
Holder, Clinton H., and Basch. 2,867,583.  
Mikeska, Louis A., Read, and Basch. 2,882,220.
- Basch, Walter M., to Esso Research and Engineering Co. Solvent dewaxing process wherein a critical amount of inert gas is bubbled through the cooling zone so as to improve subsequent filtration. 2,903,410, 9-8-59, Cl. 208—35.
- Baschant, Karl, to Utina-Electrowerk G.m.b.H. Watering device for stock. 2,891,509, 6-23-59, Cl. 119—75.
- Basco Inc.: *See*—  
Kile, Stephen L. 2,903,053.
- Basdekis, Costas H., to Monsanto Chemical Co. Polymeric calcium salt. 2,891,931, 6-23-59, Cl. 260—80.
- Basebe, Arthur C.: *See*—  
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- Baselt, Frederick C., to American Can Co. Sanitary container opening device. 2,916,818, 12-15-59, Cl. 30—10.
- Baselt, Walter H., to American Steel Foundries. Brake beam support. 2,874,811, 2-24-59, Cl. 188—207.
- Baselt, Walter H., to American Steel Foundries. Snubbed truck. 2,908,232, 10-13-59, Cl. 105—197.
- Basford, Kenneth A.: *See*—  
Colley, Rowan H., Basford, Moore, and Pearce. 2,916,876.  
Haworth, Lionel, McLean, Basford, and Page. 2,886,300.
- Basgall, Elmer J. Fishing lure. 2,877,592, 3-17-59, Cl. 43—42.44.
- Bashara, Frank J. Well filters. 2,877,852, 3-17-59, Cl. 166—236.
- Bashman, Charles T.: *See*—  
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- Bashor, James R.: *See*—  
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- Bashore, Don M., and N. H. Brown, Jr., to United States Rubber Co. Cold weather garments. 2,897,508, 8-4-59, Cl. 2—93.
- Bashover, Albert, to Margon Corp. Doll eye. 2,870,571, 1-27-59, Cl. 46—169.
- Bashover, Albert, to Margon Corp. Doll eye. 2,892,288, 6-30-59, Cl. 46—169.
- Bashover, Albert, to Margon Corp. Doll eye assembly. 2,904,928, 9-22-59, Cl. 46—166.
- Basic Inc.: *See*—  
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- Basic Products Corp.: *See*—  
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Selin, Karl I. 2,916,689.  
Sola, Joseph G. 2,870,398.
- Basic Structural Plastics, Inc.: *See*—  
Miner, Charles, Jr., and Kinsey. 2,912,939.
- Basile, James V. Combined level and measuring tool. 2,900,729, 8-25-59, Cl. 33—89.
- Basinger, John D.: *See*—  
Meadows, Charles L. 2,897,590.
- Baskin, Jeff D. Means for protecting crops from frost and cold. 2,902,990, 9-8-59, Cl. 126—59.5.
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Dietz, Gerald E., and Hilgert. 2,869,049.  
Hajny, Charles E. 2,873,328.  
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Hilgert, Adolph J. 2,876,786.  
Hilgert, Adolph J. 2,879,358.  
Hilgert, Adolph J. 2,916,676.  
Leius, Oscar J. 2,881,830.  
Matthews, Russell B. 2,872,972.  
Matthews, Russell B. 2,873,069.  
Matthews, Russell B. 2,875,773.  
Matthews, Russell B. 2,875,822.  
Matthews, Russell B. 2,876,951.  
Matthews, Russell B. 2,885,605.  
Matthews, Russell B. 2,888,024.  
Matthews, Russell B. 2,891,729.  
Matthews, Russell B. 2,899,970.  
Matthews, Russell B. 2,899,972.  
Matthews, Russell B. 2,905,189.  
Matthews, Russell B. 2,908,325.  
Matthews, Russell B. 2,909,218.  
Matthews, Russell B. 2,909,219.  
Matthews, Russell B. 2,914,688.  
Matthews, Russell B. 2,917,239.  
Matthews, Russell B., and Merrell. 2,911,183.  
Meusy, Eugene E. 2,881,779.  
Meusy, Eugene E. 2,902,249.  
Schwalbach, Joseph C. 2,874,904.  
Seegert, Neal. 2,895,545.  
Thornberry, John H. 2,874,905.  
Wasson, Loerwood C. 2,876,397.  
Wolf, John A. 2,891,610.
- Bass, Charles S., 31% to T. M. Julian. Support. 2,909,347, 10-20-59, Cl. 248—113.
- Bass, George E., and F. Martindell, to Ferracute Machine Co. Combined clutch-brake mechanism. 2,889,021, 6-2-59, Cl. 192—18.
- Bass, Helen L., to Amalgamated Bass Price Inventions, Inc. Lunchbox construction. 2,869,770, 1-20-59, Cl. 229—27.
- Bass, Helen L., 51% to G. W. Prince, and 10% to W. T. Bass. Arm bag. 2,881,441, 4-14-59, Cl. 2—1.
- Bass, Walter T.: *See*—  
Bass, Helen L. 2,881,441.
- Bassett, Henry W., to The W. E. Bassett Co. Combined tool. 2,889,621, 6-9-59, Cl. 30—152.
- Bassett, W. E. Co., The: *See*—  
Bassett, Henry W. 2,889,621.  
Dawson, Collins T. 2,876,536.  
Walker, Herbert S. 2,903,791.  
Walker, Herbert S. 2,903,792.
- Bassick Co., The: *See*—  
Claud-Mantle, Arthur. 2,876,031.  
Claud-Mantle, Arthur. 2,893,771.  
Claud-Mantle, Arthur. 2,913,273.  
Claud-Mantle, Arthur. 2,916,901.  
Kramesak, Michael, Jr. 2,878,899.
- Bassin, Charles S. Restraining apparatus. 2,917,044, 12-15-59, Cl. 128—134.
- Bassin, Norman L. Electrical junction box and electrical fused plug connections. 2,894,097, 7-7-59, Cl. 200—115.5.
- Bassitt, Rudolph. Control method and electric system for textile machines. 2,871,685, 2-3-59, Cl. 66—86.
- Basso, Radento. Corrective splints. 2,889,827, 6-9-59, Cl. 128—87.
- Bassoff, Arthur B.: *See*—  
Gates, Thomas S., Bassoff, and Davis. 2,873,652.  
Praeg, Walter S., and Bassoff. 2,887,014.
- Bassoff, Arthur B., to National Broach & Machine Co. Arbor. 2,904,938, 9-22-59, Cl. 51—168.
- Bassot, André, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude. Arc welding guns with consumable electrode wire. 2,900,488, 8-18-59, Cl. 219—130.
- Bastek, Heinrich, to The Babcock & Wilcox Co. Waste heat boiler casing structure of corrugated plates. 2,916,021, 12-8-59, Cl. 122—494.
- Bastian-Blessing Co., The: *See*—  
Allshouse, Harlow E., and Mendonca. 2,910,247.  
Billington, Evans R. 2,867,234.  
Billington, Evans R. 2,909,188.  
Boedecker, Woodrow S. 2,898,077.  
Hanson, Herbert G., and Poethig. 2,916,060.  
Larkin, James, and Boedecker. 2,884,024.  
Sundstrom, Savin L. 2,893,756.
- Bastien, Paul G., to Societe des Forges et Ateliers du Creusot. Process for improving stress corrosion cracking resistance of alloyed steel in hydrogen sulphide atmosphere. 2,895,861, 7-21-59, Cl. 148—21.5.
- Bastis, Thomas E., to Kaiser Aluminum & Chemical Corp. Display sign. 2,885,808, 5-12-59, Cl. 40—125.
- Bata Shoe Co. of Canada Ltd.: *See*—  
Vdolek, Vladimir A. 2,907,068.
- Bataille, Maurice C. E., and G. M. Planchais, to International Standard Electric Corp. Electronic finder. 2,919,309, 12-29-59, Cl. 179—18.
- Batchelder, James W. Apparatus for automatic drilling and tapping of headed work pieces. 2,894,420, 7-14-59, Cl. 77—5.
- Batchelder, James W. Flow control mechanism for counting-packaging apparatus and electric circuitry therefor. 2,907,154, 10-6-59, Cl. 53—59.



- Batchelder Rubico, Inc.: *See*—  
Rubico, Jerome A. 2,878,762.
- Batcheller, Hugh W., to Kent Mfg. Corp. Multiple electric connectors. 2,872,658, 2-3-59, Cl. 339-220.
- Batcheller, Hugh W., to Kent Mfg. Corp. Wire gripping crimping dies with rib receiving grooves. 2,878,854, 3-24-59, Cl. 153-1.
- Batchelor, Joseph B., Jr., to Central Electronics, Inc. Antenna for automotive vehicles. 2,881,428, 4-7-59, Cl. 343-714.
- Batchelor, Joseph B., Jr., to Patronix, Inc. Electronic oscillator. 2,867,725, 1-6-59, Cl. 250-36.
- Batchelor, Wallace W., Jr.: *See*—  
Genovese, Anthony L., Sr., Batchelor, Belli, Garlock, and A. L. Genovese, Jr. 2,888,215.
- Bateman, Alva W., to E. I. du Pont de Nemours and Co. Apparatus for producing needled batts. 2,902,746, 9-8-59, Cl. 28-4.
- Bateman, Lee J.: *See*—  
Day, Richard A., and Bateman. 2,872,596.
- Bateman, William H., to Wickman Ltd. Means for forming the teeth of spur gear wheels or the like. 2,893,173, 7-7-59, Cl. 51-95.
- Bates, Arthur L.: *See*—  
Matter, Theodore S., Bates, and Brandau. 2,888,363.
- Bates, Charles E., to General Motors Corp. Vent cap. 2,889,392, 6-2-59, Cl. 136-177.
- Bates, Charles K., to Sylvania Electric Products Inc. Radio tube carton. 2,893,623, 7-7-59, Cl. 229-39.
- Bates, Darwin S., to Addressograph-Multigraph Corp. Printing devices. 2,903,276, 9-8-59, Cl. 283-9.
- Bates, Emile B. Wet heat treatment of material of poor electrical conductivity. Re. 24,644, 5-5-59, Cl. 8-151.2.
- Bates, Harold: *See*—  
Grady, Dennis, Bates, and Fisher. 2,872,331.
- Bates, James E., C. E. Johnson, and D. E. Tritten, to General Aniline & Film Corp. Prevention of cyan dye fading in color developed prints and films. 2,913,338, 11-17-59, Cl. 96-56.
- Bates, John K., Jr., to International Telephone and Telegraph Corp. Pulse width and repetition rate discriminator. 2,912,579, 11-10-59, Cl. 250-27.
- Bates, John R., to Sun Oil Co. Photochemical preparation of formaldehyde. 2,908,622, 10-13-59, Cl. 204-158.
- Bates, Landon M. Dormer ventilator. 2,885,944, 5-12-59, Cl. 98-42.
- Bates, Reginald E., to Red Devil Tools. Power operated scraper. 2,876,537, 3-10-59, Cl. 30-171.
- Bates, Robert O.,  $\frac{1}{2}$  to G. W. Arant. Clamp for structural elements. 2,909,381, 10-20-59, Cl. 287-54.
- Bates, Roland H., and C. Pantermoller. Physical therapeutic apparatus. 2,896,612, 7-28-59, Cl. 128-60.
- Batesville Casket Co., Inc.: *See*—  
Hillenbrand, George C. 2,867,029.  
Hillenbrand, George C. 2,867,030.
- Bath, Cyril Co., The: *See*—  
Maize, Paul F., and Yurka. 2,881,821.  
Yurka, August, Jr. 2,888,973.  
Yurka, August, Jr. 2,911,031.
- Bath Iron Works Corp.: *See*—  
Holm, Jens C. 2,873,920.
- Batha, Howard D.: *See*—  
Good, Carl D., and Batha. 2,867,499.
- Bathé, Charles G. Palm tree trimmer. 2,871,620, 2-3-59, Cl. 47-1.
- Bathe, Charles G. Apparatus for and method of smoking fowl or other meats. 2,888,872, 6-2-59, Cl. 99-259.
- Bathey Mfg. Co.: *See*—  
Larsen, Einar R. 2,877,602.  
Steele, Glen R. 2,893,567.
- Batho, William F., to Enterprise Railway Equipment Co. Operating mechanism for closure member of a discharge outlet assembly. 2,869,480, 1-20-59, Cl. 105-253.
- Batina, Jerome R., and K. E. Grosse, to W. M. Welch Mfg. Co. Photographic exposure timer. 2,885,563, 5-5-59, Cl. 250-205.
- Batlas, George X., and E. N. Pantazis. Paper towel dispenser. 2,886,226, 5-12-59, Cl. 225-106.
- Batres, Enrique: *See*—  
Ringold, Howard J., and Batres. 2,897,199.  
Ringold, Howard J., Kincl, and Batres. 2,895,969.
- Batson-Cook Co., The: *See*—  
Ball, Gaines L., and Hamrick. 2,897,575.
- Batson, William A., to The Singer Mfg. Co. Collapsible support for table leaf. 2,883,249, 4-21-59, Cl. 311-64.
- Batt, Werner. Implement with a handle for securely holding tubers and the like when peeling and preparing the same. 2,881,816, 4-14-59, Cl. 146-216.
- Battaglia, Angelo F. Scintillating sign and method and means for assembling same. 2,912,778, 11-17-59, Cl. 40-138.
- Battaline, John R. Flexible coupling. 2,899,809, 8-18-59, Cl. 64-15.
- Batteiger, Joseph R. Ice making apparatus. 2,886,954, 5-19-59, Cl. 62-135.
- Battelle Development Corp., The: *See*—  
Bride, John E., Faust, and Safranek. 2,886,500.  
Carlson, Chester F. 2,876,737.  
Gundlach, Robert W. 2,901,374.  
Mayo, Clyde R. 2,895,847.  
Neher, Maynard B. 2,917,921.  
Sherman, Thomas L. 2,917,931.  
Willardson, Robert, and Beer. 2,889,492.
- Battelle Memorial Institute: *See*—  
Allen, William M. 2,891,588.  
Hummell, John D. 2,876,862.
- Battenberg, Virgil, D. W. Miller, H. H. Detamore, and R. E. Moore, to General Motors Corp. Centrifugally responsive governor valve assembly. 2,883,178, 4-21-59, Cl. 267-1.
- Battenberg, Virgil B., F. H. Katterheinrich, and R. L. Sayre, to General Motors Corp. Air driven power unit. 2,874,787, 2-24-59, Cl. 170-68.
- Battenfeld Grease & Oil Corp., Inc.: *See*—  
Hosler, Wallace R. 2,902,190.
- Batterman, Theodore W., and M. Pobog, to Electric Eye Equipment Co. Automatic programming control board for automatic shutter system. 2,917,640, 12-15-59, Cl. 307-115.
- Battersby, Lyle R., to United States of America, Army. Method of automatic amplitude control for speech frequencies. 2,896,030, 7-21-59, Cl. 179-171.
- Batterson, Carl E. Mineral separators. 2,884,134, 4-28-59, Cl. 210-322.
- Bailey, Everett M., and J. S. Livney, to Inflico Inc. Quick-acting release valve. 2,872,149, 2-3-59, Cl. 251-25.
- Batinich, Mitchell. Method and apparatus for filling cans and the like. 2,903,023, 9-8-59, Cl. 141-61.
- Batinich, Mitchell. Filling mechanism. 2,914,097, 11-24-59, Cl. 141-286.
- Battista, Anthony V. Lubricating rack construction. 2,893,641, 8-11-59, Cl. 20-8.
- Battistoni, Giovanni. Process for extracting sugar from molasses. 2,916,404, 12-8-59, Cl. 127-47.
- Battle Creek Packaging Machines, Inc.: *See*—  
Fargo, Eric J. 2,871,639.
- Batts, Charles C. Fluid spray nozzle. 2,893,646, 7-7-59, Cl. 239-419.
- Batts, James W., to Permanent Glaze, Inc. Window construction. 2,901,786, 9-1-59, Cl. 20-56.4.
- Batty, John W., A. Lambert, G. Scott, and L. Seed, to Imperial Chemical Industries Ltd. Esters of hyponitrous acid. 2,913,481, 11-17-59, Cl. 260-466.
- Batutis, Edward F., and S. L. Walters, to Mine Safety Appliances Co. Purification of alkali metals by heat transfer. 2,879,157, 3-24-59, Cl. 75-66.
- Batz, Walter: *See*—  
Treder, Richard W., and Batz. 2,898,251.
- Batzle, William K., to Radio Corp. of America. Electron tube electrode. 2,900,553, 8-18-59, Cl. 313-331.
- Bau, Robert G. Cosmetic make-up kit. 2,902,041, 9-1-59, Cl. 132-79.
- Baublitz, Merritt H. Supporting and operating device for drills and the like. 2,879,677, 3-31-59, Cl. 77-7.
- Baublys, Mikas. Contrivance for the limitation of the axial play of shafts. 2,886,382, 5-12-59, Cl. 308-236.
- Bauchart, Adrienne, nee Echegut. Thread-cutting device. 2,909,091, 10-20-59, Cl. 82-5.
- Baudat, Andre A.: *See*—  
Swenson, Harvey F., and Baudat. 2,901,015.
- Baude, John, to Allis-Chalmers Mfg. Co. Network protector. 2,900,528, 8-18-59, Cl. 307-87.
- Baude, John, to Allis-Chalmers Mfg. Co. Control scheme for electric devices employing a magnetic amplifier. 2,914,718, 11-24-59, Cl. 318-167.
- Baudecroux, Jean P.: *See*—  
Baudecroux, Paul. 2,883,350.  
Baudecroux, Micheline R.: *See*—  
Baudecroux, Paul. 2,883,350.
- Baudecroux, Paul, deceased; R. J. S. Baudecroux, widow and heir, and guardian of J. P. and M. R. Baudecroux, minor heirs. Cellulosic varnishes and paints. 2,883,350, 4-21-59, Cl. 260-17.
- Baudecroux, Rica J. S.: *See*—  
Baudecroux, Paul. 2,883,350.
- Baudet, Raimond E. M.: *See*—  
Bevoort, Cornelis, and Baudet. 2,867,688.  
Bevoort, Cornelis, and Baudet. 2,876,281.
- Baudhuin, George J. Self-propelled mobile lift. 2,909,298, 10-20-59, Cl. 214-396.
- Baudouin, Jacques. Brush with cleaning and protecting means. 2,881,460, 4-14-59, Cl. 15-184.
- Baudry, René A., to Westinghouse Electric Corp. Dual-ventilation hydrogen-cooled generators. 2,873,393, 2-10-59, Cl. 310-55.
- Baudry, René A., to Westinghouse Electric Corp. Turbine-generator ventilation. 2,915,655, 12-1-59, Cl. 310-55.
- Bauer, Albert, to Kelsey-Hayes Co. Plier tool. 2,885,781, 5-12-59, Cl. 30-271.
- Bauer, Alfons. Devices for indicating and recording the speed of travel of and the distance travelled by motor vehicles. 2,902,332, 9-1-59, Cl. 346-136.
- Bauer, Alfred F., to National Lead Co. Heating of dies by internal combustion. 2,892,224, 6-30-59, Cl. 22-74.
- Bauer, Alfred F., to National Lead Co. Die cast V-type engine block. 2,893,358, 7-7-59, Cl. 121-194.
- Bauer, Alfred F., to National Lead Co. Positioning or locking guides for dies. 2,912,730, 11-17-59, Cl. 22-153.
- Bauer, Armand C.,  $\frac{1}{2}$  to Stanley G. De La Hunt, and  $\frac{1}{2}$  to Thomas J. Lyons. Steering device for small watercraft. 2,916,008, 12-8-59, Cl. 115-18.
- Bauer, Benjamin B., L. Gunter, Jr., and C. E. Seeler, to Shure Brothers, Inc. Phonograph pickup. 2,900,452, 8-18-59, Cl. 179-100.41.
- Bauer Bros. Co., The: *See*—  
Shouvin, Joseph C., and Ginaven. 2,893,909.



- Bauer, Charles H., to International Business Machines Corp. Sheet feeding apparatus. 2,869,869, 1-20-59, Cl. 271-36.
- Bauer, Clifford D., R. M. Marks, and E. A. Bernardoni, to The Borden Co. Calcium enriched milk. 2,871,123, 1-27-59, Cl. 99-54.
- Bauer, Dale A., to De-Icers, Inc. Vinyl mitten. 2,900,642, 8-25-59, Cl. 2-158.
- Bauer, Eduard, to The Cincinnati Milling Machine Co. Digital positioning device. 2,899,621, 8-11-59, Cl. 318-467.
- Bauer, Edwin W., to International Business Machines Corp. Magnetic core half adder. 2,868,451, 1-13-59, Cl. 235-61.
- Bauer, Edwin W., to International Business Machines Corp. Magnetic transfer circuit. 2,918,664, 12-22-59, Cl. 340-174.
- Bauer, Edwin W., and M. K. Haynes, to International Business Machines Corp. Magnetic memory system with disturbance cancellation. 2,889,540, 6-2-59, Cl. 340-174.
- Bauer, Edwin W., and M. K. Haynes, to International Business Machines Corp. Magnetic core building block. 2,910,594, 10-27-59, Cl. 307-88.
- Bauer, Ernest K., to American Viscose Corp. Snap action motion reversing mechanism. 2,886,974, 5-19-59, Cl. 74-100.
- Bauer, Ernest K., to American Viscose Corp. Drive unit for yarn collecting apparatus. 2,887,278, 5-19-59, Cl. 242-46.5.
- Bauer, Eugen, G.m.b.H.: See—
- Barthuff, Otto, and Pfaffenberger. 2,902,968.
- Bauer, Frank K., and R. D. Tufford, to H. W. Bauer. Machine for gathering down ears of corn. 2,891,373, 6-23-59, Cl. 56-345.
- Bauer, Franz: See—
- Naimer, Hubert L., and Bauer. 2,919,151.
- Bauer, Franz, to H. Naimer. Electromagnetically operated contactor. 2,882,369, 4-14-59, Cl. 200-87.
- Bauer, Friedrich L., to Siemens & Halske Akt. Method of and apparatus for securing the transmission of telegraph impulses. 2,880,273, 3-31-59, Cl. 178-23.
- Bauer, Fritz: See—
- Kracker, Herbert, Bauer, Kirst, Lowenfeld, and Staab. 2,908,679.
- Bauer, George F. Saddle actuated hobby horse. 2,913,248, 11-17-59, Cl. 280-1183.
- Bauer, George W.: See—
- Busch, Lee S., and Bauer. 2,899,303.
- Bauer, Helen W.: See—
- Bauer, Frank K., and Tufford. 2,891,373.
- Bauer, Howard G., to The Rudolph Wurlitzer Co. Organ tremulant. 2,892,372, 6-30-59, Cl. 84-125.
- Bauer, Howard G., to The Rudolph Wurlitzer Co. Multiple tremulant for treble tones in electronic musical instruments. 2,892,373, 6-30-59, Cl. 84-125.
- Bauer, Howard G., to The Rudolph Wurlitzer Co. Organ reed support and assembly. 2,911,870, 11-10-59, Cl. 84-114.
- Bauer, Hubert: See—
- Clarke, William W., Stevens, Bauer, Jarvis, and Heller. 2,912,186.
- Bauer, John A., to Bendix Aviation Corp. Time delay circuit. 2,906,926, 9-29-59, Cl. 317-148.5.
- Bauer, Josef, Jr. Horn-light combination. 2,883,654, 4-21-59, Cl. 340-393.
- Bauer, Joseph, and H. Schlossmacher, to Hauni-Werke Korber & Co. K.G. Machines for loosening tobacco bales. 2,911,981, 11-10-59, Cl. 131-149.
- Bauer, Kurt P., to Textile Machine Works. Fashioning mechanism for knitting machines. 2,874,557, 2-24-59, Cl. 66-89.
- Bauer, Kurt P., G. Bitzer, and H. E. Haehnel, to Textile Machine Works. Welt bar operating means for straight bar knitting machines. 2,898,753, 8-11-59, Cl. 66-96.
- Bauer, Richard M.: See—
- Curler, Howard J., and Bauer. 2,892,735.
- Bauer, Robert D., and N. W. Mitchell, to Phillips Petroleum Co. Two stage reforming with noble metal catalyst. 2,905,621, 9-22-59, Cl. 208-85.
- Bauer, Robert F., and H. Stratton, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Anchoring method and apparatus. 2,891,770, 6-23-59, Cl. 255-1.8.
- Bauer, Robert F., R. C. McNeill, and J. T. Ledbetter, to Shell Oil Co., Continental Oil Co., The Superior Oil Co., and Union Oil Co. of California. Off-shore drilling. 2,909,359, 10-20-59, Cl. 255-1.8.
- Bauer, Russell E., to Cadillac Gage Co. Hydraulic control system. 2,893,355, 7-7-59, Cl. 121-39.
- Bauer, William H., Jr., to Minnesota Mining and Mfg. Co. Perfluorochloroolefin polymer blends. 2,888,264, 5-26-59, Cl. 117-72.
- Bauer, William R.: See—
- Prescott, Frank R., and Bauer. 2,887,738.
- Bauerlein, Carl C., to The Dole Valve Co. Liquid level indicator. 2,873,714, 2-17-59, Cl. 116-118.
- Bauerlein, Carl C., to The Dole Valve Co. Adjustable venturi proportioning valve. 2,881,800, 4-14-59, Cl. 137-604.
- Bauerlein, Carl C., to The Dole Valve Co. Liquid measuring device. 2,887,255, 5-19-59, Cl. 222-453.
- Bauerlein, Carl C., to The Dole Valve Co. Liquid measuring and dispensing device. 2,888,174, 5-26-59, Cl. 222-212.
- Bauerlein, Carl C., to The Dole Valve Co. Throw-away type of concentrate proportioner. 2,895,642, 7-21-59, Cl. 222-80.
- Bauerlein, Carl C., and M. M. Reddi, to The Dole Valve Co. Automatic icemaker. 2,918,803, 12-29-59, Cl. 62-135.
- Bauermann, W., & Sohne G. m. b. H.: See—
- Zimmermann, Richard. 2,877,782.
- Bauernfeind, Jacob C., and R. H. Bunnell, to Hoffmann-La Roche Inc. Coloring composition and method of producing the same. 2,916,385, 12-8-59, Cl. 99-148.
- Bauernfeind, Norman G., and H. D. Huggins, to Modine Mfg. Co. Method of making a heat exchanger. 2,912,749, 11-17-59, Cl. 29-157.3.
- Bauers, Barton M., Sr., to Owens-Corning Fiberglas Corp. Fluid heat exchange apparatus for use in molds. 2,887,722, 5-26-59, Cl. 18-39.
- Baugh, Charles W., Jr., to Westinghouse Electric Corp. Color television receiver burst separator. 2,892,018, 6-23-59, Cl. 178-5.4.
- Baugh, Charles W., Jr., to Westinghouse Electric Corp. Color television synchronous demodulator circuit. 2,897,360, 7-28-59, Cl. 250-27.
- Baugh, Charles W., Jr., to Westinghouse Electric Corp. Automatic frequency control system for television receiver. 2,916,545, 12-8-59, Cl. 178-5.8.
- Baugh, Jesse L., to Mold-Rite Corp. Foundry mold composition and method of preparing and maintaining the same for repeated use. 2,876,511, 3-10-59, Cl. 22-193.
- Baughman, Robert L.: See—
- Taylor, Donald F., Baughman, and Yntema. 2,904,430.
- Taylor, Donald F., Baughman, and Yntema. 2,905,548.
- Taylor, Donald F., Baughman, and Yntema. 2,905,549.
- Taylor, Donald F., Baughman, and Yntema. 2,905,550.
- Baum, Alvan: See—
- Carlsen, Earl W., and Baum. 2,896,384.
- Baum, Arthur A., to E. I. du Pont de Nemours and Co. Process for the preparation of dibenzanthrone. 2,872,459, 2-3-59, Cl. 260-357.
- Baum, Richard F., to International Telephone and Telegraph Corp. Narrow band discriminator circuit. 2,889,458, 6-2-59, Cl. 250-31.
- Baum, Wendell E. Blade holding device. 2,904,884, 9-22-59, Cl. 30-162.
- Baum, William E., and J. L. Federman, to Eli Lilly and Co. Process for obtaining intrinsic factor. 2,912,360, 11-10-59, Cl. 167-74.
- Bauman, Carl C. Cutter for thin wall tubing. 2,875,517, 3-3-59, Cl. 30-101.
- Bauman, Carl S., to Air Conditioning, Inc. Air conditioning system. 2,886,955, 5-19-59, Cl. 62-259.
- Bauman, Edward, and J. O. G. Darrow, to North Electric Co. Excess voltage dissipating device. 2,875,366, 2-24-59, Cl. 313-306.
- Bauman, Joseph F. Skirt gage. 2,871,564, 2-3-59, Cl. 33-9.
- Bauman, Stephen. Easy service TV set. 2,898,585, 8-4-59, Cl. 340-367.
- Bauman, Thomas S., to Dominion Glass Co. Ltd. Apparatus for banding articles. 2,876,733, 3-10-59, Cl. 118-219.
- Bauman, William C.: See—
- McIlhenry, William F., Baker, Clarke, and Bauman. 2,897,051.
- Bauman, William C., and E. L. Graham, to The Dow Chemical Co. Preparation of molded articles from kerogenic minerals. 2,900,269, 8-18-59, Cl. 106-241.
- Baumann, Albert, to Durkoppwerke Akt. Conveyor system. 2,901,082, 8-25-59, Cl. 198-19.
- Baumann, Arthur N., to International Minerals & Chemical Corp. Manufacture of alkali metal polyphosphates. 2,888,321, 5-26-59, Cl. 23-107.
- Baumann, Bernard: See—
- Miesch, Camille, and Baumann. 2,890,495.
- Baumann, Ernst: See—
- Mast, Fred, Baumgartner, Held, and Baumann. 2,896,507.
- Baumann, Ernst, and F. Mast, to Gesellschaft Zur Forderung der Forschung an der Eidgenössischen Hochschule. Arrangement for amplifying the light intensity of an optically projected image. 2,892,380, 6-30-59, Cl. 88-61.
- Baumann, Friedrich. Process of converting carbon monoxide into a mixture of carbon dioxide and hydrogen. 2,870,096, 1-20-59, Cl. 252-373.
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- Seibert, Heinrich, Triebeneck, Bienert, and Baumann. 2,875,211.
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- Baumann, Poul H. Filters. 2,904,182, 9-15-59, Cl. 210-234.
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- Baumbach, Darrel W., to David D. Miller. Portable drafting machine. 2,915,828, 12-8-59, Cl. 33-79.
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- Baumeister, Heard K., to International Business Machines Corp. Fluid pressurized sleeve bearing. 2,877,066, 3-10-59, Cl. 308-122.
- Baumer, Earl F. Single-void unitized transportable package. 2,869,721, 1-20-59, Cl. 206-65.
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- Baumgartner, John R. Carton blank delivery mechanism. 2,882,047, 4-14-59, Cl. 271-7.
- Baumgartner, John R. Blank forming apparatus. 2,888,860, 6-2-59, Cl. 93-36.
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- Baumgartner, Walter E., and N. O. Brace, to E. I. du Pont de Nemours and Co. Process for the manufacture of tetraethyllead at elevated temperatures. 2,917,527, 12-15-59, Cl. 260-437.
- Baumgartner, Willy: *See—*  
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- Baumier, Marius. Reinforced locking device for covers for receptacles. 2,875,918, 3-3-59, Cl. 220-55.
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- Baur, Carl, and C. Otzen, to Agfa Camera-Werk Akt. Objective for enlargements. 2,898,808, 8-11-59, Cl. 88-57.
- Baur, Franz W., to Firma Contraves A. G. Supporting device. 2,873,936, 2-17-59, Cl. 248-180.
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- Baur, Paul, to Werner & Pfeiderer. Device for forming bands of dough in continuous operation. 2,909,131, 10-20-59, Cl. 107-12.
- Baus, Richard E., E. E. Fisher, and P. R. Pendell, to Gulf Oil Corp. Mineral lubricating oil composition. 2,911,367, 11-3-59, Cl. 252-32,7.
- Baus, William A. Fluid pump. 2,876,706, 3-10-59, Cl. 103-137.
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Brumley, Corwin H. 2,901,941.  
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- Baush, Edward R.: *See—*  
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- Bauwin, George R., and F. X. Grossi, to Union Starch & Refining Co. Stabilized soil and method of producing it with quaternary nitrogen salt. 2,893,166, 7-7-59, Cl. 47-1.
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- Bavley, Abraham, K. J. Brunings, and D. P. Cameron, to Chas. Pfizer & Co., Inc. Insecticides-derivatives of itaconic acid. 2,876,156, 3-3-59, Cl. 167-22.
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- Bavor, Gordon F.: *See—*  
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- Bavor, Gordon F., and J. Pichert, to Raytheon Co. High voltage switching tubes. 2,915,669, 12-1-59, Cl. 313-297.
- Baxa, James F., to Wheeling Steel Corp. Apparatus for forming a boiler head or the like. 2,898,788, 8-11-59, Cl. 78-61.
- Baxley, Eschol D.: *See—*  
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- Baxman, Horace R.: *See—*  
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- Baxter, Clyde W.: *See—*  
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- Baxter, Don, Inc.: *See—*  
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- Baxter, Edna F. Method of making decorative material. 2,867,890, 1-13-59, Cl. 28-72.
- Baxter, Ellsworth H. Aerating device. 2,919,120, 12-29-59, Cl. 261-30.
- Baxter, Gene F., P. K. Schoening, and H. M. Preusser, to American-Marietta Co. Thixotropic phenol-aldehyde adhesive composition and method of making same. 2,878,197, 3-17-59, Cl. 260-17,5.
- Baxter, George C., to Flex-Prop Corp. Balancing mechanism for washing machines. 2,886,979, 5-19-59, Cl. 74-573.
- Baxter, George C., and L. R. Christensen. Grain dryer. 2,887,788, 5-26-59, Cl. 34-128.
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- Baxter, James G., to Eastman Kodak Co. Vitamin E fortified animal feeds. 2,891,804, 6-23-59, Cl. 99-2.
- Baxter, John. Brick course level and height gauge. 2,915,829, 12-8-59, Cl. 33-88.
- Baxter, John C., to The Black and Decker Mfg. Co. Electric hand drill powered floor polisher. 2,917,760, 12-22-59, Cl. 15-49.
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- Baxter, Leonard R., and D. E. Rittenberg. Apparatus for manufacturing fabricated panels. 2,889,854, 6-9-59, Cl. 139-28.
- Baxter, Leonard R., and D. E. Rittenberg. Woven fences. 2,890,023, 6-9-59, Cl. 256-19.
- Baxter, Margaret B. Foundation garments. 2,887,114, 5-19-59, Cl. 128-525.
- Baxter, Meriwether L., Jr., and L. O. Carlsen, to The Gleason Works. Machine for cutting gears and the like. 2,895,384, 7-21-59, Cl. 90-6.
- Baxter, Robert R.: *See—*  
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- Baxter, Thomas R., and B. C. Miller, to Continental Can Co., Inc. Tool for opening and expanding the mouth of a flexible receptacle. 2,900,779, 8-25-59, Cl. 53-381.
- Bay, Ernest, and W. B. Kelley, to Owens-Corning Fiberglass Corp. Flexible coupling. 2,904,976, 9-22-59, Cl. 64-27.
- Bayard, Jere: *See—*  
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- Bayard, Kenneth T. Bag holder and opener. 2,899,161, 8-11-59, Cl. 248-101.
- Bayard, Robert T., to Westinghouse Electric Corp. Counter. 2,879,423, 3-24-59, Cl. 313-93.
- Bayer, Carl: *See—*  
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- Bayer, Erich: *See—*  
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- Bayer, Erich, and L. Rizzi. Process for the production of doofs from plastics in a single operation. 2,890,977, 6-16-59, Cl. 154-110.
- Bayer, Frank C., to Thompson Products, Inc. Fuel flow and control system. 2,867,269, 1-6-59, Cl. 153-36,4.
- Bayer, Otto: *See—*  
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- Bayhli, Marcel J., to Reed Unit-Fans, Inc. Offset tubular brace for fan housing. 2,874,898, 2-24-59, Cl. 230-273.
- Bayles, Alden, to Bendix Aviation Corp. Applying system for disk brake. 2,888,101, 5-26-59, Cl. 188-71.



- Bayles, Dolph B. Drag line bucket. 2,886,905, 5-19-59, Cl. 37-135.
- Bayley, Charles D., to General Electric Co. Photoconductive control circuit. 2,913,637, 11-17-59, Cl. 317-128.
- Bayley, Emery P., W. V. Davis, H. Diederichs, L. Vaupell, Jr., and W. H. Perrow, to Vaupell Industrial Plastics, Inc. Case angle shoe. 2,886,918, 5-19-59, Cl. 43-137.
- Bayley, Frederick J.: See—
- Terrell, Basil J., and Bayley. 2,873,087.
- Bayley, George R., to General Motors Corp. Filler access mechanism. 2,893,779, 7-7-59, Cl. 296-1.
- Bayliss, Cecil T., to Perry Chain Co. Ltd. Chain or belt tensioning devices. 2,893,255, 7-7-59, Cl. 74-242.8.
- Bayly, John G., to United States of America, Atomic Energy Commission. Proton resonance monitor. 2,911,587, 11-3-59, Cl. 324-5.
- Baymiller, John W., and P. E. Merrifield, to Armstrong Cork Co. Asbestos-containing vibration damping sheet material. 2,887,428, 5-19-59, Cl. 162-145.
- Bayne, Fred R.: See—
- Scherf, Paul H., Bayne, and Hammack. 2,867,134.
- Bayshore Industries, Inc.: See—
- Edwards, Philip B. 2,874,964.
- Bay State Abrasive Products Co.: See—
- Ball, Albert L. 2,874,729.
- Bazzoni, Leon J.: See—
- Hackett, Harry H. 2,885,902.
- Beach, Clarence E. Traffic signal controllers. 2,911,619, 11-3-59, Cl. 340-41.
- Beach, Edward J., to Beach-Russ Co. Boring device for elliptical or the like openings. 2,887,912, 5-26-59, Cl. 77-61.
- Beach, Edward L., and J. W. Steiner, to Westinghouse Electric Corp. Street light. 2,908,809, 10-13-59, Cl. 240-25.
- Beach, Harold W., Sr. Quick acting clamp. 2,886,267, 5-12-59, Cl. 248-41.
- Beach, Horace J., to Gulf Oil Corp. Protection of cements from effects of contamination. 2,889,228, 6-2-59, Cl. 106-31.
- Beach, James B., to Lockheed Aircraft Corp. Aircraft landing gear. 2,869,806, 1-20-59, Cl. 244-102.
- Beach, James R., to Bill Jack Scientific Instrument Co. Focal plane shutter. 2,877,698, 3-17-59, Cl. 95-57.
- Beach, John G.: See—
- Schaer, Glenn R., and Beach. 2,886,499.
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- Beach, John M. Container. 2,868,368, 1-13-59, Cl. 206-46.
- Beach, John M., and J. W. Bradbury; said Bradbury assor. to said Beach. Tow bar. 2,886,344, 5-12-59, Cl. 280-482.
- Beach, Joseph C.: See—
- Beach, Reuben T. 2,916,985.
- Beach, Laurence R., Jr., K. Radey, D. J. Gildea, and W. E. Strohmeier, to North American Aviation, Inc. Pressure measuring device. 2,876,640, 3-10-59, Cl. 73-182.
- Beach, Leland K., to Esso Research and Engineering Co. Process for preparing phosphonates. 2,908,708, 10-13-59, Cl. 260-461.2.
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- Beach, Reuben T., to J. C. Beach. Can crushing device. 2,916,985, 12-15-59, Cl. 100-53.
- Beach-Russ Co.: See—
- Beach, Edward J. 2,887,912.
- Beach & Shore, Inc.: See—
- Hayden, David H. 2,879,647.
- Beach, Sylvester K.: See—
- Stouten, Edwin A., and Beach. 2,893,450.
- Beach, William H., to The Bridgeport Metal Goods Mfg. Co. Diffusing lens for spot light reflector. 2,877,342, 3-10-59, Cl. 240-41.4.
- Beacham, Harry H., to National Lead Co. Film-forming and drying compositions. 2,901,450, 8-25-59, Cl. 260-19.
- Beacham, Robert C., and W. F. Butler, to Cutter Laboratories, Inc. Blood strainer. 2,912,980, 11-17-59, Cl. 128-214.
- Beachem, Michael T.: See—
- Shaw, John T., Hosler, and Beachem. 2,917,540.
- Beacher, John H., and H. A. Troutman, to Allied Chemical Corp. Polyethylene wax aerosol compositions and process for preparing them. 2,902,376, 9-1-59, Cl. 106-10.
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- Hornbostel, Lloyd, and Beachler. 2,907,690.
- Hornbostel, Lloyd, Beachler, and Ely. 2,869,437.
- Beachler, Edward D., to Beloit Iron Works. Air bleed press arrangement. 2,882,968, 4-21-59, Cl. 162-360.
- Beachler, Edward D., to Beloit Iron Works. Winder drive. 2,890,000, 6-9-59, Cl. 242-66.
- Beachler, Edward D., to Beloit Iron Works. Machine drive. 2,895,348, 7-21-59, Cl. 74-689.
- Beachler, Edward D., to Beloit Iron Works. Felt run arrangement. 2,909,848, 10-27-59, Cl. 34-117.
- Beachler, Edward D., to Beloit Iron Works. Stock distributor assembly. 2,911,041, 11-3-59, Cl. 162-336.
- Beachler, Edward D., and E. J. Justus, to Beloit Iron Works. Auxiliary drive control. 2,912,629, 11-10-59, Cl. 318-6.
- Beaconing, Optical and Precision Materials Co. Ltd.: See—
- Toczyłowski, Henryk S. 2,887,774.
- Bead Chain Mfg. Co., The: See—
- Bryant, Waldo G. 2,884,054.
- Beal, Carl L. Method of producing hollow plastic heels. 2,918,703, 12-29-59, Cl. 18-58.3.
- Beal, Carl L. Hollow plastic heels. 2,918,736, 12-29-59, Cl. 36-34.
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- Beal, James F., and J. Gogniat, Jr., to Robertshaw-Fulton Controls Co. Fuel burner control apparatus. 2,916,088, 12-8-59, Cl. 158-115.
- Beal, Philip F., and J. A. Hogg, to The Upjohn Co. 3 $\beta$ ,11 $\beta$ ,17 $\alpha$ ,21-tetrahydroxy-5-pregnen-20-one, 3,21-diesters intermediates and process for the production thereof. 2,899,448, 8-11-59, Cl. 260-397.45.
- Beal, Robert E., to United States of America, Agriculture. Preparation of partial glycerides. 2,885,414, 5-5-59, Cl. 260-403.
- Beale, Alvin F., Jr., L. H. Eilers, and W. T. Abel, to The Dow Chemical Co. Well cementing. 2,868,294, 1-13-59, Cl. 166-29.
- Beale, Benjamin: See—
- Traudt, Stephen C., Curran, and Beale. 2,908,464.
- Beale, Frederic S.: See—
- Halvorson, Robert L., Beale, and Dobyns. 2,875,327.
- Beale, Julian R. A. Method of making semi-conductive device. 2,878,147, 3-17-59, Cl. 148-1.5.
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- Beall, Francis W., and R. S. Burns, to Armco Steel Corp. Method for producing single-fire enameling stock devoid of fish-scaling and product thereof. 2,878,151, 3-17-59, Cl. 148-12.
- Beall, Horace A., Jr., and D. N. Montgomery, to Consolidated Electrodynamics Corp. Galvanometers. 2,907,952, 10-6-59, Cl. 324-97.
- Beall, John E.: See—
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- Beall, Richard W., Jr.,  $\frac{1}{2}$  to L. H. Chandler. Fitment for container. 2,915,223, 12-1-59, Cl. 222-109.
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- Beals, Malcolm D., and E. A. Giess, to National Lead Co. Preparation of ceramic frit compositions. 2,918,384, 12-22-59, Cl. 106-49.
- Beam Products Mfg. Co.: See—
- Lynn, Harold E. 2,895,560.
- Beam, Walter R., to Radio Corp. of America. Modulation control for cathode ray tubes. 2,888,606, 5-26-59, Cl. 315-16.
- Beam, Walter R., and R. C. Knechtli, to Radio Corp. of America. Apparatus for producing thermally-cool charged particles. 2,883,568, 4-21-59, Cl. 313-7.
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- Beaman, Bernard, and J. Hulman, to United Hydraulics, Inc. Fluid flow regulating means. 2,914,088, 11-24-59, Cl. 137-625.3.
- Beaman, Norman V., to The J. H. Day Co., Inc. Pan greasing machine. 2,903,998, 9-15-59, Cl. 118-301.
- Beaman Plastics: See—
- Woolfolk, Eldon W., and Boll. 2,915,215.
- Beaman, Townsend F.: See—
- Caldwell, William J. 2,872,858.
- Beamer, Ralph R. Boat steering device. 2,901,918, 9-1-59, Cl. 74-480.
- Beamish, Bernard D. Apparatus for detecting and counting objects. 2,914,246, 11-24-59, Cl. 235-98.
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- Bean, Charles H., and R. E. Macherey, to United States of America, Atomic Energy Commission. Method of making fuel elements. 2,915,815, 12-8-59, Cl. 29-473.3.
- Bean, Claude T.: See—
- Robitschek, Paul, and Bean. 2,890,144.
- Robitschek, Paul, and Bean. 2,898,256.
- Bean, Morris, and Co.: See—
- Bean, Morris M. 2,872,715.
- Bean, Xarifa L. 2,914,823.
- Bean, Morris M., to Morris Bean and Co. Method of casting metal around sheet metal inserts. 2,872,715, 2-10-59, Cl. 22-202.
- Bean, Roscoe D., to Wheelock Signals, Inc. Adjustable sound level control for audible signals of the vibratory type. 2,875,433, 2-24-59, Cl. 340-392.
- Bean, Russell K., to United States of America, Interior. Orthophotoscope. 2,869,419, 1-20-59, Cl. 88-24.
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- Christenson, Roger M., and Bean. 2,910,455.



- Bean, William T., Jr., to Tatnall Measuring Systems Co. Leaf-type electrical resistance strain gage. 2,899,658, 8-11-59, Cl. 338-2.
- Bean, Xarifa L., to Morris Bean & Co. Casting mold and pattern and process. 2,914,823, 12-1-59, Cl. 22-126.
- Beantalk Shelving Ltd.: *See*—James, David M., 2,901,121.
- Bear Mfg. Co.: *See*—Abbott, Bert F., 2,883,153.  
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- Beard, Arthur D.: *See*—Sublette, Ivan H., Beard, Bensky, Hobbs, and Fillebrown. 2,877,446.
- Beard, Clinton L.: *See*—Roup, Rolland R., Hitzeman, Taylor, and Beard. 2,905,564.
- Beard, Lawrence R.: *See*—Gleeson, John D., and Beard. 2,900,836.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Temperature measuring apparatus. 2,868,017, 1-13-59, Cl. 73-368.2.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Hydrogen concentration measuring apparatus. 2,882,212, 4-14-59, Cl. 204-195.
- Beard, Richard B., to Minneapolis-Honeywell Regulator Co. Method and control apparatus for carburizing ferrous objects. 2,886,478, 5-12-59, Cl. 148-16.5.
- Beardsley, Gale R., to International Harvester Co. Crank-case ventilating system for internal combustion engines. 2,906,252, 9-29-59, Cl. 123-119.
- Bearer, Henry P., Jr., to Blaw-Knox Co. Program control for soot blower. 2,902,707, 9-8-59, Cl. 15-316.
- Beasley, French & Co. Ltd.: *See*—French, Gordon W., 2,872,190.
- Beatman, John E. Kaleidoscope. 2,900,867, 8-25-59, Cl. 88-15.
- Beaton, Angus H.: *See*—Enders, Harter C., 2,883,821.
- Beaton & Cadwell Mfg. Co.: *See*—Work, Erich W., 2,871,877.
- Beaton, Roy H., to United States of America, Atomic Energy Commission. Columbic oxide adsorption process for separating uranium and plutonium ions. 2,894,810, 7-14-59, Cl. 23-14.5.
- Beattie, Horace S., to International Business Machines Corp. Character selection mechanism. 2,893,312, 7-7-59, Cl. 101-93.
- Beattie, Horace S., T. L. Buley, and B. M. Muenzer, to International Business Machines Corp. Printing apparatus. 2,919,005, 12-29-59, Cl. 197-49.
- Beattie, Robert W. Tobacco pouches with removable liners. 2,880,775, 4-7-59, Cl. 150-28.
- Beatty, Guy M., to Chiksan Co. Gate valve. 2,914,294, 11-24-59, Cl. 251-172.
- Beatty, John W., to General Electric Co. Operating mechanism for a fluid blast circuit breaker. 2,911,492, 11-3-59, Cl. 200-82.
- Beaubien, William H., to General Electric Co. Printed circuit surge relief gap. 2,901,659, 8-25-59, Cl. 313-809.
- Beauchamp, Frederick H. Cuff type trouser hanger. 2,889,093, 6-2-59, Cl. 223-96.
- Beauchamp, Paul N., to General Motors Corp. Extractor. 2,860,917, 1-20-59, Cl. 294-92.
- Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Side constructions for railway freight cars. 2,869,481, 1-20-59, Cl. 105-409.
- Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Doors for box cars. 2,878,533, 3-24-59, Cl. 20-23.
- Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Doors for box cars. 2,902,122, 9-1-59, Cl. 189-46.
- Beauchamp, Wilfred A., and J. H. Gerstenmaier, 1/2 each to The Youngstown Steel Door Co., and The Goodyear Tire & Rubber Co. Sealing means for laterally movable car doors. 2,907,080, 10-6-59, Cl. 20-69.
- Beaudoin, Amedee J.: *See*—Longton, Ernest W., Beaudoin, and Johnson. 2,867,795.
- Beaugh, John B., J. C. Schiller, and B. W. Thomas, to Esso Research and Engineering Co. Control of catalytic reforming. 2,903,417, 9-8-59, Cl. 208-136.
- Beaulieu, Delton C., and P. J. Link, to Kimberly-Clark Corp. Sheet handling mechanism. 2,886,190, 5-12-59, Cl. 214-6.
- Beaulieu, Delton C., and P. J. Link, to Kimberly-Clark Corp. 2,889,093, 6-2-59, Cl. 223-96.
- Beauloye, Alfred F. and H. J. Cylinder block resurfacing machine. 2,907,142, 10-6-59, Cl. 51-56.
- Beauloye, Henry, Jr.: *See*—Beauloye, Alfred F. and H. J., 2,907,142.
- Beaumont Birch Co.: *See*—Davenport, William G., 2,916,134.
- Beaumont, Warren L., and E. E. House, Jr., to Proctor Chemical Co., Inc. Condensation products, thermostat resinous materials, treated fabrics, and methods for production of such products. 2,884,301, 4-28-59, Cl. 8-116.2.
- Beaunit Mills, Inc.: *See*—Bley, Rudolph S., 2,908,961.  
Bley, Rudolph S., 2,910,761.
- Beauquesne, Raymond: *See*—Orelli, Daniel, and Beauquesne. 2,906,404.
- Beauregard, Lawrence G., to The Gillette Co. Hair curler. 2,906,273, 9-29-59, Cl. 132-7.
- Beauregard, Lawrence G., to The Gillette Co. Hair waving device. 2,906,275, 9-29-59, Cl. 132-41.
- Beauregard, Mildred A. Portable, foldable and rollable cabana. 2,882,913, 4-21-59, Cl. 135-5.
- Beaurline, Clyde F., to Hills McCanna Co. Air line lubricator. 2,913,234, 11-17-59, Cl. 261-78.
- Beautiful Bryans, Inc.: *See*—Cobert, Arthur J., 2,912,840.
- Beauty Counselors, Inc.: *See*—De Navarre, Maison G., 2,880,140.
- Beauty Products, Ltd.: *See*—Propst, Robert L., 2,877,519.
- Beauvais, Charles J. Adjustable slat supporting members for beds. 2,904,797, 9-22-59, Cl. 5-238.
- Beauvais, Max. Cooking apparatus for preserves in tins. 2,909,986, 10-27-59, Cl. 99-361.
- Beaver, David J., P. C. Hamm, and P. J. Stoffel, to Monsanto Chemical Co. 1-(chloraryl) 3-alkyl 3-alkynyl urea. 2,867,520, 1-6-59, Cl. 71-2.6.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Substituted ureas. 2,870,205, 1-20-59, Cl. 260-553.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. Diphenyl urea derivatives. 2,894,986, 7-14-59, Cl. 260-553.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. N-(Trimethyl-piperidyl) carboxanilides. 2,885,403, 5-5-59, Cl. 260-294.
- Beaver, David J., and P. J. Stoffel, to Monsanto Chemical Co. *o,o'*-bis(5-cumyl-2-hydroxyphenyl) mesitol. 2,897,242, 7-28-59, Cl. 260-619.
- Beaver, David J., and R. O. Zerbe, to Monsanto Chemical Co. 1,1-bis(2,5-dialkyl-4-hydroxyphenyl) ketones. 2,912,463, 11-10-59, Cl. 260-500.
- Beaver, David J., P. J. Stoffel, and P. C. Hamm, to Monsanto Chemical Co. Halogen substituted carboxanilides. 2,913,322, 11-17-59, Cl. 71-2.5.
- Beaver, David J., and R. O. Zerbe, to Monsanto Chemical Co. Dihydroxy diaryl alkenes. 2,919,294, 12-29-59, Cl. 260-619.
- Beaver Precision Products, Inc.: *See*—Sears, Richard E., 2,905,008.
- Beavon, David K., to The Texas Co. Treatment of residual asphaltic oils with light hydrocarbons. 2,875,149, 2-24-59, Cl. 208-79.
- Beavon, David K., to Texaco Inc. Apparatus for dispersing solids in gases in the catalytic treatment of hydrocarbon oils. 2,894,823, 7-14-59, Cl. 23-288.
- Beavon, David K., to Texaco Inc. Furfural solvent refining and recovery process. 2,895,908, 7-21-59, Cl. 208-327.
- Beavon, David K., to Texaco Inc. Petroleum refining process. 2,914,457, 11-24-59, Cl. 208-79.
- Beavon, David K., and F. H. Moore, to Texaco Inc. Two stage alkylation process. 2,906,797, 9-29-59, Cl. 260-683.61.
- Beazley, Thomas A., to BTR Industries Ltd. Flexible pipes. 2,908,295, 10-13-59, Cl. 138-50.
- Beber, Oral L.: *See*—Carr, Norman L., Brozowski, and Beber. 2,918,510.
- Bebinger, Jack E.: *See*—Martiniak, Leonard J., and Bebinger. 2,867,224.
- Bebinger, Jack E., to General Electric Co. Waste disposal apparatus with spring clutch rotor drive. 2,877,955, 3-17-59, Cl. 241-32.5.
- Bechberger, Paul F., to Bendix Aviation Corp. Synchro null voltage system and method. 2,883,595, 4-21-59, Cl. 318-30.
- Becher, Elisabeth: *See*—Bernhauer, Konrad, Friedrich, Dellweg, and Becher. 2,893,988.
- Becher, Ernest F.: *See*—De Vries, Nicholas, and Becher. 2,917,105.
- Becher, Ernest F., De Vries, Nicholas, and Becher. 2,880,784.
- Becher, Heinrich. Apparatus for dispensing liquid or semi-liquid substances. 2,906,300, 9-29-59, Cl. 141-30.
- Becher, James J., to Roll-Flex Industries, Inc. Roller pump. 2,899,904, 8-18-59, Cl. 103-149.
- Becher, James J., to Roll-Flex Industries, Inc. Roller pump. 2,899,905, 8-18-59, Cl. 103-149.
- Becher, James J., to Roll-Flex Industries, Inc. Roller pump. 2,899,907, 8-18-59, Cl. 103-149.
- Becher, James J., and V. R. Norris, to Roll-Flex Industries, Inc. Roller pumps. 2,899,906, 8-18-59, Cl. 103-149.
- Becherer, Hans K., to North American Philips Co., Inc. Semi-conductive electrode system. 2,917,684, 12-15-59, Cl. 317-234.
- Bechik, Michael, to Bechik Products Inc. Mattress handle. 2,878,495, 3-24-59, Cl. 5-345.
- Bechik, Michael, to Bechik Products Inc. Mattress handle. 2,881,451, 4-14-59, Cl. 5-345.
- Bechik Products Inc.: *See*—Bechik, Michael. 2,878,495.  
Bechik, Michael. 2,881,451.
- Bechle, Rudolph P.: *See*—Potdevin, Adolph, and Bechle. 2,902,197.
- Bechler, André. Turret indexing mechanism for automatic lathe. 2,870,656, 1-27-59, Cl. 74-822.
- Bechler, André. Drilling and tapping attachment on automatic lathe. 2,913,807, 11-24-59, Cl. 29-41.
- Bechley, Fred L., to Radio Corp. of America. Generator of color images from monochrome television signals. 2,874,212, 2-17-59, Cl. 178-5.4.



- Bechtel, Alfred R., Jr., to Ashworth Bros. Inc. Flat wire conveyor belt. 2,872,023, 2-3-59, Cl. 198-182.
- Bechtel, John, to J. E. Coshman. Geometrical instrument. 2,909,843, 10-27-59, Cl. 33-174.
- Bechter, Hermann. Tensioning roller for weaving looms. 2,884,015, 4-28-59, Cl. 139-291.
- Bechtler, Hans C., to Rodney Hunt Machine Co. Evaporator. 2,868,279, 1-13-59, Cl. 159-6.
- Bechtold, James H.: *See*—  
Losco, Ezekiel F., Bechtold, and Webb. 2,874,453.
- Bechtold, Max F., to E. I. du Pont de Nemours and Co. Fe-Si-Ti composition or product and process of preparing same. 2,878,113, 3-17-59, Cl. 75-5.
- Bechtold, Paul E. Window structure. 2,875,710, 3-3-59, Cl. 108-16.
- Béchu, Xavier, to L'Aluminium Français. Composition comprising metallic shot and synthetic resinous binder. 2,868,759, 1-13-59, Cl. 260-41.
- Beck, Arnold H. W., and T. M. Jackson, to International Standard Electric Corp. Electric discharge tubes. 2,872,620, 2-3-59, Cl. 315-84.
- Beck, Arnold H. W., T. M. Jackson, and J. Lytollis, to International Standard Electric Corp. Cold cathode electric discharge tubes. 2,898,502, 8-4-59, Cl. 313-192.
- Beck, Arnold H. W., A. B. Cutting, A. D. Brisbane, and G. King, to International Standard Electric Corp. Thermionic cathodes. 2,912,611, 11-10-59, Cl. 313-348.
- Beck, Arnold H. W., and G. F. de Mengel, to International Standard Electric Corp. Electron velocity modulation tubes. 2,918,599, 12-22-59, Cl. 315-541.
- Beck, Basil D., Sr., and A. B. Swain, to Owens-Illinois Glass Co. Glass melting furnace with bubbler patterns. 2,909,005, 10-20-59, Cl. 49-54.
- Beck, Carl E. Abrading head. 2,902,799, 9-8-59, Cl. 51-197.
- Beck, Chyrus L. and G. R. Door closer. 2,880,451, 4-7-59, Cl. 16-70.
- Beck, Curt B.: *See*—  
Edminster, James W., Beck, and Friauf. 2,917,370.
- Beck, Da Ruben L. Free locking wheel hub. 2,874,814, 2-24-59, Cl. 192-38.
- Beck, Derwood A., G. W. Goodrich, and K. W. Verge, to Bendix Aviation Corp. Fuel injection nozzle. 2,881,980, 4-14-59, Cl. 239-562.
- Beck, Eugene P., L. C. Jefferies, and R. G. Whitney, to United States Steel Corp. Pay-off reel. 2,887,283, 5-19-59, Cl. 242-128.
- Beck, Fred R.: *See*—  
Chapin, Howard R., and Beck. 2,905,782.  
Chapin, Howard R., and Beck. 2,919,319.
- Beck, Gasper P., to Personal Products Corp. Cleaning device. 2,908,930, 10-20-59, Cl. 15-210.
- Beck, George W., W. E. Sehn, and W. Ziffer, to General Motors Corp. Weatherstrip retaining clip. 2,902,732, 9-8-59, Cl. 20-69.
- Beck, Guy R.: *See*—  
Beck, Chyrus L. and G. R. 2,880,451.
- Beck, Henry E., to Massey-Ferguson Inc. Steering mechanism. 2,869,665, 1-20-59, Cl. 180-79.2.
- Beck, John T.: *See*—  
Winzen, Otto C., Baumgartner, and Beck. 2,900,149.
- Beck, John T., to Beck's, Inc. Printed electrical circuit components having integral lead-outs and methods of making same. 2,900,580, 8-18-59, Cl. 317-101.
- Beck, Julius S., to J. E. Hill. Directional window cutter for whinnocks. 2,882,015, 4-14-59, Cl. 255-16.
- Beck, Karl J. Letter opener. 2,888,745, 6-2-59, Cl. 30-291.
- Beck, Karl M., and N. Stormont; said Beck assor. to Abbott Laboratories. Brominated sesame oil. 2,893,869, 7-7-59, Cl. 99-28.
- Beck, Kenneth H., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,907,887, 10-6-59, Cl. 250-214.
- Beck, Kenneth H., to Minneapolis-Honeywell Regulator Co. Oscillator operating in either of two modes. 2,907,955, 10-6-59, Cl. 331-177.
- Beck, Lawrence J., to Hanover Associates, Inc. Portable commode. 2,893,017, 7-7-59, Cl. 4-135.
- Beck, Merrill G., to Lord Mfg. Co. Resilient mounting. 2,893,722, 7-7-59, Cl. 267-1.
- Beck, Morris B., and H. L. Williams. Hanger device for lamp fixtures. 2,907,545, 10-6-59, Cl. 248-343.
- Beck, Norman F. Apparatus for filling a casing with food products. 2,886,073, 5-12-59, Cl. 141-313.
- Beck, Paul W., to Sinclair Refining Co. Process for producing odorless hydrocarbon solvent from heavy alkylate. 2,883,338, 4-21-59, Cl. 208-285.
- Beck, Raymond C., to The Fuller Brush Co. Handle connection for a mop. 2,898,619, 8-11-59, Cl. 15-144.
- Beck, Robert H., to E. I. du Pont de Nemours and Co. Apparatus for coating and drying photographic layers. 2,898,882, 8-11-59, Cl. 118-50.
- Beck, Robert H., to E. I. du Pont de Nemours and Co. Extrusion apparatus and processes of extruding. 2,901,770, 9-1-59, Cl. 13-13.
- Beck, Robert N.: *See*—  
Hudson, Roland B., and Beck. 2,910,133.
- Beck, Roderick G.: *See*—  
Keller, Harold M., and Beck. 2,870,026.
- Beck, Ronald D. Ash retainer for cigars, cigarettes and the like. 2,890,705, 6-16-59, Cl. 131-174.
- Beck, Samuel J. Railway skate. 2,874,645, 2-24-59, Cl. 104-260.
- Beck, Walter, and H. J. Holuba, to Montgomery Elevator Co. Elevator control system. 2,880,821, 4-7-59, Cl. 187-29.
- Beck, Warren R.: *See*—  
Herr, Robert, and Beck. 2,898,229.  
Stradley, Norman H., and Beck. 2,870,030.
- Beck, William J., and D. F. Fazendin, to Minneapolis-Honeywell Regulator Co. Photographic slide clip. 2,895,247, 7-21-59, Cl. 40-152.
- Beckadolph, Richard: *See*—  
Niclas, Walter, and Beckadolph. 2,904,099.
- Becke, Friedrich, and H. Sperber, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of octachlor-di-propyl ether. 2,913,500, 11-17-59, Cl. 260-614.
- Becker, Adam: *See*—  
Smid, Martin T., and Becker. 2,910,756.
- Becker, Alfred, and M. Feurer, to Ciba Pharmaceutical Products Inc. Process and intermediate for isolating reserpine. 2,887,489, 5-19-59, Cl. 260-286.
- Becker, Aloysius; P. Benninghofen and F. B. Diesbach as trustees. Autographic register. 2,883,210, 4-21-59, Cl. 282-16.
- Becker, Anthony F., to American-Lincoln Corp. Floor cover removing machine having floating scraper. 2,906,514, 9-29-59, Cl. 262-8.
- Becker, Arthur: *See*—  
Kadlec, Ladislav, and Becker. 2,919,344.
- Becker, Arthur L., to General Motors Corp. Lubricating device. 2,891,634, 6-23-59, Cl. 184-1.
- Becker, August, and N. G. Kane. Centrifugal feed device. 2,896,412, 7-28-59, Cl. 60-54.5.
- Becker, Bernard J., Jr., and J. R. Duclos, to General Motors Corp. Connector assembly for a door handle. 2,869,912, 1-20-59, Cl. 292-336.3.
- Becker-Boost, Erich H.: *See*—  
Kaess, Franz, Kronacher, and Becker-Boost. 2,884,307.
- Becker, Charles H. Sponge rubber utility tool having detachable head. 2,910,714, 11-3-59, Cl. 15-244.
- Becker, Earl M., and J. J. Bridge, to Mine Safety Appliances Co. Gas dispensing apparatus. 2,895,640, 7-21-59, Cl. 222-3.
- Becker, Earl M., and J. J. Bridge, to Mine Safety Appliances Co. Pressure relief valve. 2,896,661, 7-28-59, Cl. 137-512.3.
- Becker, Edward J., H. M. Cleveland, P. R. Pondy, and H. J. Robinson, to Bell Telephone Laboratories, Inc. Method of making sintered cathodes. 2,914,402, 11-24-59, Cl. 75-207.
- Becker, Floyd K., to Bell Telephone Laboratories, Inc. Two-way television over telephone lines. 2,878,310, 3-17-59, Cl. 178-6.
- Becker, Floyd K., to Bell Telephone Laboratories, Inc. Two-way television over telephone lines. 2,909,600, 10-20-59, Cl. 178-6.8.
- Becker, George: *See*—  
Dobrin, Edward P., and Becker. 2,875,614.
- Becker, George D., to Nordberg Mfg. Co. Seals for gyratory crusher shafts. Re. 2,754, 12-15-59, Cl. 308-142.
- Becker, George D., to Nordberg Mfg. Co. Seals for gyratory crusher shafts. 2,878,082, 3-17-59, Cl. 308-142.
- Becker, Gottfried, K. Bungardt, and K. H. Lange, to Deutsche Edelstahlwerke Akt. Process for improving the physical properties of chromized articles. 2,875,112, 2-24-59, Cl. 148-21.55.
- Becker, Gotthold: *See*—  
Muller, Wilhelm, Kornfeld, and Becker. 2,891,294.
- Becker, Hans. Lathes. 2,900,859, 8-25-59, Cl. 82-19.
- Becker, Harry C.: *See*—  
Dilworth, John P., Uhrig, and Becker. 2,877,181.
- Becker, Helmut, to Hüttenwerk Oberhausen A.G. Apparatus for the analysis of hot, dust-laden gases. 2,901,626, 8-25-59, Cl. 250-43.5.
- Becker, Henry. Uniform pressure hand stamp. 2,900,902, 8-25-59, Cl. 101-368.
- Becker, Herbert D.: *See*—  
Wall, Marion P., and Becker. 2,876,925.
- Becker, John, and C. E. McCormack, to E. I. du Pont de Nemours and Co. Vulcanizable elastomer pellet and process of forming unseparated extrudate. 2,906,740, 9-29-59, Cl. 260-79.5.
- Becker, Josef, K. E. Scheer, and H. Egelhaaf, to Buchler & Co. Radiation applicator. 2,917,041, 12-15-59, Cl. 128-1.2.
- Becker, Joseph H.: *See*—  
Heckmann, Wolfgang G. J., Becker, and Steven. 2,907,465.
- Becker, Karl: *See*—  
Schedl, Karl, and Becker. 2,911,072.
- Becker, Lyman. Flush valve control for plumbing fixtures. 2,894,580, 7-14-59, Cl. 161-7.
- Becker, Myron, J. J. Giammaria, and E. A. Oberright, to Socony Mobil Oil Co., Inc. Anti-stall gasoline. 2,902,353, 9-1-59, Cl. 44-71.
- Becker, Nathan, to Birmingham Industries, Inc. Shutter structure. 2,867,011, 1-6-59, Cl. 20-58.
- Becker, Nathan, to Small Business Administration. Shutter structure. 2,878,536, 3-24-59, Cl. 20-58.
- Becker, Nathan, to Small Business Administration. Awning structure. 2,900,681, 8-25-59, Cl. 20-57.5.
- Becker, Nathan, to Seaview Industries, Inc. Metallic awning structure. 2,900,682, 8-25-59, Cl. 20-57.5.
- Becker, Otto A. Selectively power-operated drawer structure. 2,873,159, 2-10-59, Cl. 312-223.



- Becker, Philip D., to United-Carr Fastener Corp. Plug button assembly. 2,871,591, 2-3-59, Cl. 40-20.
- Becker, Philip D. Fastener. 2,879,570, 3-31-59, Cl. 24-73.
- Becker, Philip D., to United-Carr Fastener Corp. Fastening device. 2,898,654, 8-11-59, Cl. 24-81.
- Becker, Philip D., to United-Carr Fastener Corp. Fastening device. 2,912,734, 11-17-59, Cl. 24-73.
- Becker, Philip D., to United-Carr Fastener Corp. Piercing fastener with deformable head and expanding legs. 2,913,952, 11-24-59, Cl. 85-38.
- Becker, Philip J., Jr. Cutter pin applying and removing tool. 2,884,690, 5-5-59, Cl. 29-247.
- Becker, Philip S. Valve. 2,918,906, 12-29-59, Cl. 121-46.5.
- Becker, Philippe, to Societe Anonyme dite: Societe de Mecanographie Japy, and Societe Anonyme dite: Ateliers Boriguand & Marre. Device for electrically interconnecting business machines. 2,906,387, 9-29-59, Cl. 197-5.
- Becker, Richard O.: *See*—  
Miller, Verle A., and Becker. 2,876,203.
- Becker, Robert E., to Logansport Machine Co., Inc. Air pressure regulating unit. 2,887,123, 5-19-59, Cl. 137-505.11.
- Becker, Robert E., to Logansport Machine Co., Inc. Vacuum control valve. 2,914,034, 11-24-59, Cl. 121-46.5.
- Becker, Robert K., to American Potash & Chemical Corp. Vacuum packing gland for high speed stirring. 2,901,295, 8-25-59, Cl. 308-36.1.
- Becker, Stephen P., and H. R. Wengen, to Fargo Mfg. Co., Inc. Strand connector. 2,884,478, 4-28-59, Cl. 174-94.
- Becker, Stephen P., H. R. Wengen, and E. H. Terhune, to Fargo Mfg. Co., Inc. Coupling. 2,903,284, 9-8-59, Cl. 287-75.
- Becker, Walter A., to Old Dominion Box Co., Inc. Dispensing carton for rolled material. 2,890,821, 6-16-59, Cl. 225-43.
- Becker, Wilhelm: *See*—  
Bartl, Herbert, and Becker. 2,892,004.  
Graulich, Wilhelm, Becker, and Bayer. 2,908,658.  
Kolb, Günter, and Becker. 2,891,039.
- Becker, Wilhelm, and D. Steuer, to Farbenfabriken Bayer Akt. Artificial dentures and process of preparing. 2,874,467, 2-24-59, Cl. 32-2.
- Becker, Willi. Molecular pump. 2,918,208, 12-22-59, Cl. 230-118.
- Beckers, Albert E.: *See*—  
Burns, Joseph, and Beckers. 2,896,106.
- Beckers, Hans, to W. Reiners. Hopper-type feeder for bobbin cores. 2,891,697, 6-23-59, Cl. 221-156.
- Beckers, Norman L., to Diamond Alkali Co. Chemical method and composition. 2,903,488, 9-8-59, Cl. 260-652.5.
- Beckett, Donald E., and W. N., to Beckett-Harcum Co. Spool valve. 2,869,583, 1-20-59, Cl. 137-625.42.
- Beckett, Donald E. and W. N., to Beckett-Harcum Co. Manifold mounted valve. 2,879,788, 3-31-59, Cl. 137-454.6.
- Beckett, Donald E. and W. N., to Beckett-Harcum Co. Valve spool. 2,908,292, 10-13-59, Cl. 137-622.
- Beckett, Donald E. Night crawler harness. 2,911,753, 11-10-59, Cl. 43-43.2.
- Beckett-Harcum Co.: *See*—  
Beckett, Donald E., and W. N. 2,869,583.  
Beckett, Donald E. and W. N. 2,879,788.  
Beckett, Donald E. and W. N. 2,908,292.
- Beckett, John S., to Aseptic Thermo Indicator Co. Compensating timer. 2,898,533, 8-4-59, Cl. 318-171.
- Beckett, Joseph E., to Ram Jet Wind Inc. Orchard fan driven by ram-jet engines. 2,895,259, 7-21-59, Cl. 47-2.
- Beckett, Leo G., and R. E. Tobey, to Whirlpool Corp. Household refrigerators of the cycle defrosting type. 2,881,601, 4-14-59, Cl. 62-287.
- Beckett, Reginald W. Pressure atomizing liquid fuel burner with air stream centering ring. 2,900,019, 8-18-59, Cl. 158-76.
- Beckett, William N.: *See*—  
Beckett, Donald E., and W. N. 2,869,583.  
Beckett, Donald E. and W. N. 2,879,788.  
Beckett, Donald E. and W. N. 2,908,292.
- Becking, Donald H., R. J. Clauss, and H. Brown, to The Udylite Research Corp. Electrodeposition of nickel. 2,882,208, 4-14-59, Cl. 204-49.
- Beckley, Benton. Method of making molded shell trailer bodies. 2,883,233, 4-21-59, Cl. 296-28.
- Beckman Instruments, Inc.: *See*—  
Åkerman, Karl A. L., and Sundström. 2,868,060.  
Boff, Albert F. 2,914,670.  
Carle, Don W., and Van Wormer. 2,916,057.  
Clement, John A. 2,875,307.  
Corl, John L., and Gordon. 2,900,601.  
Durrum, Emmett L., and Pickels. 2,879,217.  
Greene, Malbone W., and Thayer. 2,882,719.  
Hare, George H., and Margetts. 2,896,083.  
Liston, Max D. 2,875,340.  
Marason, Gabriel, Jr. 2,887,555.  
Molloy, Everett W. 2,885,926.  
Noyce, Robert N. 2,869,055.  
Pickels, Edward G., and Oates. 2,885,188.  
Pickels, Edward G., Stallman, and Scofield. 2,878,992.  
Rohrer, David A. 2,916,646.  
Schendel, Herbert M. 2,914,744.  
Schrotzberger, Edward T. 2,910,598.  
Spracklen, Stanford B. 2,899,258.  
Taylor, Daniel D. 2,883,118.  
Taylor, Daniel D. 2,918,871.  
Thayer, Louis C. 2,883,857.
- Beckman Instruments, Inc.: *See*—Continued  
Thayer, Louis C. 2,892,976.  
Thayer, Louis C., and Czuha. 2,901,327.  
Thayer, Louis C., and Gerene. 2,902,639.  
Tipotsch, Donald G. 2,911,532.  
Toomim, Hershel, and Hare. 2,903,523.  
Williams, Fred G., Jr. 2,868,020.
- Beckman & Whitley, Inc.: *See*—  
Whitley, Ernest M., and Greer. 2,877,780.
- Becknell, Raleigh, to The Conway Clutch Co. Friction clutches. 2,913,082, 11-17-59, Cl. 192-56.
- Beckner, Donald O., and T. E. Mercier, to Simonds Saw and Steel Co. Process for file making. 2,897,692, 8-4-59, Cl. 76-24.
- Beckner, Elias W. Boat trailer. 2,910,197, 10-27-59, Cl. 214-84.
- Beckner, Marshall H., to Wire-Tex Corp. Storage racks. 2,897,978, 8-4-59, Cl. 211-148.
- Beckner, Marshall H., to Tri-State Engineering Co. Container for use with fork lift trucks. 2,898,122, 8-4-59, Cl. 280-12.
- Beck's, Inc.: *See*—  
Beck, John T. 2,900,580.
- Beckstett, Rupert F., to The Astrup Co. Lateral awning arm bracket with horizontal adjustment. 2,880,956, 4-7-59, Cl. 248-273.
- Beckvold, Oscar E., Jr., and P. F. Hartman, to United States Rubber Co. Battery separators. 2,872,497, 2-3-59, Cl. 136-146.
- Beckwith-Arden Inc.: *See*—  
Beckwith, Edwin L., and MacIver. 2,917,840.
- Beckwith, Edwin L., and C. P. MacIver, to Beckwith-Arden Inc. Heel and base assembly. 2,917,840, 12-22-59, Cl. 36-35.
- Beckwith, John R., to Raytheon Mfg. Co. Electrical resistor. 2,867,705, 1-6-59, Cl. 201-55.
- Beckwith, Robert W., to General Electric Co. Method and apparatus for transmission of intelligence. 2,871,463, 1-27-59, Cl. 340-171.
- Beckwith, Sterling, to Constock Liquid Methane Corp. Method and apparatus for controlling atmospheric conditions during installation. 2,873,778, 2-17-59, Cl. 144-309.
- Beckwith, Sterling, to Constock Liquid Methane Corp. Method and apparatus for unloading cold low temperature boiling liquids from storage reservoir. 2,897,658, 8-4-59, Cl. 62-55.
- Beckwith, Wendell K., to The Parker Pen Co. Injection molding die and nozzle combination for forming sprue-free articles. 2,904,839, 9-22-59, Cl. 18-30.
- Beckwith, Wendell K., to The Parker Pen Co. Method and apparatus for forming spheres. 2,911,669, 11-10-59, Cl. 18-1.
- Beckwith, Wendell K., to The Parker Pen Co. Writing instrument. 2,911,949, 11-10-59, Cl. 120-42.4.
- Becraft, Charles E. Child's playground ride. 2,908,498, 10-13-59, Cl. 272-1.
- Becroft, James O. Measuring device for pipes. 2,899,750, 8-18-59, Cl. 33-75.
- Becton, Dickinson and Co.: *See*—  
Adams, John Q. 2,880,723.  
Bednarz, Edward W. 2,894,509.  
Buck, James R. 2,893,395.  
De Venezia, Edward J. 2,882,901.  
Dickinson, Fairleigh S., Jr. 2,880,722.  
Kendall, Charles O. 2,880,725.  
Kendall, Charles O. 2,887,105.
- Bedco International Ltd.: *See*—  
Tegerdine, George E. 2,887,864.
- Bedderman, Morris, S. Vogler, and H. H. Hyman, to United States of America, Atomic Energy Commission. Separation of ruthenium from aqueous solutions. 2,894,818, 7-14-59, Cl. 23-140.
- Beddow, Raymond R. Removable filter device for funnels. 2,907,466, 10-6-59, Cl. 210-457.
- Bede, James A. Accumulator. 2,896,862, 7-28-59, Cl. 239-332.
- Bedell, Berkley W. Treatment of nylon filaments. 2,889,611, 6-9-59, Cl. 28-76.
- Bedell, Eugene J. Method and apparatus for making mosaic tiles or the like. 2,907,129, 10-6-59, Cl. 41-1.
- Bedenk, William T., to The Procter & Gamble Co. Chocolate-containing culinary mixes. 2,874,052, 2-17-59, Cl. 99-94.
- Bedenk, William T., and J. W. Phenix, to The Procter & Gamble Co. Method of making a culinary mix and the resulting product. 2,874,051, 2-17-59, Cl. 99-94.
- Beder, Salimi N. Maternity girdle. 2,896,634, 7-28-59, Cl. 128-558.
- Bedford, Burnice D., and R. W. Kuenning, to General Electric Co. Mechanical rectifier current and voltage control. 2,889,511, 6-2-59, Cl. 321-48.
- Bedford Gear & Machine Products, Inc.: *See*—  
Etchell, Howard L. 2,869,884.
- Bedford, Howard E., to The Pyrene Co. Ltd. Smoke-detecting and fire-extinguishing apparatus. 2,871,951, 2-3-59, Cl. 169-5.
- Bedford, William A., Jr. Fastening device. 2,872,139, 2-3-59, Cl. 248-27.
- Bedford, William A., Jr., to United-Carr Fastener Corp. Fastening device. 2,898,653, 8-11-59, Cl. 24-73.
- Bedingfield, William F. Tire bead breaking tool. 2,872,970, 2-10-59, Cl. 157-117.
- Bedke, Leo L.: *See*—  
McCarty, Horace G., and Bedke. 2,880,004.



- Bedker, Leo W. Thread rolling. 2,875,649, 3-3-59, Cl. 76—107.
- Bednars, Charles, M. R. Smith, and G. W. Stanford, to The M. W. Kellogg Co. Hydrocarbon conversion system. 2,881,128, 4-7-59, Cl. 208—93.
- Bednars, Charles, G. W. Stanford, and J. L. Patton, to The M. W. Kellogg Co. Hydrocarbon desulfurization process. 2,890,165, 6-9-59, Cl. 208—89.
- Bednarski, Thaddeus E., to John Oster Mfg. Co. Electric motor driven knife sharpener. 2,898,709, 8-11-59, Cl. 51—102.
- Bednarsz, Edward W., to Becton, Dickinson and Co. Hypodermic syringe. 2,894,509, 7-14-59, Cl. 128—218.
- Bee, Ernest K.: *See*—  
Gray, John A., and Bee. 2,884,887.
- Beebe, Douglas N. Dog leash assembly. 2,889,807, 6-9-59, Cl. 119—109.
- Beebe, Harvey K. Rotatable sucker pipe suspension. 2,906,384, 9-29-59, Cl. 193—30.
- Beebe, John N., to United States of America, Navy. Velocity measuring apparatus. 2,871,460, 1-27-59, Cl. 340—3.
- Beebe, Kenneth H., R. W. Carr, and J. F. Wilson, Jr. Drafting instrument. 2,874,474, 2-24-59, Cl. 33—76.
- Beebe, Paul, Jr., to The Goodyear Tire & Rubber Co. Bag loading device. 2,899,788, 8-18-59, Cl. 53—262.
- Beebee, Frederick L., and M. B. Mendelson, to The Deutsch Co. Electrical connector. 2,892,991, 6-30-59, Cl. 339—91.
- Beeber, Allan R. A., and D. S. Spechler, to Keuffel & Esser Co. Method of treating oriented polyethylene terephthalate film with an halogenated fatty acid. 2,893,896, 7-7-59, Cl. 117—118.
- Beech Aircraft Corp.: *See*—  
Foncannon, John L., and Adams. 2,868,092.  
Scott, Orin W. 2,911,050.
- Beech, Austin S., to Foundry Equipment Ltd. Foundry core making machines. 2,901,791, 9-1-59, Cl. 22—10.
- Beech, Austin S., and T. Spencer, to Foundry Equipment Ltd. Charging of hoppers. 2,879,905, 3-31-59, Cl. 214—17.
- Beecham Research Laboratories Ltd.: *See*—  
Doyle, Frank P., and Stove. 2,877,265.  
Queen, Alan. 2,918,476.
- Beecher, Donald J., to American Flexible Coupling Co. Seal assembly. 2,867,100, 1-6-59, Cl. 64—9.
- Beecher, Donald J., to American Flexible Coupling Co. Shaft coupling. 2,871,681, 2-3-59, Cl. 64—9.
- Beecher, Norman: *See*—  
Helier, Edward G., Beecher, and Raymond. 2,915,382.
- Beecroft, Robert J., and E. N. Fenton. Sound-propagating device. 2,871,971, 2-3-59, Cl. 181—31.
- Beede, Arnold H., to Electrolux Corp. Frame for garment bag. 2,876,054, 3-3-59, Cl. 312—3.
- Beede, Ray L., and H. H. Hopkins, Jr., to United States of America, Atomic Energy Commission. Method of preparing plutonium tetrafluoride. 2,913,307, 11-17-59, Cl. 23—14.5.
- Beeghly, Bert E., to Phillips Petroleum Co. Process and apparatus for controlling liquid pressure surge in a line. 2,910,079, 10-27-59, Cl. 137—14.
- Beegle, Francis M. Speed-maintaining device. 2,891,417, 6-23-59, Cl. 74—513.
- Beekman, Stewart M., to Reheis Co. Inc. Zirconyl and aluminum halohydroxy complex. 2,906,668, 9-29-59, Cl. 167—90.
- Beeman, Archie W., and C. D. New. Jaw operating means for power tongs. 2,879,680, 3-31-59, Cl. 81—53.
- Beemer, Paul K., to Preco Inc. Variable pitch pulley mechanism. 2,893,253, 7-7-59, Cl. 74—230.17.
- Beemer, Paul K., P. Z. Anderson, and H. W. Burney, to Preco Inc. Car icing machine. 2,903,864, 9-15-59, Cl. 62—321.
- Been, Jerome L., and M. M. Grover, to Rubber and Asbestos Corp. Brush. 2,878,503, 3-24-59, Cl. 15—193.
- Been, Jerome L., and M. M. Grover, to Rubber and Asbestos Corp. Adhesive compositions of polyepoxide resins and butadiene-acrylonitrile rubbers and method of making bristle brushes using same. 2,879,252, 3-24-59, Cl. 260—45.5.
- Beeninga, Dale E.: *See*—  
Martt, Ernest C., and Beeninga. 2,888,585.
- Beeninga, Dale E., and W. C. Matz, to General Electric Co. Reflector mercury lamp mount. 2,904,710, 9-15-59, Cl. 313—25.
- Beens, Hendrik J., to Pieter Schoen & Zoon N.V. Film applicator. 2,893,040, 7-7-59, Cl. 15—236.
- Beer, Albert C.: *See*—  
Willardson, Robert, and Beer. 2,889,492.
- Beerbower, Alan, and W. H. Gay, to Esso Research and Engineering Co. Method of preparing mixed-salt containing lubricants. 2,909,485, 10-20-59, Cl. 252—39.
- Beeren, Francisus H. J. Shoe polishing apparatus. 2,882,538, 4-21-59, Cl. 15—24.
- Beers, Clifford E.: *See*—  
Miller, Paul C., Beers, and Stoner. 2,905,642.
- Beers, George L., to Radio Corp. of America. Multiplex transmission. 2,874,213, 2-17-59, Cl. 178—5.6.
- Beers, Max I., and R. E. Davis, to Sperry Rand Corp. Automatic control system for aircraft. 2,888,219, 5-26-59, Cl. 244—77.
- Beesley, John H., to The General Electric Co. Ltd. Electrical gas discharge tube circuits. 2,869,035, 1-13-59, Cl. 315—84.5.
- Beesley, John H., to The General Electric Co. Ltd. Electrical gas discharge tube counting or distributing circuits. 2,900,571, 8-18-59, Cl. 315—84.5.
- Beesley, Scott L. Storing and dispensing apparatus. 2,901,118, 8-25-59, Cl. 211—49.
- Beeston, John T., Jr., to Frontier Development Co. Blade for rotary lawn mower. 2,869,311, 1-20-59, Cl. 56—295.
- Beeston, John T., Jr., to Frontier Development Co. Torque limiting magnetic coupling. 2,885,873, 5-12-59, Cl. 64—28.
- Beet, Frederick L.: *See*—  
Edge, Stanley H., and Beet. 2,878,646.
- Beets, James D., to The Beham Co. Sun visor. 2,917,186, 12-15-59, Cl. 211—97.
- Beets, Muus G. J., H. Van Essen, and W. Meerburg, to N. V. Polak & Schwarz's Essencfabrieken. 4-acyl-1,1-dimethyl-6-t-butyl indanes. 2,889,367, 6-2-59, Cl. 260—592.
- Begeman, Robert H., to United States of America, Navy. Frequency-stabilized pulse generator. 2,904,684, 9-15-59, Cl. 250—27.
- Beggs, James E., to General Electric Co. Method and apparatus for making vacuum enclosures. 2,868,610, 1-13-59, Cl. 316—19.
- Beggs, James E., to General Electric Co. Cathode structures. 2,875,367, 2-24-59, Cl. 313—340.
- Beggs, James E., to General Electric Co. Cathode structure. 2,892,120, 6-23-59, Cl. 313—343.
- Beggs, John C., to United Aircraft Corp. Valve means for controlling direction of flow in an aircraft air conditioning system. 2,884,845, 5-5-59, Cl. 98—1.5.
- Beggs, Louis C.: *See*—  
Grenier, Aime J., Beggs, and Mawney. 2,907,847.
- Begley, John W., to Phillips Petroleum Co. Conversion of hydrocarbons. 2,868,855, 1-13-59, Cl. 260—679.
- Begley, John W., to Phillips Petroleum Co. Polymerization catalyst feed control. 2,917,465, 12-15-59, Cl. 252—430.
- Bégue, René J. F. J. Garden implement. 2,887,337, 5-19-59, Cl. 294—55.
- Beham Co., The: *See*—  
Beets, James D. 2,917,186.
- Behles, Michael M.: *See*—  
Miller, Herbert J., Behles, and Clark. 2,904,366.
- Behling, Clarence R. Method and apparatus for product processing. 2,903,979, 9-15-59, Cl. 107—8.
- Behm, Carl M., and M. and S. Busbi. Roller skate wheel. 2,871,061, 1-27-59, Cl. 301—5.3.
- Behm, Harold J., and W. Hecox, to J. P. Hayden. Direction finder for automobile headlighting system. 2,878,396, 3-17-59, Cl. 250—233.
- Behn, Eugene A., to The Dow Chemical Co. Production of acetylenic diols. 2,871,273, 1-27-59, Cl. 260—635.
- Behnen, William B., to International Harvester Co. Planter. 2,871,805, 2-3-59, Cl. 111—77.
- Behnisch, Robert: *See*—  
Helfrich, Burkhardt, and Behnisch. 2,916,489.
- Behnke, Edward R.: *See*—  
Devonshire, William H., and Behnke. 2,887,213.  
Devonshire, William H., and Behnke. 2,895,290.
- Behnke, George W., and R. G. Westcott, to Simplicity Engineering Co. Washing and degreasing apparatus. 2,918,926, 12-29-59, Cl. 134—130.
- Behr, Eldon A., to Chapman Chemical Co. Wood preservative grease. 2,904,467, 9-15-59, Cl. 167—38.7.
- Behr, Frederick A., to North American Philips Co. Analysis of materials by X-rays. 2,890,344, 6-9-59, Cl. 250—53.
- Behr, Joseph L., to Vickers, Inc. Power transmission. 2,892,092, 6-23-59, Cl. 250—206.
- Behre, Johannes, and I. Williams, to J. M. Huber Corp. Vaporization process and furnace for producing fine inorganic pigments. 2,873,919, 2-17-59, Cl. 241—23.
- Behrend, William L., to Radio Corp. of America. Television test signal generator and method of use. 2,881,388, 4-7-59, Cl. 324—57.
- Behrendt, John G. Automobile hat rack. 2,916,149, 12-8-59, Cl. 211—31.
- Behrendt, Roy P. Alarm device. 2,886,804, 5-12-59, Cl. 340—227.
- Behrens, Heinz, and W. Mahfeldt; said Mahfeldt assor. to Friedrich Uhde, G.m.b.H. Apparatus for the vibrational treatment of material of a nature ranging from granular to pulverulent nature. 2,882,024, 4-14-59, Cl. 259—1.
- Behrens, Herbert C., and C. D. Graber, to Diebold, Inc. Elevator filing appliance. 2,912,118, 11-10-59, Cl. 211—121.
- Behrens, Hugh C.: *See*—  
Hart, Porter, and Behrens. 2,895,102.
- Behrens, Otto K., and P. W. Ensinger, to Eli Lilly and Co. Pertussis vaccine preparation. Re. 24,748, 12-15-59, Cl. 167—78.
- Behrens, William H. Sharpener for leads of pencils or the like. 2,914,030, 11-24-59, Cl. 120—96.
- Behring, Hans, to Kieler Howaldtswerke A.G. Fishing vessel. 2,898,695, 8-11-59, Cl. 43—8.
- Behrman, Elza. Flexible, extensible, and collapsible textile fabric tube. 2,897,603, 8-4-59, Cl. 34—99.
- Behrman, Marshall: *See*—  
Malcom, Glen, and Behrman. 2,885,898.
- Behrstock, Alfred, to L. Behrstock & Co. Press plate assembly. 2,910,791, 11-3-59, Cl. 38—66.
- Behrstock, L., & Co.: *See*—  
Behrstock, Alfred. 2,910,791.
- Beiderbecke, Charles H., to International Business Machines Corp. Carriage tension release mechanism. 2,872,011, 2-3-59, Cl. 197—62.
- Beier, Alice: *See*—  
Beier, Josef. 2,880,623.



- Beier, Alice, nee Siegenheim: *See*—  
Beier, Josef. 2,880,624.
- Beier, Hans H.: *See*—  
Beier, Josef. 2,880,623.  
Beier, Josef. 2,880,624.
- Beier, Josef, deceased, by H. H. A., and R. Beier, heirs. Variable friction gears. 2,880,623, 4-7-59, Cl. 74—190.5.
- Beier, Josef, deceased; A. Beier (nee Siegenheim), and H. H. and R. Beier, heirs. Friction drive. 2,880,624, 4-7-59, Cl. 74—199.
- Beier, Regine: *See*—  
Beier, Josef. 2,880,623.  
Beier, Josef. 2,880,624.
- Beierle, Gottfried H. Self adjusting trousers hanger. 2,868,425, 1-13-59, Cl. 223—95.
- Beig, Willy: *See*—  
Straub, Hermann, Beig, Maier, and Wiedmann. 2,889,530.
- Belgay, Jack M.: *See*—  
Zaremski, Donald R., and Belgay. 2,913,360.
- Beijnink, Willem: *See*—  
Douwes Dekker, Jan M., and Beijnink. 2,892,903.
- Beil, Richard L., H. A. Holmes, and A. J. Daniels, to Boeing Airplane Co. Slosh and vibration table. 2,877,644, 3-17-59, Cl. 73—71.6.
- Beiler, Jay M.: *See*—  
Brendel, Robert R., Beiler, and Martin. 2,910,403.  
Martin, Gustav J., and Beiler. 2,908,613.
- Beller, Jay M., R. R. Brendel, and G. J. Martin, to The National Drug Co. Muscle-relaxing tranquilizer compositions. 2,872,374, 2-3-59, Cl. 167—65.
- Beiler, Jay M., and G. J. Martin, to The National Drug Co. Dimethylamino-reserpine. 2,872,377, 2-3-59, Cl. 167—67.
- Beiler, Jay M., and G. J. Martin, to The National Drug Co. Analgesic compositions and method of inducing analgesia in animals therewith. 2,889,249, 6-2-59, Cl. 167—55.
- Beindorff, Arthur B., and H. D. De Witt, to The Chemstrand Corp. Polyester composition and process of making same. 2,878,201, 3-17-59, Cl. 260—30.4.
- Beinfest, Sidney, P. Adams, and H. Milus, to Berkeley Chemical Corp. Amino alkyl silicates. 2,885,419, 5-5-59, Cl. 260—448.8.
- Beiser, Elmer H., and R. G. Kramer, to General Time Corp. Electric clock mechanism. 2,877,345, 3-10-59, Cl. 250—20.
- Beishline, Allen W. Flight track recorder. 2,916,202, 12-8-59, Cl. 235—58.
- Beisner, Karl. Process and tool for perforating ingots. 2,893,277, 7-7-59, Cl. 78—9.
- Beiswanger, John P. G., and J. W. Burnard, to General Aniline & Film Corp. Synergistic corrosion inhibiting composition for gasoline (dimer acid-agent 3577 H). 2,883,277, 4-21-59, Cl. 44—66.
- Beitler, Eddie B.: *See*—  
Burgess, Louis. 2,869,990.  
Burgess, Louis. 2,897,057.  
Tour, Sam. 2,907,637.
- Beitscher, Herbert R.: *See*—  
Gales, Robert S., and Beitscher. 2,901,751.
- Beitz, Frank C. Rod finisher. 2,886,074, 5-12-59, Cl. 144—2.
- Bek, Heinrich, to Adolph Saurer Ltd. Injection nozzle including double check valve. 2,901,181, 8-25-59, Cl. 239—101.
- Bek, Norbert H. Resistance welding equipment. 2,883,516, 4-21-59, Cl. 219—89.
- Bekey, Andrew, to Genisico, Inc. Electric drive assembly. 2,896,143, 7-21-59, Cl. 318—197.
- Belamin, Michael: *See*—  
Rolf, Erich, and Belamin. 2,884,586.
- Belamin, Michael, to Siemens-Schuckertwerke A.G. Flux reversal circuit for rectifiers. 2,880,386, 3-31-59, Cl. 321—48.
- Belamin, Michael, to Siemens-Schuckertwerke A.G. Flux reversal circuit for rectifiers. 2,880,387, 3-31-59, Cl. 321—48.
- Belanger, Edgar E. Blind dowel extractor. 2,916,813, 12-15-59, Cl. 29—256.
- Belanger, William J., to Devoe & Reynolds Co., Inc. Poly-epoxide-polyalkylene glycol-anhydride compositions and processes for their preparation. 2,908,660, 10-13-59, Cl. 260—32.8.
- Belanger, William J., J. E. Masters, and D. D. Hicks, to Devoe & Reynolds Co., Inc. Modified epoxide resins. 2,906,664, 10-13-59, Cl. 260—42.
- Belar, Herbert: *See*—  
Olson, Harry F., and Belar. 2,918,667.
- Belasco, Irvin J., to E. I. du Pont de Nemours and Co. Ruminant feed composition containing an ammonium salt. 2,903,355, 9-8-59, Cl. 99—2.
- Belcher, David D. Paint roller cleaner. 2,895,154, 7-21-59, Cl. 15—121.3.
- Belcon Importing Co.: *See*—  
Masuyama, Isao. 2,912,948.
- Belden, Donald H., to Universal Oil Products Co. Isomerization of hexane. 2,905,736, 9-22-59, Cl. 260—683.68.
- Belden Mfg. Co.: *See*—  
Huth, Carl M. 2,902,536.  
Olson, Einar R. 2,880,698.
- Belden, Nadine. Interior automobile folding table. 2,868,600, 1-13-59, Cl. 311—92.
- Belek, Emil, H. A. Miloch, and H. G. Reimels, to Bell Telephone Laboratories, Inc. Mounting and connecting apparatus. 2,872,624, 2-3-59, Cl. 317—99.
- Belezos, Stratis G., to The Murray Co. of Texas, Inc. Speed-varying apparatus. 2,917,947, 12-22-59, Cl. 74—640.
- Belgioioso, Gaetano: *See*—  
Notarbartolo, Luigi, Ciceri, and Belgioioso. 2,918,347.
- Bellis, Adalard J. Reclining chair mechanism. 2,869,616, 1-20-59, Cl. 155—106.
- Bellis, Adalard J. Reclining chair. 2,917,106, 12-15-59, Cl. 155—106.
- Belk, Earl H. Automobile carpet. 2,909,234, 10-20-59, Cl. 180—90.6.
- Belk, Wilber C., and H. W. Grotewold, to Food Machinery and Chemical Corp. Apparatus for handling boxes. 2,883,078, 4-21-59, Cl. 214—306.
- Belk, Wilber C., and H. W. Grotewold, to Food Machinery and Chemical Corp. Box handling device. 2,901,136, 8-25-59, Cl. 214—314.
- Belk, Wilber C., and E. F. Frost, Jr., to Food Machinery and Chemical Corp. Concentrated beverage reconstitutor. 2,905,449, 9-22-59, Cl. 259—24.
- Belke, Ralph T. Fishing rigs. 2,897,622, 8-4-59, Cl. 43—7.
- Belkin, Harold M.: *See*—  
Thorne, Henry C., Jr., and Belkin. 2,877,173.
- Belkowski, Jerzy, and W. S. Hockey, to Massey-Ferguson Inc. Auxiliary threshing and conveying unit. 2,875,768, 3-3-59, Cl. 130—27.
- Bell Aircraft Corp.: *See*—  
Singelmann, Dietrich E., and Hall. 2,912,188.
- Bell, Alan: *See*—  
Kibler, Charles J., Bell, and Smith. 2,901,466.
- Bell, Alan, to Foster Wheeler Corp. Pressurized tube plate. 2,893,701, 7-7-59, Cl. 257—215.
- Bell, Alan, to Foster Wheeler Corp. Pressure safety device. 2,895,492, 7-21-59, Cl. 137—68.
- Bell, Alan and S. T. Shorthand practice materials. 2,883,767, 4-28-59, Cl. 35—35.
- Bell Aircraft Corp.: *See*—  
Smith, Stanley W., and Sperazz. 2,879,014.  
Wells, Harold E., and Strickler. 2,870,791.
- Bell, Bennett C. Headlight beam indicator. 2,914,701, 11-24-59, Cl. 315—82.
- Bell, Charles R., E. S. Wassel, and M. J. Shoelson, to United States of America, Navy. Cartridge ram link. 2,870,682, 1-27-59, Cl. 89—35.
- Bell, Charles S.: *See*—  
Van Winkle, John L., Bell, and Morris. 2,875,224.
- Bell, Clarence C.: *See*—  
Bell, Wallace R. and C. C. 2,907,333.
- Bell, Clifford J.: *See*—  
Seidel, Martin P., and Bell. 2,909,740.
- Bell, Clinton C. Shoe racks. 2,916,150, 12-8-59, Cl. 211—34.
- Bell Electric Co.: *See*—  
Bellek, Frank G. 2,867,345.
- Bell, Ernest P., to Parker Rust Proof Co. Method of coating metal surface with hexavalent chromium compound and polyacrylic acid. 2,902,390, 9-1-59, Cl. 117—132.
- Bell, Eugene K.: *See*—  
Coody, John L., Work, and Bell. 2,888,895.
- Bell, Francis J., and J. O. Stoddart, to The Allen Iron & Steel Co. Storage rack. 2,918,176, 12-22-59, Cl. 211—143.
- Bell, George W., to Northwestern Steel & Wire Co. Continuous method for conditioning wire. 2,913,354, 11-17-59, Cl. 117—49.
- Bell & Gossett Co.: *See*—  
Birkemeier, Henry P. 2,872,598.  
Carlson, Gilbert F. 2,898,931.  
Carlson, Gilbert F. 2,899,973.  
Fratt, Haraden. 2,873,412.  
Sykes, Robert E. 2,888,207.  
Sykes, Robert E. 2,894,528.  
Sykes, Robert E. 2,899,130.
- Bell, Harold J.: *See*—  
Todd, Charles P. 2,910,203.
- Bell, Harvey D. Billiard table meter. 2,891,618, 6-23-59, Cl. 161—12.
- Bell, Henry G., to Adams-Millis Corp. Elastic support for stocking. 2,918,679, 12-29-59, Cl. 2—240.
- Bell, Henry S.: *See*—  
Diehl, William L., and Bell. 2,875,096.
- Bell & Howell Co.: *See*—  
Badalich, Frank C. 2,871,760.  
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- Bell, Ian C. M., to Imperial Chemical Industries Ltd. Soldering. 2,885,530, 5-5-59, Cl. 219—85.
- Bell, James W.: *See*—  
Oppenheimer, Frank, and Bell. 2,874,295.
- Bell, John, to Muirhead & Co. Ltd. Control apparatus for the stabilization of ships. 2,901,996, 9-1-59, Cl. 114—122.
- Bell, John, and E. W. Tucker, to Muirhead & Co. Ltd. Photograph or facsimile receivers. 2,908,540, 10-13-59, Cl. 346—74.
- Bell, John B., Jr., V. A. Currier, and J. D. Malkemus, to Jefferson Chemical Co., Inc. Method for preparing glycerin carbonate. 2,915,529, 12-1-59, Cl. 260—340.2.
- Bell, John B., Jr., and V. A. Currier, to Jefferson Chemical Co., Inc. Method for preparing alkylene glycol dicarbamates. 2,915,550, 12-1-59, Cl. 260—482.
- Bell, John F., to Zenith Radio Corp. Ultra high frequency channel strip for turret tuner, including tunable elements. 2,908,814, 10-13-59, Cl. 250—20.



- Bell, John M., to Panellit, Inc. Calibrating circuit for current measuring systems. 2,874,354, 2-17-59, Cl. 324-130.
- Bell, John S., to United States of America, Atomic Energy Commission. Ion accelerator. 2,904,720, 9-15-59, Cl. 315-534.
- Bell, John W., Jr. Apparatus for processing tobacco. 2,896,797, 7-28-59, Cl. 214-5.5.
- Bell, Joseph L., and R. Meinke, to Sears, Roebuck and Co. Lamp. 2,901,596, 8-25-59, Cl. 240-81.
- Bell, Keith L.,  $\frac{1}{2}$  to J. Atkins,  $\frac{1}{2}$  to B. P. Fishburne, Jr., and  $\frac{1}{2}$  to R. C. Sullivan. Solar powered toy boat. 2,881,558, 4-14-59, Cl. 46-95.
- Bell, Kenneth: *See—*  
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- Bell, Leo A., and E. H. Helm, to The Dia-Log Tubular Survey Co. Method of recovering drill pipe from wells. 2,905,437, 9-22-59, Cl. 255-1.8.
- Bell, Leo R., and R. L. Holloway, to American Machine & Foundry Co. Self-leveling, storing and dispensing apparatus. 2,896,790, 7-28-59, Cl. 211-49.
- Bell, Leo R., and G. Panuline, to American Machine & Foundry Co. High speed wrapping machine. 2,918,772, 12-29-59, Cl. 53-228.
- Bell, Locklin S.: *See—*  
Zunick, Michael J., and Bell. 2,909,664.
- Bell, Locklin S., to General Electric Co. X-ray tube. 2,885,582, 5-5-59, Cl. 313-55.
- Bell, Mildred. Foundation garment. 2,879,771, 3-31-59, Cl. 128-524.
- Bell, Norton W., to Bell Telephone Laboratories, Inc. Gain regulator for carrier systems. 2,867,774, 1-6-59, Cl. 333-16.
- Bell, Norton W., to Consolidated Electrodynamics Corp. Digital-to-analog converter. 2,892,147, 6-23-59, Cl. 323-79.
- Bell, Norton W., to Consolidated Electrodynamics Corp. Floating power supply circuit. 2,895,059, 7-14-59, Cl. 307-105.
- Bell, Norton W., to Consolidated Electrodynamics Corp. Ring counter. 2,914,710, 11-24-59, Cl. 317-140.
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- Bell, Persa R., and C. C. Harris, to United States of America, Atomic Energy Commission. Structure for sub-assemblies of electronic equipment. 2,880,262, 3-31-59, Cl. 174-50.
- Bell Punch Co. Ltd.: *See—*  
Webb, Christopher F. 2,896,747.
- Bell, Ralph E., to Kirsch Co. Traverse rod support. 2,913,212, 11-17-59, Cl. 243-262.
- Bell, Ralph E., and L. D. Ford, to Kirsch Co. Drapery traverse rod structure. 2,889,573, 6-9-59, Cl. 16-94.
- Bell, Richard S.: *See—*  
Outterson, Charles R., Bell, and Ellerson. 2,878,119.
- Bell, Richmond T., to The Pure Oil Co. Preparation of catalysts for methanethiol synthesis. 2,874,129, 2-17-59, Cl. 252-454.
- Bell, Robert E., to Toledo Scale Corp. Universal weight cut-off device. 2,918,246, 12-22-59, Cl. 249-14.
- Bell, Robert E., and C. S. Simonds, to Toledo Scale Corp. Electronic counter readout device. 2,889,546, 6-2-59, Cl. 340-316.
- Bell, Roy L. Header support mechanism for harvesters. 2,904,949, 9-22-59, Cl. 56-209.
- Bell, Ruth A. Scrapers, spatulas, and the like. 2,901,762, 9-1-59, Cl. 15-245.
- Bell, Stanley T.: *See—*  
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- Bell Telephone Laboratories, Inc.: *See—*  
Abbott, George F., Jr. 2,892,895.
- Abbott, George F., Jr., Krom, Mehring, and Whitney. 2,894,072.
- Allison, Sewell W. 2,868,886.
- Andersen, Johan R. 2,902,879.
- Anderson, John R. 2,874,214.
- Anderson, John R. 2,876,435.
- Anderson, John R. 2,876,436.
- Anderson, John R. 2,905,928.
- Anderson, John R. 2,907,984.
- Anderson, John R. 2,914,748.
- Anderson, John R., and Remeika. 2,893,107.
- Anderson, Orson L. 2,888,316.
- Ashenhurst, Robert L., and Minnick. 2,912,677.
- Ashkin, Arthur, and Walker. 2,871,451.
- Atalla, Martin M., Scheibner, and Tannenbaum. 2,899,344.
- Ault, Cyrus F. 2,904,721.
- Babcock, Wallace C. 2,869,122.
- Bachelet, Albert E., Dorff, and Mitchell. 2,896,072.
- Bachelet, Albert E., and Entz. 2,906,996.
- Bachelet, Albert E., Haas, and Newell. 2,919,307.
- Bacon, Donald D., Scaff, and Theuerer. 2,871,111.
- Bacon, Walter M., Branson, Kandel, and Locke. 2,871,286.
- Bacon, Walter M., and Ostendorf. 2,897,268.
- Bangert, John T. 2,910,241.
- Bartram, James F., and Evans. 2,913,622.
- Becker, Edward J., Cleveland, Pandy, and Robinson. 2,914,402.
- Becker, Floyd K. 2,878,310.
- Becker, Floyd K. 2,909,600.
- Belek, Emil, Miloche, and Reimels. 2,872,624.
- Bell Telephone Laboratories, Inc.: *See—Continued*  
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- Bellows, Brian C., Jr. 2,896,176.
- Bender, Henry P. 2,879,493.
- Biondi, Frank J., Cleveland, and Sullivan. 2,874,341.
- Bjornson, Bjorn G., and Bruce. 2,876,285.
- Blair, Royer R., and Harris. 2,887,542.
- Blecher, Franklin H. 2,909,623.
- Blount, Frank E., and Krom. 2,894,073.
- Bogert, Bruce P. 2,908,873.
- Bogert, Bruce P., and Kock. 2,890,285.
- Bonorden, Allen R. 2,912,679.
- Bostwick, Lee G., and Guncelle. 2,877,319.
- Bowers, Fritz K. 2,897,275.
- Bownik, Nicholas J., Jr. 2,912,602.
- Boyle, Willard S. 2,905,820.
- Boyle, Willard S., and Ketchledge. 2,884,565.
- Bozorth, Richard M. 2,906,979.
- Brady, George W., and Flaschen. 2,916,681.
- Braga, Felix J. 2,886,634.
- Brattain, Walter H., and Garrett. 2,870,344.
- Bredehoff, Harold A. 2,892,187.
- Breen, Charles. 2,884,491.
- Brolin, Stephen J. 2,906,941.
- Brooks, Chester E., Fleckenstein, Lee, and Seckler. 2,876,288.
- Buck, Thomas M., and McKim. 2,916,407.
- Buhrendorf, Frederick G. 2,882,518.
- Buhrendorf, Frederick G. 2,909,257.
- Burns, Fred P. 2,905,771.
- Burton, Everett T., Robinson, and Younker. 2,917,583.
- Busch, Kenneth J. 2,898,482.
- Cagle, William B. 2,915,649.
- Cagle, William B., and Ulrich. 2,873,389.
- Callaway, William B. 2,876,282.
- Callaway, William B., and Deltuvia. 2,909,608.
- Carbrey, Robert L. 2,889,409.
- Carbrey, Robert L. 2,907,829.
- Carbrey, Robert L. 2,917,784.
- Carmichael, Robert L. 2,889,510.
- Caroselli, Frank. 2,910,659.
- Carter, Herman T., and Kelnhofer. 2,883,457.
- Celentano, Arnold J. 2,868,880.
- Cesareo, Orfeo. 2,894,071.
- Cesareo, Orfeo, and Shafer. 2,919,439.
- Chase, Fay H. 2,873,372.
- Chase, Fay H. 2,904,742.
- Chase, Fay H. 2,917,700.
- Chroney, Michael. 2,871,398.
- Cioffi, Paul P. 2,871,395.
- Clogston, Albert M. 2,892,161.
- Cook, John S. 2,885,593.
- Cooper, Howard G., Jr., and Hines. 2,884,559.
- Costa, Joseph F. 2,906,998.
- Cox, Leslie R. 2,874,220.
- Crawford, Robert V. 2,904,674.
- Crawford, Robert V., and Henneberg. 2,879,460.
- Cronburg, Claude I. L., Jr., and Yeutter. 2,870,271.
- Crowe, William J. 2,894,216.
- Crowley, Thomas H. 2,916,553.
- Cutler, Cassius C. 2,905,858.
- Cutler, Cassius C. 2,906,914.
- Cutler, Cassius C. 2,912,695.
- Dagnall, Clarence H., Jr., and Miller. 2,912,504.
- D'Altroy, Frederick A., and Pandy. 2,913,077.
- Darlington, Sidney, and Felker. 2,885,494.
- Davey, James R. 2,912,582.
- Davey, James R., and Rea. 2,914,612.
- Davis, James L., and Rowen. 2,909,738.
- D'Heedene, Albert R. 2,885,492.
- De Lange, Owen E. 2,868,965.
- De Lange, Owen E. 2,912,581.
- De Lange, Owen E. 2,914,671.
- De Motte, Frank E., Denton, and Hoffman. 2,897,489.
- Derick, Lincoln, and Frosch. 2,873,222.
- Dermond, Franklin, and Nickerson. 2,883,476.
- Dickinson, Frank R. 2,871,283.
- Dimond, Thomas L. 2,919,428.
- Doherty, William H. 2,886,628.
- Doherty, William H., and Platow. 2,879,183.
- Dubuar, Arthur S. 2,899,503.
- Dunlap, Kermit S. 2,875,279.
- Early, James M. 2,912,371.
- Ebers, Jewell J., and Miller. 2,915,647.
- Edson, James O., and Feldman. 2,906,955.
- Edson, James O., and Feldman. 2,906,955.
- Evans, James B., Jr. 2,878,317.
- Feder, Herbert S. 2,882,505.
- Feder, Herbert S. 2,896,090.
- Feiner, Alexander. 2,892,037.
- Felder, Harry H. 2,885,493.
- Felker, Jean H. 2,885,572.
- Fisher, Joseph R., and Risterink. 2,883,347.
- Fleckenstein, William O. 2,916,557.
- Fleckenstein, William O., Kretzmer, and Michel. 2,909,601.
- Flint, Erlon W. 2,905,934.
- Follingstad, Henry G. 2,869,028.
- Fox, Arthur G. 2,875,416.
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- Fox, Arthur G. 2,891,224.



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 Franz, Erwin E. 2,810,424.  
 Fredericks, George W. 2,917,730.  
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 Fthenakis, Emanuel. 2,909,720.  
 Fuller, Calvin S., and Pearson. 2,896,128.  
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 Gianola, Umberto F., and Wallace. 2,876,419.  
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 Glore, Robert F., Hovgaard, and Perreault. 2,889,424.  
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 Goehner, William R. 2,872,195.  
 Goldschmidt, Karl. 2,883,468.  
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 Goodale, Walter D., Jr., and Pferd. 2,883,463.  
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 Goodall, William M. 2,914,249.  
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 Gooderham, John W., Jacobitti, Myers, Shipley, and Strickler. 2,868,884.  
 Graef, Robert P. 2,909,620.  
 Graham, Robert E. 2,905,756.  
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 Guenther, Richard. 2,870,260.  
 Gustafson, Walter G., and Harrison. 2,911,500.  
 Ham, James H., Jr. 2,893,001.  
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 Harris, James R. 2,906,894.  
 Harry, William R. 2,867,788.  
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 Hawkins, Walter L., Lanza, and Winslow. 2,889,306.  
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 Hermance, Harold W. 2,877,479.  
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 Hoesterey, Donald C. 2,898,477.  
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 Hussey, Luther W. 2,876,366.  
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 Iwerks, Marvin C. 2,873,405.  
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 Jenkins, Reginald T. 2,889,550.  
 Jensen, Alan K. 2,909,678.  
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 Johannesen, John D., Myers, and Schwenker. 2,899,570.  
 Kalin, Walter, and Lavery. 2,886,809.  
 Karp, Arthur, and Yocom. 2,882,438.  
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 Kircher, Raymond J. 2,899,569.  
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 Klie, Robert H. 2,916,708.  
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 Koenig, Walter, Jr. 2,895,088.  
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 Kompfner, Rudolf. 2,867,744.  
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 Krantz, Hubert K. 2,882,514.  
 Kretzmer, Ernest R. 2,871,376.  
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 Kronacher, Gerald. 2,894,256.  
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 Linvill, John G. 2,894,217.  
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 MacWilliams, Walter H., Jr., and Winans. 2,870,327.  
 Maione, Theodore L. 2,875,283.  
 Mallina, Rudolph F. 2,905,400.  
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 Mason, Warren P. 2,907,811.  
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 Mattingly, Robert L. 2,881,433.  
 Mattson, Roy H. 2,906,893.  
 McCarthy, John A. 2,899,577.  
 McDermott, Byron. 2,883,473.  
 McDowell, Hunter L. 2,876,378.  
 McGuigan, John H. 2,917,625.  
 McKay, Kenneth G. 2,908,871.  
 McKim, Burton. 2,910,676.  
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 McMahon, William. 2,872,501.  
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 McSkimin, Herbert J. 2,877,431.  
 Meacham, Larned A. 2,908,762.  
 Meissner, Charles R. 2,889,239.  
 Merlin, Howard R., Jr. 2,907,019.  
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 Meszaros, George W. 2,903,639.  
 Michal, William C., and Tesche. 2,879,582.  
 Miller, Ohmer R. 2,881,266.  
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 Mills, John K. 2,870,332.  
 Miloche, Herman A. 2,901,547.  
 Mitchell, Doren. 2,877,343.  
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 Moll, John L. 2,900,582.  
 Morgan, Samuel P. 2,904,759.  
 Moser, Clarence R., and St. John. 2,888,594.  
 Mueller, Ralph L., and Steritz. 2,899,588.  
 Muller, John F. 2,891,735.  
 Murphy, Orlando J. 2,886,800.  
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 Myers, George H. 2,887,653.  
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 Neitzert, Carl. 2,919,414.  
 Newby, Neal D. 2,907,075.  
 Nickerson, Clifford A. 2,880,279.  
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 Ohl, Russell S. 2,900,702.  
 Oliver, John W. 2,877,315.  
 Ostendorf, Bernard, Jr. 2,873,385.  
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 Parks, Charles O. 2,867,690.  
 Pearsall, Frank M., Jr. 2,889,402.  
 Pearsall, Frank M., Jr., and Staehler. 2,877,357.  
 Peek, Robert L., Jr. 2,877,316.  
 Peek, Robert L., Jr. 2,898,422.  
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 Pentico, George W. A., and Rieke. 2,878,381.  
 Pfann, William G. 2,875,108.  
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 Pfeiffer, Kenneth W. 2,874,227.  
 Pierce, John R. 2,867,745.  
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 Pollard, Charles E., Jr. 2,868,926.  
 Pomeroy, Richard C. 2,870,328.  
 Potter, Ralph K. 2,894,798.  
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 Quate, Calvin F. 2,908,844.  
 Rack, Alois J. 2,892,592.  
 Radcliffe, Frederick E. 2,883,565.  
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 Raisbeck, Gordon. 2,867,693.  
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 Rieke, John W. 2,892,081.  
 Riggs, George, and Schuneman. 2,911,150.  
 Robertson, George H. 2,903,580.  
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 Robertson, Sloan D. 2,907,959.  
 Rodgers, Joseph. 2,909,840.  
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- Rogers, Samuel C. 2,900,507.  
 Rosenfeld, Jack L. 2,906,887.  
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 Rowen, John H. 2,885,640.  
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 Ruthroff, Clyde L. 2,883,533.  
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 Schafer, John P. 2,907,964.  
 Schmitz, Doris R. 2,889,524.  
 Schneider, Herbert A. 2,876,352.  
 Schneider, Herbert A. 2,888,557.  
 Shockley, William. 2,868,678.  
 Shockley, William. 2,869,084.  
 Shockley, William. 2,884,540.  
 Simkins, Quinton W. 2,869,034.  
 Simkins, Quinton W. 2,882,482.  
 Simkins, Quinton W. 2,909,677.  
 Slonczewski, Thaddeus. 2,899,643.  
 Smith, Howard J. 2,875,639.  
 Smith, Kenneth D. 2,885,503.  
 Soffel, Robert O. 2,902,656.  
 Soffel, Robert O. 2,910,550.  
 Southworth, George C. 2,868,980.  
 Southworth, George C. 2,897,452.  
 Spring, Conrad H. F. 2,904,662.  
 Stadler, Henry L. 2,906,953.  
 Stavrinaki, Alexander G. 2,885,604.  
 Stieritz, William G. 2,889,481.  
 Straube, Harold M. 2,879,318.  
 Straube, Harold M. 2,914,747.  
 Stryker, Norman R. 2,870,272.  
 Suhl, Harry. 2,883,629.  
 Suhl, Harry. 2,887,665.  
 Sullivan, Michael V. 2,901,532.  
 Sumner, Eric E. 2,876,367.  
 Tannenbaum, Morris. 2,911,539.  
 Taylor, Raymond L. 2,908,849.  
 Teal, Gordon K. 2,901,381.  
 Theuerer, Henry C. 2,901,325.  
 Thomas, Donald E. 2,896,168.  
 Thomas, Lewis C. 2,909,676.  
 Thompson, Eugene C. 2,908,828.  
 Thurmond, Carl D. 2,877,147.  
 Thurmond, Carl D. 2,904,405.  
 Tien, Ping K. 2,883,481.  
 Tien, Ping K. 2,886,738.  
 Timm, Walter C. 2,909,730.  
 Toms, Robert S. 2,916,719.  
 Townsend, Mark A. 2,875,281.  
 Toy, Wing N. 2,894,215.  
 Tryon, John G. 2,899,133.  
 Turner, Dennis R. 2,871,174.  
 Turner, Edward H. 2,892,159.  
 Turner, Edward H. 2,909,734.  
 Uhler, Arthur, Jr. 2,884,607.  
 Uhler, Arthur, Jr. 2,914,715.  
 Unger, Hans-Georg. 2,914,741.  
 Vaughan, Henry E. 2,879,500.  
 Vaughan, Henry E. 2,880,317.  
 Villars, Claude P. 2,876,418.  
 Wehe, Herman G. 2,883,257.  
 Weinberg, Seymour B., and Williford. 2,911,474.  
 Weinreich, Gabriel. 2,895,109.  
 Weisbaum, Samuel. 2,903,656.  
 Wennemer, Gerard P. 2,909,606.  
 Wernick, Jack H. 2,882,192.  
 Wernick, Jack H. 2,882,193.  
 Wernick, Jack H. 2,882,194.  
 Wernick, Jack H. 2,882,195.  
 Wernick, Jack H. 2,882,467-2,882,471.  
 Wiebel, Erich S. 2,881,257.  
 Williams, Robert D. 2,904,637.  
 Wirsching, Robert E. 2,873,334.  
 Wirsching, Robert E. 2,908,884.  
 Wittwer, Norman C., Jr. 2,886,734.  
 Wolfe, Robert M. 2,910,670.  
 Young, James A., Jr. 2,915,715.  
 Young, William R., Jr. 2,918,623.  
 Younker, Elmer L. 2,901,602.  
 Younker, Elmer L. 2,913,578.  
 Zinn, Manvel K. 2,890,333.
- Bell, Thomas E., to E. I. du Pont de Nemours and Co. Continuous scouring and bleaching of gray goods. 2,868,615, 1-13-59, Cl. 8—111.  
 Bell, Thomas R., III, to Pennsalt Chemicals Corp. Process for separating benzene hexachloride, hydrochloric acid, and on alcohol by distillation. 2,904,475, 9-15-59, Cl. 202—56.  
 Bell, Thomas R., III, and F. R. Lowdermilk, to Pennsalt Chemicals Corp. Evaporation of benzene hexachloride solutions. 2,874,769, 2-24-59, Cl. 159—49.  
 Bell, Wallace R. and C. C. Cigarette extingulsher. 2,907,333, 10-6-59, Cl. 131—256.  
 Bell, William B., to Sylvania Electric Products Inc. Sorting head for cathode sleeves. 2,915,165, 12-1-59, Cl. 198—33.
- Bell, William C. E., and F. L. Smith, to Dorman Long (Steel) Ltd. Cooling benches. 2,885,200, 5-5-59, Cl. 266—21.  
 Bell, William E., to Varian Associates. Magnetoabsorption method and apparatus. 2,909,725, 10-20-59, Cl. 324—34.  
 Bell, William E., to General Motors Corp. Engine starting apparatus. 2,913,589, 11-17-59, Cl. 307—10.  
 Bell, William R., to Stewart-Warner Corp. Snap-on coupling for a flexible shaft. 2,893,221, 7-7-59, Cl. 64—4.  
 Bellairs, George M., to American Steel and Pump Corp. Steel cast disk vehicle wheel. 2,911,255, 11-3-59, Cl. 301—12.  
 Bellamy, David, Jr., to Fenwal Laboratories, Inc. Sealing closures for fluid containers. 2,894,510, 7-14-59, Cl. 128—272.  
 Bellamy, David, Jr., to Fenwal Laboratories, Inc. Apparatus for handling fluid blood. 2,896,619, 7-28-59, Cl. 128—214.  
 Bellamy, John C., to Cook Electric Co. System and apparatus for data processing. 2,911,277, 11-3-59, Cl. 346—33.  
 Bellamy, John L., to International Telephone and Telegraph Corp. Fast-acting electromagnetic counting device. 2,909,712, 10-20-59, Cl. 317—155.5.  
 Bellamy, Winthrop D., to General Electric Co. Depolymerization of high molecular weight dextran. 2,867,571, 1-6-59, Cl. 204—154.  
 Bellandi, Ferdinando L. Apparatus for feeding containers and labelling the latter. 2,906,424, 9-29-59, Cl. 216—9.  
 Belle City Malleable Iron Co.: *See*—  
 Pirsig, Howard C. 2,869,189.  
 Bellek, Frank G., to Bell Electric Co. Weatherproof outlet. 2,867,345, 1-6-59, Cl. 220—24.3.  
 Beller, Hans, to General Aniline & Film Corp. Production of finely divided metals. 2,900,245, 8-18-59, Cl. 75—5.  
 Beller, Hans, to General Aniline & Film Corp. Production of nitrogen-bearing carbonyl iron powder. 2,914,393, 11-24-59, Cl. 75—5.  
 Beller, Hans, to General Aniline & Film Corp. Method of depositing metal in the pores of a porous body. 2,918,392, 12-22-59, Cl. 117—98.  
 Beller, Wilbert E., to Controls Co. of America. Thermodynamically responsive mixing valves. 2,898,045, 8-4-59, Cl. 236—12.  
 Beller, Wilbert E., to Controls Co. of America. Valve device. 2,914,086, 11-24-59, Cl. 137—544.  
 Beller, Wilbert E., to Controls Co. of America. Spring clip means. 2,914,288, 11-24-59, Cl. 248—361.  
 Bellet, Paul, to UCLAF. Tropicamine compounds and a process of making same. 2,881,170, 4-7-59, Cl. 260—247.2.  
 Bellett, George R. Constant plate current electron tube. 2,877,381, 3-10-59, Cl. 315—55.  
 Bellow, Bernard A. Sport shoe. 2,902,780, 9-8-59, Cl. 36—2.5.  
 Belli, Philip A.: *See*—  
 Genovese, Anthony L., Sr., Batchelor, Belli, Garlock, and A. L. Genovese, Jr. 2,888,215.  
 Bellicardi, Francesco, to Soc. per Az. Edoardo Weber-Fabbrica Italiana Carburatori. Carburettor apparatus for internal combustion engines. 2,868,185, 1-13-59, Cl. 123—180.  
 Bellier, Jean: *See*—  
 Coyne, André, and Bellier. 2,880,612.  
 Coyne, André, and Bellier. 2,912,861.  
 Bellin, Anthony: *See*—  
 Hirsch, Robert L., Miller, and Bellin. 2,917,424.  
 Bellingham Chain & Forge Co.: *See*—  
 Ribesehl, Robert E., and Halladay. 2,905,428.  
 Bellingher, Fred A.: *See*—  
 Wiley, Frederick H., and Bellingher. 2,902,105.  
 Bellino, Joseph A. Bag elevator for super market check-out counters. 2,883,004, 4-21-59, Cl. 187—17.  
 Bellinod, Joseph: *See*—  
 Del Matter, Lofton I. 2,883,783.  
 Bellis, Gloria K.: *See*—  
 Madison, Richard K., and Bellis. 2,887,510.  
 Bellisario, Frank, to Waterbury Farrell Foundry and Machine Co. Pick-up and transfer device. 2,876,034, 3-3-59, Cl. 294—106.  
 Belliveau, Frederick R.: *See*—  
 Czelusniak, Edmund J., and Belliveau. 2,867,809.  
 Bellman, Elmer O. Combination tie clasp and key holder. 2,887,747, 5-26-59, Cl. 24—49.  
 Bellman, Elwood P., to Berkshire Knitting Mills. Hosiery with run resisting areas. 2,887,860, 5-26-59, Cl. 66—172.  
 Bellmann, Bernard R., and E. Voris, to The Dayton Rubber Co. Adjustable pulleys. 2,870,641, 1-27-59, Cl. 74—230.17.  
 Bellmann, Emma E.: *See*—  
 Bellmann, Eugen. 2,872,802.  
 Bellmann, Eugen, deceased, by E. E. Bellmann, R. Kronsbein, and F. Bellmann, heirs. Apparatus and systems for treating textile materials. 2,872,802, 2-10-59, Cl. 68—150.  
 Bellmann, Friedrich: *See*—  
 Bellmann, Eugen. 2,872,802.  
 Bellon, Francois B. Quadrantal and semi-circular deviation correctors. 2,909,846, 10-27-59, Cl. 33—225.  
 Bellon, Ralph J.: *See*—  
 Ferdinand, Irwin J., and Bellon. 2,889,186.  
 Bellon, Ralph J., and I. J. Ferdinand, to S. A. Hirsh Mfg. Co. Adjustable angle shelf support. 2,906,486, 9-29-59, Cl. 248—242.  
 Bellows, Brian C., Jr., to Bell Telephone Laboratories, Inc. Distortion corrector. 2,896,176, 7-21-59, Cl. 333—28.



- Bellows Electric Sign Corp.:** *See—*  
Shada, Joseph J. 2,893,688.
- Bellringer, Frederick J.:** *See—*  
Capp, Clifford W., Crocker, and Bellringer. 2,912,471.
- Bellrock Gypsum Industries Ltd.:** *See—*  
Flower, Stanley H., Parsons, and Loudon. 2,892,339.
- Bellville, John W.** Continuous servo-medicator. 2,888,922, 6-2-59, Cl. 128-172.
- Belmag Zurich Beleuchtungs-U. Metallindustrie, A.G.:** *See—*  
Frei, André. 2,887,569.
- Belmont Casket Mfg. Co.:** *See—*  
Diday, Jesse N. 2,916,317.
- Belmont, Edward A.** Hole de-burring tool. 2,869,406, 1-20-59, Cl. 77-73.5.
- Belmont, Edward A.** Temperature control means for faucets. 2,872,829, 2-10-59, Cl. 74-480.
- Belmont Ver Standig, M. Inc.:** *See—*  
Bode, Hans. 2,901,377.
- Belmonte, Michael J.** Dispensing device. 2,889,961, 6-9-59, Cl. 221-175.
- Beloian, Edward A.** Monochromator optical system. 2,874,608, 2-24-59, Cl. 88-14.
- Beloit Iron Works:** *See—*  
Beachler, Edward D. 2,882,968.  
Beachler, Edward D. 2,890,000.  
Beachler, Edward D. 2,895,348.  
Beachler, Edward D. 2,909,848.  
Beachler, Edward D. 2,911,041.  
Beachler, Edward D., and Justus. 2,912,629.  
Daane, Robert A. 2,875,527.  
Dahl, Carl B., and Justus. 2,893,487.  
Hornbostel, Lloyd. 2,867,481.  
Hornbostel, Lloyd. 2,869,817.  
Hornbostel, Lloyd. 2,874,674.  
Hornbostel, Lloyd. 2,888,074.  
Hornbostel, Lloyd. 2,892,263.  
Hornbostel, Lloyd. 2,900,023.  
Hornbostel, Lloyd. 2,909,849.  
Hornbostel, Lloyd. 2,911,040.  
Hornbostel, Lloyd, and Beachler. 2,907,690.  
Hornbostel, Lloyd, Beachler, and Ely. 2,869,437.  
Hornbostel, Lloyd, and Justus. 2,909,847.  
Hornbostel, Lloyd, and Justus. 2,910,863.  
Hornbostel, Lloyd, and Justus. 2,911,039.  
Justus, Edgar J. 2,869,248.  
Justus, Edgar J. 2,911,042.  
Justus, Edgar J., and Daane. 2,893,136.  
Justus, Edgar J., and Daane. 2,915,293.  
Skinner, Eugene S. 2,879,039.  
Washburn, Robert S., and Walker. 2,904,461.
- Belove, Louis,** to Sonotone Corp. Terminal seals for alkaline electric batteries. 2,892,096, 6-23-59, Cl. 136-168.
- Belsey, Frederick H., and C. D. M. Johnston,** to Metropolitan-Vickers Electrical Co. Ltd. Dynamo-electric control system employing saturable core reactance devices. 2,885,624, 5-5-59, Cl. 322-28.
- Belshaw, Thomas E.** Powered dough former. 2,881,716, 4-14-59, Cl. 107-14.
- Belsky, Fred J., and A. A. Blanck.** Flow control unit. 2,879,861, 3-31-59, Cl. 181-60.
- Belsterling, Charles A., to F. J. Stokes Corp.** Motor control system. 2,885,618, 5-5-59, Cl. 318-162.
- Belton, James G.:** *See—*  
Barry, Vincent C., Belton, Conalty, and Twomey. 2,875,204.
- Belton, Maurice L., and H. E. Rowand,** to Crown Zellerbach Corp. Prefolding device. 2,894,434, 7-14-59, Cl. 93-49.
- Beltone Hearing Aid Co.:** *See—*  
Posen, Sam. 2,878,322.  
Posen, Sam. 2,894,076.
- Beltx Corp.:** *See—*  
De Woskin, Irvin S. 2,904,046.  
Rodis, Franz, Hartlapp, and Beltz. 2,898,189.
- Beltz, Charles R.** Portable ice skating rink and method of making the same. 2,874,549, 2-24-59, Cl. 62-75.
- Beltz, Charles R.** Clip. 2,896,887, 7-28-59, Cl. 248-68.
- Belvedere Space Saving Products, Inc.:** *See—*  
Plocki, Peter H., and Holtz. 2,901,117.
- Bembek, Edward,** to The Standard Electric Time Co. Supervised control circuit means. 2,882,452, 4-14-59, Cl. 315-191.
- Bemberg, J. P.:** *See—*  
Buschmann, Walter, and Bühren. 2,869,246.
- Bemberg, J. P., Aktiengesellschaft:** *See—*  
Luchtenberg, Alex. 2,880,465.  
Piot, Ernst. 2,899,201.  
Schmidt, Hans. 2,876,898.  
Schubert, Paul. 2,893,884.  
Schubert, Paul. 2,904,399.
- Bemis Bros. Bag Co.:** *See—*  
Ashton, George H., and Mueller. 2,897,729.  
Brady, Charles V. 2,889,979.  
Brady, Charles V., and Ottinger. 2,870,955.  
Coakley, Lige. 2,914,108.  
Gorton, Edward S., and Hayward. 2,904,241.  
Hopkins, Frank L., and Ayres. 2,889,031.  
Hopkins, Frank L. 2,890,006.  
Hopkins, Frank L., and Ayres. 2,913,145.  
Kindseth, Harold V. 2,899,347.  
Perry, Ray P. 2,869,589.
- Bemis Bros. Bag Co.:** *See—Continued*  
Stageberg, Wilfred E. 2,913,966.  
Voegel, James E., and Thomas. 2,888,187.  
Williams, Russell J. 2,869,772.  
Williams, Russell J. 2,892,580.  
Williams, Russell J. 2,906,446.
- Bemporad, Cino,** to S. R. L. Regulator. Web edge position signal generator. 2,907,337, 10-6-59, Cl. 137-83.
- Benade, Walther, and H. Goebel,** to Farbenfabriken Bayer Akt. Copper-containing trisazo dyestuffs. 2,875,191, 2-24-59, Cl. 260-147.
- Benaglio, Reno V., J. M. Patterson, and C. A. Piper,** to Bendix Aviation Corp. Digital differential analyzers. 2,900,135, 8-18-59, Cl. 235-152.
- Benander, George B., to General Electric Co.** Current tap. 2,869,093, 1-13-59, Cl. 339-59.
- Benander, George B., to General Electric Co.** Pin-type lampholder. 2,869,101, 1-13-59, Cl. 339-99.
- Benander, George B., to General Electric Co.** Display container. 2,891,663, 6-23-59, Cl. 206-56.
- Benander, George B., to General Electric Co.** Surface outlet. 2,892,174, 6-23-59, Cl. 339-99.
- Benander, George B., and L. M. Sheldon,** to General Electric Co. Electric switch with miniature toggle mechanism. 2,900,466, 8-18-59, Cl. 200-67.
- Benbassat, Bessie.** Combination check and cash disbursement book. 2,869,899, 1-20-59, Cl. 283-57.
- Benbow Mfg. Co., Inc.:** *See—*  
Moskow, Eugene D. 2,898,134.
- Bence, Lynton, R. H. Pugh, and K. S. Willson,** to P. R. Mallory & Co. Inc. Dry cell. 2,876,272, 3-3-59, Cl. 136-133.
- Bencker, Franz, F. Overdick, and R. Schlee,** to Farbenfabriken Bayer Aktiengesellschaft. Process for purifying chlorine. 2,910,140, 10-27-59, Cl. 183-114.2.
- Benckiser, Joh. A., G.m.b.H. Chemische Fabrik:** *See—*  
Debo, Arno. 2,906,770.
- Bencowitz, Isaac,** to Texas Gulf Sulphur Co. Purification of water. 2,897,150, 7-28-59, Cl. 210-63.
- Bence, William L., to Ciba Pharmaceutical Products, Inc.** Ethylene compounds. 2,877,270, 3-10-59, Cl. 260-570.
- Bendayan, Jacques, and I. Eyraud,** to Compagnie Generale d'Electricite. Apparatus for the study of the transient properties of an electric transmission circuit. 2,887,652, 5-19-59, Cl. 324-57.
- Bender, Baxter.** Adapter for wheel testing equipment. 2,907,115, 10-6-59, Cl. 33-203.18.
- Bender, Charles E.:** *See—*  
Parkinson, Martin C., Fraser, and Bender. 2,907,117.  
Parkinson, Martin C., Fraser, and Bender. 2,907,663.
- Bender, Emil A.** Rig lifting apparatus. 2,901,216, 8-25-59, Cl. 254-86.
- Bender, Georg, and A. Krauthakel,** to VEB Leuna-Werke "Walter Ulbricht." Regenerating air heater system. 2,899,188, 8-11-59, Cl. 263-19.
- Bender, Henry P.,** to Bell Telephone Laboratories, Inc. Plug-board with slidable panel. 2,879,493, 3-24-59, Cl. 339-18.
- Bender, John C.,** to Houston Oil Field Material Co., Inc. Apparatus for and method of loosening a threaded connection. 2,884,065, 4-28-59, Cl. 166-36.
- Bender, John C.,** to Houston Oil Field Material Co., Inc. Apparatus for locating anomalies in a well bore. 2,892,151, 6-23-59, Cl. 324-41.
- Bender, Joseph M.** Bow string attachment. 2,910,058, 10-27-59, Cl. 124-30.
- Bender, Lloyd,** to North Electric Co. Base for telephone substation set. 2,868,888, 1-13-59, Cl. 179-100.
- Bender, Lloyd F.** Dairy equipment. 2,897,828, 8-4-59, Cl. 134-56.
- Bender, Newell R.:** *See—*  
Rogers, Thomas H., Jr., and Bender. 2,888,408.
- Bender, Newell R.,** to the Goodyear Tire & Rubber Co. Flexible elastomeric cellular material and method of making same. 2,888,412, 5-26-59, Cl. 260-2.5.
- Bender, Newell R., and T. H. Rogers, Jr.,** to the Goodyear Tire & Rubber Co. Production of flexible cellular polyurethane material. 2,888,409, 5-26-59, Cl. 260-2.5.
- Bender, Paul P.** Cabinet with self-closing doors. 2,895,779, 7-21-59, Cl. 312-138.
- Bender, Sydney E., and L. B. Donnelly.** Methods and means for handling milk. 2,905,560, 9-22-59, Cl. 99-151.
- Benderly, Asaf A.:** *See—*  
Fitzgerald, Cornelius G., and Benderly. 2,887,458.
- Bendick, Jack W.** Self-leveling ladder. 2,890,823, 6-16-59, Cl. 223-29.
- Benditt, Albert:** *See—*  
Musser, C. Walton, Stott, and Benditt. 2,883,909.
- Benditt, John A.** Viewing box. 2,890,527, 6-16-59, Cl. 35-8.
- Bendix Aviation Corp.:** *See—*  
Albright, Franklin C. 2,875,855.  
Albright, Franklin C. 2,885,033.  
Albright, Franklin C. 2,904,135.  
Amison, Willard C., Jr. 2,880,750.  
Anastasia, Harry G. 2,869,365.  
Anastasia, Harry G., and Clermont. 2,879,351.  
Ardia, Vincent H. 2,879,015.  
Austin, Leonard E. 2,887,920.  
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Austin, Leonard E., Brown, and Ettinger. 2,885,063.  
Austin, Leonard E., Brown, and Ettinger. 2,918,164.  
Austin, Leonard E., and Ettinger. 2,893,354.



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 Barford, Frederik. 2,910,280.  
 Bauer, John A. 2,906,926.  
 Bayles, Aiden. 2,888,101.  
 Bechberger, Paul F. 2,883,595.  
 Beck, Derwood A., Goodrich, and Verge. 2,881,980.  
 Benaglio, Reno V., Patterson, and Piper. 2,900,135.  
 Bennett, Alfred, and Meyers. 2,901,683.  
 Blair, John W. 2,910,327.  
 Blair, John W., and Cripe. 2,871,065.  
 Boler, Leonard J. 2,918,072.  
 Breeding, David C., and Bartz. 2,884,915.  
 Brockway, Arthur L., Jr. 2,883,650.  
 Brook, James E. 2,871,431.  
 Brown, Abbott A. 2,887,659.  
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 Brown, Curtis L. 2,918,303.  
 Brown, Gilbert G. 2,902,577.  
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 Burnett, Richard T. 2,871,661.  
 Burnett, Richard T. 2,871,990.  
 Burnett, Richard T. 2,871,991.  
 Burnett, Richard T. 2,871,992.  
 Burnett, Richard T. 2,888,105.  
 Burnett, Richard T. 2,897,921.  
 Burnett, Richard T. 2,910,144.  
 Burt, Farlow B. 2,876,052.  
 Buxton, James E., and Digby. 2,903,892.  
 Camp, Leon W. 2,906,991.  
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 Capron, Robert W. 2,899,653.  
 Champion, Carl E. 2,907,020.  
 Chandler, Walter G. 2,888,100.  
 Chapin, Irving F. 2,875,857.  
 Cid, Fred J. 2,890,430.  
 Clarke, Arthur F., Jr. 2,894,177.  
 Cole, Charles E. 2,875,784.  
 Cole, Judson C., and Hall. 2,876,274.  
 Colt, Rutger B. 2,888,896.  
 Colt, Rutger B., and Kjellman. 2,915,725.  
 Colt, Rutger B., and Uchuck. 2,894,391.  
 Cope, Parker R. 2,878,326.  
 Cosby, James R., and Wolf. 2,886,667.  
 Criswell, Daryl L. 2,867,084.  
 Cunningham, Robert E., and Sigler. 2,901,561.  
 Daniel, William A. 2,914,834.  
 Delker, Thomas C. 2,893,784.  
 Delker, Thomas C., and Eaton. 2,905,505.  
 Dickey, John W. 2,901,185.  
 Digby, James J. 2,880,619.  
 Digby, James J. 2,901,912.  
 Digby, James J. 2,902,864.  
 Digby, James J. 2,914,951.  
 Digby, James J. 2,915,904.  
 Digby, James J., and Whitney. 2,915,903.  
 Dobrick, Herbert O. 2,884,943.  
 Dobrick, Herbert O. 2,885,173.  
 Dobrick, Herbert O. 2,909,192.  
 Dombeck, Edward K. 2,885,032.  
 Du Bois, Otto D. 2,906,541.  
 Du Bois, William H. 2,871,987.  
 Dwyer, John G. 2,869,039.  
 Edwards, John F., Jr. 2,909,627.  
 Edwards, John F., Jr., Shaub, and Friend. 2,919,320.  
 Etwell, Henry G., Jr., and Machlanski. 2,874,375.  
 Ettinger, John H. 2,880,770.  
 Ettinger, John H., and Emerick. 2,867,192.  
 Ferguson, John H., Jr. 2,918,929.  
 Ferguson, John H., and Wasdyke. 2,902,865.  
 French, Charlie N. 2,880,584.  
 Geissinger, Elton L., and Wyman. 2,891,202.  
 Gleasman, Hollis K. 2,882,754.  
 Gleasman, Hollis K. 2,882,755.  
 Gleasman, Hollis K. 2,903,107.  
 Gleasman, Hollis K. 2,903,913.  
 Gleasman, Hollis K. 2,910,157.  
 Gleasman, Hollis K. 2,914,152.  
 Goepfrich, Rudolph A. Re. 24,664.  
 Goepfrich, Rudolph A. 2,875,862.  
 Goepfrich, Rudolph A. 2,906,517.  
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- Benecke, Heinrich O. Hydrophone for directional listening buoy. 2,891,232, 6-16-59, Cl. 340—9.
- Benedek, Elek K., deceased, by M. L. Benedek, administratrix, to M. Benedek, Pump. 2,868,136, 1-13-59, Cl. 103—161.
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- Benedict, Bruce C., and H. J. Sarrett, Jr., to Phillips Petroleum Co. Asphalt composition, an additive therefor and method for producing same. 2,879,219, 3-24-59, Cl. 208—23.
- Benedict, Frank A., to Benson's Anchors, Inc. Anchor chock. 2,880,688, 4-7-59, Cl. 114—210.
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- Benedict, Michael D., Jr., and C. Baratelli, to The Gillette Co. Office knife. 2,874,462, 2-24-59, Cl. 30—162.

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- Benedict, Walter E., and J. F. Dobry, to Congoleum-Nairn Inc. Precision compensating of calendered sheets. 2,880,464, 4-7-59, Cl. 18—48.8.
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- Benfield, John D., and R. R. Kozinski. Pipe and tubing bender. 2,906,149, 9-29-59, Cl. 81—15.
- Benge, Bill L.: *See*—  
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- Benham, Frederick S., to Vandervell Products Ltd. Joining together of metal parts. 2,870,533, 1-27-59, Cl. 29—525.
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- Benink, Christiaan J. M., and E. Wrase, to G. M. Pfaff A.-G. Sewing machines. 2,885,983, 5-12-59, Cl. 112—211.
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- Benisch, Mortimer. Motor-vehicle air-conditioning system. 2,895,310, 7-21-59, Cl. 62—239.
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- Benke, Frank W., to Westinghouse Electric Corp. Method of restraining forces of non-circular cylindrical coils. 2,900,611, 8-18-59, Cl. 336—100.
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- Benner, Frank C., and E. E. Chadsey, Jr., to National Research Corp. Production of metals. 2,880,156, 3-31-59, Cl. 204-226.
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- Bennett, George E., and M. D. Cameron, to Monsanto Chemical Co. Conjugated diacetylenic glycol esters. 2,889,356, 6-2-59, Cl. 260-475.
- Bennett, Herbert F., to American Can Co. Cup dispenser. 2,877,403, 3-10-59, Cl. 221-44.
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- Bennett, Robert H. Rotary plug valve. 2,868,176, 1-13-59, Cl. 121-46.5.
- Bennett, Robert R., to Hughes Aircraft Co. Electrical analog to-digital converter. 2,896,198, 7-21-59, Cl. 340-347.
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- Bennett, Willard H. Device for producing sustained magnetic self-focusing streams. 2,905,842, 9-22-59, Cl. 313-62.
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- Bensinger, Wolf-Dieter, and M. Fritz, to Daimler-Benz Aktiengesellschaft. Balancing mechanism for multi-cylinder piston engines. 2,914,964, 12-1-59, Cl. 74-604.
- Bensky, Lowell S.: See—  
Sublette, Ivan H., Beard, Bensky, Hobbs, and Fillebrown. 2,877,446.
- Bensky, Lowell S., and S. M. Fillebrown, to Radio Corp. of America. Reversible counting system. 2,880,934, 4-7-59, Cl. 235-92.
- Bensman, Oliver W. Detachable baseboards. 2,887,739, 5-26-59, Cl. 20-74.
- Benson, Albin N. Dummy cartridge. 2,882,821, 4-21-59, Cl. 102-41.
- Benson, Alfred B., and W. D. Thorne, to International Business Machines Corp. Predetermined code switching device. 2,919,427, 12-29-59, Cl. 340-164.
- Benson, Anna M. Brassiere. 2,875,764, 3-3-59, Cl. 128-477.
- Benson, Charles J. Retractable hook mechanism. 2,869,916, 1-20-59, Cl. 294-83.
- Benson Co., Inc.: See—  
Benson, Haskell. 2,871,014.
- Benson, Custer R., to B & J Mfg. Co. Vise for supporting a pipe during caulking. 2,887,918, 5-26-59, Cl. 81-19.
- Benson, Don O., to Toro Mfg. Corp. of Minnesota. Blade hanger. 2,886,117, 5-12-59, Cl. 172-545.
- Benson, Don O., H. E. Kroll, and J. K. Chou, to Toro Mfg. Corp. of Minnesota. Centrifugal cutter assembly. 2,877,619, 3-17-59, Cl. 56-295.
- Benson, Donald O., to Toro Mfg. Corp. Reel-type mower. 2,869,309, 1-20-59, Cl. 56-249.
- Benson, Donald O., to Toro Mfg. Corp. of Minnesota. Extruded cutter reels for mowers and the like. 2,869,310, 1-20-59, Cl. 56-294.
- Benson, Donald O., to Toro Mfg. Corp. Coupling for connecting rotary elements such as rotary mower blades with source of power. 2,870,616, 1-27-59, Cl. 64-27.
- Benson, Haskell, to The Benson Co., Inc. Child's saddle stool. 2,871,014, 1-27-59, Cl. 272-1.
- Benson, Homer E., and J. H. Field, to United States of America, Interior. Method for separating CO<sub>2</sub> and H<sub>2</sub>S from gas mixtures. 2,886,405, 5-12-59, Cl. 23-3.
- Benson, Howard H. J., Jr.: See—  
Dement, James F., Benson, and Niemeyer. 2,867,915.
- Benson, John A., and G. W. Crosby, to General Electric Co. Cooling means for tailpipe. 2,874,536, 2-24-59, Cl. 60-35.6.



- Benson, John H., to American Radiator and Standard Sanitary Corp. Cold extrusion of bearing races. 2,913,811, 11-24-59, Cl. 29—148.4.
- Benson, Leonard E., and T. Raine, to Metropolitan-Vickers Electrical Co. Ltd. Sealing glands for rotating machines. 2,907,595, 10-6-59, Cl. 286—10.
- Benson, Marvin. Overload safety device. 2,888,083, 5-26-59, Cl. 172—3.
- Benson, Norman D. Automatic bottle decapper. 2,913,937, 11-24-59, Cl. 81—3.2.
- Benson, Norman E., to The Acme Wire Co. Plug-in assembly unit for printed circuits and the like. 2,912,625, 11-10-59, Cl. 317—101.
- Benson, Ralph A.,  $\frac{1}{2}$  to R. J. Novotny. Toy jet projectile. 2,870,570, 1-27-59, Cl. 46—86.
- Benson, Ralph A.,  $\frac{1}{2}$  to R. J. Novotny. Toy jet missile. 2,879,624, 3-31-59, Cl. 46—89.
- Benson, Ralph A., and R. J. Novotny, 33 $\frac{1}{3}$ % to J. J. McGlew. Vehicle burglar alarm. 2,892,181, 6-23-59, Cl. 340—64.
- Benson, Richard E., to E. I. du Pont de Nemours and Co. Synthesis of alpha-methylene carboxylic acid esters from allene, carbon monoxide and an alcohol with iron or ruthenium carbonyl catalysts. 2,871,262, 1-27-59, Cl. 260—486.
- Benson, Richard E., to E. I. du Pont de Nemours and Co. Reaction products of 1,2,4-trimethylenecyclohexane with alpha, beta-ethylenically unsaturated compounds, their preparation and homopolymers thereof. 2,894,936, 7-14-59, Cl. 260—78.4.
- Benson, Russell R. Curtain wall framing. 2,914,145, 11-24-59, Cl. 189—1.
- Benson, Saul: See—  
Greene, Robert Z., Benson, and Spilman. 2,871,081.
- Benson, Walter F. Paving apparatus. 2,867,886, 1-13-59, Cl. 25—118.
- Benson, Wayne A. Hair cutting device. 2,915,070, 12-1-59, Cl. 132—45.
- Benson's Anchors, Inc.: See—  
Benedict, Frank A. 2,880,688.
- Benstein, Arthur R., to Stewart-Warner Corp. Hose reel. 2,907,534, 10-6-59, Cl. 242—86.
- Bent, Arthur J., to Westinghouse Air Brake Co. Pulsation dampener device. 2,867,240, 1-6-59, Cl. 138—30.
- Bent, John H.: See—  
Barnes, James F., and Bent. 2,888,826.
- Bent, John H., to Gardner-Denver Co. Power operated tool with fluid pressure actuated positive feed. 2,869,403, 1-20-59, Cl. 77—34.4.
- Benteler-Werke Akt.: See—  
Rencry, Walter, and Lastering. 2,879,992.
- Bentley, A., & Sons Co.: See—  
Bentley, Anderton L., Jr. 2,890,576.
- Bentley, Alfred H.: See—  
Halford, Frank B., Cleaver, and Preece. 2,887,456.
- Bentley, Alfred M., L. Garratt, and C. A. Smith, to United Shoe Machinery Corp. Machines for operating on blanks of ceramic ware. 2,895,205, 7-21-59, Cl. 25—24.
- Bentley, Anderton L., Jr., to A. Bentley & Sons Co. Torque transmitting assembly. 2,890,576, 6-16-59, Cl. 64—1.
- Bentley Engineering Co. Ltd., The: See—  
Deans, Frederick E., and Wainwright. 2,910,847.
- Deans, Frederick E., Widdowson, and Davis. 2,888,813.
- Wainwright, Carlyle H. 2,916,898.
- Bentley, George P., G. C. McNabb, and E. L. Lewis, to Instrument Development Laboratories, Inc. Hermetically sealed rotary switches. 2,918,542, 12-22-59, Cl. 200—28.
- Bentley, James S., to Teleflex Inc. Mechanical remote controls. 2,902,877, 9-8-59, Cl. 74—422.
- Bentley, John H.: See—  
Halford, Frank B., Cleaver, and Preece. 2,887,456.
- Halford, Frank B., and Snell. 2,880,577.
- Bentley John W. Pepper mill for table use and the like. 2,876,956, 3-10-59, Cl. 241—169.
- Bentley, Robert F., to General Motors Corp. Single indicator air gauge circuit. 2,897,670, 8-4-59, Cl. 73—37.8.
- Bentley, Robert H., to The Arrow-Hart & Hegeman Electric Co. One-piece screwless wire terminal and contact for duplex electric receptacles. 2,890,436, 6-9-59, Cl. 339—258.
- Bentley, Robert H., and J. E. Aspinwall, to The Arrow-Hart & Hegeman Electric Co. Single-button actuated slow make and break switch. 2,885,515, 5-5-59, Cl. 200—156.
- Benton, Bruce M., to Boeing Airplane Co. Bi-stable flip-flops. 2,913,599, 11-17-59, Cl. 307—88.5.
- Benton, Bruce M., and R. P. Judkins, to Boeing Airplane Co. Frequency control device for generators. 2,896,150, 7-21-59, Cl. 322—61.
- Benton, Charles H., Jr., to Eastman Kodak Co. Vitamin A aldehyde derivative. 2,907,761, 10-6-59, Cl. 260—240.
- Benton, Herbert O. Measuring and dispensing device. 2,898,011, 8-4-59, Cl. 222—368.
- Benton, Joseph H. False flooring system. 2,867,301, 1-6-59, Cl. 189—34.
- Benton, Paul B. Hand-operated, combination snow shovel and plow tool. 2,919,153, 12-29-59, Cl. 294—51.
- Bentz, Belvy W. Boat trailer. 2,914,200, 11-24-59, Cl. 214—84.
- Bentz, Carlos W. Non-choke mower guard shoe. 2,872,771, 2-10-59, Cl. 56—314.
- Bentzman, Louis: See—  
Tone, John W., and Bentzman. 2,885,527.
- Bentzman, Louis, to Saxony Electronics, Inc. Electrical switch. 2,883,499, 5-5-59, Cl. 200—5.
- Benway, Robert E., to Radio Corp. of America. Plural gun cathode ray tube. 2,887,598, 5-19-59, Cl. 313—70.
- Benvak, John B., to The Osborn Mfg. Co. Stock picker. 2,871,060, 1-27-59, Cl. 300—7.
- Benvyak, John B., to The Osborn Mfg. Co. Trimming machine. 2,918,327, 12-22-59, Cl. 300—17.
- Benz, August, to Benz Spring Co. Leaf spring with pre-stressed rubber inserts. 2,882,043, 4-14-59, Cl. 267—47.
- Benz, Fred P.: See—  
Visco, Louis, and Benz. 2,906,419.
- Benz Spring Co.: See—  
Benz, August. 2,882,043.
- Benz, Walter, and F. Henninger, to Motoren-Werke Mannheim A.G. vorm. Benz Abt. Stat. Motorenbau. Remote control apparatus for reversible internal combustion engines. 2,911,960, 11-10-59, Cl. 123—41.
- Benziger, Theodore M., to United States of America, Atomic Energy Commission. Graphite extrusions. 2,870,031, 1-20-59, Cl. 106—56.
- Benzon-Petersen, Boye, to Aktiebolaget Akerlund & Rausing. Device for producing containers sealed with covers. 2,867,159, 1-6-59, Cl. 93—36.
- Benzon-Petersen, Boye, to Aktiebolaget Akerlund & Rausing. Cartons. 2,886,231, 5-12-59, Cl. 229—14.
- Beohner, Harry L., and D. Miller, Jr., to Pfaudler Permutit Inc. Filtering apparatus and method of operating same. 2,879,891, 3-31-59, Cl. 210—80.
- Beoletto, Joseph J. Vehicle seat mounting units. 2,892,482, 6-30-59, Cl. 155—9.
- Beovides y Real. Clothes drying appliance. 2,889,938, 6-9-59, Cl. 211—94.
- Beran, Karel: See—  
Burger, Mikulas, Beran, and Fencel. 2,890,988.
- Beranek, Leo L., to General Dynamics Corp. Muffler. 2,909,235, 10-20-59, Cl. 181—42.
- Beranek, Milan: See—  
Pospisil, Zdenek, and Beranek. 2,912,649.
- Berardinelli, Anthony J. Money holders for motor vehicles. 2,896,892, 7-28-59, Cl. 248—205.
- Berardinelli, Frank, to Celanese Corp. of America. Polyvinyl butyral. 2,915,504, 12-1-59, Cl. 260—73.
- Berce, William. Can holding device. 2,902,310, 9-1-59, Cl. 294—33.
- Bercholdt, Max, to I-T-E Circuit Breaker Co. Aerodynamic wave machine functioning as a compressor and turbine. 2,867,981, 1-13-59, Cl. 60—39.45.
- Bercovitz, Bernard: See—  
Meredew, George C. 2,912,004.
- Meredew, George C., Moore, and Smedley. 2,879,716.
- Bercovitz, Nathaniel, Jr., to Collins Radio Co. Increase of coupling to mechanical filter end discs to improve response. 2,918,634, 12-22-59, Cl. 333—71.
- Berder, John T., to Aquatic Products Corp. Water jet amusement device. 2,869,874, 1-20-59, Cl. 273—119.
- Bereman, John W. Folding cot. 2,888,688, 6-2-59, Cl. 5—111.
- Berends, Werner, to North American Philips Co., Inc. Protecting envelope for X-ray tubes. 2,873,379, 2-10-59, Cl. 250—90.
- Berens, Gregory E., to Motorola, Inc. Shaft coupler. 2,899,808, 8-18-59, Cl. 64—14.
- Berenschot, Donald J., S. N. Pinhasik, and K. M. Bierman, to Armour and Co. Freeze stabilized polymeric latex coatings containing N-aliphatic-beta amino butyrates and process for preparing same. 2,884,397, 4-28-59, Cl. 260—29.7.
- Berenson, Henry J., to National Paper Can & Tube Co. Continuous assembly machine. 2,887,018, 5-19-59, Cl. 93—1.
- Beresford, Donald A., to International Standard Electric Corp. Units for suppression of electrical interference. 2,878,433, 3-17-59, Cl. 317—261.
- Beresford, Hobart, and D. L. Calderwood, to Iowa State College Research Foundation, Inc. Control mechanism. 2,913,188, 11-17-59, Cl. 241—35.
- Beretta, Jeanne: See—  
Miller, William H., and Alexander. 2,910,383.
- Berezin, Evelyn, to Underwood Corp. Data processing system. 2,913,176, 11-17-59, Cl. 235—157.
- Berg, Alex, and H. Fiedler, to Dr. Karl Thomae, G.m.b.H. Method of treating topical skin disorders with benzoxathiol compositions. 2,886,488, 5-12-59, Cl. 167—58.
- Berg, Chester P., to Manor Hosier Mills, Inc. Yarn tensioning device for circular knitting machine. 2,896,435, 7-28-59, Cl. 66—146.
- Berg, Clyde H. O., to Union Oil Co. of California. Hydrocarbon conversion process and apparatus. 2,867,580, 1-6-59, Cl. 208—165.
- Berg, Clyde H. O., to Union Oil Co. of California. Hydrocarbon conversion process and apparatus. 2,893,942, 7-7-59, Cl. 208—66.
- Berg, Clyde H. O., to Union Oil Co. of California. Combined hydrosulfurization and reforming process. 2,893,945, 7-7-59, Cl. 208—99.
- Berg, Clyde H. O., to Union Oil Co. of California. Process and apparatus for high temperature reactions. 2,894,041, 7-7-59, Cl. 260—644.
- Berg, Clyde H. O., to Union Oil Co. of California. Hydrocarbon treatment process and apparatus. 2,897,133, 7-28-59, Cl. 208—103.



- Berg, Clyde H. O., to Union Oil Co. of California. Tar sand distillation process and apparatus. 2,905,595, 9-22-59, Cl. 202-14.
- Berg, Clyde H. O., J. E. Hines, Jr., J. R. Hunt, C. P. Reeg, and J. H. Ballard, to Union Oil Co. of California. Shale retorting process. 2,881,117, 4-7-59, Cl. 202-95.
- Berg, Clyde H. O., and R. C. Oliver, to Union Oil Co. of California. Hydrocarbon conversion process and apparatus. 2,893,947, 7-7-59, Cl. 208-134.
- Berg, Clyde H. O., R. D. Clark, J. E. Hines, Jr., and R. L. Switzer, to Union Oil Co. of California. Solids flow control apparatus. 2,907,342, 10-6-59, Cl. 137-331.
- Berg, Elaine. Workers' head coverings. 2,884,645, 5-5-59, Cl. 2-174.
- Berg, Eugene P.: See—
- Francis, Norman L., and Berg. 2,884,229.
- Berg, Forrest O., to Reflectal Corp. Combined window and screen assembly. 2,874,423, 2-24-59, Cl. 20-56.5.
- Berg, Forrest O., to Reflectal Corp. Combined window and screen assembly. 2,915,793, 12-8-59, Cl. 202-56.5.
- Berg, Hans: See—
- Klemm Ernst. 2,908,132.
- Berg, Heinz, to Teves, Alfred, Maschinen-und Armaturenfabrik KG. Piston ring for internal combustion engines and the like. 2,872,258, 2-3-59, Cl. 309-46.
- Berg, John A., Jr., and J. A. Berg, Sr. Double carton take-off unit. 2,889,033, 6-2-59, Cl. 198-185.
- Berg, John A., Sr.: See—
- Berg, John A., Jr. and J. A. Berg, Sr. 2,889,033.
- Berg, Manfred V. Process for resistance-welding of cast iron. 2,880,303, 3-31-59, Cl. 219-100.
- Berg, Milford E., to A. O. Smith Corp. Contact tube for arc welding unit. 2,909,645, 10-20-59, Cl. 219-130.
- Berg, Quentin. Terminal applicators. 2,873,448, 2-17-59, Cl. 1-177.
- Berg, Quentin. Apparatus for applying terminals by crimping and severing lead terminal from connecting strip without severing said strip. 2,897,870, 8-4-59, Cl. 153-1.
- Berg, Richard D., to Western Electric Co., Inc. Method of and apparatus for assembling and filling platens. 2,884,748, 5-5-59, Cl. 53-24.
- Berg, Richard J. Removable ventilated rib for shotguns. 2,869,271, 1-20-59, Cl. 42-76.
- Berg, Rudolph G., to Chas. Pfizer & Co., Inc. N-nitrosopiperazine. 2,907,767, 10-6-59, Cl. 260-268.
- Berg, Victor H.: See—
- Hilkemeier, Louis G., and Berg. 2,879,978.
- Bergan, Christian K., to G. Miller. Ash container tray top attachment. 2,894,655, 7-14-59, Cl. 220-1.
- Bergan, Martin D., to The Thoms & Betts Co. Electrical connector. 2,907,978, 10-6-59, Cl. 339-272.
- Bergdal, Ed. Set-back concrete-form tie with re-usable anchor pieces. 2,871,542, 2-3-59, Cl. 25-131.
- Berge, Arthur: See—
- Jacobaeus, Anton C., and Berge. 2,913,529.
- Berge, Jacques M. Method of and means for making fresh cheese. 2,877,119, 3-10-59, Cl. 99-116.
- Berge, Jacques M. A. C. Method of and means for manufacturing cheese. 2,908,973, 10-20-59, Cl. 31-46.
- Berge, Joseph M. Trammel bar compass. 2,869,237, 1-20-59, Cl. 33-27.
- Berge, Raymond G., and G. G. Bradley, to Radio Corp. of America. Tuning mechanism. 2,874,278, 2-17-59, Cl. 250-20.
- Berge, Robert E., to The James Knights Co. Method of adjusting the operating frequency of sealed piezoelectric crystals. 2,877,338, 3-10-59, Cl. 219-121.
- Bergen, Joseph W. Lacing hook. 2,899,730, 8-18-59, Cl. 24-146.
- Bergen Pipesupport Corp.: See—
- Suozzo, Leonard S. 2,873,078.
- Suozzo, Leonard S. 2,903,213.
- Suozzo, Leonard S. 2,908,491.
- Bergenheim, Karl T., A. H. Andersson, and P. I. Bergenheim. Load weighing device for lorries. 2,867,433, 1-6-59, Cl. 265-40.
- Bergenheim, Per I.: See—
- Bergenheim, Karl, Andersson, and Bergenheim. 2,867,433.
- Berger, Alexandre. Motor driven conveyor roller. 2,915,167, 12-1-59, Cl. 193-127.
- Berger, Arvid W.: See—
- Swanson, Robert E., and Berger. 2,875,506.
- Berger, Bernard, to National Steel Cabinet Co. Bathroom cabinet. 2,876,056, 3-3-59, Cl. 312-223.
- Berger Brothers Co., The: See—
- Champagne, Emory C., and Pfoh. 2,867,216.
- Wolfe, Morton B. 2,899,157.
- Berger, Carl, to The Commonwealth Engineering Co. of Ohio. Preservation of red blood cells. 2,875,588, 3-3-59, Cl. 62-74.
- Berger, Carl, to Union Carbide Corp. Method and apparatus for freeze dehydration. 2,896,413, 7-28-59, Cl. 62-53.
- Berger, Charles N. Tree branch prop. 2,867,056, 1-6-59, Cl. 47-43.
- Berger, Charles V., to Universal Oil Products Co. Removal of arsenic with deactivated platinum catalyst and subsequent reforming. 2,897,131, 7-28-59, Cl. 208-65.
- Berger, Charles V., to Universal Oil Products Co. Purification of hydrocarbon fractions. 2,905,625, 9-22-59, Cl. 203-89.
- Berger, Charles V., and C. F. Gerald, to Universal Oil Products Co. Conversion process and apparatus therefor. 2,918,425, 12-22-59, Cl. 208-143.
- Berger, Christian D. Color television system and apparatus. Re. 24,688, 8-18-59, Cl. 178-5.4.
- Berger, Christian D. Doll with sound-actuated moving parts. 2,906,059, 9-29-59, Cl. 46-245.
- Berger, Christian D., to Polytechnic Research & Development Co., Inc. Interpolating indicators. 2,912,957, 11-17-59, Cl. 116-124.1.
- Berger, Donald E., to Phillips Petroleum Co. Fluid separation control. 2,868,701, 1-13-59, Cl. 202-160.
- Berger, Donald E., to Phillips Petroleum Co. Control system for separation processes. 2,885,863, 5-12-59, Cl. 62-32.
- Berger, Edwin I. Pivoted type head for toy typewriter. 2,903,300, 9-22-59, Cl. 197-47.
- Berger, Elizabeth A. P.: See—
- Berger, Hugo. 2,883,244.
- Berger, France B.: See—
- Greenwood, Ivan A., Jr., and Berger. 2,914,763.
- Berger, France B., to General Precision Laboratory Inc. Multiple sideband doppler receiver. 2,896,205, 7-21-59, Cl. 343-17.1.
- Berger, France B., and W. J. Tull, to General Precision Laboratory Inc. Course and speed indicating system. 2,869,117, 1-13-59, Cl. 343-9.
- Berger, France B., and E. G. Newsom, to General Precision Laboratory Inc. Heterodyne autocorrelator. 2,896,162, 7-21-59, Cl. 324-79.
- Berger, France B., W. J. Tull, and J. W. Gray, to General Precision Laboratory Inc. Course and speed indicating system. 2,908,903, 10-13-59, Cl. 343-9.
- Berger, Frank M., to Carter Products, Inc. Hypnotic composition containing about 1 to 3 parts acetophenetidin and about 3 to 1 parts salicylamide. 2,872,370, 2-3-59, Cl. 167-52.
- Berger, Frank M., and B. J. Ludwig, to Carter Products, Inc. 2-methyl-2-sec-butyl-1,3-propanediol dicarbamate. 2,878,280, 3-17-59, Cl. 260-482.
- Berger, Frank M., and B. J. Ludwig, to Carter Products, Inc. 2-phenyl-1,3 propane diol dicarbamate. 2,884,444, 4-28-59, Cl. 260-482.
- Berger, Frank M., and S. L. Plechner, to Carter Products, Inc. Zirconium containing anti-perspirant compositions. 2,889,253, 6-2-59, Cl. 167-90.
- Berger, Harold: See—
- Jacobs, John E., and Berger. 2,889,188.
- Jacobs, John E., and Berger. 2,890,360.
- Berger, Harold and J. E. Jacobs, to General Electric Co. Target for X-radiation and the like. 2,886,726, 5-12-59, Cl. 313-65.
- Berger, Hugo, to E. A. P. Berger, also known as L. Berger. Bearing devices. 2,883,244, 4-21-59, Cl. 308-6.
- Berger, Jacob: See—
- Gottfried, Louis, and Berger. 2,917,339.
- Berger, Johannes, and G. Lange, to C. Zeiss. Photographic objective for taking or projection. 2,897,723, 8-4-59, Cl. 88-57.
- Berger, John R.: See—
- Petering, Wilbur H., and Berger. 2,907,797.
- Berger, Lisa: See—
- Berger, Hugo. 2,883,244.
- Berger, Martin: See—
- Lippmann, Seymour, and Berger. 2,869,610.
- Berger, Netardus N., to Hughes Aircraft Co. Connecting means for etched circuitry. 2,889,393, 6-2-59, Cl. 174-84.
- Berger, Richard F.: See—
- Lee, Henry H., Berger, and Gilmore. 2,905,627.
- Bergeron, Charles R., and A. F. Limper, to Ethyl Corp. Process for the preparation of cyclopentadienyl manganese tricarbonyl compounds. 2,915,539, 12-1-59, Cl. 260-429.
- Bergeron, Earl L.: See—
- Haushalter, Thomas L., and Bergeron. 2,915,884.
- Bergeron, Edward J. Fence construction. 2,918,261, 12-22-59, Cl. 256-24.
- Bergeson, Raymond L., to Minneapolis-Honeywell Regulator Co. Refueling apparatus. 2,872,811, 2-10-59, Cl. 73-304.
- Bergeson, Raymond L., to Minneapolis-Honeywell Regulator Co. Liquid level indicator stabilization. 2,874,570, 2-24-59, Cl. 73-304.
- Bergey, Taylor G. Drilling fluid method. 2,870,990, 1-27-59, Cl. 255-1.8.
- Bergfeld, Nils H., to Friden, Inc. Power operated sign control mechanism. 2,893,631, 7-7-59, Cl. 235-73.
- Berggren, Carl A., to Sundstrand Machine Tool Co. Backlash takeup mechanism. 2,903,902, 9-15-59, Cl. 74-441.
- Berggren, Detlof E., to North American Philips Co., Inc. Device for manufacturing X-ray photographs. 2,912,588, 11-10-59, Cl. 250-66.
- Bergh, Arndt B.: See—
- Rubens, Sidney M., Bergh, and Oberg. 2,892,041.
- Bergh, Sven S., to Wargons Aktiebolag. Method of treating a ferrous melt with a porous sintered metal body impregnated with a treating agent. 2,881,068, 4-7-59, Cl. 75-53.
- Bergh, Sven S., B. Troberg, and C. A. G. Ericsson, to Wargons Aktiebolag. Slag-forming welding electrode. 2,875,104, 2-24-59, Cl. 117-205.
- Bergh, Sverre E., to E. I. du Pont de Nemours and Co. Fused salt electrolytic cells. 2,919,238, 12-29-59, Cl. 204-247.
- Bergh, Sverre E., and F. E. Smith, to E. I. du Pont de Nemours and Co. Fused salt cell. 2,887,448, 5-19-59, Cl. 204-243.



- Berghaus, Bernhard, and H. Bucek. Method and device for the automatic control and supervision of the initial period and the performance of electric glow discharge processes. 2,884,511, 4-28-59, Cl. 219-121.
- Bergheim, Herbert. Necktie. 2,887,687, 5-26-59, Cl. 2-146.
- Bergkvist, Håkan G. F. Shelf assemblies. 2,917,187, 12-15-59, Cl. 211-147.
- Bergling, Charles G. B. and K. A. L., to Durox International Societe Anonyme. Method and an apparatus for the continuous manufacture of light-weight concrete in block form. 2,912,738, 11-17-59, Cl. 25-2.
- Bergling, Karl A. L.: See—
- Bergling, Charles G. B. and K. A. L. 2,912,738.
- Berglund, Nils K. E. Polarised relay. 2,882,459, 4-14-59, Cl. 317-196.
- Bergman, Arthur, to Columbia Veneer Co. Wood rechipper. 2,873,923, 2-17-59, Cl. 241-280.
- Bergman, Carl A., to General Aniline & Film Corp. Polyvinyl methyl ether composition and method for improving crock fastness of colored textiles. 2,874,136, 2-17-59, Cl. 260-285.
- Bergman, Carl A., and E. C. Hansen, to General Aniline & Film Corp. Ampholytic compositions in wet treatments. 2,877,178, 3-10-59, Cl. 252-88.
- Bergman, Donald J., to Universal Oil Products Co. Exhaust burning muffler. 2,894,598, 7-14-59, Cl. 181-43.
- Bergmann, Anders K., to Telefonaktiebolaget L M Ericsson. Arrangement for connection and disconnection of hybrid transformers at connection between 2- and 4-wire lines. 2,915,590, 12-1-59, Cl. 179-16.
- Bergmann, Christian N. Monument. 2,886,963, 5-19-59, Cl. 72-7.1.
- Bergmann, Erick W. Machine tool construction. 2,914,990, 12-1-59, Cl. 90-11.
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- Bergmann, Ernst R., to Goodman Mfg. Co. Rope frame conveyor and articulated idler assembly therefor. 2,889,918, 6-9-59, Cl. 198-192.
- Bergmann, Ernst R., and J. R. Madeira, to Goodman Mfg. Co. Extensible belt conveyors. 2,904,164, 9-15-59, Cl. 198-139.
- Bergmann, Ernst R., and J. J. Slomer, to Goodman Mfg. Co. Power steering system for shuttle cars. 2,916,099, 12-8-59, Cl. 180-79.2.
- Bergmann, Paul F., to Johnson Products, Inc. Hydraulic tappet. 2,882,876, 4-21-59, Cl. 123-90.
- Bergmann, Paul F., Sr., to Johnson Products Inc. Hydraulic tappets. 2,908,260, 10-13-59, Cl. 123-90.
- Bergmann, Richard L., to Surface Combustion Corp. Safety pilot assembly for burners. 2,882,735, 4-21-59, Cl. 74-58.
- Bergner, Robert S., and G. C. Hauenstein, to Alco Products, Inc. Erecting and launching apparatus. 2,882,795, 4-21-59, Cl. 89-17.7.
- Bergonzo, Pierre, to Tarex S.A. Apparatus for producing a metal workpiece by cold extrusion. 2,903,924, 9-15-59, Cl. 78-39.
- Bergquist, Carl H., to General Electric Co. Cable supporting system. 2,891,750, 6-23-59, Cl. 248-58.
- Bergsland, Charles H., T. R. James, R. S. Karinen, G. A. Kwasniewski, and K. E. Neumeier, to General Mills, Inc. Machine for assembling circuit components. 2,893,009, 7-7-59, Cl. 1-106.
- Bergslien, Robert M.: See—
- Zenner, Raymond E., and Bergslien. 2,877,404.
- Bergsma, Clarence J., to Curtiss-Wright Corp. Turbine nozzle construction. 2,876,989, 3-10-59, Cl. 253-78.
- Bergsma, Rudolph, to King-Seely Corp. Toaster control mechanism. 2,890,645, 6-16-59, Cl. 99-329.
- Bergson, Gustav. Gas analyzing system. 2,878,388, 3-17-59, Cl. 250-43.5.
- Bergson, Gustav. Photoelectric tube. 2,878,406, 3-17-59, Cl. 313-102.
- Bergson, Gustav. Gas analyzing system of the radiant energy absorption type. 2,898,800, 8-11-59, Cl. 88-14.
- Bergson, Gustav. Fluid flow control system. 2,917,066, 12-15-59, Cl. 137-101.19.
- Bergstedt, Alf J. A., and E. A. H. Rydahl, to Stora Kopparbergs Bergslags Aktiebolag. Longitudinally-divided sleeve type coupling with sealing means. 2,903,279, 9-8-59, Cl. 285-373.
- Bergstein, Frank D., to Bergstein Packaging Trust. Reclosable pouring opening for containers. 2,889,101, 6-2-59, Cl. 229-17.
- Bergstein, Frank D., to Bergstein Packaging Trust. Carton with self-sealing end closures. 2,896,836, 7-28-59, Cl. 229-37.
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- Bergstein, Frank D. 2,889,101.
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- Bergsten, Ralph A. Vehicle footrest pedal attachment. 2,910,888, 11-3-59, Cl. 74-564.
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- Bergstrand, Harold A., to Strombeck-Becker Mfg. Co. Model airplane. 2,870,568, 1-27-59, Cl. 46-76.
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- Bergstrom, Carl V. Housing unit. 2,904,849, 9-22-59, Cl. 20-2.
- Bergstrom, Clarence G., to G. D. Searle & Co. Sterol amino-alkyl carbonates. 2,889,318, 6-2-59, Cl. 260-239.5.
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- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Catalyst transfer in a cyclic hydrocarbon conversion process. 2,868,721, 1-13-59, Cl. 208-174.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Adsorbent drying process and apparatus. 2,870,088, 1-20-59, Cl. 208-305.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Method and system for producing oil tenaciously held in porous formations using a dredging operation. 2,880,981, 4-7-59, Cl. 262-2.
- Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Spherical reactor for the conversion of hydrocarbons. 2,884,372, 4-28-59, Cl. 208-113.
- Bergstrom, Eric V., and R. D. Drew, to Socony-Mobil Oil Co., Inc. Gas-solids separation in a pneumatic lift. 2,873,144, 2-10-59, Cl. 302-53.
- Bergstrom, Eric V., R. D. Drew, and J. G. Mitchell, to Socony Mobil Oil Co., Inc. Multi-zone kiln. 2,873,177, 2-10-59, Cl. 23-288.
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- Bergstrom, Eric V., and E. R. J. Sorf, to Socony Mobil Oil Co., Inc. Temperature control in a moving bed system employed for hydrocarbon conversion. 2,897,139, 7-28-59, Cl. 208-165.
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- Bergström, Eskil N., to Sandvikens Jernverks Aktiebolag. Fixture for truing milling cutters having inset cutter blades. 2,884,700, 5-5-59, Cl. 33-185.
- Bergström, Evar W. Adjustable shelf bracket assembly. 2,902,242, 9-1-59, Cl. 248-244.
- Bergstrom, Frederick S.: See—
- Videen, Otis R., and Bergstrom. 2,912,350.
- Bergstrom, Harold A., to Continental Can Co., Inc. Bottle shipping container with internal yieldable supports. 2,868,428, 1-13-59, Cl. 229-14.
- Bergstrom, Herman A., to General Aniline & Film Corp. Anthraquinone azoic pigments. 2,871,234, 1-27-59, Cl. 260-162.
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- Bergstrom, Lawrence E.: See—
- Jones, Bryan. 2,871,898.
- Bergstrom, Ralph W., and H. D. Lindeman, to Campbell Soup Co. Poultry boning machine. 2,897,536, 8-4-59, Cl. 17-1.
- Bergstrom, Stanley. Saw vise. 2,895,351, 7-21-59, Cl. 76-78.
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- Ludwig, Leon R., and Bergvall. 2,901,618.
- Bergvall, Royal C., to Westinghouse Electric Corp. Aircraft electrical system. 2,892,098, 6-23-59, Cl. 307-84.
- Bergy, Malcolm E.: See—
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- Berhenke, Luther F.: See—
- Williams, Bill M., and Berhenke. 2,892,867.
- Beriger, Ernst, and R. Sallmann, to Ciba Ltd. New organic phosphorus compounds and process for their manufacture. 2,908,605, 10-13-59, Cl. 167-22.
- Berill, Joseph M.: See—
- Valich, Michael, and Berill. 2,891,144.
- Bering, Jorgen D. Drain valves. 2,902,250, 9-1-59, Cl. 251-120.
- Beringer, Edward R.: See—
- Van Atta, Chester M., Beringer, and Smith. 2,867,748.
- Berk, Bernard: See—
- Bartels, Charles R., Bryan, and Berk. 2,863,779.



- Berk, F. W. & Co. Ltd.: *See*—  
Jones, William D. 2,870,485.
- Berke, Aaron. Receiptacle member. 2,903,178, 9-8-59, Cl. 229-34.
- Berke, Aaron. Self-rotatable and replaceable heel. 2,908,983, 10-20-59, Cl. 36-39.
- Berke, Nicholas E., D. D. Williams, and D. S. Fox, to Hughes Aircraft Co. Digital graph reader. 2,891,720, 6-23-59, Cl. 235-61.6.
- Berkebile, Donald C.: *See*—  
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- Berkefeld-Filter Gesellschaft und Celler Filterwerke G.m.b.H.: *See*—  
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- Berkeley, Bernard: *See*—  
Schoenholz, Daniel, and Berkeley. 2,907,664.
- Berkeley, Bernard, and A. Petersen, to Commonwealth Products, Inc. Aluminum cleaning composition. 2,907,649, 10-6-59, Cl. 51-304.
- Berkeley Chemical Corp.: *See*—  
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- Berkeley Industries: *See*—  
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- Berkelhamer, Louis H., to D. T. Siegel. Electrical resistor and method of making same. 2,880,296, 3-31-59, Cl. 201-64.
- Berker, Ralph C., to Salem Calking Co. Caulking means for seams. 2,908,134, 10-13-59, Cl. 57-140.
- Berkey, Morris B.: *See*—  
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- Berkin, George M.: *See*—  
Andrews, Victor M., and Berkin. 2,910,164.
- Berkley, Carl, to Allen B. Du Mont Laboratories, Inc. Video display device. 2,909,599, 10-20-59, Cl. 178-6.8.
- Berkley Machine Co.: *See*—  
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- Berkovits, Hani. Combination radio-camera. 2,913,971, 11-24-59, Cl. 95-12.
- Berkowitz, Bernard, to Sperry Rand Corp. Center-fed annular scanning antenna. 2,875,439, 2-24-59, Cl. 343-75.4.
- Berkowitz, Bernard D., to Microwave Associates, Inc. Shutter for waveguides. 2,897,458, 7-28-59, Cl. 333-13.
- Berkshire Knitting Mills: *See*—  
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- Berkshire Mfg. Co., The: *See*—  
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- Berkson Products, Inc.: *See*—  
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- Berky, Richard K., to Sperry Rand Corp. Slip clutch. 2,901,899, 9-1-59, Cl. 64-30.
- Berlenbach, Wilhelm: *See*—  
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- Berlin, Daniel. Child's sit or stand car seat. 2,888,061, 5-26-59, Cl. 155-11.
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- Berliner, Abraham, and B. Carroll. Diatomic iodine-hypiodous acid generating compositions. 2,904,470, 9-15-59, Cl. 167-70.
- Berliner, Henry A., to ACF Industries, Inc. Bomb casing for liquid and semi-liquid materials. 2,903,968, 9-15-59, Cl. 102-2.
- Berliner, Julius F. T. Fiber board and process of making same from desert shrubs. 2,898,260, 8-4-59, Cl. 162-11.
- Berliner Maschinenbau A.G. vormalis L. Schwartzkopf: *See*—  
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- Berliner, Victor R.: *See*—  
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- Berliner, Victor R., and H. O. Singher, to Ortho Pharmaceutical Corp. Method of controlling brucellosis. 2,915,437, 12-1-59, Cl. 167-78.
- Berliner, Victor R., and W. B. Gilardi, to Ortho Pharmaceutical Corp. Preparation of brucella antigen. 2,915,438, 12-1-59, Cl. 167-78.
- Berlinghoff, Franz, to North American Philips Co., Inc. Radio receiver antenna switching device. 2,890,450, 6-9-59, Cl. 343-100.
- Berlyn, Martin J., to Dominion Engineering Works Ltd. Method and apparatus for forming an aqueous suspension of pulp fibres into a sheet. 2,882,966, 4-21-59, Cl. 162-212.
- Berlis, Robert J., to Armour and Co. Treatment of fabric with alkylsuccinic acids and anhydrides to impart water repellency. 2,903,382, 9-8-59, Cl. 117-143.
- Berlyn, Martin J., to Dominion Engineering Works Ltd. High-speed roll press for extracting water from a wet web. 2,885,954, 5-12-59, Cl. 100-160.
- Berlyn, Martin J., to Dominion Engineering Works Ltd. Paper making machines. 2,903,061, 9-8-59, Cl. 162-295.
- Berman, Aaron R. Carrier. 2,884,977, 5-5-59, Cl. 150-5.
- Berman, Bertha. Fitted bed sheet construction. 2,907,055, 10-6-59, Cl. 5-334.
- Berman, Issy, assigned to R. Berman. Auxiliary fan attachment. 2,878,991, 3-24-59, Cl. 230-259.
- Berman, Martin, and L. C. Pine. Plug-in portable telephone system. 2,868,879, 1-13-59, Cl. 179-1.
- Berman, Rosalie: *See*—  
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- Birmingham, Arthur T., Jr., and G. P. Holthaus, to Columbia Envelope Co. Return envelope mailing piece. 2,907,514, 10-6-59, Cl. 229-73.
- Birmingham, Arthur T., Jr., and R. M. Procido, to Columbia Envelope Co. Return envelope construction. 2,910,222, 10-27-59, Cl. 229-73.
- Birmingham, Peter D. Seal for roller bearing unit. 2,878,084, 3-17-59, Cl. 308-187.1.
- Bermite Powder Co.: *See*—  
Calkins, Charles W. 2,875,959.  
McKnight, James T. 2,869,463.
- Bern, Oscar. Wheel construction. 2,890,910, 6-16-59, Cl. 301-9.
- Bernad, Jacques J., A. Novion, and M. J. Lablache-Combiere, to Societe Anonyme dite: Societe Auxiliaire de l'Entreprise "Auxen". Apparatus for stocking small logs and picking up same from a stock for loading vehicles. 2,870,925, 1-27-59, Cl. 214-147.
- Bernadt, William F.: *See*—  
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- Bernard, Arthur A., to Chemetron Corp. Arc welding process and apparatus. 2,902,587, 9-1-59, Cl. 219-74.
- Bernard, Edith E. Diaper-holding garment. 2,895,477, 7-21-59, Cl. 128-284.
- Bernard, Francois R., C. J. W. Wentworth, and A. C. Luther, Jr., to Radio Corp. of America. Color television test apparatus. 2,877,291, 3-10-59, Cl. 178-5.4.
- Bernard, Frank J. Connector for display furniture and scaffolding. 2,874,984, 2-24-59, Cl. 287-14.
- Bernard, George G.: *See*—  
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- Bernard, George G., to The Pure Oil Co. Inhibiting precipitation of iron oxide from iron-containing waters. 2,894,905, 7-14-59, Cl. 210-58.
- Bernard, George G., to The Pure Oil Co. Method of treating oil well flooding waters to reduce sulfate-reducing bacteria concentration. 2,912,378, 11-10-59, Cl. 210-52.
- Bernard, Herbert J., and J. A. Morgan. Trailer hitch. 2,898,124, 8-4-59, Cl. 280-406.
- Bernard, James G. Bowling ball marker. 2,896,530, 7-28-59, Cl. 101-4.
- Bernardin Bottle Cap Co., Inc.: *See*—  
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- Bernardoni, Edwin A.: *See*—  
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- Bernbaum, Lester M. Regulated radio frequency operated high voltage power supply. 2,894,196, 7-7-59, Cl. 321-18.
- Berndt, Franz, and H.-G. Wendlandt, to Spinnfaser Akt. Process for purifying air. 2,899,267, 8-11-59, Cl. 23-4.
- Berndt, Franz, and W. Sonnenschein, to Spinnfaser Akt. Process for lubricating filaments. 2,904,454, 9-15-59, Cl. 117-139.5.
- Berner, Leo., to Aerojet-General Corp. Compressed air reciprocatory vibrator. 2,894,488, 7-14-59, Cl. 121-30.
- Berner, Phillip J., to General Motors Corp. Steering wheel. 2,872,539, 2-3-59, Cl. 200-61.50.
- Berney, Joseph C. Rewinding apparatus. 2,877,612, 3-17-59, Cl. 53-118.
- Berney, William, and R. C. Brown. Cheese grater. 2,867,255, 1-6-59, Cl. 146-61.
- Bernhardt, Hermann, W. Thoma, and H. Genth, to Farbenfabriken Bayer Aktiengesellschaft. Process of preserving carbohydrate-containing perishable material. 2,910,400, 10-27-59, Cl. 167-22.
- Bernhardt, Otto, to Rome Cable Corp. Apparatus for wiping conduit sections. 2,906,237, 9-29-59, Cl. 118-63.
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- Bernhauer, Konrad, and S. Spaude, to Aschaffenburger Zellstoffwerke Akt. Process for producing cyano cobalamines. 2,893,989, 7-7-59, Cl. 260-211.5.
- Bernhelm, Kurt. Process for the production of cereal starch. 2,883,309, 4-21-59, Cl. 127-67.
- Bernier, Gaston P. M., to Constructions Meca-Metalliques Chalonaises. Pres. 2,882,815, 4-21-59, Cl. 100-52.
- Bernier, Jean, and T. Yeou, to Compagnie Generale de Telegraphie Sans Fil. Variable frequency reflex klystrons. 2,881,351, 4-7-59, Cl. 315-5.22.
- Berninger, Kenneth L., R. K. Skinner and C. C. Covert, to General Motors Corp. Propeller control system. 2,916,094, 12-8-59, Cl. 170-160.21.
- Bernotas, Ralph J., to General Motors Corp. Leg type traction means. 2,878,882, 3-24-59, Cl. 180-8.
- Bernotas, Ralph J., to General Motors Corp. Combination accumulator and unloading valve. 2,880,746, 4-7-59, Cl. 137-207.
- Bernstein, A. M.: *See*—  
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- Bernstein, Alfred, to Sperry Rand Corp. Accelerometer. 2,883,176, 4-21-59, Cl. 264-1.
- Bernstein, Alfred J.: *See*—  
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- Bernstein, Allan C., 1/2 to N. A. Karr, and 1/2 to P. H. Seaman. Neutral relay. 2,881,365, 4-7-59, Cl. 317-171.
- Bernstein, Allan C., to Executone Inc. Multiple unit pile-up switch. 2,902,549, 9-1-59, Cl. 200-1.



- Bernstein, Allan C., to Executone Inc. Free floating ball-actuated switch. 2,916,563, 12-8-59, Cl. 179-159.
- Bernstein, Bernard, to Nuclear Corp. of America, Inc. Vacuum tube getter. 2,908,381, 10-13-59, Cl. 206-4.
- Bernstein, Elliot. Combined fuse and current limiting resistor. 2,873,327, 2-10-59, Cl. 200-135.
- Bernstein, Elliot. In-line fuse. 2,916,587, 12-8-59, Cl. 200-131.
- Bernstein, Isidor M.: *See*—  
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- Bernstein, Joseph D., to Beverly Development Corp. Slide fastener. 2,869,207, 1-20-59, Cl. 24-201.
- Bernstein, Nahum A.: *See*—  
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- Bernstein, Philip: *See*—  
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- Bernstein, Richard K.: *See*—  
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- Bernstein, Samuel M. Ventilating range hood. 2,912,919, 11-17-59, Cl. 98-115.
- Bernstein, Stanley, to Pratt & Whitney Co., Inc. Electronic read-out circuit. 2,905,898, 9-22-59, Cl. 324-103.
- Berntsson, Nils S. Process of preventing haze formation in beverages. 2,919,193, 12-29-59, Cl. 99-48.
- Bernyk, George S. Hose basket. 2,871,057, 1-27-59, Cl. 299-78.
- Beronio, Charles E., to The Sphere Co., Inc. Electric terminal unit. 2,904,622, 9-15-59, Cl. 174-153.
- Berquist, Leonard G., to National-Standard Co. Apparatus for coating and impregnating tubular fabrics. 2,874,411, 2-24-59, Cl. 18-13.
- Berrangé, Aubrey R. Impact rolling or tamping machines for the compaction of loose materials, such as road surfaces. 2,909,106, 10-20-59, Cl. 94-48.
- Berres, Carl, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of aromatic hydroxy aldehydes. 2,903,483, 9-8-59, Cl. 260-600.
- Berreski, Walter P. Changeable color structural element. 2,902,726, 9-8-59, Cl. 20-4.
- Berrian, James H. Tubing pump. 2,915,983, 12-8-59, Cl. 103-149.
- Berridge, Charles A., to General Electric Co. Preparation of sponge rubber from high temperature mixed silicone rubber-silica composition. 2,875,163, 2-24-59, Cl. 260-2.5.
- Berry, Blanche. Shower control attachment in combination with a shower head. 2,893,648, 7-7-59, Cl. 239-499.
- Berry, Charles C., to James Lees and Sons Co. Offset blade pile wire for looms. 2,870,795, 1-27-59, Cl. 139-44.
- Berry, Clifford E., to Consolidated Electrodynamics Corp. Potentiometer apparatus. 2,894,197, 7-7-59, Cl. 323-79.
- Berry, Ernest V. Fluid electrical contact device and support therefor. 2,867,574, 1-6-59, Cl. 204-212.
- Berry, Francois J. B., deceased, by P. Berry, executor. Apparatus for sorting solid products by density. 2,903,132, 9-8-59, Cl. 209-44.
- Berry, Frank. Differential hydraulic pumps, motors and transmissions. 2,917,898, 12-22-59, Cl. 60-53.
- Berry, Frederick F. Tear strip remover. 2,919,049, 12-29-59, Cl. 220-52.
- Berry, George J.: *See*—  
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- Berry, Ira S.: *See*—  
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- Berry, James W.: *See*—  
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- Berry, John C. Package forming machine. 2,870,589, 1-27-59, Cl. 53-197.
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- Berry, Paul: *See*—  
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- Berry, Raymond T., and G. M. Harwood. Safety apparatus for elevators. 2,868,332, 1-13-59, Cl. 187-29.
- Berry, Richard C., to Crouse-Hinds Co. Explosion proof switch housing. 2,872,552, 2-3-59, Cl. 200-172.
- Berry, Richard C., to Crouse-Hinds Co. Explosion proof switch housing. 2,886,675, 5-12-59, Cl. 200-168.
- Berry, Richard C., to Crouse-Hinds Co. Switch housing. 2,903,541, 9-8-59, Cl. 200-168.
- Berry, Robert E.: *See*—  
Lyons, Joseph, Elmer, and Berry. 2,900,341.
- Berry, Russell G. Cable joint seal. 2,890,268, 6-9-59, Cl. 174-152.
- Berry, Theodore M., to General Electric Co. Submerged object locating. 2,871,459, 1-27-59, Cl. 340-3.
- Berry, Thomas F., to United States Steel Corp. Method of retarding disintegration of blast-furnace lining. 2,912,740, 11-17-59, Cl. 25-155.5.
- Berry, Verne H.: *See*—  
Hulswit, William H., Jr., Berry, and Reid. 2,884,044.
- Berry, Virgil J., Jr., to Pan American Petroleum Corp. Asphalt plugging of gas zones. 2,876,840, 3-10-59, Cl. 166-22.
- Berry, William, R. A. Rose, C. H. Phillips, and C. R. Oswin, to British Cellophane Ltd. Production of moistureproof sheet wrapping materials coated with copolymers applied from aqueous dispersions. 2,910,385, 10-27-59, Cl. 117-138.8.
- Berry, Wm. B., Co.: *See*—  
Stern, Frank W., W. J. Wollenhaupt, Jr., and L. C. Wollenhaupt. Re. 24,722.
- Bersey, Edward R. Novelty cake and method of producing the same. 2,895,832, 7-21-59, Cl. 99-92.
- Berst Corp., The: *See*—  
Blackburn, Glen G. 2,885,840.
- Berst, Neil W.: *See*—  
Dvorkovitz, Vladimir, Berst, and Leist. 2,878,190.
- Bersworth, Frederick C., and M. Rubin, to The Dow Chemical Co. Prophylactic calcium chelate compositions for heavy metal poisoning. 2,875,129, 2-24-59, Cl. 167-55.
- Bertaux, Gerard, to Forges et Ateliers de Constructions Electriques de Jeumont. Electric cable joints. 2,882,333, 4-14-59, Cl. 174-90.
- Berthel, Gustave A. Magnetic display motor. 2,890,355, 6-9-59, Cl. 310-39.
- Berthelsen, Walter, and A. F. Whitehead, to Pneumatic Scale Corp., Ltd. Vacuum filling machine. 2,898,953, 8-11-59, Cl. 141-48.
- Berther, Clau, to Inventa A.-G. fuer Forschung und Patentverwertung. Process for the production of cyanocarbonic acid amides. 2,919,277, 12-29-59, Cl. 260-294.9.
- Berther, Clau, and J. Giesen, to Inventa A.-G. fuer Forschung und Patentverwertung Lucerne. Method of effecting hydrolysis of one of the two nitrile groups of aliphatic dinitriles. 2,913,478, 11-17-59, Cl. 260-465.4.
- Berthet, Francois: *See*—  
Desvaux, Jacques, and Berthet. 2,867,984.
- Berthiez, Charles W., to Societe Nouvelle de Construction de Machines-Outils et D'Outillages-Procédes C.W.B. Milling and boring machine. 2,897,706, 8-4-59, Cl. 82-2.
- Berthiez, Charles W., to Societe Nouvelle de Constructions de Machines-Outils et d'Outillages Procédes C.W.B. Bracing device for overhanging machine member. 2,912,905, 11-17-59, Cl. 90-16.
- Berthiez, Frederick C. G., to Societe Anonyme des Anciens Etablissements Charles Berthiez. System for blocking and rotating a turret. 2,882,758, 4-21-59, Cl. 74-822.
- Berthiez, Frederick C. G., to Societe Anonyme des Anciens Etablissements Charles Berthiez. Safety release system for drilling machines and the like. 2,893,273, 7-7-59, Cl. 77-32.7.
- Berthiez, Frederick C. G., to Societe Anonyme des Anciens Etablissements Charles Berthiez. Drive transmission control. 2,912,875, 11-17-59, Cl. 74-472.
- Berthmann, Adolf, G. Kuhn, and H. Kaufer, to Dynamit Aktiengesellschaft vormals Alfred Nobel & Co. Non-caking water-resistant explosive of the ammonium nitrate type. 2,908,560, 10-13-59, Cl. 52-14.
- Berthold, George H., M. B. Karelitz, and A. S. Mancib, to Olin Mathieson Chemical Corp. Apparatus for treating plastic material with electric glow discharge. 2,881,470, 4-14-59, Cl. 18-1.
- Berthold, Wolf, to Western Electric Co., Inc. Continuous strand takeup. 2,913,190, 11-17-59, Cl. 242-25.
- Berthold, Wolfgang, to International Standard Electric Corp. Signal storage tube. 2,918,601, 12-22-59, Cl. 315-12.
- Berti, Roland J., and D. C. Bettison. Switching systems and apparatus therefor. 2,898,452, 8-4-59, Cl. 246-134.
- Bertin, Daniel: *See*—  
Joly, Nominé, and Bertin. 2,888,473.
- Bertin, Jean: *See*—  
Kadosch, Marcel, Le Foll, Maunoury, and Bertin. 2,868,479.  
Kadosch, Marcel, Paris, Bertin, and Marchal. 2,875,578.
- Bertin, Jean H.: *See*—  
Kadosch, Marcel, and Bertin. 2,906,089.  
Paris, Francois G., Salmon, Mihail, Baraut, and Bertin. 2,878,790.
- Bertling, Ronald J., to McGraw-Edison Co. Wireholder for pipe mounting. 2,913,203, 11-17-59, Cl. 248-67.7.
- Bertling, Ronald J., and J. V. Majewski, to McGraw-Edison Co. Electric service bracket for pipe mounting. 2,916,237, 12-8-59, Cl. 248-67.7.
- Bertozi, Eugene R.: *See*—  
Fettes, Edward M., and Bertozi. 2,875,182.
- Bertram, John C., to Bertram Wire Products, Inc. Bending machine to form wire articles containing an offset. 2,869,612, 1-20-59, Cl. 153-34.
- Bertram, Karl, to C.-H. Muller. Apparatus for the automatic control of working operations at moving plate-like, sheet-like, or band-like electrically non-conductive material. 2,918,971, 12-29-59, Cl. 164-48.
- Bertram, Lillian D.: *See*—  
Bertram, William A. 2,905,313.  
Bertram, William A. 2,905,314.
- Bertram, William A. Trough hanger. 2,879,961, 3-31-59, Cl. 248-48.1.
- Bertram, William A., deceased; L. D. Bertram, administratrix, to L. D. Bertram, by court decree. Display. 2,905,313, 9-22-59, Cl. 206-45.31.
- Bertram, William A., deceased; L. D. Bertram, administratrix, to L. D. Bertram, by court decree. Display. 2,905,314, 9-22-59, Cl. 206-45.31.
- Bertram Wire Products, Inc.: *See*—  
Bertram, John C. 2,869,612.
- Bertrand, Wallace A. Condition-responsive signalling device. 2,913,713, 11-17-59, Cl. 340-359.
- Bertsch, Hans, and E. Stein, to Friedrich Mauthe, G. m. b. H. Self-winding mechanism, more especially for wrist watches. 2,867,971, 1-13-59, Cl. 58-82.
- Bertsch, Joseph F., K. H. Hansen, and R. Schilling, to General Motors Corp. Air suspension leveling valve. 2,916,284, 12-8-59, Cl. 267-65.



- Bertschinger, Charles F., to Chart-Pak, Inc. Drafting instrument. 2,904,206, 9-15-59, Cl. 216-20.
- Bertuzzi, Andrew F., and M. R. Tek, to Phillips Petroleum Co. Cyclone gas anchor. 2,872,985, 2-10-59, Cl. 166-243.
- Bessecker, Lester D. Tin can container opener. 2,880,502, 4-7-59, Cl. 30-16.
- Besler, Frederick C. Filter. 2,909,285, 10-20-59, Cl. 210-232.
- Besnard, Guy G., L. J. Briggs, and E. S. Walker, to United States of America, Air Force. Subject-matter trainer. 2,877,568, 3-17-59, Cl. 35-9.
- Besse, Celestine P.: *See*—
- Casagrande, Arthur, Besse, and Bigham. 2,895,301.
- Besse, Celestine P., to California Research Corp. Fender system for underwater drilling platforms. 2,915,879, 12-8-59, Cl. 61-48.
- Bessemer Securities Corp.: *See*—
- Balaguer, Rodolfo R. 2,903,499.
- Besser, Eli D.: *See*—
- Smith, Fred, Besser, and Montonna. 2,883,826.
- Bessette, Georges H. Stable cleaning device. 2,878,922, 3-24-59, Cl. 198-137.
- Bessette, Georges H. N. Automatic variable speed pulley. 2,900,834, 8-25-59, Cl. 74-230.17.
- Bessiere, Pierre E. Reciprocating pumps in particular in fuel injection pumps. 2,880,675, 4-7-59, Cl. 103-12.
- Bessieré, Pierre E., to Societe Anonyme Etablissements Labinal. Systems including slipping coupling means between a driving shaft and a driven shaft for generators. 2,900,594, 8-18-59, Cl. 322-32.
- Bessiere, Pierre E., to Societe Anonyme Etablissements Labinal. Dynamo-electric machine field magnet construction with split poles. 2,903,610, 9-8-59, Cl. 310-254.
- Bessiere, Pierre E., to Compagnie Telma. Eddy current brakes. 2,911,550, 11-3-59, Cl. 310-93.
- Bessiere, Pierre E. Internal combustion engine fuel injection systems. 2,917,034, 12-15-59, Cl. 123-139.
- Bessire, H. & J. J., S. A.: *See*—
- Bessire, Jean-Jacques. 2,882,474.
- Bessire, Jean-Jacques, to H. & J. J. Bessire, S.A. Electric current generator for synchronized drive of at least two motors. 2,882,474, 4-14-59, Cl. 318-85.
- Best, Charles W., J. T. Napier, and J. F. MacMurray, to J. H. Baxter & Co. Pole handling apparatus. 2,873,874, 2-17-59, Cl. 214-654.
- Best, Chris E.: *See*—
- Smith, William M., Jr., and Best. 2,875,168.
- Best, Chris E., to The Firestone Tire & Rubber Co. Constant color composition comprising vinylidene chloride-vinyl chloride copolymer and curcumin. 2,875,173, 2-24-59, Cl. 260-41.
- Best, Chris E., W. R. Hausch, and J. J. Robertson, to The Firestone Tire & Rubber Co. Polyurethane rubbers. 2,905,652, 9-22-59, Cl. 260-45.4.
- Best, Clarence A. Gear-actuated reciprocating valve construction. 2,917,273, 12-15-59, Cl. 251-248.
- Best, Donald T., to Burroughs Corp. Memory system. 2,910,671, 10-27-59, Cl. 340-174.
- Best Foods Inc., The: *See*—
- Melnick, Daniel, and Gooding. 2,874,055.
- Best, Frank E. Key-in-knob lock. 2,904,989, 9-22-59, Cl. 70-452.
- Best, Frank E. Lock with lock controlled assembly. 2,907,197, 10-6-59, Cl. 70-369.
- Best, John E., to Electric & Musical Industries Ltd. Safety circuits for cathode ray tubes. 2,912,617, 11-10-59, Cl. 315-20.
- Best, John H., & Sons, Inc.: *See*—
- Best, Leon H. 2,879,893.
- Best, Leon H. 2,880,879.
- Best, Leon H. 2,889,937.
- Best, Leon H. 2,903,765.
- Best, Leon H. 2,907,468.
- Best, Leon H. 2,914,954.
- Best, Leon H., to John H. Best & Sons, Inc. Floor mounted rug display rack. 2,879,893, 3-31-59, Cl. 211-45.
- Best, Leon H., to John H. Best & Sons, Inc. Display stands. 2,880,879, 4-7-59, Cl. 211-45.
- Best, Leon H., to John H. Best & Sons, Inc. Display stands. 2,889,937, 6-9-59, Cl. 211-46.
- Best, Leon H., to John H. Best & Sons, Inc. Display hook structures. 2,903,765, 9-15-59, Cl. 24-86.
- Best, Leon H., to John H. Best & Sons, Inc. Display stands. 2,907,468, 10-6-59, Cl. 211-46.
- Best, Leon H., to John H. Best & Sons, Inc. Winders. 2,914,954, 12-1-59, Cl. 74-16.
- Best, Luther L.: *See*—
- Penland, Lemuel R., Best, and Peachey. 2,903,195.
- Best Plastics Corp.: *See*—
- Lattuca, Sam T. 2,886,828.
- Lattuca, John J. 2,889,091.
- Best, Stanley G., to United Aircraft Corp. Filter device with coarse filter and self-cleaning fine filter. 2,868,382, 1-13-59, Cl. 210-295.
- Best, Stanley G., to United Aircraft Corp. Redistributing flow aircraft air conditioning system. 2,870,698, 1-27-59, Cl. 98-15.
- Best, Stanley G., to United Aircraft Corp. Synchronizer. 2,878,427, 3-17-59, Cl. 317-6.
- Best, Stanley G., to United Aircraft Corp. Hydromechanical fuel control for variable-pitch propeller power plant. 2,910,125, 10-27-59, Cl. 170-135.72.
- Beste, Harold E., to Allen B. Du Mont Laboratories, Inc. Synchronizing signal generator. 2,884,561, 4-28-59, Cl. 315-21.
- Beste, Lawrence F., to E. I. du Pont de Nemours and Co. Cellulose triacetate composition. 2,902,383, 9-1-59, Cl. 106-189.
- Bestenreiner, Franz. Copy holder. 2,905,145, 9-22-59, Cl. 120-34.
- Besterda, Louis: *See*—
- White, William J., and Besterda. 2,889,878.
- Bestian, Herbert, and E. Prinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of liquid ethylene polymers. 2,907,805, 10-6-59, Cl. 260-683.15.
- Bestile Mfg. Co.: *See*—
- Laney, Willis G. 2,918,244.
- Bestler, Gerald M., and T. W. Miner, to Minneapolis-Honeywell Regulator Co. Method of processing semiconductor devices. 2,900,287, 8-18-59, Cl. 148-15.
- Beswick, Geoffrey E., and K. O. Ganguin, to Imperial Chemical Industries Ltd. Colour photographic process. 2,885,288, 5-5-59, Cl. 96-55.
- Beter, Ralph H., and M. Rubinoff, to Philco Corp. System for representing a time interval by a coded signal. 2,883,647, 5-26-59, Cl. 332-11.
- Bethea, Charles F., to Phillips Petroleum Co. Separation process. 2,903,441, 9-8-59, Cl. 260-96.5.
- Bethea Co. Inc.: *See*—
- Bethea, Malcolm. 2,885,167.
- Bethea, Malcolm, and Smith. 2,885,653.
- Bethea, Malcolm, to Bethea Co. Inc. Bundling yoke for connecting suspension clamps. 2,885,167, 5-5-59, Cl. 248-63.
- Bethea, Malcolm, and R. B. Smith, to Bethea Co. Inc. Electrical connector. 2,885,653, 5-5-59, Cl. 339-243.
- Bethge, Walther, ½ to J. de Montmollin and R. Gugger. Method of producing electric sheet-type heater. 2,900,290, 8-18-59, Cl. 154-90.
- Bethke, John R.: *See*—
- McCauley, John H., and Bethke. 2,906,906.
- Bethlehem Apparatus Co., Inc.: *See*—
- Nieman, Chauncy W., and Lawrence. 2,911,035.
- Bethlehem Steel Co.: *See*—
- Bare, Conrad B., and Clauser. 2,879,137.
- Eberhardt, John E. 2,891,783.
- Heselwood, James C. 2,913,694.
- Kelley, James H., and Eberhardt. 2,891,609.
- Kraner, Hobart M. 2,901,367.
- MacNaught, Donald F. 2,918,032.
- MacNaught, Donald F., and Jacobson. 2,901,279.
- Nieman, Henry W., and Maish. 2,888,901.
- Rechtin, Eberhardt C., and Steele. 2,913,880.
- Smollinger, Carl W., and Joy. 2,883,039.
- Steffensen, Percy L. 2,918,267.
- White, William E. 2,918,152.
- Williams, Glenn S. 2,869,154.
- Worthen, Eugene P., and Barbour. 2,893,926.
- Bethon, Henry E., to United States of America, Navy. Flash-type distillation system. 2,908,618, 10-13-59, Cl. 202-174.
- Betner, Thomas E., to Plastomatic Corp. Re-usable plastic containers. 2,887,244, 5-19-59, Cl. 220-39.
- Bettcher, Bruce H. Reinforced, thermal insulating, condensation-proof and light admitting member. 2,918,023, 12-22-59, Cl. 108-16.
- Better, Bernard R., to Scully-Jones and Co. Cam and pin type mandrel or chuck. 2,883,348, 6-2-59, Cl. 82-44.
- Better, Bernard R., to Scully-Jones and Co. Spline chucks and arbors. 2,890,054, 6-9-59, Cl. 279-1.
- Better, Bernard R., and J. W. Lehde, Jr., to Scully-Jones and Co. Double roller torque driver. 2,889,022, 6-2-59, Cl. 192-56.
- Better Packages, Inc.: *See*—
- Le Baron, Theodore, and Dodds. 2,892,500.
- Betteridge, Harry W. Disposable shoe dressing device. 2,888,133, 5-26-59, Cl. 206-56.
- Betteridge, Walter, to The International Nickel Co., Inc. Method of hot working heat-resistant metal articles. 2,891,307, 6-23-59, Cl. 29-423.
- Bettes, Richard S., Jr., to Standard Oil Co. Making spheroidal particles. 2,887,724, 5-26-59, Cl. 18-47.2.
- Bettinger, Corp., The: *See*—
- Randall, Boardman C., and Frobisher. 2,910,396.
- Bettison, David C.: *See*—
- Berti, Roland J., and Bettison. 2,898,452.
- Bettison, David C., and T. W. Hays. Apparatus for controlling highway crossing signals. 2,887,571, 5-19-59, Cl. 246-130.
- Bettoli, Phillip S., and E. L. Lyons, to The Ruberoid Co. Packaging of self-sealing shingles. 2,885,073, 5-5-59, Cl. 206-60.
- Bettoni, Eugene C., to Holley Carburetor Co. Ignition distributor engine governor, tachometer drive unit. 2,893,363, 7-7-59, Cl. 123-97.
- Bettridge, Frederick L. G., to A. H. Hunt (Capacitors) Ltd. Method of encasing electrical capacitors. 2,891,362, 6-23-59, Cl. 53-37.
- Betts and Co. Ltd.: *See*—
- Hawes, Walter J. 2,906,071.
- Betts, John R. Milking apparatus. 2,910,087, 10-27-59, Cl. 137-559.
- Betts, Joseph L., Jr.: *See*—
- Schetelich, Alan A., and Betts. 2,883,416.



- Betts, Ralph P., to Matralin Co., Inc. Combined luggage and furniture. 2,891,639, 6-23-59, Cl. 190-21.  
 Betz, Carl E., to Switzer Brothers, Inc. Driven penetrant method of flaw detection. 2,883,549, 4-21-59, Cl. 250-71.  
 Betz, Henry. Clamp-applying tool. 2,880,634, 4-7-59, Cl. 81-9.3.  
 Betz Laboratories, Inc.: *See—*  
   George, Charles B., Tanzola, and Kahler. 2,877,085.  
   Kahler, Harry L., and George. 2,872,281.  
   Kahler, Harry L., and Tanzola. 2,900,222.  
   Tanzola, William A., and Schieber. 2,867,354.  
 Betzel, Alvin E., Sr. Brush assembly for pipe wrapping machine. 2,888,694, 6-2-59, Cl. 15-88.  
 Betzen, John L. Hydraulic rotary pumps. 2,910,948, 11-3-59, Cl. 103-118.  
 Betzer, Cloyd L., to General Motors Corp. Heat exchanger for warm air furnaces. 2,886,295, 5-12-59, Cl. 257-139.  
 Beuchle, Friedrich, to Alfred Teves Maschinen-und Armaturenfabrik KG. Brake control valve mechanism. 2,892,468, 6-30-59, Cl. 137-505.13.  
 Beuk, Jack F., and J. M. Hogan, to Swift & Co. Use of proteolytic enzymes in poultry feed. 2,878,123, 3-17-59, Cl. 99-2.  
 Beuk, Jack F., A. L. Savich, P. A. Goesser, and J. M. Hogan, to Swift & Co. Method of tendering meat. 2,903,362, 9-8-59, Cl. 99-107.  
 Beukema, Willem, and J. Vuurmans, to North American Philips Co., Inc. Method of manufacture of tubular condensers. 2,909,830, 10-27-59, Cl. 29-25.42.  
 Beurié, André E. Lady's elastic girdle. 2,899,964, 8-18-59, Cl. 128-548.  
 Beurthelet, Charles A. E., to Compagnie Francaise Thomson-Houston. Anode cooling device for electric tubes. 2,882,449, 4-14-59, Cl. 315-118.  
 Beusshausen, Willi, to Micafil A.-G. Device for winding flat annular bodies with very fine wires. 2,904,271, 9-15-59, Cl. 242-4.  
 Beuther, Harold, to Gulf Research & Development Co. Visbreaking of reduced crude in the presence of light catalytic cycle stock. 2,900,327, 8-18-59, Cl. 208-106.  
 Beuther, Harold, and W. C. Offutt, to Gulf Research & Development Co. High-temperature, low-contact time coking process. 2,874,092, 2-17-59, Cl. 202-14.  
 Beuther, Harold, and A. M. Henke, to Gulf Research & Development Co. Process for utilizing impure hydrogen stream in hydrogenation reactions. 2,902,440, 9-1-59, Cl. 208-210.  
 Beuther, Harold, W. A. Horne, and C. W. Montgomery, to Gulf Research & Development Co. Hydrogen treatment of hydrocarbons. 2,904,500, 9-15-59, Cl. 208-57.  
 Beuther, Harold, A. M. Henke, and R. E. Peterson, to Gulf Research & Development Co. Improvements in hydrogenation and distillation of lubricating oils. 2,917,448, 12-15-59, Cl. 208-57.  
 Bevacqua, Louis A., to Motorola, Inc. Pushbutton gearshift selector. 2,910,885, 11-3-59, Cl. 74-473.  
 Bevan, Bernard J., to Smith-Corona Marchant Inc. Strip feeding device with retractable pins. 2,913,093, 11-17-59, Cl. 197-133.  
 Bevarly, Henry W.: *See—*  
   Miller, Brude D., Reigel, Bolanowski, and Bevarly. 2,898,092.  
 Bevarly, Henry W., W. F. Whitson, and C. C. Yann, to Chemetron Corp. Method of and apparatus for producing packages of plastic material at high cyclic rates. 2,895,271, 7-21-59, Cl. 53-21.  
 Beverly Development Corp.: *See—*  
   Bernstein, Joseph D. 2,869,207.  
 Beverly Vogue Co.: *See—*  
   Kyle, Marguerite G. 2,887,688.  
 Bevers, Eugene J., and F. O. Zimmer, to General Motors Corp. Gas turbine fuel system including a starting accumulator. 2,884,997, 5-5-59, Cl. 158-36.4.  
 Bevilacqua, Frank: *See—*  
   Digney, Frank J., Jr., and Bevilacqua. 2,881,391.  
 Bevilacqua, Patsy F., J. T. Plati, and W. Wenner, to Hoffmann-La Roche Inc. Synthesis of thyronine compounds. 2,895,927, 7-21-59, Cl. 260-4.71.  
 Bevoort, Cornelius, and R. E. M. Baudet, to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Automatic volume regulator. 2,867,688, 1-6-59, Cl. 179-1.  
 Bevoort, Cornelius, and R. E. M. Baudet, to Staatsbedrijf der Posterijen Telegrafie en Telefonie. Communication system channel terminating apparatus. 2,876,281, 3-3-59, Cl. 179-1.5.  
 Bewley, Thomas, and M. D. Cooke, to Hercules Powder Co. Process for purifying crude acetone. 2,906,676, 9-29-59, Cl. 202-57.  
 Bewley, William L., and L. M. Dvoracek, to Union Oil Co. of California. Shale feeder. 2,871,170, 1-27-59, Cl. 202-93.  
 Bewley, William L., J. L. Hotz, and R. L. Switzer, to Union Oil Co. of California. Shale retorting apparatus. 2,895,885, 7-21-59, Cl. 202-91.  
 Beyer, Arthur J.: *See—*  
   Lyle, Alfred G., Brubaker, and Beyer. 2,915,388.  
 Beyer, Fritz. Movable figures with changing face expressions. 2,887,820, 5-26-59, Cl. 46-120.  
 Beyer, Jeno: *See—*  
   Heijnis, James W. I., and Beyer. 2,872,128.  
 Beyer, Jeno, to American Enka Corp. Double twister. 2,867,969, 1-13-59, Cl. 57-58.83.  
 Beyerle, Rudi: *See—*  
   Persch, Waither, and Beyerle. 2,883,380.  
 Beyerstedt, John M., and H. E. Erickson, to Nordberg Mfg. Co. Adzing bits. 2,894,419, 7-14-59, Cl. 76-103.  
 Beyerstedt, Ralph L., to The Frank G. Hough Co. Instrument panel assemblies for tractors. 2,876,857, 3-10-59, Cl. 180-90.  
 Beyerstedt, Ralph L., to The Frank G. Hough Co. Tractor battery arrangements. 2,910,132, 10-27-59, Cl. 180-68.5.  
 Beyerstedt, Ralph L., and T. G. Granryd, to The Frank G. Hough Co. Four wheel drive articulated vehicle. 2,913,061, 11-17-59, Cl. 180-12.  
 Beyette, Gordon D.: *See—*  
   Beyette, Sanford R. 2,868,142.  
 Beyette, Sanford R., to G. D. Beyette. Ice cream fruit injector. 2,868,142, 1-13-59, Cl. 107-1.  
 Beyland, Robert W. Devices for measuring phonograph stylus pressure. 2,906,118, 9-29-59, Cl. 73-141.  
 Beyler, Arthur L.: *See—*  
   Clinton, Raymond O., and Beyler. 2,868,811.  
 Beyler, Roger E., and L. H. Saret, to Merck & Co., Inc. Bisdioxy steroids and method of making same. 2,888,456, 5-26-59, Cl. 260-239.55.  
 Beyler, Roger E., and L. H. Saret, to Merck & Co., Inc. Bismethylenedioxy steroids and methods of making same. 2,888,457, 5-26-59, Cl. 260-239.55.  
 Beymer, Frank R. Guard for rotary mowers. 2,914,902, 12-1-59, Cl. 56-25.4.  
 Beymer, Oliver H., to General Electric Co. Spacer for electrical windings. 2,918,639, 12-22-59, Cl. 336-185.  
 Beyner, Andre, to Ebauches S.A. Timepiece comprising an electromagnetically maintained oscillating regulator. 2,907,940, 10-6-59, Cl. 318-132.  
 Beyner, Andre, to Ebauches S.A. Electric timepiece movement. 2,912,817, 11-17-59, Cl. 58-28.  
 Beyrie, Thomas T., to Acme Metal Molding Co. Push bar for metal doors. 2,870,493, 1-27-59, Cl. 20-16.  
 Beytes, Deane A.: *See—*  
   Strother, John A., Hanson, and Beytes. 2,887,951.  
 Beyvl, Joseph M., to The Foundry Equipment Co. Mold drying oven. 2,891,319, 6-23-59, Cl. 34-21.  
 Bharucha, Kekhusro R., to Canada Packers, Ltd. Epipregnalone-benzophenone adduct and methods for producing and utilizing same. 2,863,810, 1-13-59, Cl. 260-397.4.  
 Bialek, Jacques, to Standard Coil Products Co., Inc. Delay line. 2,895,112, 7-14-59, Cl. 333-31.  
 Bialous, Adolf J., and E. R. Astley, to General Electric Co. Pressure transmitter for liquid metal systems. 2,883,995, 4-28-59, Cl. 137-85.  
 Bialy, Joseph. Thread cutting release attachment for a lathe. 2,913,944, 11-24-59, Cl. 82-5.  
 Bianchi, Achille. Rotary drier, especially for granular substances. 2,878,584, 3-24-59, Cl. 34-128.  
 Bianchi Co., The: *See—*  
   Fisk, Wilbur. 2,886,927.  
 Bianchi, Guiseppeina, and J. Rose, to Societe d'Etudes, de Gestion et d'Exploitation de Brevets, S. E. G. E. B., J. Branche & Cie. Magnetic writing board. 2,868,561, 1-13-59, Cl. 282-29.  
 Bianco, Henry J., to The Burch Co. Metal door construction. 2,889,899, 6-9-59, Cl. 189-46.  
 Bianco, Henry J., to The Burch Co. Mounting rail for sliding window screens. 2,898,984, 8-11-59, Cl. 160-90.  
 Bias, Thomas W. Fishing bobber with bait guard. 2,910,798, 11-3-59, Cl. 43-41.2.  
 Bibb Mfg. Co.: *See—*  
   Sheehan, Robert E. 2,876,140.  
 Bibbins, Gareth L., to Norton Co. Sintered bearing composition. 2,906,007, 9-29-59, Cl. 29-182.5.  
 Bibbo, Carmen. Compound-movement butterfly valve. 2,892,609, 6-30-59, Cl. 251-163.  
 Bibby, James: *See—*  
   Ollendorf, Joel, and Bibby. 2,905,873.  
 Bibby, Ralph D.: *See—*  
   Barley, Herman, and Bibby. 2,885,730.  
 Biberman, Lucien M., to United States of America, Navy. Magnetic torque motor. 2,908,171, 10-13-59, Cl. 74-5.47.  
 Bible, Roy H., Jr., to G. D. Searle & Co. Carboxyalkyl derivatives of polyhydrophenanthrene carboxylic acids. 2,902,494, 9-1-59, Cl. 260-343.2.  
 Bible, Roy H., Jr., and W. M. Hoehn, to G. D. Searle & Co. 1,4a-dimethyl-1-hydroxymethylperhydro-6-phenanthrol and ethers thereof. 2,889,371, 6-2-59, Cl. 260-611.  
 Bible, Roy H., Jr., and C. Placek, to G. D. Searle & Co. 4,5-epoxysteroids and their manufacture. 2,908,682, 10-13-59, Cl. 260-239.55.  
 Bible, Roy H., Jr., and W. M. Hoehn, to G. D. Searle & Co. 1,4a-dimethyl-6-aclyoxyperhydrophenanthrene-1-carboxylic acid and derivatives. 2,918,490, 12-22-59, Cl. 260-468.5.  
 Biholet, Aubert H., G. L. Brown, R. P. Fellmann, and G. A. Richter, Jr., to Rohm & Haas Co. Spinning of fibers and films from particulate dispersions. 2,914,376, 11-24-59, Cl. 18-54.  
 Bichell, William J.: *See—*  
   Knight, Theodore L., and Bichell. 2,875,598.  
 Bichsel, Harry J., and A. J. Baeslack, to Westinghouse Electric Corp. Arc welding apparatus. 2,879,434, 3-24-59, Cl. 314-71.



- Bichsel, Harry J., and A. J. Baeslack, to Westinghouse Electric Corp. Arc welding apparatus. 2,897,342, 7-28-59, Cl. 219-130.
- Bichsel, Harry J., and F. E. Adamson, to Westinghouse Electric Corp. Thyatron motor control. 2,913,653, 11-17-59, Cl. 318-331.
- Bickel, Ferdinand D., and C. P. Williams, to E. I. du Pont de Nemours and Co. Blasting machine. 2,908,847, 10-13-59, Cl. 317-80.
- Bickers, Arthur, to Marconi's Wireless Telegraph Co. Ltd. Variable inductance devices. 2,870,423, 1-20-59, Cl. 336-110.
- Bickerstaff, George W., Jr., to Steel City Electric Co. Corner connector. 2,911,242, 11-3-59, Cl. 287-54.
- Bickerstaff, Kenneth: *See*—  
Pilkington, Lionel A. B., and Bickerstaff. 2,911,759.
- Bickford, Fred A., and R. K. Smith, to Corning Glass Works. Method of making a nonporous, semicrystalline ceramic body. 2,887,394, 5-19-59, Cl. 106-46.
- Bickford, John H., and D. E. Lipfer, to Raymond Engineering Laboratory, Inc. Self-locking electric plugs. 2,894,242, 7-7-59, Cl. 239-195.
- Bickford Research Laboratories Inc.: *See*—  
Pearsall, David E.
- Bicking, John B., to Merck & Co., Inc. Bicyclic-nitrogen-heterocyclic compounds. 2,917,511, 12-15-59, Cl. 260-240.
- Bicknell, Robert, R. G. Lehberger, and A. B. Walker, to The Garrett Corp. Arctic shelter life raft. 2,908,919, 10-20-59, Cl. 9-11.
- Bickoff, Emanuel M.: *See*—  
Emerson, Oliver H., and Bickoff. 2,884,427.  
Emerson, Oliver H., and Bickoff. 2,895,964.
- Bickoff, Emanuel M., and A. N. Booth, to United States of America, Agriculture. Estrogenic factor. 2,890,116, 6-9-59, Cl. 99-2.
- Bidart, Arnaud P., Jr., to Zephyr Mfg. Co. Metal shaving tool. 2,910,920, 11-3-59, Cl. 90-12.
- Bidault, Philippe, and R. Metenier, to Esso Standard Societe Anonyme Francaise, formerly Standard Francaise des Petroles. Lubricating grease compositions. 2,903,427, 9-8-59, Cl. 252-42.1.
- Bidlack, Verne C., Jr.: *See*—  
Manchey, Lessel L., and Bidlack. 2,872,378.
- Bidlingmayer, Mofie S.: *See*—  
Bidlingmayer, William L. and M. S. 2,891,543.
- Bidlingmayer, William L. and M. S. Antiseptic douche apparatus. 2,891,543, 6-23-59, Cl. 128-248.
- Bidner, John. Method and apparatus for freeing stopper rod in bottom pouring steel ladle. 2,883,722, 4-28-59, Cl. 22-85.
- Bidwell, Ethel, to National Research Development Corp. Process of preparing anti-haemophilic globulin. 2,867,567, 1-6-59, Cl. 167-74.
- Bidwell, Howard, 1/2 to R. Bidwell. Method and apparatus for the treatment of paper stocks. 2,912,174, 11-10-59, Cl. 241-15.
- Bidwell, Joseph B., to General Motors Corp. Power steering. 2,904,120, 9-15-59, Cl. 180-79.2.
- Bidwell, Rachel: *See*—  
Bidwell, Howard. 2,912,174.
- Bidwell, Richard M.: *See*—  
Thamer, Burton J., Bidwell, and Hammond. 2,904,488.
- Bieber, Clarence G., and G. N. Ziegler, to The International Nickel Co., Inc. Cast nickel base alloy for high temperature service. 2,912,323, 11-10-59, Cl. 75-171.
- Bieber, Harold H., P. F. Bruins, and H. P. Gregor, to Polytechnic Institute of Brooklyn. Porous membrane materials and process for producing the same. 2,884,387, 4-28-59, Cl. 260-2.5.
- Bieber, Herman, and I. A. Eldib, to Esso Research and Engineering Co. Removal of metallic contaminants from hydrocarbon oils with a foaming agent. 2,897,144, 7-28-59, Cl. 208-251.
- Biedebach, William F., Jr., and L. L. Hilton. Centrifugal impregnating process of making a pressure tank. 2,915,425, 12-1-59, Cl. 154-83.
- Biedenstein, Vincent G., to R. C. Can Co. Slip cover and plunger for cartridge-container. 2,887,253, 5-19-59, Cl. 222-327.
- Biederman, Joseph B. Device for producing positive and negative pressures. 2,883,983, 4-28-59, Cl. 128-198.
- Biederman, Joseph B. Bottle cap. 2,884,151, 4-28-59, Cl. 215-41.
- Biedermann, Friedrich, to Agfa Akt. Diaphragm suitable for photometers. 2,896,508, 7-28-59, Cl. 88-61.
- Biedermann, Friedrich, F. Jakob, and F. Rau, to Agfa Akt. Strip coating apparatus. 2,878,779, 3-24-59, Cl. 118-412.
- Biedermann, William C., and L. C. Gutschick, to Motorola, Inc. Radio receiver construction. 2,903,516, 9-8-59, Cl. 179-1.
- Biedermann, Wolfgang: *See*—  
Schnell, Hermann, Nentwig, Hintzmann, Raichle, and Biedermann. 2,917,468.  
Schnell, Hermann, Raichle, and Biedermann. 2,910,483.
- Biedess, Anthony R., to Goodman Mfg. Co. Bit mounting means for boring head cutters. 2,899,187, 8-11-59, Cl. 262-33.
- Biedess, Anthony R., to Goodman Mfg. Co. Breaker roller for boring heads. Re. 24,732, 11-10-59, Cl. 262-33.
- Bieganski, Wladyslaw J., and L. M. Glickman, to Radio Corp. of America. Magnetic shift register. 2,873,438, 2-10-59, Cl. 340-174.
- Bieger, Jacob J., and R. H. Wadsworth, to Daco Machine & Tool Co. Gear train testing apparatus. 2,877,648, 3-17-59, Cl. 73-162.
- Biel, Hans, to H. Sickinger. Automatic paper working machine. 2,917,307, 12-15-59, Cl. 270-37.
- Biel, Hans, E. Pfäffe, and F. Bertsch, to H. Sickinger. Apparatus for making articles stitched along a fold. 2,895,730, 7-21-59, Cl. 270-37.
- Biel, Hans, and W. Kugler, to H. Sickinger. Inking roller with porous corrosion resistant coating. 2,908,068, 10-13-59, Cl. 29-121.
- Biel, Hans, and E. Pfäffe, to H. A. Sickinger. Method for the manufacture of ring book sheets in a combined operation. 2,911,888, 11-10-59, Cl. 93-1.
- Biel, John H., to Lakeside Laboratories, Inc. Aminoalkynyl-N-alkylpiperidine carboxylates. 2,867,619, 1-6-59, Cl. 260-247.2.
- Biel, John H., to Lakeside Laboratories, Inc. N-alkylpiperidyl alkynylamines. 2,867,620, 1-6-59, Cl. 260-247.5.
- Biel, John H., to Lakeside Laboratories, Inc. Diphenyl-alkylaminomethyl pyrrolidines. 2,874,163, 2-17-59, Cl. 260-313.
- Biel, John H., to Lakeside Laboratories, Inc. Synthesized antispasmodic compounds. 2,900,415, 8-18-59, Cl. 260-570.6.
- Biel, John H., to Lakeside Laboratories, Inc. Quaternary ammonium salts of aminoalcohol esters of N-alkylpiperidine carboxylic acids. 2,903,453, 9-8-59, Cl. 260-247.2.
- Biel, John H., to Lakeside Laboratories, Inc. Hydroxypiperidino-N-alkylene aldehydes. 2,911,408, 11-3-59, Cl. 260-294.7.
- Biel, John H., to Lakeside Laboratories, Inc. Anti-spasmodics specific for peptic ulcer. 2,918,406, 12-22-59, Cl. 167-65.
- Biel, John H., to Lakeside Laboratories, Inc. Antispasmodics specific for upper gastrointestinal pain and spasm. 2,918,407, 12-22-59, Cl. 167-65.
- Biel, John H., to Lakeside Laboratories, Inc. Antispasmodic compositions specific for treating spasm of the colon. 2,918,408, 12-22-59, Cl. 167-65.
- Bielawski, Mitchell S., to Universal Oil Products Co. Manufacture of solid phosphoric acid catalysts. 2,871,199, 1-27-59, Cl. 252-435.
- Bielenberg, Raymond G.: *See*—  
Baird, Douglas O., and Bielenberg. 2,881,258.  
Baird, Douglas O., and Bielenberg. 2,881,260.
- Biello, Stephen J.: *See*—  
Mason, Walker, and Biello. 2,884,952.
- Bielstein, Walter J., to Jersey Production Research Co. Method of perforating well casing. 2,891,620, 6-23-59, Cl. 166-55.5.
- Biemiller, Philip E.: *See*—  
Van Horn, John A., Biemiller, and Reese. 2,888,797.
- Biemiller, Philip E., J. H. Reese, and J. A. Van Horn, to Hamilton Watch Co. Indexing mechanism. 2,877,654, 3-17-59, Cl. 74-88.
- Bien, Hans-Samuel: *See*—  
Baumann, Fritz, and Bien. 2,901,479.
- Bien, Jack M. Portable roll and measure machine. 2,871,568, 2-3-59, Cl. 33-129.
- Bieneck, Edmund, and E. Schroth, to Didier-Werke A.G. Process for the production of magnesite which is poor in silica or silica-free. 2,881,048, 4-7-59, Cl. 23-67.
- Bienenfeld, Arthur. Protective backing compositions for mirrors. 2,867,538, 1-6-59, Cl. 106-14.
- Bienert, Berthold: *See*—  
Baumann, Fritz, Bienert, Vollmann, and Rosch. 2,897,039.
- Bienert, Berthold, K. Breig, and M. Groll, to Farbenfabriken Bayer Akt. Phthalocyanine-sulfonamides and process for their manufacture. 2,873,280, 2-10-59, Cl. 260-314.5.
- Bienett, Berthold: *See*—  
Seibert, Heinrich, Triebeneck, Bienert, and Baumann. 2,875,211.
- Bieniecki, Henry S.: *See*—  
Kolesa, Thomas J., Bieniecki, and Lich. 2,918,022.
- Bieniosek, Chester E., to Union Carbide Corp. Process and agent for treating ferrous materials. 2,873,188, 2-10-59, Cl. 75-130.
- Bier, Albert: *See*—  
Albedyhl, Karl, and Bier. 2,893,222.
- Bier, Gerhard: *See*—  
Fischer, Edgar, Weihsermel, and Bier. 2,902,477.  
Heltzer, Erich, Gumboldt, Messwarb, and Bier. 2,906,743.
- Bier, Merlin L. Scraper attachment for silo unloader. 2,895,626, 7-21-59, Cl. 214-17.
- Bier, Milan. Continuous free-boundary flow electrophoresis. 2,878,178, 3-17-59, Cl. 204-180.
- Bieri, Hans, and E. Denzler, to H. A. Schlatter, A. G. Work holding device. 2,875,718, 3-3-59, Cl. 113-99.
- Biering, Robert C., and D. L. Southam, to Thompson Products, Inc. Pump Seal. 2,882,075, 4-14-59, Cl. 286-11.
- Bierly, George W. Control means for self-propelled mowing machines. 2,906,362, 9-29-59, Cl. 180-79.3.
- Bierman, Aron. Device for the separation of gas ions. 2,919,348, 12-29-59, Cl. 250-41.9.
- Bierman, Harry C.: *See*—  
Barsky, George, and Bierman. 2,888,366.
- Bierman, Karl M.: *See*—  
Berenschot, Donald J., Pinhasik, and Bierman. 2,884,397.



- Biermann, Arnold E. Variable stroke mechanisms. 2,873,611, 2-17-59, Cl. 74-40.
- Biermann, Arnold E. Control systems for variable stroke engines. 2,873,728, 2-17-59, Cl. 123-48.
- Biermann, Arnold E. Internal combustion engine control systems. 2,902,013, 9-1-59, Cl. 123-48.
- Biermann, Arnold E. Variable stroke piston engines. 2,909,163, 10-20-59, Cl. 123-48.
- Biermann, Arnold E. Multi-cylinder internal combustion engines. 2,909,164, 10-20-59, Cl. 123-48.
- Biernacki, Felix F. Door bells. 2,912,956, 11-17-59, Cl. 116-86.
- Biery, Arthur: *See*—  
Derby, Richard F., and Biery. 2,890,824.  
Derby, Richard F., and Biery. 2,911,134.
- Biesanz, Charles W., Sr., and K. J. Walsh. Masonry cutters. 2,874,688, 2-24-59, Cl. 125-23.
- Bieseke, Rudolph L., Jr., to DSP Corp. Photoelectric grading instrument. 2,882,785, 4-21-59, Cl. 88-14.
- Biewald, Robert R.,  $\frac{1}{2}$  to H. A. Sturges. Bug shield for automobiles. 2,868,308, 1-13-59, Cl. 180-68.
- Big "A" Mfg. Co.: *See*—  
Birkmeyer, Clement E., Sr. 2,904,821.
- Bigelow, Bryant. Desk trays and the like. 2,894,640, 7-14-59, Cl. 211-126.
- Bigelow, Floyd E. Portable building. 2,890,498, 6-16-59, Cl. 20-2.
- Bigelow, Herbert L., to Baker Oil Tools, Inc. Apparatus for effecting operation of subsurface well bore devices. 2,871,946, 2-3-59, Cl. 166-64.
- Bigelow, John E., to United States of America, Navy. Meter with logarithmic amplifier. 2,870,409, 1-20-59, Cl. 324-132.
- Bigelow, John E., to General Electric Co. Pulse reverter. 2,915,630, 12-1-59, Cl. 250-27.
- Bigelow, John E., to General Electric Co. Logarithmic ratio meter. 2,916,702, 12-8-59, Cl. 324-111.
- Bigelow-Liptak Corp.: *See*—  
Sampson, Richard E. 2,870,624.
- Bigelow, Melvin R.: *See*—  
Orter, Ralph H., and Bigelow. 2,891,732.
- Bigelow, Norman E.,  $\frac{1}{2}$  to G. C. Graham and  $\frac{1}{2}$  to I. J. Kunik. Steel wool grinding and polishing wheel. 2,873,466, 2-17-59, Cl. 15-230.
- Bigelow-Sanford Carpet Co., Inc.: *See*—  
Hoeselbarth, Frank W. E. 2,903,022.
- Big Genie Corp.: *See*—  
Chambers, Joseph W. 2,902,700.
- Biggle, Laurence C.: *See*—  
Ray, William A., and Biggle. 2,874,930.
- Biggs, Ralph J., and J. M. Tucker. Speed control device. 2,912,880, 11-17-59, Cl. 74-526.
- Biggs, Robert W., to The S. K. Wellman Co. Method for producing bi-metallic article. 2,892,707, 6-30-59, Cl. 75-208.
- Bigham, John H.: *See*—  
Casagrande, Arthur, Besse, and Bigham. 2,895,301.
- Bigham, Roger V. Flood control device. 2,914,081, 11-24-59, Cl. 137-394.
- Biginelli, Oreste F. A. Extrusion press for indirect extrusion of hollow parts. 2,913,107, 11-17-59, Cl. 207-9.
- Bigler, Allen R. Shuttle lift for parking machine. 2,916,166, 12-8-59, Cl. 214-16.1.
- Bigras, Norman J.: *See*—  
Sharrar, Osro G., Brooks, and Bigras. 2,888,264.
- Bihaly, Lajos, to Industrial Accountancy Partnership Ltd. Apparatus for recording data. 2,910,934, 11-3-59, Cl. 101-19.
- Bihler, Waldemar E. Identifying labels. 2,914,166, 11-24-59, Cl. 206-56.
- Bihler, Walter G. Hydraulic machine tool. 2,915,924, 12-8-59, Cl. 77-33.5.
- Bijloo, Johan D.: *See*—  
Uhlenbroek, Jan H., Koopman, Haack, Daams, and Bijloo. 2,911,337.
- Bikales, Norbert M., to American Cyanamid Co. Cyanoethylation of wool. 2,890,925, 6-16-59, Cl. 8-127.6.
- Bikales, Norbert M., A. H. Gruber, and L. Rapoport, to American Cyanamid Co. Cyanoethylation of cellulose. 2,907,625, 10-6-59, Cl. 8-120.
- Bikales, Richard G., to Metal and Thermit Corp. Feed device for continuous plating barrel. 2,868,709, 1-13-59, Cl. 204-201.
- Bilaisis, Viktoras. Pneumatically operated control valve for hydraulic actuators. 2,870,789, 1-27-59, Cl. 137-622.
- Bilco Co., The: *See*—  
Lyons, William C. 2,879,556.
- Bilde, Tord E. D.: *See*—  
Hultberg, Rolf B. J., and Bilde. 2,916,104.
- Bilek, Andrew G., to United States of America, Air Force. Ammunition magazine. 2,889,751, 6-9-59, Cl. 89-34.
- Bilek, Ludwig: *See*—  
Schmid, Otto, Bilek, and Seifried. 2,878,279.
- Bilger, Xavier, and P. Muller, to Compagnie Francaise des Matieres Colorantes. New complex solutions and dispersions and process for their preparation. 2,895,837, 7-21-59, Cl. 106-18.
- Bilger, Xavier, and J. Pechmeze, to Compagnie Francaise des Matieres Colorantes. New water-soluble complexes and a process for their preparation. 2,904,572, 9-15-59, Cl. 260-438.
- Bill, Albert G.: *See*—  
Ganska, Kingston E., and Bill. 2,914,647.
- Bill Jack Scientific Instrument Co.: *See*—  
Beach, James R. 2,877,698.  
Breazeale, John B. 2,907,990.  
Breazeale, John B., McIlwraith, and Dacus. 2,907,211.  
Miller, Russell L. 2,867,813.  
Miller, Russell L. 2,908,943.
- Bill, John C., to United States Rubber Co. Di-(alkyl)-mono-(alkylphenyl)-phosphites. 2,877,259, 3-10-59, Cl. 260-461.
- Bill, Theodore R. Automatically retractable hitch leg. 2,882,070, 4-14-59, Cl. 280-475.
- Billen, Peter, to Schloemann Akt. Tool arrangement for severing the extruded product in directly operating extrusion presses. 2,890,782, 7-28-59, Cl. 207-1.
- Billen, Peter, and W. Linnerz, to Schloemann Akt. Excess-pressure means for multi-cylinder hydraulic systems. 2,882,688, 4-21-59, Cl. 60-97.
- Billetdeaux, Adrian C., to Westinghouse Air Brake Co. High resistance semiconductor cells. 2,888,620, 5-26-59, Cl. 317-241.
- Billeter, Henry R., to Liquid Controls Corp. Infinitely variable planetary transmission. 2,868,038, 1-13-59, Cl. 74-796.
- Billeter, Henry R., to Liquid Controls Corp. Variable speed transmission and controls therefor. 2,884,793, 5-5-59, Cl. 74-112.
- Billeter, Henry R., to Ammco Tools, Inc. Lathe. 2,891,435, 6-23-59, Cl. 82-2.
- Billeter, Henry R., to Ammco Tools, Inc. Grinding device. 2,901,869, 9-1-59, Cl. 51-96.
- Billeter, Henry R., and G. B. Richards, to Liquid Controls Corp. Tank unloading apparatus. 2,894,659, 7-14-59, Cl. 222-72.
- Billeter, Jean-Rene: *See*—  
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,904,545.
- Billi, Giorgio, to Fidelity Machine Co., Inc. Circular knitting machine. 2,881,604, 4-14-59, Cl. 66-40.
- Billig, Erich, to Starrfrasmachinen AG. Control device. 2,887,932, 5-26-59, Cl. 90-62.
- Billig, Ernst, and D. B. Gasson, to Siemens Edison Swan Ltd. Semi-conductor activated with dissociated ammonia. 2,887,453, 5-19-59, Cl. 252-62.3.
- Billig, Ralph B., and M. S. Ziskin, to Kromex Corp. Double walled container. 2,897,996, 8-4-59, Cl. 220-15.
- Billin, James J., I. Godier, and R. C. Hall, to Electric & Musical Industries Ltd. Automatic gain control circuits for television receivers. 2,885,472, 5-5-59, Cl. 178-7.3.
- Billingham, Wilfred A. Device for golf putting practice. 2,899,207, 8-11-59, Cl. 273-177.
- Billings, Charles K., and R. S. Platt, to Whirlpool Corp. Closure means for a cabinet or the like. 2,899,717, 8-18-59, Cl. 20-16.
- Billings, Ira J.: *See*—  
Huthsing, Charles K., Sr., and Billings. 2,878,683.  
Huthsing, Charles K., Sr., and Billings. 2,895,556.  
Huthsing, Charles K., Sr., and Billings. 2,909,936.
- Billings, John H., to United States of America, Army. Set-back device for fuze. 2,882,826, 4-21-59, Cl. 102-78.
- Billings, Orman B., to Johnson & Johnson. Imparting antimicrobial properties to formed articles. 2,880,129, 3-31-59, Cl. 167-30.
- Billings, Philip M., to Sanders Associates, Inc. Electrical mounting device. 2,876,402, 3-3-59, Cl. 317-242.
- Billings, Sanford M.: *See*—  
Wright, James H., Briggs, Billings, and Harriman. 2,903,645.
- Billings, Theodore E., C. P. Keshler, Jr., and H. W. Wainwright, to General Electric Co. Transistor memory circuit. 2,902,674, 9-1-59, Cl. 340-173.
- Billings, Thomas A. Tree and brush cutting attachment for bulldozers. 2,894,544, 7-14-59, Cl. 144-34.
- Billings, Thomas A. Land clearing rake. 2,897,614, 8-4-59, Cl. 37-145.
- Billingsley, William F., to The B. F. Goodrich Co. Crack resistant and traction boosting device for pneumatic tire treads. 2,910,104, 10-27-59, Cl. 152-211.
- Billingsley, William F., and J. K. Balzhiser, to The B. F. Goodrich Co. Pneumatic tire treads. 2,869,609, 1-20-59, Cl. 152-209.
- Billington, Evans R., to The Bastian-Blessing Co. Pressure regulator safety valve. 2,867,234, 1-6-59, Cl. 137-505.11.
- Billington, Evans R., to The Bastian-Blessing Co. Excess flow valve. 2,909,188, 10-20-59, Cl. 137-316.
- Billion & Cie: *See*—  
Billion, Jacques. 2,881,504.
- Billion, Jacques, to Billion & Cie. Process for crimping textile threads. 2,881,504, 4-14-59, Cl. 28-72.
- Billman, Carl A. Milling cutter. 2,903,784, 9-15-59, Cl. 29-105.
- Billman, Gerald C., and C. F. Quick, to Rohr Aircraft Corp. Conveyor for workpiece and template. 2,883,912, 4-28-59, Cl. 90-13.
- Bills, Richard F.: *See*—  
Brunton, Don L. 2,915,598.
- Billue, Robert F., and J. T. Williamson, to Thiele Kaolin Co. Method of dewatering clay. 2,905,643, 9-22-59, Cl. 252-313.



- Billups, Thomas U. Log bunk latch. 2,891,485, 6-23-59, Cl. 105-160.
- Biltmore Mfg. Co.: See—  
Sinclair, Lou F. 2,915,350.
- Bilz, Wilhelm, to Siemens-Schuckertwerke Aktiengesellschaft. Maximum value determining device. 2,913,174, 11-17-59, Cl. 235-145.
- Bina, Melvin J.: See—  
Meyer, Earl A., and Bina. 2,869,761.
- Bincer, Hans: See—  
Boxcer, John R., and Bincer. 2,875,607.  
Boxcer, John R., and Bincer. 2,896,098.
- Bincer, Hans, to The Babcock & Wilcox Co. Probe supporting means for ultrasonic testing of circumferentially extending butt welds. 2,908,161, 10-13-59, Cl. 73-67.8.
- Binder, Alfred, to The Sherwin-Williams Co. Method of making a container. 2,871,553, 2-3-59, Cl. 29-451.
- Binder, Hans, and E. Bullinger, to Rottweiler Kunstseidefabrik Akt. Process for the production of the glycol of terephthalic acid suitable for polymerization. 2,877,262, 3-10-59, Cl. 260-475.
- Binder, Paul B. Wheel alignment gages. 2,882,607, 4-21-59, Cl. 33-203.
- Binder, Richard, to Fichtel & Sachs A.G. Control switch for electrically-actuated clutch. 2,886,665, 5-12-59, Cl. 200-61.46.
- Binder, Richard, to Fichtel & Sachs A.G. Clutch arrangement. 2,891,640, 6-23-59, Cl. 192-3.5.
- Binder, Richard. Valve device. 2,906,279, 9-29-59, Cl. 137-54.
- Binder, Robert: See—  
Porsche, Ferdinand, and Binder. 2,902,020.
- Binder, William O.: See—  
Perkins, Roger A., and Binder. 2,871,118.
- Blinding, Otto. Apparatus for packaging of plastic substances or liquids. 2,906,074, 9-29-59, Cl. 53-140.
- Bindler, Jakob: See—  
Kleemann, Alois, and Bindler. 2,899,354.  
Kleemann, Alois, Keller, and Bindler. 2,897,041.  
Model, Ernst, and Bindler. 2,867,659.
- Bindon, Douglas G., I. P. V. Carter, and M. J. Friedman, to Ferranti, Ltd. Magnetic-core storage devices for digital computers. 2,880,406, 3-31-59, Cl. 340-174.
- Binegar, Rollin J. Tire traction device. 2,910,105, 10-27-59, Cl. 152-225.
- Binek, Heinz: See—  
Runge, Erwin, and Binek. 2,910,116.
- Binford, Benjamin L., to Magnetrol, Inc. Viscous fluid level measuring device. 2,911,830, 11-10-59, Cl. 73-309.
- Binford, Robert S., to General Electric Co. Fluid flow measurement and control apparatus. 2,889,780, 6-9-59, Cl. 103-12.
- Bing, Herbert A., R. R. Wareham, and O. E. Wolff to Polaroid Corp. Photographic apparatus for exposing and processing film. 2,873,659, 2-17-59, Cl. 95-13.
- Bing, Herbert A., and J. W. Lothrop, to Polaroid Corp. Photographic bounce flash adapter. 2,910,573, 10-27-59, Cl. 240-1.3.
- Bingel, Jakob. Annealing process for minimising core loss in hot-rolled electric sheet segments. 2,890,143, 6-9-59, Cl. 148-112.
- Bingeman, J. Byron: See—  
Axtell, William R., Bingeman, and Giraitis. 2,916,506.
- Bingeman, J. Byron, and A. F. Limper, to Ethyl Corp. Foam control in the distillation of cyclopentadienyl manganese tricarbonyl. 2,868,697, 1-13-59, Cl. 202-40.
- Bingham, Francis R., to I-T-E Circuit Breaker Co. Current balancing transducers for parallel connected diodes. 2,891,212, 6-16-59, Cl. 321-27.
- Bingham, George H., Jr., to Cambridge Rubber Co. Method of making hollow metal lasts. 2,912,368, 11-10-59, Cl. 204-9.
- Bingham, George H., Jr., to Cambridge Rubber Co. Hand tool for positioning slide fasteners in articles of manufacture. 2,913,743, 11-24-59, Cl. 12-103.
- Bingham-Herbrand Corp., The: See—  
Hinsey, Robert S. 2,872,830.  
Hinsey, Robert S. 2,881,637.  
Hinsey, Robert S. 2,897,686.  
Hinsey, Robert S., and Fender. 2,915,916.  
Johnstone, Theodore H. 2,899,838.  
Powell, Burnet J. 2,875,641.  
Powell, Burnet J. 2,903,907.  
Skareen, Willard C. 2,899,837.
- Bingham, Neil D., to Thompson Ramo Wooldridge, Inc. Retaining device. 2,909,354, 10-20-59, Cl. 248-316.
- Bingham, Robert E.: See—  
Salem, Samuel, Bingham, and Anderson. 2,898,665.
- Binish, Stanley E.: See—  
Kitts, Harry R. 2,893,108.
- Binkley, George W.: See—  
Brooks, Fred A., Jr., Binkley, Dumbauld, and Perry. 2,868,295.
- Binkley, William J.: See—  
McKay, Harry M. 2,918,301.
- Binkowski, Andrew. Fly bobber. 2,884,734, 5-5-59, Cl. 43-43.1.
- Binks, Chester J., to Scovill Mfg. Co. Two-piece flow control valve. 2,878,836, 3-24-59, Cl. 138-45.
- Binks, Chester J., to Scovill Mfg. Co. Flow control device. 2,899,981, 8-18-59, Cl. 138-46.
- Binks Mfg. Co.: See—  
Ensle, Bruno E. 2,909,626.
- Binney, John C. H.: See—  
Millett, Raymond C., and Binney. 2,908,031.
- Binning, Robert C., and J. F. Jennings, to The American Oil Co. Solvent extraction separation of a methylene chloride-paraffinic hydrocarbon mixture. 2,908,730, 10-13-59, Cl. 260-676.
- Binning, Robert C., and J. T. Kelly, to The American Oil Co. Hydrocarbon conversion with dialytic separation of the catalyst from the hydrocarbon products. 2,913,507, 11-17-59, Cl. 260-683.44.
- Binning, Robert C., and J. T. Kelly, to The American Oil Co. Extraction of alcohols with propylene carbonate. 2,918,486, 12-22-59, Cl. 260-450.
- Binns, Albert, to Commer Cars Ltd. Trucks, lorries and the like. 2,883,079, 4-21-59, Cl. 214-512.
- Biological Research, Inc.: See—  
Weichselbaum, Theodore E. and E. G. 2,884,150.
- Biondi, Frank J., H. M. Cleveland, and M. V. Sullivan, to Bell Telephone Laboratories, Inc. Ohmic contacts to silicon bodies. 2,874,341, 2-17-59, Cl. 317-240.
- Biondo, Charles: See—  
Dressler, Herbert, and Biondo. 2,885,981.
- Biondo, Frank P., to General Motors Corp. Vehicle dash compartment. 2,883,234, 4-21-59, Cl. 296-37.
- Birch and Gattone, Inc.: See—  
Birch, Herbert M., and Gattone. 2,872,923.
- Birch, Herbert M., and D. H. Gattone, to Birch and Gattone, Inc. Means for administering pressurized medicaments, gases, combinations thereof and liquids into body cavities. 2,872,923, 2-10-59, Cl. 128-184.
- Birch, Norman E., to Calgary Tent & Awning Ltd. Tent eave pole construction. 2,893,411, 7-7-59, Cl. 135-15.
- Birchall, George H., Jr., and J. A. Purdy, to Fischer & Porter Co. Rotary valves for laboratory glassware and the like. 2,876,985, 3-10-59, Cl. 251-192.
- Birchall, William R., and L. M. Watson, to National Distillers and Chemical Corp. Handling of sodium dispersions. 2,894,788, 7-14-59, Cl. 302-66.
- Bird, Brooks A.: See—  
Franklin, Burton E., Jr., and Bird. 2,891,481.
- Bird Electronic Corp.: See—  
Bird, James R., and Stevens. 2,884,603.  
Bird, James R., Calderhead, and Heller. 2,891,221.  
Frederico, Blossy D. 2,875,405.  
Stevens, Harold E. 2,884,595.  
Stevens, Harold E. 2,884,606.
- Bird, Eugene A.: See—  
Andrews, Dallas R., and Bird. 2,908,495.
- Bird, Gordon A. Multi-band tuned antenna. 2,881,430, 4-7-59, Cl. 343-747.
- Bird, James M.: See—  
Oliver, Willis J. 2,883,757.
- Bird, James R., and H. E. Stevens, to Bird Electronic Corp. Method of and apparatus for converting high frequency electrical energy into heat. 2,884,603, 4-28-59, Cl. 333-22.
- Bird, James R., H. J. Calderhead, and H. H. Heller, to Bird Electronic Corp. Standing wave indicator. 2,891,221, 6-16-59, Cl. 324-95.
- Bird, Lester F., to Engelhard Industries, Inc. Operating circuit for compact type arc lamps. 2,870,379, 1-20-59, Cl. 315-174.
- Bird, Lester F., to Engelhard Industries, Inc. Electrical circuit for electrical discharge lamps. 2,872,623, 2-3-59, Cl. 315-224.
- Bird, Lester F., to Engelhard Industries, Inc. Starting and operating circuit for high pressure arc lamps. 2,889,489, 6-2-59, Cl. 315-100.
- Bird, Lester F., to Engelhard Industries, Inc. Automatic wattage regulator for electrical devices. 2,898,545, 8-4-59, Cl. 323-77.
- Bird Machine Co.: See—  
Cannon, Madison M. 2,897,972.  
Roos, John T. 2,888,142.  
Smith, Richmond W. 2,905,241.
- Bird, Raymond, to International Computers and Tabulators Ltd. Electronic calculating apparatus for addition and subtraction. 2,904,252, 9-15-59, Cl. 235-176.
- Bird, Raymond, and B. Taylor, to The British Tabulating Machine Co. Ltd. Data storage devices. 2,890,439, 6-9-59, Cl. 340-173.
- Bird & Son, Inc.: See—  
Traudt, Stephen C., Curran, and Beale. 2,908,464.  
Zitke, Ernest J. 2,905,569.
- Bird, Sydney S., & Sons Ltd.: See—  
Ganderton, Peter C. 2,902,571.
- Bird, Walter, to W. S. Correll. Automobile house and camping trailer, and method of manufacturing the same. 2,894,783, 7-14-59, Cl. 296-23.
- Bird, William H., O. S. Plantinga, and J. E. Newsome, to Johnson & Johnson. Fibrous absorbent ball and method of producing same. 2,899,337, 8-11-59, Cl. 117-64.
- Birden, John H., to United States of America, Atomic Energy Commission. Fabrication of neutron sources. 2,870,339, 1-20-59, Cl. 250-84.5.
- Birden, John H., to United States of America, Atomic Energy Commission. Fabrication of neutron sources. 2,883,553, 4-21-59, Cl. 250-84.5.
- Birden, John H., to United States of America, Atomic Energy Commission. Method of preparing polonium-boron sources. 2,898,473, 8-4-59, Cl. 250-84.5.



- Birden, John H., and K. C. Jordan, to United States of America, Atomic Energy Commission. Radioactive battery. 2,913,510, 11-17-59, Cl. 136-4.
- Birdsall, Charles J. Trailer landing gear. 2,891,805, 6-23-59, Cl. 280-150.5.
- Birdsall, Charles K.: *See*—  
Everhart, Thomas E., and Birdsall. 2,870,367.
- Birdsall, Charles K., and L. M. Field, to Hughes Aircraft Co. Microwave tube. 2,885,641, 5-5-59, Cl. 333-31.
- Birdsall, Charles K., and S. Sensiper, to Hughes Aircraft Co. Traveling-wave tube. 2,889,487, 6-2-59, Cl. 315-3.6.
- Birdsall, Charles K., and L. M. Field, to Hughes Aircraft Co. Linear magnetron traveling wave tube. 2,896,117, 7-21-59, Cl. 315-39.3.
- Birdsboro Steel Foundry and Machine Co.: *See*—  
Peterson, Edward C. 2,907,236.  
Peterson, Edward T. 2,878,918.  
Peterson, Edward T. 2,886,993.
- Birdseye, Clarence, to Process Evaluation and Development Corp. Process for storing and digesting of fibrous agricultural residues. 2,899,350, 8-11-59, Cl. 162-90.
- Birdseye, Sidney H., 50% to B. M. Landemann. Apparatus for optically mixing colors. 2,867,916, 1-13-59, Cl. 35-19.
- Birdwell, Bertie F.: *See*—  
Priest, Gerald G., Morgan, Lytle, Caldwell, and Birdwell. 2,898,294.
- Birdwell, Bertie F., G. G. Priest, and B. E. Morgan, to Jersey Production Research Co. Well completion. 2,894,584, 7-14-59, Cl. 166-42.
- Birdwhistell, Ralph K., H. E. Ulmer, and L. L. Quill, to Olin Mathieson Chemical Corp. Manufacture of diborane by electrolysis of metal borohydrides. 2,876,179, 3-3-59, Cl. 204-59.
- Birge Co., Inc., The: *See*—  
Hadley, Norman F. 2,884,715.
- Birge, Warren A., to The Martin Co. Precision interval timer. 2,882,495, 4-14-59, Cl. 324-68.
- Birk, Ted W. Rotary internal combustion engine. 2,878,793, 3-24-59, Cl. 123-17.
- Birkemeier, Henry P., to Bell & Gossett Co. Vibrating reed oscillator controller. 2,872,598, 2-3-59, Cl. 310-25.
- Birkenmeyer, Robert D.: *See*—  
Kagan, Fred, and Birkenmeyer. 2,905,675.  
Speeter, Merrill E., and Birkenmeyer. 2,901,507.
- Birkett, Keith H., Superior Products Co. Vaporizing fire extinguisher fluid. 2,897,151, 7-28-59, Cl. 252-8.
- Birkhoff, Robert D., and H. H. Hubbell, Jr., and R. M. Johnson, Jr., to United States of America, Atomic Energy Commission. Personnel dosimeter. 2,875,343, 2-24-59, Cl. 250-83.3.
- Birkland, Stellan, and R. B. Neuberger, to American Can Co. Driving clutch mechanism. 2,881,891, 4-14-59, Cl. 192-84.
- Birkmaier, John. Valve actuating mechanism. 2,892,611, 6-30-59, Cl. 251-229.
- Birkmeyer, Clement E., Sr., to Big "A" Mfg. Co. Supporting apparatus for sliding doors. 2,904,821, 9-22-59, Cl. 16-94.
- Birmann, Rudolph, to De Laval Steam Turbine Co. Turbo-charger for internal combustion engines. 2,899,797, 8-18-59, Cl. 60-13.
- Birmann, Rudolph, to De Laval Steam Turbine Co. Turbo-compressor. 2,911,138, 11-3-59, Cl. 230-116.
- Birmingham, Bascom W., E. H. Brown, R. B. Scott, and P. C. Vander Arend, to United States of America, Atomic Energy Commission. Supporting and heat insulating means. 2,871,042, 1-27-59, Cl. 287-20.
- Birmingham Industries, Inc.: *See*—  
Becker, Nathan. 2,867,011.
- Birmingham Small Arms Co. Ltd., The: *See*—  
Bishop, Edward. 2,918,368.  
Harris, Geoffrey T., and Child. 2,905,577.  
Judson, Charles A., and Collins. 2,905,326.  
Kellett, Eric, and Chambers. 2,867,868.  
Marshall, Peter R., and Ridout. 2,872,311.  
Tomlinson, Geoffrey E. S. 2,883,199.  
Tomlinson, Geoffrey E. S. 2,884,105.
- Birmingham, William G., Jr. Packaging and mixing or processing kit. 2,874,830, 2-24-59, Cl. 206-47.
- Birnbaum, Hermann, to Hochmeister, Inc. Process for preparing monoglycerides of fatty acids. 2,875,221, 2-24-59, Cl. 260-410.7.
- Birney, George A., to Colprovia Roads, Inc. Bituminous paving method. 2,876,686, 3-10-59, Cl. 94-23.
- Birnkant, Cecil H., to Birnkant Frozen Confection Co. Manufacture of edible food containers. 2,890,958, 6-16-59, Cl. 99-88.
- Birnkant Frozen Confection Co.: *See*—  
Birnkant, Cecil H. 2,890,958.
- Birr, Rudolph G., to American Linen Supply Co. Universal joint. 2,899,225, 8-11-59, Cl. 287-20.
- Birr, Rudolph G., to American Linen Supply Co. Towel dispensing cabinets. 2,899,251, 8-11-59, Cl. 312-38.
- Birrell, James G. Interchangeable fishing float and sinker. 2,877,594, 3-17-59, Cl. 43-42.74.
- Birren, Faber: *See*—  
Whiteford, Errington A., and Birren. 2,916,304.
- Birtwell, William C., and L. E. Harper, to B-I-F Industries, Inc. Feed controlling apparatus. 2,872,074, 2-3-59, Cl. 222-55.
- Birum, Gail H.: *See*—  
Gaertner, Van R., and Birum. 2,879,283.  
Heininger, Samuel A., and Birum. 2,870,209.  
Heininger, Samuel A., and Birum. 2,875,250.  
Heininger, Samuel A., and Birum. 2,883,317.  
Heininger, Samuel A., and Birum. 2,913,479.  
Heininger, Samuel A., and Birum. 2,913,480.  
Heininger, Samuel A., and Birum. 2,919,224.  
Heininger, Samuel A., and Birum. 2,919,225.
- Birum, Gail H., to Monsanto Chemical Co. Esters of thiol-carboxylic acids. 2,875,228, 2-24-59, Cl. 260-455.
- Birum, Gail H., to Monsanto Chemical Co. Dialkyl and di-(haloalkyl)  $\alpha$ -mercaptophosphonate esters and process for their preparation. 2,879,285, 3-24-59, Cl. 260-461.
- Birum, Gail H., to Monsanto Chemical Co. Nematocide control. 2,909,457, 10-20-59, Cl. 167-30.
- Birum, Gail H., to Monsanto Chemical Co. Organic phosphorus complex. 2,909,544, 10-20-59, Cl. 260-438.
- Birum, Gail H., to Monsanto Chemical Co. Basteriostat. 2,913,368, 11-17-59, Cl. 167-22.
- Birum, Gail H., and S. A. Heininger, to Monsanto Chemical Co. Toxic reaction products of organosulfinylamines with dialkyl phosphites. 2,893,910, 7-7-59, Cl. 167-22.
- Birum, Herbert L., Jr.: *See*—  
Hammit, Andrew B., and Birum. 2,910,154.  
Hammit, Andrew B., and Birum. 2,918,153.
- Birx, Donald L., to Radio Condenser Co. Signal seek tuner. 2,876,356, 3-3-59, Cl. 250-40.
- Bisby, Harry, D. R. Chapman, and S. J. Matthews, deceased (by A. I. Matthews, executrix); said A. I. Matthews assor. to Baird & Tatlock (London) Ltd. Liquid metering apparatus. 2,891,699, 6-23-59, Cl. 222-56.
- Bischof, Joseph. Pedestals for tables or chairs. 2,916,241, 12-8-59, Cl. 248-188.
- Bischoff, Alfred F., to General Electric Co. Variable output control for linear accelerators. 2,887,580, 5-19-59, Cl. 250-36.
- Bischoff, Kurt: *See*—  
Spengler, Herbert, Bischoff, and Dreeskamp. 2,884,783.
- Bisgard, Andrew N., F. A. Robinson, and J. P. Spiess. Loading assemblies for use in filling diesel locomotive fuel tanks. 2,869,594, 1-20-59, Cl. 141-209.
- Bishaf, Morris, to Stein Bros. Mfg. Co. Safety belt and buckle structure. 2,896,284, 7-28-59, Cl. 24-75.
- Bishman Mfg. Co.: *See*—  
Bishman, Walter A. 2,883,858.  
Bishman, Walter A. 2,886,099.  
Bishman, Walter A. 2,897,881.
- Bishman, Walter A., to Bishman Mfg. Co. Tubeless tire tester. 2,883,858, 4-28-59, Cl. 73-45.6.
- Bishman, Walter A., to Bishman Mfg. Co. Tread compressing type tire bead seating device. 2,886,099, 5-12-59, Cl. 157-1.21.
- Bishman, Walter A., to Bishman Mfg. Co. Bead seating tool for tubeless tires. 2,897,881, 8-4-59, Cl. 157-1.21.
- Bishofberger, Carl J., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,882,371, 4-14-59, Cl. 200-138.
- Bishofberger, Carl J., to Minneapolis-Honeywell Regulator Co. Valve. 2,890,391, 6-9-59, Cl. 317-132.
- Bishofberger, Carl J., to Minneapolis-Honeywell Regulator Co. Burner control apparatus. 2,894,567, 7-14-59, Cl. 158-28.
- Bishofberger, Carl J., to Minneapolis-Honeywell Regulator Co. Electrically operable safety control apparatus. 2,910,118, 10-27-59, Cl. 158-28.
- Bishop, Alfred E., to The Commonwealth Engineering Co. of Ohio. Fibers and filaments from dextran derivatives. 2,914,415, 11-24-59, Cl. 106-162.
- Bishop and Babcock Mfg. Co., The: *See*—  
Getz, Arnstead G. 2,906,099.  
Getz, Arnstead G. 2,906,508.  
Mayo, Edward L. 2,902,827.  
Mayo, Edward L. 2,906,098.  
Mayo, Edward L. 2,906,292.
- Bishop, Donald R.: *See*—  
Bartlett, Philip D., Bishop, Whittier, and Wright. 2,873,657.
- Bishop, Edward, to The Birmingham Small Arms Co. Ltd. Production of powder-metallurgy articles. 2,918,368, 12-22-59, Cl. 75-222.
- Bishop, Edwin V., to K. Y. Messick. Packaging means for articles that are deleteriously affected by moisture. 2,912,138, 11-10-59, Cl. 220-85.
- Bishop, George F. L.: *See*—  
Johnston, Kenneth L., and Bishop. 2,893,950.
- Bishop, Gordon W. Cleaning and de-waxing devices for conveyors. 2,885,068, 5-5-59, Cl. 198-229.
- Bishop, Gwladys M.: *See*—  
Evans, Howard, and Worn. 2,889,224.
- Bishop, Harold W., and B. A. Strout, to United Shoe Machinery Corp. Machines for installing components. 2,877,541, 3-17-59, Cl. 29-203.
- Bishop, Joel L. Bile bag. 2,900,979, 8-25-59, Cl. 128-283.
- Bishop, John I., to The L. S. Starrett Co. Dial hole gauge. 2,910,781, 11-3-59, Cl. 33-178.
- Bishop, John R.: *See*—  
Leaper, Joseph M. F., Bishop, and Anderson. 2,904,422.
- Bishop, John W., to Tide Water Associated Oil Co. Hydrocarbon fuel. 2,881,062, 4-7-59, Cl. 44-69.
- Bishop, John W. H. Combined ribbon spool and re-inker. 2,869,706, 1-20-59, Cl. 197-171.



- Bishop, John W. H. Typewriter ribbon spool and the like. 2,873,839, 2-17-59, Cl. 197-175.
- Bishop, John W. H. Clean change ribbon spool and assembly. 2,850,840, 4-7-59, Cl. 197-175.
- Bishop, John W. H. Ribbon re-inker. 2,906,389, 9-29-59, Cl. 197-171.
- Bishop, Leonard J., to Mechanical Handling Systems, Inc. Apparatus for mixing and feeding shell molding material. 2,877,524, 3-17-59, Cl. 22-89.
- Bishop, Leonard J., and P. Klamp, to Mechanical Handling Systems, Inc. Mechanically operated power and free conveyor system. 2,868,138, 1-13-59, Cl. 104-88.
- Bishop, Leonard J., and J. H. Barlow, to Mechanical Handling Systems, Inc. Power and free conveyor system. 2,875,703, 3-3-59, Cl. 104-96.
- Bishop, Leonard J., and R. Haase, to Mechanical Handling Systems, Inc. Multiple choke switch mechanism. 2,897,769, 8-4-59, Cl. 104-88.
- Bishop, Lewis H., to The Associated Portland Cement Mfg. Ltd. Cutting and handling machine for cement slurry cake, pug and like materials. 2,874,910, 2-24-59, Cl. 241-95.
- Bishop, Lewis H., and C. G. Lea, to Pierce Specialized Equipment Co. Collating tray and assembly. 2,914,189, 11-24-59, Cl. 211-129.
- Bishop, Ray H. Container with tray lids. 2,897,999, 8-4-59, Cl. 220-29.
- Bishop, Ray H., to Del-Tra Co. Pallet for carrying bread or the like. 2,915,213, 12-1-59, Cl. 220-23.4.
- Bishop, Ronald L., W. D. Jewell, D. Radov, and J. Statsinger, to American Bosch Arma Corp. Gyroscopic devices. 2,896,455, 7-28-59, Cl. 74-5.5.
- Bishop, Walter F., to The Firestone Tire & Rubber Co. Bead seating device for tubeless tires. 2,874,760, 2-24-59, Cl. 157-1.1.
- Biskup, Angel J. Holding bracket. 2,879,962, 3-31-59, Cl. 248-48.1.
- Bislin, Bernhard, to Aktiengesellschaft Brown, Boveri & Cie. Multiple spark gap arrangement for lightning arresters. 2,913,626, 11-17-59, Cl. 315-36.
- Bissell Carpet Sweeper Co.: See—
- Lathrop, Henry T. 2,918,687.
- Liddell, Robert E., Kuypers, and Yonkers. 2,885,700.
- Bissell, Kathleen M. and W. J., executor of the estate of said K. M. Bissell, deceased, to B. H. Marlor and C. L. Maltby. Rake finger construction. 2,883,820, 4-28-59, Cl. 56-400.17.
- Bissell, William J.: See—
- Bissell, Kathleen M. and W. J. 2,883,820.
- Bissey, Jacques. Apparatus for boring tubular work. 2,873,632, 2-17-59, Cl. 77-58.
- Bissinger, Walter J., to Gould & Eberhardt, Inc. Weight-compensating means for precision-shifted members. 2,869,933, 1-20-59, Cl. 308-5.
- Bisterfeld, Karl A., to North American Philips Co., Inc. Support or stay member for parts of the electrode systems of electric discharge tubes. 2,874,209, 2-17-59, Cl. 174-167.
- Bisterfeld & Stoltz: See—
- Osenberg, Werner. 2,882,655.
- Osenberg, Werner. 2,909,417.
- Biswell, Charles B., to E. I. du Pont de Nemours and Co. Process for gelling distillate hydrocarbon fuels. 2,873,178, 2-10-59, Cl. 44-7.
- Bither, Harold A. Multiplex terminal spreader. 2,868,861, 1-13-59, Cl. 174-43.
- Bither, Tom A., Jr., to E. I. du Pont de Nemours and Co. Ternary sulphides, selenides and tellurides of bismuth and thallium and their preparation. 2,893,831, 7-7-59, Cl. 23-50.
- Bitter Co., Inc.: See—
- McDonald, Robert L., and Burzlaff. 2,895,775.
- Bitter, Verner W.: See—
- Van Loo, Maurice, and Bitter. 2,886,456.
- Bitting, Robert C., Jr.: See—
- Crooks, Horatio N., and Bitting. 2,912,493.
- Bittle, Dewey D. Garbage can holder. 2,891,753, 6-23-59, Cl. 248-149.
- Bittle, Harold G.: See—
- Vogel, Henry A., and Bittle. 2,870,116.
- Vogel, Henry A., Bittle, and Christenson. 2,870,117.
- Bittmann, Eric E.: See—
- Ricketts, James B., Jr., Bittmann, and Deutsch. 2,915,740.
- Bittner, Emory M. Car interior snack tray. 2,893,802, 7-7-59, Cl. 311-22.
- Bittner, Fredwill. Fire extinguisher. 2,873,806, 2-17-59, Cl. 169-36.
- Bittner, Friedrich: See—
- Asendorf, Erich, and Bittner. 2,904,400.
- Bittner, Harry E. Bird proofing device. 2,887,730, 5-26-59, Cl. 20-1.
- Bittner, Louis, and A. Wilson. Interchangeable ornamental indoor television antenna. 2,885,673, 5-5-59, Cl. 343-720.
- Bittorf, Irvin, 1/2 to E. Bougher. Fuel metering system. 2,896,852, 7-28-59, Cl. 237-2.
- Bituminous Coal Research, Inc.: See—
- Jamison, Will B., and Derringe. 2,868,526.
- Von Stroh, Gerald F. H., and Bowman. 2,868,527.
- Yellott, John I. 2,916,217.
- Yellott, John I., and Broadley. 2,869,677.
- Yellott, John I., and Broadley. 2,888,804.
- Yellott, John I., and Broadley. 2,911,065.
- Bitzenburger, Henry A. Arrow fletching jig setting gauge. 2,881,531, 4-14-59, Cl. 33-180.
- Bitzenburger, Henry A. Arrow fletching jig. 2,884,968, 5-5-59, Cl. 144-289.
- Bitzer, Gottlob: See—
- Bauer, Kurt P., Bitzer, and Haehnel. 2,898,753.
- Bitzer, Martin: See—
- Deibel, Raymond A., and Bitzer. 2,869,167.
- Riester, William C., and Bitzer. 2,889,818.
- Bitzer, Martin, to Trico Products Corp. Windshield washer. 2,881,959, 4-14-59, Cl. 222-334.
- Bylens, Carl F. Optical lenses. 2,868,075, 1-13-59, Cl. 88-54.
- Bixby, Kenneth R. Screen. 2,893,560, 7-7-59, Cl. 209-394.
- Bixby, Leo A., to Rockwell-Standard Corp. Transmission. 2,890,772, 6-16-59, Cl. 192-3.5.
- Bixby, William H., to Power Equipment Co. Current supply apparatus. 2,903,640, 9-8-59, Cl. 321-19.
- Bixby-Zimmer Engineering Co.: See—
- Rose, Colin G. 2,911,097.
- Bixenman, Ames E. Aquarium display device. 2,872,749, 2-10-59, Cl. 40-37.
- Bizak, Louis D.: See—
- Klamm, Carl E., and Bizak. 2,896,691.
- Bizjak, Stanley. Air deflecting vanes for steering air propelled vehicles. 2,914,013, 11-24-59, Cl. 114-43.
- Bizouard, Paul, and Y. Hardouin, to Compagnie pour la Fabrication des Compteurs et Materiel. Damping device for oscillating members of electro-mechanical apparatus. 2,896,164, 7-21-59, Cl. 324-125.
- Bjalmé, Bengt G., to Reed Mfg. Co. Adjustable cam operated die head. 2,885,698, 5-12-59, Cl. 10-122.
- Bjelland, John L., and F. W. Flynn, to Powers Chemco, Inc. Stop rationer for photoengraving camera. 2,900,869, 8-25-59, Cl. 88-24.
- Bjering, Olav: See—
- Hohl, John, and Bjering. 2,915,029.
- Bjering, Olav, to Owens-Illinois Glass Co. Container closing apparatus. 2,876,606, 3-10-59, Cl. 53-317.
- Bjering, Olav, to Owens-Illinois Glass Co. Container closing apparatus. 2,884,751, 5-5-59, Cl. 53-317.
- Bjerré, Peder, to Massey-Ferguson Inc. Distributor. 2,881,956, 4-14-59, Cl. 222-185.
- Bjorgan, Ovide A. Sewing machine head elevator. 2,909,401, 10-20-59, Cl. 312-30.
- Bjork, John C. H.: See—
- Nilsson, Nils E., Bjork, and Rodnert. 2,886,646.
- Nilsson, Nils E., Bjork, Rodnert, and Jonsson. 2,909,607.
- Nilsson, Nils E., Rodnert, and Bjork. 2,871,290.
- Björklund, Gustaf E. Fasteners. 2,886,354, 5-12-59, Cl. 287-52.
- Björklund, Gustaf E., and S. R. Edvardsson, to Aktiebolaget Dentatus. Cutting device. 2,899,744, 8-18-59, Cl. 30-180.
- Björklund, Anders A. V., K. E. Lindblad, and A. Planfeldt, to Vibro-Plus Corp. Road surface coating breaker having a vibrated roller. 2,874,948, 2-24-59, Cl. 262-19.
- Bjorksten, Johan: See—
- Eisen, John B., Nachtmann, Bjorksten, and Roe. 2,907,626.
- Bjorksten Research Laboratories, Inc.: See—
- Cox, Robert P., and Yaeger. 2,877,207.
- Eisen, John B. 2,902,530.
- Eisen, John B., Nachtmann, Bjorksten, and Roe. 2,907,626.
- Fiedler, William S. 2,895,819.
- Meyer, Earl A. 2,877,164.
- Meyer, Earl A., and Bina. 2,869,761.
- Bjorson, Bjorn G., and E. Bruce, to Bell Telephone Laboratories, Inc. Transistor switching network for communication system. 2,876,285, 3-3-59, Cl. 179-18.
- Blaber, Jane A.: See—
- Holden, Robert B., Powers, and Blaber. 2,905,552.
- Blaber, Oliver J.: See—
- Holden, Robert B., Powers, and Blaber. 2,905,552.
- Blacher, George J.: See—
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- Black, Aubra D.: See—
- Argo, William M. 2,882,529.
- Black-Clawson Co., The: See—
- Corbin, Wesley S., Pearson, and Walden. 2,870,690.
- Corbin, Wesley S., and Walden. 2,888,073.
- Jacobs, Robert J., and Persson. 2,870,738.
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- Phelps, Richard W. 2,901,191.
- Phelps, Richard W. 2,915,255.
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- Wisner, Isle R., Corbin, and Walden. 2,870,692.
- Black & Decker Mfg. Co., The: See—
- Baxter, John C. 2,917,760.
- Lee, Walter. 2,882,596.
- March, Clifton J. 2,874,985.
- Black, Emerson W., and Z. A. Ferrel. Duster. 2,897,776, 8-4-59, Cl. 118-13.
- Black, Geoffrey D., to The British Oxygen Co. Ltd. Valve means. 2,893,381, 7-7-59, Cl. 128-29.
- Black, Isadore E. Automatic dispensing apparatus for dispensing towels, wiping cloths and like articles. 2,901,145, 8-25-59, Cl. 221-34.
- Black, James A. Machine for drying coated sheet stock. 2,907,120, 10-6-59, Cl. 34-216.
- Black, James A. Stenciling machine. 2,917,997, 12-22-59, Cl. 101-126.



- Black, James F.: *See*—  
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- Black, James F., and E. O. Forster, to Esso Research and Engineering Co. Method and apparatus for measuring specific activity of radioactive materials in small quantities. 2,905,825, 9-22-59, Cl. 250-83.
- Black, James G., Jr.: *See*—  
Rayburn, Charles C. and Black. 2,905,744.
- Black, James G., Jr., and C. C. Rayburn, to ACF Industries, Inc. Orienting feeder. 2,914,161, 11-24-59, Cl. 198-33.
- Black, James H., to Reading Anthracite Co. Process for the economic utilization of waste carbonaceous material of fuel ashes; and the resulting products. 2,907,651, 10-6-59, Cl. 75-10.
- Black, James J., to Trailmobile Inc. Connectors for removable cattle racks for vehicles. 2,882,088, 4-14-59, Cl. 296-12.
- Black, James J., W. B. Brian, M. J. Frechie, W. R. Hummel, A. McIlhenny, F. H. Rahe, and R. W. Suman, to American-Hawaiian Steamship Co. Cargo and freight transporting systems. 2,894,650, 7-14-59, Cl. 214-38.
- Black, John F., to Koppers Co., Inc. Method and apparatus for continuous casting of metals. 2,905,989, 9-29-59, Cl. 22-57.3.
- Black, John W., to Pemco Wheel Co. Cart having spring suspended caster wheels. 2,914,340, 11-24-59, Cl. 280-124.
- Black, Lloyd V.: *See*—  
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- Black, Lloyd V., and J. B. Moorhead, to Pittsburgh Plate Glass Co. Apparatus for tempering curved glass sheets. 2,876,592, 3-10-59, Cl. 49-45.
- Black, Louis D., Jr., and S. A. Brown. Mounting for a lighting fixture. 2,898,073, 8-4-59, Cl. 248-317.
- Black, Marion B.: *See*—  
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- Black, Otis D., and L. H. Cutler, to Radio Corp. of America. Method of etching copper. 2,908,557, 10-13-59, Cl. 41-42.
- Black, Paul F., R. H. Gill, and W. J. Le Blanc, to The B. F. Goodrich Co. Method of making hose assembly. 2,916,816, 12-15-59, Cl. 29-507.
- Black Products Co.: *See*—  
Lau, Erwin M. 2,871,891.
- Black, Ralph C. Alternately supportable service tray. 2,880,046, 3-31-59, Cl. 311-22.
- Black, Raymond D., to United States of America, Air Force. Apparatus for processing acoustic damping material. 2,913,838, 11-24-59, Cl. 38-44.
- Black, Richard M., to Teddington Development Corp. Car journal lubricator. 2,914,363, 11-24-59, Cl. 308-88.
- Black, Robert H., J. G. Ross, G. H. Snodderly, S. C. Juran, and F. C. Drahman. Pin-spotting mechanism. 2,879,397, 3-31-59, Cl. 273-43.
- Black, Robert H., J. G. Ross, G. H. Snodderly, S. C. Juran, and F. C. Drahman, 63% to said Black, 21% to said Ross, 8% to said Snodderly, 4% to said Juran, and 4% to said Drahman. Bowling pin transfer mechanism. 2,890,050, 6-9-59, Cl. 273-43.
- Black, Robert P. S.: *See*—  
Ritter, David M., and Black. 2,906,597.
- Black, Robert S., and J. S. Carroll. Roll type glue spreaders, surface coaters, and the like. 2,881,731, 4-14-59, Cl. 118-1.
- Black, Robert S., and J. S. Carroll. Roll type glue spreaders, surface coaters, and the like. 2,912,960, 11-17-59, Cl. 118-5.
- Black, Sherman A.: *See*—  
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- Black, Sivalis & Bryson, Inc.: *See*—  
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- Coffman, Robert S. 2,868,412.
- Coffman, Robert S. 2,875,921.
- Coffman, Robert S. 2,880,070.
- Coffman, Robert S. 2,889,071.
- Coffman, Robert S. 2,915,216.
- Ellis, George O. 2,884,860.
- Hansen, Franklin A., and Boetjer. 2,872,938.
- Leusler, Wayne E., Wood and Teal. 2,868,313.
- Leusler, Wayne E., Wood and Teal. 2,868,314.
- Mitchell, Kenneth G., McMinn, and Laurence. 2,909,905.
- Valliant, Charles B., and Scheirman. 2,910,136.
- Black, Starr & Gorham: *See*—  
Tarleton, Howard A., and Rothrock. 2,897,958.
- Black, Thomas R. Hydraulic valve. 2,919,101, 12-29-59, Cl. 251-25.
- Black, William A., deceased; M. B. Black, executrix, to General Time Corp. Coded signal receiver. 2,909,762, 10-20-59, Cl. 340-164.
- Black, William B., and H. G. Clark, to The Chemstrand Corp. Carbon disulfide activation in pyrrolidone polymerization. 2,912,415, 11-10-59, Cl. 260-78.
- Black, William J., to Curtiss-Wright Corp. Child's toilet training seat. 2,880,786, 4-7-59, Cl. 155-131.
- Black, William J., to Curtiss-Wright Corp. Wheel cover with locking devices. 2,902,316, 9-1-59, Cl. 301-37.
- Black, William T.: *See*—  
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- Bailey, Donald L., and Black. 2,868,826.
- Blackadder, Robert L. S., J. R. M. Vaughan, and P. Young, to Electric & Musical Industries Ltd. High frequency transmitting windows. 2,883,631, 4-21-59, Cl. 333-98.
- Blackburn, Robert W.: *See*—  
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- Blackburn, Alan B., to General Motors Corp. Valve actuating means. 2,912,008, 11-10-59, Cl. 137-623.
- Blackburn, Alan B., J. R. Kessler, R. B. Skinner, and J. H. Smith, to General Motors Corp. Air driven propeller and governor therefor. 2,876,847, 3-10-59, Cl. 170-68.
- Blackburn, Andrew R., and R. E. Steele, to Ram Inc. Method and apparatus for molding and hardening articles. 2,882,569, 4-21-59, Cl. 22-193.
- Blackburn, Charles M., to American Cyanamid Co. Apparatus for dispensing material. 2,919,160, 12-29-59, Cl. 302-57.
- Blackburn, Glen G., to The Berst Corp. Method for interlaminating cementing cartons and laminates. 2,885,840, 5-12-59, Cl. 53-22.
- Blackburn, Jasper, Corp.: *See*—  
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- Blackburn, Luther A. Multiple cylinder, elastic fluid counter-balanced pump jack. 2,902,884, 9-8-59, Cl. 74-589.
- Blackburn, Mack O., to General Motors Corp. Shot peening apparatus. 2,900,765, 8-25-59, Cl. 51-9.
- Blackburn, Richard E., to Container Corp. of America. Paper board case. 2,876,945, 3-10-59, Cl. 229-45.
- Blackford, Benjamin, Jr.: *See*—  
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- Blackford, Benjamin B., to Johnson & Johnson. Process for treating sheet material. 2,882,179, 4-14-59, Cl. 117-47.
- Blackford, Benjamin B., to Johnson & Johnson. Adhesive-coated fabrics. 2,909,278, 10-20-59, Cl. 206-59.
- Blackford, Benjamin B., and G. W. McLaren, Jr., to Johnson & Johnson. Adhesive tape with convolutions tensioned under predetermined program. 2,876,893, 3-10-59, Cl. 206-59.
- Blackford, Stephen H., to International Business Machines Corp. Apparatus for the magnetic recording of data. 2,919,431, 12-29-59, Cl. 340-174.
- Blackhawk Instrument Co.: *See*—  
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- Blackhawk Mfg. Co.: *See*—  
Flessate, Clarence L. 2,871,908.
- Goehrig, George H., Jr., and Southerwick. 2,909,367.
- Hayman, Dennis J. 2,914,369.
- Holt, Clare E. 2,867,087.
- Southerwick, Harold I. 2,867,409.
- Southerwick, Harold I. 2,867,310.
- Southerwick, Harold I. 2,909,358.
- Stovern, Ingram V., and Vallee. 2,895,712.
- Traupmann, Raymond J. 2,867,261.
- Blackhurst, George B., to The British Oxygen Co. Ltd. Electric arc welding. 2,916,654, 12-8-59, Cl. 314-61.
- Blackler, Francis G.: *See*—  
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- Blacklock, Kenneth A.: *See*—  
Howlett, John W., and Blacklock. 2,893,796.
- Blackman, Arthur W., Jr.: *See*—  
Lewis, George D., and Blackman. 2,911,788.
- Blackman, Arthur W., Jr., and G. D. Lewis, to United Aircraft Corp. Rotating flameholder. 2,911,791, 11-10-59, Cl. 60-39.72.
- Blackman, Arthur W., Jr., and E. H. Diamond, to United Aircraft Corp. Flameholder with boundary layer control. 2,912,825, 11-17-59, Cl. 60-39.72.
- Blackman, Calvin C., to Lee Wilson. Method of and apparatus for heating coils of metal rod, wire or the like. 2,875,997, 3-3-59, Cl. 263-40.
- Blackman, Calvin C., to L. Wilson. Oil burner. 2,903,051, 9-8-59, Cl. 158-28.
- Blackman, Keith, Ltd.: *See*—  
Taynor, Ernest E. 2,902,047.
- Blackman, Paul R., and W. B. Moon, to Air Reduction Co., Inc. Concentric-hopper batch-feeder. 2,891,782, 6-23-59, Cl. 266-34.
- Blackman, Reed J. Fan-type insect catching device. 2,883,790, 4-28-59, Cl. 43-113.
- Blackman, Seymour N., to Omega Precision Medical Instrument Co., Inc. Hypodermic syringes. 2,874,694, 2-24-59, Cl. 128-218.
- Blackman, Vernon H.: *See*—  
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- Blackmer, Suzanne K.: *See*—  
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- Blackmore, Fred N., to Plastiform Co. Plastic boat. 2,866,985, 1-6-59, Cl. 9-6.
- Blackshear, Roy S. Desk telephone stand. 2,886,275, 5-12-59, Cl. 248-175.
- Blackstone and Co. Ltd.: *See*—  
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- Blackstone Corp.: *See*—  
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- Murdoch, Alexander, Jr. 2,874,316.
- Blackstone, Henry, to Servo Corp. of America. Optical scanner for determining velocity altitude. 2,878,711, 3-24-59, Cl. 88-1.
- Blackstone, Henry, to Servo Corp. of America. Optical scanner for determining velocity-altitude. 2,878,713, 3-24-59, Cl. 88-1.
- Blackstone, Henry, to Servo Corp. of America. Radiant energy ground-clearance meter. 2,882,783, 4-21-59, Cl. 88-1.



- Blackstone, Henry, to Servo Corp. of America. Scanning mechanism. 2,914,608, 11-24-59, Cl. 178-6.8.
- Blackstone, Henry, and F. G. Willey, to Servo Corp. of America. Airborne scanner for determining V/H rate. 2,878,712, 3-24-59, Cl. 88-1.
- Blackwell, Alexander L.: *See*—  
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- Blackwell, Dana J., and E. F. Zawacki, to Lewis Engineering Co. Illuminated meter. 2,874,671, 2-24-59, Cl. 116-129.
- Blackwell, Dana J., and E. F. Zawacki, to Lewis Engineering Co. Illuminated indicator means and instrument. 2,914,021, 11-24-59, Cl. 116-129.
- Blackwell, Richard L. Cigarette holder. 2,910,074, 10-27-59, Cl. 131-257.
- Blackwell, Stephen R.: *See*—  
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- Blackwood, Noah L. Plow sweep. 2,877,061, 3-10-59, Cl. 306-1.6.
- Blaes, Viggo A. Automatic tape threading device. 2,891,736, 6-23-59, Cl. 242-55.12.
- Blaess, A. Albert, to Minnesota Mining and Mfg. Co. Packaging material. 2,895,270, 7-21-59, Cl. 53-21.
- Blagg, Leon. Soap holder. 2,891,348, 6-23-59, Cl. 45-28.
- Blaha, Emil, to Selas Corp. of America. Radiant cup type gas burner. 2,904,108, 9-15-59, Cl. 158-113.
- Blahnik, Carl E. Gas actuated guns. 2,881,752, 4-14-59, Cl. 124-11.
- Blain, Albert: *See*—  
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- Blain, Albert. Record playing devices. 2,878,024, 3-17-59, Cl. 274-10.
- Blain, Albert, to Sperry Rand Corp. Paper stacking guides. 2,906,527, 9-29-59, Cl. 270-61.
- Blain, Albert, H. F. Welsh, L. D. Wilson, F. Reed, S. Meyer, and E. O. Roggenstein, to Sperry Rand Corp. Machine for recording on magnetic tape. 2,874,369, 2-17-59, Cl. 340-174.
- Blain, Albert, H. F. Welsh, L. D. Wilson, and F. Reed, to Sperry Rand Corp. Tape unit. 2,914,264, 11-24-59, Cl. 242-55.12.
- Blaine, Alfred C., to G. Miller. Child's chores recorder for producing incentive. 2,883,765, 4-28-59, Cl. 35-23.
- Blainey, Alan, to United States of America, Atomic Energy Commission. Production of sheet from particulate material. 2,886,433, 5-12-59, Cl. 75-214.
- Blainey, Alan, to United States of America, Atomic Energy Commission. Thermal fission reactor compositions and method of fabricating same. 2,907,705, 10-6-59, Cl. 204-193.2.
- Blair, Bertrand J.: *See*—  
Light, Douglas J. N., and Blair. 2,907,463.
- Blair, Boyd C., to F. M. Brackett, d. b. a. Brackett Stripping Machine Co. Method of packaging boards and package thereof. 2,873,852, 2-17-59, Cl. 206-60.
- Blair, Charles M., Jr.: *See*—  
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- Blair, Edgar A., to The Weisbach Corp. Process for producing aromatic carbonyl compounds and peroxide compounds. 2,916,499, 12-8-59, Cl. 260-340.5.
- Blair, Eteyl H.: *See*—  
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- Britton, Edgar C., Blair, and Tolkmith. 2,891,085.
- Tolkmith, Henry Blair, Kauer, and Britton. 2,887,506.
- Blair, Eteyl H., to The Dow Chemical Co. Method for the manufacture of O-aryl O,O-di-(lower-alkyl) phosphorothioates. 2,887,505, 5-19-59, Cl. 260-461.
- Blair, Eteyl H., H. R. Slagb, and E. C. Britton, to The Dow Chemical Co. Bis-phosphoroamidithioates. 2,870,189, 1-20-59, Cl. 260-461.
- Blair, Eteyl H., K. C. Kauer, and E. C. Britton, to The Dow Chemical Co. Method for the preparation of O-aryl phosphoroamidithioates. 2,875,233, 2-24-59, Cl. 250-461.
- Blair, John W., to Bendix Aviation Corp. Automatic braking device. 2,910,327, 10-27-59, Cl. 303-63.
- Blair, John W., and M. L. Cripe, to Bendix Aviation Corp. Automatic braking device. 2,871,065, 1-27-59, Cl. 303-31.
- Blair, Madeline E. Boudoir cap. 2,889,557, 6-9-59, Cl. 2-174.
- Blair, Madeline E. Attachment for a hat. 2,897,511, 8-4-59, Cl. 2-185.
- Blair, Robert C., to The British Plaster Board Holdings Ltd. Manufacture of cellular structures. 2,870,694, 1-27-59, Cl. 93-37.
- Blair, Royer R., and J. R. Harris, to Bell Telephone Laboratories, Inc. Non-saturating junction-transistor circuits. 2,887,542, 5-19-59, Cl. 179-171.
- Blair, Samuel, Jr., to Velve-ray Corp. Cylindrical screen printing system. 2,906,201, 9-29-59, Cl. 101-116.
- Blair, Winton B., to Schlumberger Well Surveying Corp. Firing system for electrically detonated borehole equipment. 2,871,784, 2-3-59, Cl. 102-21.6.
- Blair, William E.: *See*—  
Moore, David W., and Blair. 2,901,741.
- Blais, Joseph L., to Tricnit Hosiery Mill. Circular knitting machine. 2,872,795, 2-10-59, Cl. 66-40.
- Blais, Joseph L., to Tricnit Hosiery Mills, Inc. Float trimmer for circular hosiery. 2,915,803, 12-8-59, Cl. 26-11.
- Blais, Maurice E., to Raytheon Mfg. Co. Transistor assemblies. 2,882,464, 4-14-59, Cl. 317-235.
- Blaisdell Pencil Co.: *See*—  
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- Blaisdell, Sidney B., to Edmands Co. Wire twisting machine. 2,877,620, 3-17-59, Cl. 57-58.34.
- Blaisdell, William H.: *See*—  
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- Blaisse, Berndt S., to N. V. Optische Industrie "De Oude Delft." Panoramic camera. 2,879,703, 3-31-59, Cl. 95-16.
- Blake, Charles B., and R. S. Cady, to Scovill Mfg. Co. Wire coiling machine. 2,900,073, 8-18-59, Cl. 205-16.
- Blake, Edward S., and W. C. Hammann, to Monsanto Chemical Co. Dicarboxylate esters of alcohol containing a quaternary carbon in the 8-position. 2,889,354, 6-2-59, Cl. 260-468.
- Blake, Francis G., and G. A. Schurman, to California Research Corp. Apparatus for combining seismic signals. 2,888,663, 5-26-59, Cl. 340-15.
- Blake, James C., E. F. Deady, and J. R. Haske, to United States of America, Army. Container cleaning machine. 2,910,077, 10-27-59, Cl. 134-168.
- Blake, Leslie R., to British Thomson-Houston Co. Ltd. Dynamo-electric machines. 2,905,089, 9-22-59, Cl. 103-1.
- Blake, Neal A., to International Telephone and Telegraph Corp. Blanking system. 2,911,469, 11-3-59, Cl. 178-7.2.
- Blake, Norman, and W. S. Shore, to E. I. du Pont de Nemours and Co. Composition of matter comprising a sulfur dioxide containing solution of a polyamide. 2,919,257, 12-29-59, Cl. 260-30.8.
- Blake, Ralph K., and F. P. Alles, to E. I. du Pont de Nemours and Co. Photographic elements. 2,887,379, 5-19-59, Cl. 96-82.
- Blake, Richard F.: *See*—  
Ware, Colin C., Blake, and Demers. 2,899,566.
- Blake, Robert W.: *See*—  
Jurs, Peter C., Van Overveen, and Blake. 2,869,239.
- Blake, William J. Safety seat for automobiles. 2,900,036, 8-18-59, Cl. 180-82.
- Blakely, John W. Electric universal joint with unitary locking means. 2,887,329, 5-19-59, Cl. 285-168.
- Blakely, Robert T., and D. C. Sprong. Electronic accumulator. 2,892,589, 6-30-59, Cl. 235-173.
- Blancato, Virgil. Marine pier fender. 2,892,315, 6-30-59, Cl. 61-48.
- Blanchard, Andre, to Schlumberger Well Surveying Corp. Electrical resistivity well logging methods and apparatus. 2,872,637, 2-3-59, Cl. 324-1.
- Blanchard, Andre, to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 2,903,070, 9-8-59, Cl. 166-100.
- Blanchard, Andre, and J. B. Shore, to Borg-Warner Corp. Apparatus for detonating shaped explosive charges. 2,908,222, 10-13-59, Cl. 102-20.
- Blanchard, Donn C. Supporting means for awning shutters. 2,873,487, 2-17-59, Cl. 20-57.5.
- Blanchard, Louis, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de St. Gobain, Chauny & Cirey. Stabilizing sulphuric anhydride. 2,872,290, 2-3-59, Cl. 23-174.
- Blanchard, Paul D.: *See*—  
Hoyt, Leo E., and Blanchard. 2,889,869.
- Blanchard, Thomas R., to American Cyanamid Co. Method of recovering thiocyanate solutions. 2,871,093, 1-27-59, Cl. 23-75.
- Blanchard, Wallace Jr., to General Motors Corp. Propeller cuff assembly. 2,893,496, 7-7-59, Cl. 170-159.
- Blanchet, Andre F. M., and J. G. A. M. J. Meyer, to SATAM-Societe Anonyme Pour Tous Appareillages Mecaniques. Apparatus for metering and dispensing liquid mixtures. 2,898,002, 8-4-59, Cl. 222-26.
- Blanchette, Albert G., and V. G. Ristvedt, to Brandt Automatic Cashier Co. Coin sorter. 2,906,276, 9-29-59, Cl. 133-3.
- Blanchette, Joseph A., to Monsanto Chemical Co. Hydroxylated polystyrenes. 2,915,511, 12-1-59, Cl. 260-93.5.
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- Blanchi, Serge, and R. Lacour. Method and means for producing reinforced plastic structures. 2,887,721, 5-26-59, Cl. 18-14.
- Blank, Albert A.: *See*—  
Belsky, Fred J., and Blank. 2,879,861.
- Blanco, Elias: *See*—  
Evans, William I., and Blanco. 2,905,212.
- Blanco, Elias, to Daystrom, Inc. Adjustable potentiometer. 2,880,293, 3-31-59, Cl. 201-48.
- Blanco, Elias, to Daystrom, Inc. Potentiometer contactor. 2,896,185, 7-21-59, Cl. 338-202.
- Blanco, Pauline M. Slide fastener actuator. 2,908,057, 10-13-59, Cl. 24-3.
- Blanco, Raymond E., to United States of America, Atomic Energy Commission. Barium recovery process. 2,895,798, 7-21-59, Cl. 23-102.
- Blancq-Cazaux, Armando: *See*—  
Piazze, Thomas E., and Blancq-Cazaux. 2,888,046.
- Bland, Julius, and E. D. McKeague, to Standard Oil Co. Welded aluminum coated tubular member and method of making same. 2,895,747, 7-21-59, Cl. 285-21.



- Bland, Thomas W., and L. A. O'Brien. Parallel detector fire alarm system. 2,867,793, 1-6-59, Cl. 340-227.
- Blanding, Forrest H., to Esso Research and Engineering Co. Hydrocarbon conversion process. 2,895,901, 7-21-59, Cl. 208-73.
- Blanding, Leonard C., to Lear, Inc. Miniature slip ring and brush assembly. 2,874,362, 2-17-59, Cl. 339-5.
- Blanding, Wendell S., and F. Zimar, to Corning Glass Works. Coating apparatus. 2,880,697, 4-7-59, Cl. 118-320.
- Blaney, Arthur C., to Radio Corp. of America. Constant wavelength control tone system. 2,885,491, 5-5-59, Cl. 179-100.3.
- Blankenbaker, John V., to Hughes Aircraft Co. Result-from-carry adder-subtractors. 2,892,587, 6-30-59, Cl. 235-164.
- Blankenbaker, John V., and R. R. Johnson, to Hughes Aircraft Co. Multiple input binary adder-subtractors. 2,888,202, 5-26-59, Cl. 235-61.
- Blankenbuehler, John H.: *See*—  
Hobart, Edward A., Schober, and Blankenbuehler. 2,882,478.
- Blankenbuehler, John H., to The Hobart Brothers Co. Method and apparatus for welding. 2,910,640, 10-27-59, Cl. 321-8.
- Blankenship, Ernest B., and R. E. Goree. Quick acting incinerator sanitary closet. 2,903,709, 9-15-59, Cl. 4-131.
- Blankevoort, D., & Zoon N.V.: *See*—  
Blankevoort, Dirk. 2,906,402.
- Blankevoort, Dirk, to D. Blankevoort & Zoon N.V. Apparatus for the continuous drainage of wet sand. 2,906,402, 9-29-59, Cl. 210-400.
- Blanks, Henry S., to Marconi's Wireless Telegraph Co. Ltd. Processes for the manufacture of alloy type semiconductor rectifiers and transistors. 2,887,417, 5-19-59, Cl. 148-1.5.
- Blanks, Richard H., Jr.: *See*—  
Blanks, Richard H., Sr. and R. H. Blanks, Jr. 2,908,507.
- Blanks, Richard H., Sr. and R. H. Blanks, Jr. Toe-in change corrector. 2,908,507, 10-13-59, Cl. 280-95.
- Blann, William A., to American Cyanamid Co. Sugar purification with ion exchangers. 2,911,329, 11-3-59, Cl. 127-46.
- Blanton, Jack W., and I. S. Zonis, to National Research Corp. Production of chemicals. 2,890,949, 6-16-59, Cl. 75-1.
- Blanton, John M.: *See*—  
James, Henry A. 2,868,137.
- Blanz, Kurt, to Krauss & Reichert, Spezialmaschinenfabrik und Apparatebau. Electric motor drive. 2,879,416, 3-24-59, Cl. 310-77.
- Blasbalg, Herman L., to United States of America, Air Force. Radio receiver having modulation indicator operated by automatic gain control bias and demodulated signal. 2,900,499, 8-18-59, Cl. 250-20.
- Blasdel, Howard C. Slidable jaw-face, open-end wrench. 2,879,681, 3-31-59, Cl. 81-179.
- Blase, Edwin W., to Chas. Pfizer & Co., Inc. Antibiotic purification and complex compounds. 2,873,276, 2-10-59, Cl. 260-295.
- Blaser, Bruno: *See*—  
Raecke, Bernhard, Blaser, and Schirp. 2,906,774.  
Raecke, Bernhard, Blaser, Schirp, and Stein. 2,891,992.  
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- Blaser, Bruno, and W. J. Kaiser, to Henkel & Cie. G.m.b.H. Acid esters of acyl-phosphorous acids and method of making the same. 2,900,408, 8-18-59, Cl. 250-461.
- Blaser, Bruno, and W. J. Kaiser, to Henkel & Cie. G.m.b.H. Process for the purification of terephthalic acid esters. 2,912,457, 11-10-59, Cl. 260-475.
- Blaser, Bruno, W. Stein, and H. Schütt, to Henkel & Cie. G.m.b.H. Process for the production of aromatic carboxylic acids which may be substituted by sulfonic acid groups. 2,913,488, 11-17-59, Cl. 260-507.
- Blaser, Robert U., and M. Christensen, to The Babcock & Wilcox Co. Welded and bolted closure for high pressure vessel. 2,896,811, 7-28-59, Cl. 220-63.
- Blash, Joseph A., to Eastman Kodak Co. Lens cleaning apparatus. 2,874,395, 2-24-59, Cl. 15-21.
- Blashfield, William H., to North Electric Co. Telephone call surveying equipment. 2,875,286, 2-24-59, Cl. 179-175.2.
- Blashfield, William H., to North Electric Co. Battery charger apparatus. 2,875,395, 2-24-59, Cl. 321-19.
- Blashfield, William H., to North Electric Co. Automatic telephone system. 2,897,278, 7-28-59, Cl. 179-18.
- Blashfield, William H., J. E. Callender, and B. A. Harris, to North Electric Co. Automatic telephone system. 2,905,764, 9-22-59, Cl. 179-8.
- Blasius, Herman J., and R. G. Reichle, to American Wilbert Vault Corp. Multiple tier concrete grave box construction. 2,913,895, 11-24-59, Cl. 72-7.
- Blaski, John F.: *See*—  
Schaub, Lisle C., and Blaski. 2,887,192.
- Blaskowski, Henry J., to Combustion Engineering, Inc. Method and apparatus for recuperative heat exchange. 2,895,719, 7-21-59, Cl. 257-245.
- Blatherwick, Delbert T., to Robertson Photo-Mechanix, Inc. Vacuum film support. 2,895,706, 7-21-59, Cl. 248-363.
- Blatt, Lee N., W. P. Peyser, and S. Lapidus, to Bogart Mfg. Corp. Dummy load for microwaves. 2,908,875, 10-13-59, Cl. 333-22.
- Blatt, Paula. Girdle anchor. 2,891,253, 6-23-59, Cl. 2-313.
- Blatt, Paula. Thigh molder. 2,891,549, 6-23-59, Cl. 128-524.
- Blatt, Paula. Maternity girdle and garter supporter. 2,891,550, 6-23-59, Cl. 128-535.
- Blatt, Paula. Abdomen-supporting means and garter belt. 2,891,551, 6-23-59, Cl. 128-535.
- Blatt, Paula. Girdle anchor. 2,904,793, 9-22-59, Cl. 2-313.
- Blatt, Paula. Girdle anchor. 2,905,179, 9-22-59, Cl. 128-530.
- Blatt, Ralph E., to Kenco Chemical Co. Candle. 2,918,750, 12-29-59, Cl. 43-125.
- Blattel, Alfred, and M. E. Duchoviner, to Raytheon Co. Electronic tube assembly jigs. 2,919,128, 12-29-59, Cl. 269-123.
- Blatter, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Voltage regulation arrangement for contact converters. 2,895,101, 7-14-59, Cl. 321-48.
- Blattner, Elizabeth: *See*—  
Blattner, Emil H. 2,913,288.
- Blattner, Emil H., to The Symington-Gould Corp. Railway truck. 2,867,177, 1-6-59, Cl. 105-203.
- Blattner, Emil H., to Symington Wayne Corp. Draft rigging. 2,880,888, 4-7-59, Cl. 213-64.
- Blattner, Emil H., to The Symington-Gould Corp. Railway draft gear. 2,884,140, 4-28-59, Cl. 213-45.
- Blattner, Emil H., to The Symington-Gould Corp. Draft rigging. 2,884,142, 4-28-59, Cl. 213-60.
- Blattner, Emil H., to The Symington-Gould Corp. Coupler support. 2,884,143, 4-28-59, Cl. 213-61.
- Blattner, Emil H., to Symington Wayne Corp. Rubber cushioning unit. 2,889,056, 6-2-59, Cl. 213-40.
- Blattner, Emil H., to Symington Wayne Corp. Draft mechanism. 2,897,980, 8-4-59, Cl. 213-32.
- Blattner, Emil H., to Symington Wayne Corp. Draft gears. 2,897,981, 8-4-59, Cl. 213-45.
- Blattner, Emil H., deceased; E. Blattner, executrix, to Symington Wayne Corp. Resilient side bearings. 2,913,288, 11-17-59, Cl. 308-138.
- Blattner, Karl, to Faber & Schleicher Akt. Stacking device for sheet printing machines. 2,878,017, 3-17-59, Cl. 271-79.
- Blatz Brewing Co.: *See*—  
Murtaugh, Justin J., Lavrich, Ruff, Krueck, and Grant. 2,898,209.
- Blatz, Peter A., 1/2 each to E. B. Jenkins, M. B. Simon, and E. B. Kane. Feed bar for soft leather working machine. 2,909,008, 10-20-59, Cl. 51-78.
- Blatz, Philip S., to E. I. du Pont de Nemours and Co. Coated polymeric thermoplastic dielectric film. 2,870,044, 1-20-59, Cl. 117-138.8.
- Blatz, Philip S., to E. I. du Pont de Nemours and Co. Coated polymeric thermoplastic dielectric film. 2,875,098, 2-24-59, Cl. 117-138.8.
- Blau, James B. Self-shedding downspout shield for eaves troughs. 2,875,712, 3-3-59, Cl. 108-30.
- Blauer, Maurice. Combination raincoat pouch and garrison hat rain cover. 2,880,422, 4-7-59, Cl. 2-187.
- Blaum, Ott-Heinrich, to Licentia Patent-Verwaltungs-G. m. b. H. Rapid braking arrangement for forward-and-reverse drives. 2,872,002, 2-3-59, Cl. 192-21.5.
- Blaupunkt-Werke, G.m.b.H.: *See*—  
Fanslau, Werner, and Carstensen. 2,914,404.
- Blaustein, Aaron, to Fairchild Camera and Instrument Corp. Wiper contact for variable resistance devices. 2,876,320, 3-3-59, Cl. 201-48.
- Blauvelt, Ralph C., and T. J. Eppele, to Thompson Products, Inc. Rotation control system. 2,872,631, 2-3-59, Cl. 318-28.
- Blauvelt, Roland G.: *See*—  
Henkel, Harvey L., and Blauvelt. 2,887,965.
- Blaw-Knox Co.: *See*—  
Bearer, Henry P., Jr. 2,902,707.  
Griffin, Harry L. 2,893,871.  
Hibner, De Los E., Jr., and Humphrey. 2,883,694.  
Montgomery, Duncan B., and Moore. 2,891,045.  
Moore, George E. 2,892,366.  
Ornitz, Nathaniel B. 2,897,557.  
Plas, Ralph J. 2,888,864.  
Pottmeyer, Edward W. 2,891,567.  
Robinson, George L. Re. 2,846,06.  
Rodder, William. 2,905,243.  
Schuetz, James W. 2,896,796.
- Blaylock, Thomas: *See*—  
Martin, Charles G. 2,913,296.
- Blazek, Ronald R. Work-holding device having plungers actuated by hydraulic fluid composed of a fusible alloy. 2,882,771, 4-21-59, Cl. 81-38.
- Blazek, William J., and C. D. Hillis, to Lemco Products, Inc. Laminated solid wall bearing retainer and method of making the same. 2,875,005, 2-24-59, Cl. 308-201.
- Blazek, William J., and J. J. Strnad, to Lemco Products, Inc. Method of producing a ball-bearing assembly. 2,897,582, 8-4-59, Cl. 29-148.4.
- Bleacher's Association Ltd.: *See*—  
Parker, Charles S., and Melville. 2,890,515.  
Parker, Charles S., and Melville. 2,905,999.
- Bleakney, Robert M., and E. J. Workman, to United States of America, Navy. Switch. 2,903,534, 9-8-59, Cl. 200-61.08.
- Bleaney, Paul, to A. B. Mould and Construction Co. Ltd. Mechanically operated shovels or scrapers. 2,869,843, 1-20-59, Cl. 259-164.
- Blease, Malcolm T., to Grinnell Corp. Insulating mounting for bar conductor. 2,913,516, 11-17-59, Cl. 174-171.
- Bleazey, John C., to Radio Corp. of America. Variable capacitor. 2,913,644, 11-17-59, Cl. 317-249.



- Blecha, Joseph C. Device for determining the location and angle of dowel-receiving holes in furniture and cabinet construction. 2,903,920, 9-15-59, Cl. 77-62.
- Blecher, Franklin H., to Bell Telephone Laboratories, Inc. Interlaced feedback amplifier. 2,909,623, 10-20-59, Cl. 179-171.
- Blechner, Charles: *See*—
- Benfield, James W., and Blechner. 2,911,722.
- Bleck, Max E., to Stanley Aviation Corp. Leg retraction and restraining device for aircraft ejection seat. 2,904,286, 9-15-59, Cl. 244-122.
- Blecker, Ray H.: *See*—
- Petersen, John S., and Blecker. 2,869,619.
- Petersen, John S., and Blecker. 2,869,622.
- Bleckmann, Richard. Flange assembly. 2,905,801, 9-22-59, Cl. 219-38.
- Blees, William A., to Sacket Sporting Goods Co. Ball catcher. 2,895,737, 7-21-59, Cl. 273-26.
- Bleibtreu, Hermann. Running gear for railroad vehicle. 2,915,020, 12-1-59, Cl. 105-4.
- Bleibtreu, Hermann. Railway truck. 2,915,021, 12-1-59, Cl. 105-197.1.
- Bleich, Leon, to Esso Research and Engineering Co. Process for the preparation of high octane number fuels. 2,909,583, 10-20-59, Cl. 260-683.73.
- Bleich, Leon, H. G. Codet, and C. E. Hemminger, to Esso Research and Engineering Co. Isomerization process. 2,909,582, 10-20-59, Cl. 260-683.73.
- Bleicher, William, to Trim-Master Corp. Mechanism for operating on tubular blanks. 2,873,704, 2-17-59, Cl. 112-2.
- Blench, Ronald O., to E. Griffiths Hughes Ltd. Process for the production of a coffee extract in the form of a dry powder. 2,918,372, 12-22-59, Cl. 99-71.
- Bless, Harold, to United States of America, Navy. Friction brake for catapults. 2,894,606, 7-14-59, Cl. 183-62.
- Bletcher, James H.: *See*—
- Bletcher, Ralph E., and Ward. 2,875,702.
- Bletcher, Pearl W.: *See*—
- Bletcher, Ralph E., and Ward. 2,875,702.
- Bletcher, Ralph E., and I. A. Ward, assors. of small percentages to various assignees. Diverter valve for a shower installation. 2,867,230, 1-6-59, Cl. 137-119.
- Bletcher, Ralph E., and I. A. Ward, 5% to R. E. Bletcher, 12½% to E. H. Bucknell, 12½% to M. Bucknell, 10% to P. W. Bletcher, 25% to M. B. Liston, 10% to J. H. Bletcher, 10% to H. B. Skinner, 8% to C. R. B. Robertson, 2% to F. K. Robertson, and 5% to J. H. Bletcher, as trustee. Combination fixture. 2,875,702, 3-3-59, Cl. 103-262.
- Bletcher, Ralph E., and I. A. Ward, small percentages to various assignees. Spout fitting. 2,894,695, 7-14-59, Cl. 239-443.
- Bletzinger, John C.: *See*—
- Harwood, Kenneth J., Mayo, and Bletzinger. 2,902,037.
- Bletzinger, John C., and W. U. Day, to Kimberly-Clark Corp. Sanitary napkin. 2,902,038, 9-1-59, Cl. 128-290.
- Blauenstein, Julius M., to Ford Motor Co. Shell molding. 2,876,512, 3-10-59, Cl. 22-193.
- Blew, William R., Jr.: *See*—
- Rogers, Russell H., Jr., and Blew. 2,890,232.
- Blewett, Guy C., W. K. McCoy, and B. R. Walsh, to Gulf Oil Corp. Fluid proportioning apparatus. 2,883,996, 4-28-59, Cl. 137-100.
- Bley, Rudolph S., to Beaunit Mills, Inc. Yarn crimping apparatus. 2,908,961, 10-20-59, Cl. 28-62.
- Bley, Rudolph S., to Beaunit Mills, Inc. Yarn crimping apparatus. 2,910,761, 11-3-59, Cl. 28-62.
- Bley, Rudolph S., R. H. Carter, D. J. Edgar, L. R. Graybeal, and K. M. Schmidt, to North American Rayon Corp. Process and apparatus for the continuous production of synthetic thread. 2,893,627, 8-11-59, Cl. 18-8.
- Bley, William G., to Scott & Williams, Inc. Looping machines and methods, and in knitted fabrics seamed thereby. 2,871,806, 2-3-59, Cl. 112-25.
- Blicharz, Mitchell S.: *See*—
- Fox, Sidney M., Blicharz, and Winterbottom. 2,875,247.
- Blicke, Frederick F., to The Regents of University of Michigan. Alkamine esters of  $\alpha$ -( $\Delta$ -cycloalkenyl)- $\beta$ -hydroxy-aliphatic acids and preparation thereof. 2,889,353, 6-2-59, Cl. 260-468.
- Blickman, Johannes, and G. L. Weamer, to California Research Corp. Process for preparing sulfur compounds. 2,878,243, 3-17-59, Cl. 260-139.
- Blizard, Erling J., and R. H. Racca, to Textron Inc. Airplane engine suspension and mounts therefor. 2,891,743, 6-23-59, Cl. 248-5.
- Blight, Dennis J.: *See*—
- Sharp, Leonard W. D., and Blight. 2,874,253.
- Blk, Rudolf, Elektrische Apparaten-en Metaalwarenfabriek N. V.: *See*—
- Barel, Cornelis. 2,870,468.
- Blish, Lorn J. Shirt collar. 2,903,703, 9-15-59, Cl. 2-137.
- Bliss, Carl M., to Sta-Rite Products, Inc. Valve for direct pressure shallow well pumping system. 2,911,916, 11-10-59, Cl. 103-25.
- Bliss, Charles A., and A. C. Fantz, Jr., to Foster Wheeler Corp. Composite firebrick. 2,908,157, 10-13-59, Cl. 72-36.
- Bliss, Charles O. Dish drainer. 2,885,087, 5-5-59, Cl. 211-41.
- Bliss, Charles O. Containers. 2,885,107, 5-5-59, Cl. 220-17.
- Bliss, E. W., Co.: *See*—
- Crane, Edward V., Curtner, and Fehn. 2,911,080.
- Curtner, Richard L. 2,893,530.
- Fehn, Frank P. 2,912,606.
- Hadley, Robert W. 2,886,155.
- Hadley, Robert W. 2,893,529.
- McCaffrey, Leo F. 2,890,609.
- Potter, Robert. 2,877,821.
- Bliss, Harvey N., to Veeder-Root, Inc. Air dashpot. 2,868,336, 1-13-59, Cl. 188-95.
- Bliss, Harvey N., and O. Wild, Jr., to Veeder-Root Inc. Resetting mechanism for registers. 2,869,791, 1-20-59, Cl. 235-144.
- Bliss & Laughlin, Inc.: *See*—
- Larson, Arthur D., and Spencer. 2,877,534.
- Bliss, Theodore J., to Westinghouse Electric Corp. Sensing system for brushless type generator. 2,913,656, 11-17-59, Cl. 322-25.
- Bliss, William R., to Van Norman Industries, Inc. Read-out apparatus for movable indicating mechanisms. 2,895,121, 7-14-59, Cl. 340-147.
- Bludzius Irene D.: *See*—
- Jucaitis, Pranas, and Bludzius. 2,876,105.
- Jucaitis, Pranas, Bludzius, and Rockwell. 2,876,106.
- Jucaitis, Pranas, Bludzius, and Rockwell. 2,876,107.
- Bludzius, Irene D., P. Jucaitis, and N. P. Rockwell, to E. I. du Pont de Nemours and Co. Dietetic gelled pectin containing food composition. 2,876,101, 3-3-59, Cl. 99-129.
- Bludzius, Irene D., N. P. Rockwell, and P. Jucaitis, to E. I. du Pont de Nemours and Co. Dietetic frozen food composition. 2,876,104, 3-3-59, Cl. 99-136.
- Blixrud, John O., to General Mills, Inc. Distributing means. 2,912,127, 11-10-59, Cl. 214-17.
- Blizard, Robert B., to Sperry Rand Corp. Azimuth reference device. 2,887,783, 5-26-59, Cl. 33-226.
- Blizard, Robert B., to Schlumberger Well Surveying Corp. Saturable reactor computer. 2,917,238, 12-15-59, Cl. 235-194.
- Bloch, Alexander, to Consolidated Diesel Electric Corp. Liquid filter structure. 2,870,914, 1-27-59, Cl. 210-453.
- Bloch, Elsie C. and G. Pile fabric. 2,892,471, 6-30-59, Cl. 139-391.
- Bloch, Erich. Device for supporting display figures. 2,867,362, 1-6-59, Cl. 223-120.
- Bloch, Erich, to International Business Machines Corp. Output branch amplifier. 2,910,677, 10-27-59, Cl. 340-174.
- Bloch, Erich, and R. C. Paulsen, to International Business Machines Corp. Magnetic not or circuit. 2,889,543, 6-2-59, Cl. 340-174.
- Bloch, Erich, and H. J. Hallstead, to International Business Machines Corp. Core assembly. 2,910,673, 10-27-59, Cl. 340-174.
- Bloch, Godfrey: *See*—
- Bloch, Elsie C. and G. 2,892,471.
- Bloch, Herman S.: *See*—
- Chenicek, Joseph A., and Bloch. 2,867,673.
- Haensel, Vladimir, and Bloch. 2,899,943.
- Hervert, George L., and Bloch. 2,871,095.
- Hervert, George L., and Bloch. 2,871,096.
- Hervert, George L., and Bloch. 2,872,418.
- Bloch, Herman S., to Universal Oil Products Co. Production of alumina. 2,867,505, 1-6-59, Cl. 23-143.
- Bloch, Herman S., to Universal Oil Products Co. 1,2,3,4,7,7-hexachloro-5-N-alkyl carboxamide bicyclo [2.2.1]-2-heptene. 2,872,483, 2-3-59, Cl. 260-557.
- Bloch, Herman S., to Universal Oil Products Co. Purification of a recirculating solvent. 2,878,182, 3-17-59, Cl. 208-321.
- Bloch, Herman S., to Universal Oil Products Co. Alkylation of aromatic hydrocarbons. 2,887,520, 5-19-59, Cl. 260-671.
- Bloch, Herman S., to Universal Oil Products Co. Preparation of para-dialkyl substituted aromatic compounds. 2,916,530, 12-8-59, Cl. 260-668.
- Bloch, Herman S., and E. M. Geiser, to Universal Oil Products Co. Preparation of 1,2-ditolylethane. 2,878,260, 3-17-59, Cl. 260-668.
- Bloch, Herman S., and B. Kvetinskas, to Universal Oil Products Co. Production and recovery of unsaturated hydrocarbons employing adiponitrile containing solvent. 2,886,614, 5-12-59, Cl. 260-680.
- Bloch, Herman S., and G. L. Hervert, to Universal Oil Products Co. Alkylation of benzene. 2,887,518, 5-19-59, Cl. 260-671.
- Bloch, Herman S., and E. M. Geiser, to Universal Oil Products Co. Manufacture of para-xylene. 2,894,046, 7-7-59, Cl. 260-673.5.
- Bloch, Herman S., and V. Haensel, to Universal Oil Products Co. Isomerization process. 2,900,425, 8-18-59, Cl. 260-666.
- Bloch, Herman S., and R. C. Wackher, to Universal Oil Products Co. Recovery of dialkyl ethers of 5-alkylpyrogallol by solvent extraction of wood tar distillate. 2,908,719, 10-13-59, Cl. 260-613.
- Bloch, Herman S., and L. Schmerling, to Universal Oil Products Co. Polyoxaalkylene glycol monoethers of thiophenolic derivatives of halocycloalkenes. 2,910,508, 10-27-59, Cl. 260-609.
- Bloch, Jack, to Foster Grant Co., Inc. Molded plastic basket. 2,895,522, 7-21-59, Cl. 150-48.
- Bloch, Lilli. Eyeglass case. 2,918,959, 12-29-59, Cl. 150-52.



- Bloch, Monroe P.: *See*—  
Harris, Frederic R. 2,897,654.
- Bloch, Morton G., A. F. Houser, and W. H. King, to Socony Mobil Oil Co., Inc. Process for separating wax from oils. 2,904,496, 9-15-59, Cl. 208-33.
- Block & Anderson: *See*—  
Benham, Leonard V. 2,876,006.
- Block & Anderson Ltd.: *See*—  
Broughan, Leslie E., and Brown. 2,880,670.  
Brown, Roland. 2,872,896.
- Block, George P. Ski binder. 2,888,692, 6-2-59, Cl. 9-21.
- Block, Herman H. Riding toy. 2,871,015, 1-27-59, Cl. 272-1.
- Block, Kenneth B.: *See*—  
Hirsch, James C., and Block. 2,911,217.
- Block, Lester W. Brassiere. 2,896,631, 7-28-59, Cl. 128-475.
- Block, Meyer: *See*—  
Katzman, Lawrence, Block, and Gershen. 2,885,750.
- Block, Meyer L.: *See*—  
Katzman, Max and L., and Block. 2,886,793.
- Block, Morris H.: *See*—  
Kellner, Paul, and Block. 2,914,070.
- Block, Richard J., to Minute Maid Corp. Enriched fruit juices. 2,919,195, 12-29-59, Cl. 99-105.
- Block, Richard J., and G. Zweig, to The Borden Co. Modified milk. 2,903,358, 9-8-59, Cl. 99-54.
- Block, Walter W., to Quaker Stretcher Co. Laundry cart with plastic basket. 2,875,806, 3-3-59, Cl. 150-49.
- Block, Walter W., to Quaker Stretcher Co. Portable folding table. 2,903,313, 9-8-59, Cl. 311-90.
- Blocker, Leo B.: *See*—  
Ritter, Darrell L., Blocker, and Willcox. 2,886,265.
- Blod, Francis E., to Farrington Mfg. Co. Watch display case. 2,889,037, 6-2-59, Cl. 206-45.13.
- Blodgett, Edwin O., to Commercial Controls Corp. Verifying printing machine. 2,901,042, 8-25-59, Cl. 164-113.
- Blodgett, Edwin O., and W. C. Ahrens, to Commercial Controls Corp. Printing machine for translating coded information with conversion between code levels. 2,886,159, 5-12-59, Cl. 197-20.
- Blodgett, Edwin O., and W. C. Ahrens, to Commercial Controls Corp. Writing machine. 2,905,298, 9-22-59, Cl. 197-20.
- Blodgett, Norman S.: *See*—  
Castonguay, Leon H., and St. Cyr. 2,886,059.
- Bloom, Aldert T., to North American Philips Co., Inc. Device for thawing an ice separator used in a system comprising a cold-gas refrigerator. 2,881,599, 4-14-59, Cl. 62-154.
- Bloom, Herman, and M. Stel, to North American Philips Co., Inc. Method of impregnating fibre masses with a viscous, hardenable resin insoluble in water. 2,875,094, 2-24-59, Cl. 117-115.
- Bloembergen, Nicolaas. Uninterrupted amplification key stimulated emission of radiation from a substance having three energy states. 2,909,654, 10-20-59, Cl. 250-20.
- Blok, Lourens, and G. Zwanenburg, to North American Philips Co., Inc. System for high-frequency heating of work pieces. 2,896,936, 7-28-59, Cl. 266-4.
- Blomquist, Albert E., to Fairchild Engine and Airplane Corp. Variable armored sections for vehicles. 2,871,763, 2-3-59, Cl. 89-36.
- Blomquist, Alfred T.: *See*—  
Panzer, Jerome, and Blomquist. 2,918,493.
- Blomquist, Uno O., to A B Svenska Maskinverken. Furnaces. 2,907,288, 10-6-59, Cl. 110-28.
- Blomqvist, Georg H., and A. I. Malm, to P. O. Stokkebyes Kvarnaktiebolag. Processes of producing a baked cereal product. 2,868,648, 1-13-59, Cl. 99-83.
- Blomstedt, John B., and E. H. Olofsson, to Telefonaktiebolaget L M Ericsson. Cathode connected LC-oscillator. 2,906,966, 9-29-59, Cl. 331-176.
- Blomstrand, Carl A., and W. J. Ehrensperger, to Stockham Valves & Fittings, Inc. Valve actuating mechanism. 2,889,133, 6-2-59, Cl. 251-164.
- Blomstrand, John H., 1/2 to F. W. Nyquist. Tool holder. 2,916,802, 12-15-59, Cl. 29-97.5.
- Blonder, Isaac S. Cable insulation cutter with cutter movable about the periphery of the cable. 2,903,064, 9-8-59, Cl. 164-60.
- Blonder, Isaac S. Electrical cable coupler. 2,914,740, 11-24-59, Cl. 333-97.
- Blood, Harold L., to The Heald Machine Co. Grinding machine. 2,903,827, 9-15-59, Cl. 51-48.
- Blood, Harold L., to The Heald Machine Co. Grinding machine. 2,909,006, 10-20-59, Cl. 51-50.
- Blood, Lewis B. Filter screen in fuel distribution. 2,890,796, 6-16-59, Cl. 210-470.
- Blood, Raymond: *See*—  
Start, Ernest, and Blood. 2,873,593.
- Bloom, Aaron. Aviator's breathing oxygen duration indicator. 2,908,167, 10-13-59, Cl. 73-393.
- Bloom, Abe M. Roasting machine for hamburger patties, or the like. 2,867,163, 1-6-59, Cl. 99-386.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Process for the preparation of isocyanates. 2,875,226, 2-24-59, Cl. 260-453.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Recovery of organic isocyanates. 2,884,359, 4-28-59, Cl. 202-52.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Recovery of organic isocyanates. 2,884,360, 4-28-59, Cl. 202-57.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Recovery of organic isocyanates. 2,884,361, 4-28-59, Cl. 202-57.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Recovery of organic isocyanates. 2,884,362, 4-28-59, Cl. 202-57.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Recovery of organic isocyanates. 2,884,363, 4-28-59, Cl. 202-57.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Stabilized organic isocyanates. 2,891,983, 6-23-59, Cl. 260-453.
- Bloom, Albert, and D. L. Deutsch, to General Aniline & Film Corp. Preparation of vat dyestuffs. 2,908,685, 10-13-59, Cl. 260-282.
- Bloom, Albert, H. B. Freyermuth, and J. B. Normington, to General Aniline & Film Corp. Process for the preparation of isocyanates. 2,911,429, 11-3-59, Cl. 260-453.
- Bloom, Albert S., and R. C. Winslow, to Consolidated Diesel Electric Corp. Auxiliary power system. 2,917,635, 12-15-59, Cl. 290-30.
- Bloom, Barry M.: *See*—  
Agnello, Eugene J., Bloom, and Laubach. 2,904,546.
- Bloom, Barry M., to Chas. Pfizer & Co. Hydrogenated 2-(1-naphthylamino)-oxazolines. 2,870,159, 1-20-59, Cl. 260-307.
- Bloom, Barry M., to Chas. Pfizer & Co. 2(benzofuranly amino)- and 2(thianaphthyl amino) oxazolines. 2,870,160, 1-20-59, Cl. 260-307.
- Bloom, Barry M., to Chas. Pfizer & Co. 2-(1-indanyl amino)-oxazolines. 2,870,161, 1-20-59, Cl. 260-307.
- Bloom, Barry M., to Chas. Pfizer & Co. 1,2,3,4-tetrahydroquinolyl and 1,2,3,4-tetrahydroisquinolyl derivatives of 1,3-diazacyclohexene-2. 2,876,222, 3-3-59, Cl. 260-256.4.
- Bloom, Barry M., to Chas. Pfizer & Co. Synthesis of substituted 1,3 diazacyclopentenes and 1,3 diazacyclohexenes. 2,876,223, 3-3-59, Cl. 260-256.4.
- Bloom, Barry M., to Chas. Pfizer & Co. Derivatives of 1,3-diazacycloalkene-2. 2,876,229, 3-3-59, Cl. 260-288.
- Bloom, Barry M., to Chas. Pfizer & Co. Therapeutic agents. 2,876,232, 3-3-59, Cl. 260-307.
- Bloom, Barry M., to Chas. Pfizer & Co., Inc. N-(1-indanyl)-N'-( $\beta$ -substituted ethyl)-ureas. 2,883,410, 4-21-59, Cl. 260-456.
- Bloom, Barry M., to Chas. Pfizer & Co., Inc. Therapeutic agents. 2,889,351, 6-2-59, Cl. 260-456.
- Bloom, Barry M., to Chas. Pfizer & Co., Inc. Synthesis of 1,3-diazacycloalkene-2. 2,899,426, 8-11-59, Cl. 260-239.5.
- Bloom, Barry M., to Chas. Pfizer & Co., Inc. 2-phenylamino-1,3-diazacyclohexene-2. 2,899,434, 8-11-59, Cl. 260-256.4.
- Bloom, Barry M., and G. D. Laubach, to Chas. Pfizer & Co., Inc. Sulfur containing steroid compositions. 2,878,157, 3-17-59, Cl. 167-52.
- Bloom, Barry M., D. A. Kita, G. D. Laubach, and G. M. Shull, to Chas. Pfizer & Co., Inc. 14 $\alpha$ -hydroxy-9 $\alpha$  halo hydrocortisone and intermediates. 2,891,080, 6-16-59, Cl. 260-397.45.
- Bloom, Barry M., and R. E. Carnahan, to Chas. Pfizer & Co., Inc. Isonicotinylhydrazino alkanolic amides. 2,894,972, 7-14-59, Cl. 260-295.
- Bloom, Bertha B. Music time guide. 2,915,121, 12-1-59, Cl. 161-6.
- Bloom, Eli H., and I. Wiener, to Universal Dental Co. Tooth carding device. 2,874,487, 2-24-59, Cl. 35-49.
- Bloom Engineering Co., Inc.: *See*—  
Conway, Leon F., and Dinneen. 2,902,254.
- Bloom, Frank E. Double acting spring hinge for folding doors. 2,891,274, 6-23-59, Cl. 16-190.
- Bloom, John W., and B. Brubaker, to General Motors Corp. Folding arm rest. 2,917,107, 12-15-59, Cl. 155-112.
- Bloom, Martin H.: *See*—  
Ferri, Antonio, Libby, and Bloom. 2,892,308.
- Bloom, Quentin M., to Selas Corp. of America. Strip heating furnace. 2,869,846, 1-20-59, Cl. 263-3.
- Bloom, Samuel M., 1/2 to M. Nison. Fabric softener ejector. 2,872,076, 2-3-59, Cl. 222-70.
- Bloom, Sidney: *See*—  
Turcan, Peter S. 2,911,696.
- Bloom, Stanley B., to Philco Corp. Control system for washing machines. 2,885,879, 5-12-59, Cl. 68-207.
- Bloomberg, David J. Mixing and control valve. 2,887,128, 5-19-59, Cl. 137-635.
- Bloomberg, David J., to General Electric Co. Turbomachine bucket-wheel fabricated by casting. 2,894,318, 7-14-59, Cl. 29-156.8.
- Bloomberg, David J., to General Electric Co. Speed limiting arrangement for turbine rotors. 2,913,872, 11-24-59, Cl. 60-39.11.
- Bloomberg, David J., to General Electric Co. Overspeed control for fuel system turbopump. 2,914,296, 11-24-59, Cl. 253-16.5.
- Bloomer Bros. Co.: *See*—  
Hatcher, Glenn B. 2,894,432.  
Holmes, Raynor M. 2,903,180.  
Inman, William H. 2,870,950.  
Inman, William H. 2,878,986.  
Inman, William H. 2,878,987.  
Inman, William H. 2,881,968.  
Inman, William H. 2,884,180.  
Tobey, Leon H. 2,871,641.  
Truini, Richard C. 2,871,640.



- Bloomquist, Clarence T. Rest and the like for the head, back and feet. 2,884,991, 5-5-59, Cl. 155-154.
- Bloomquist, Egner L. Case for cardboard milk cartons and the like. 2,904,211, 9-15-59, Cl. 220-19.
- Bloomstran, Hilmer: *See—*
- Weller, Walter, and Bloomstran. 2,889,055.
- Blose, Thomas L., to A. O. Smith Corp. Conically tapered screw-type casing joint with metal-to-metal seal. 2,893,759, 7-7-59, Cl. 285-334.
- Blosser, Denzil M. Car tent. 2,870,774, 1-27-59, Cl. 135-7.1.
- Blough, John G.: *See—*
- Fasold, George A., and Blough. 2,871,817.
- Blouin, Maurice A., to Simplex Time Recorder Co. Reset mechanism for time indicating clock. 2,900,787, 8-25-59, Cl. 58-34.
- Blount, Alvie E., to Jersey Production Research Co. Charge-planting motor-bit drill. 2,880,966, 4-7-59, Cl. 255-4.
- Blount, Alvie E., to Jersey Production Research Co. Apparatus for planting explosive charges at submarine locations. 2,880,967, 4-7-59, Cl. 255-4.
- Blount, Alvie E., T. Flatow, and F. L. Chalmers, to Jersey Production Research Co. Weight handling mechanism. 2,897,907, 8-4-59, Cl. 181-5.
- Blount, Frank E., and M. E. Krom, to Bell Telephone Laboratories, Inc. Line concentrator checking arrangement. 2,894,073, 7-7-59, Cl. 179-18.
- Blow, Angus W., and G. H. Clark, to General Dynamics Corp. Monitoring indication for communication system. 2,881,250, 4-7-59, Cl. 179-1.
- Blower Application Co.: *See—*
- Panning, Martin H., and Curry. 2,894,697.
- Panning, Martin H., and Curry. 2,917,342.
- Bloxham, Gordon F., to Western Electric Co., Inc. Apparatus for detecting variations in the diameter of an advancing strand. 2,913,828, 11-24-59, Cl. 33-143.
- Bloxham, Gordon F., and W. J. Hyde, to Western Electric Co., Inc. Apparatus for cutting and joining tapes. 2,883,893, 4-28-59, Cl. 78-82.
- Blossom, Daniel E., Jr. High velocity gun system. 2,899,864, 8-18-59, Cl. 89-7.
- Blubagh, Bernard L. Implement transport having a vertical adjustable chassis. 2,872,204, 2-3-59, Cl. 280-44.
- Bludworth, Joseph E., to Delhi-Taylor Oil Corp. Acetylene producing process. 2,884,472, 4-28-59, Cl. 260-679.
- Bludworth, Joseph E., and C. A. Leatherwood, to Delhi-Taylor Oil Corp. Process for the regeneration of acetylene absorbing liquids. 2,911,067, 11-3-59, Cl. 183-115.
- Blue, John, to John Blue Co., Inc. Duster nozzle. 2,909,866, 10-27-59, Cl. 43-145.
- Blue, John, D. Johnston, and L. Tangeman, to John Blue Co., Inc. Hose pump. 2,913,992, 11-24-59, Cl. 103-149.
- Blue, John, Co., Inc.: *See—*
- Blue, John. 2,909,866.
- Blue, John, Johnston, and Tangeman. 2,913,992.
- Horton, Donelson B. 2,909,191.
- Blue, Robert D.: *See—*
- Neipert, Marshall P., and Blue. 2,913,332.
- Neipert, Marshall P., Blue, and Houser. 2,898,284.
- Blue, Robert D. and M. P. Neipert, to The Dow Chemical Co. Arc-cathode production of titanium. 2,887,443, 5-19-59, Cl. 204-64.
- Blue, Sidney D. Can holders. 2,917,338, 12-15-59, Cl. 294-31.2.
- Blue Channel Corp.: *See—*
- Fellers, Carl R., and Zachowski. 2,870,025.
- Harris, Sterling G. 2,895,162.
- Blue M Electric Co.: *See—*
- Lawler, Joseph A. 2,898,436.
- Blue Ridge Glass Corp.: *See—*
- Glynn, Theodore W. 2,867,710.
- Glynn, Theodore W. 2,906,256.
- Blue Spark, Inc.: *See—*
- Anderson, William R., and Dodson. 2,917,863.
- Bluestein, Ben A., to General Electric Co. Preparation of organopolysiloxanes containing silicon-bonded carboxyalkyl groups. 2,875,177, 2-24-59, Cl. 260-46.5.
- Bluestein, Ben A., to General Electric Co. Preparation of higher alkylated alkyl halogenosilanes. 2,887,501, 5-19-59, Cl. 260-448.2.
- Bluestein, Ben A., to General Electric Co. Preparation of alkyl chlorosilanes. 2,887,502, 5-19-59, Cl. 260-448.2.
- Bluestein, Ben A., to General Electric Co. Preparation of carboxyalkyl polysiloxanes. 2,900,363, 8-18-59, Cl. 260-46.5.
- Bluestone, Henry: *See—*
- Pyne, William J., and Bluestone. 2,898,205.
- Bluestone, Henry, to Diamond Alkali Co. Method for controlling nematodes. 2,895,869, 7-21-59, Cl. 167-22.
- Bluestone, Henry, to Diamond Alkali Co. Reaction products of trihalonitroalkenes with dienes. 2,917,551, 12-15-59, Cl. 260-644.
- Blum, Benjamin: *See—*
- Stern, Isidor, and Blum. 2,910,121.
- Blum, Bernard S., and E. J. Phillips, to Curtiss-Wright Corp. Method of brazing titanium. 2,914,848, 12-1-59, Cl. 29-494.
- Blum, Harry J., to Armstrong-Blum Mfg. Co. Saw blade backstop. 2,914,101, 11-24-59, Cl. 143-160.
- Blum, Josef, to Ivan Sorvall, Inc. Centrifuge deviation sensing switching mechanism. 2,895,023, 7-14-59, Cl. 200-61.45.
- Blum, Josef, to Ivan Sorvall, Inc. Microtome stage. 2,918,334, 12-22-59, Cl. 308-59.
- Blum, Louis. Fence assembly with panels. 2,873,094, 2-10-59, Cl. 256-31.
- Blum, Louis. Terminal, corner and splice connectors for ornamental rail structures. 2,873,095, 2-10-59, Cl. 256-65.
- Blum, Louis, to Blumcraft of Pittsburgh. Ornamental rail structures. 2,905,445, 9-22-59, Cl. 256-65.
- Blum, Louis, to Blumcraft of Pittsburgh. Clamping means for rail structures. 2,905,446, 9-22-59, Cl. 256-65.
- Blum, Louis, to Blumcraft of Pittsburgh. Newel posts for ornamental rail structures. 2,918,150, 12-22-59, Cl. 189-28.
- Blum, Seymour H. Air conditioner unit. 2,893,220, 7-7-59, Cl. 62-404.
- Blumberg, Benjamin J. Air escape valve. 2,909,321, 10-20-59, Cl. 236-62.
- Blumberg, Benjamin J. Air-escape valve. 2,909,322, 10-20-59, Cl. 236-66.
- Blumberg, Ruth: *See—*
- Baniel, Abraham, and Blumberg. 2,880,063.
- Baniel, Abraham, and Blumberg. 2,894,813.
- Baniel, Abraham, and Blumberg. 2,902,341.
- Blumcraft of Pittsburgh: *See—*
- Blum, Louis. 2,905,445.
- Blum, Louis. 2,905,446.
- Blum, Louis. 2,918,150.
- Blume, Floyd R.: *See—*
- Byers, Charles L. 2,900,935.
- Blumel, Friedrich: *See—*
- Kern, Rudolf, Grohs, and Blumel. 2,891,017.
- Blumenfeld, Arthur: *See—*
- Levy, Sidney E. 2,869,668.
- Blumenfeld, Charles M. Swimming pool cleaning apparatus. 2,919,027, 12-29-59, Cl. 210-169.
- Blumenstein, Stanley. Expandable insulation unit. 2,906,655, 9-29-59, Cl. 154-45.
- Blumenthal, Arthur E. Safety door lock. 2,886,363, 5-12-59, Cl. 292-92.
- Blumenthal, Irwin S., R. M. Chiles, C. W. Larsen, Jr., and K. M. Stevenson, Jr., to Northrop Corp. Reset integrator. 2,891,725, 6-23-59, Cl. 235-183.
- Blumenthal, Jack H., to Air Reduction Co., Inc. Ethynylpyridine-N-oxides and ethynylquinoline-N-oxides. 2,874,162, 2-17-59, Cl. 260-297.
- Blumer, Donald R., to Minneapolis-Honeywell Regulator Co. Combustibles detector. 2,885,555, 5-5-59, Cl. 250-43.5.
- Blumkin, Sidney, to J. C. Hockery, trustee for H. J. and F. L. Talge. Kitchen implement platform and connecting means therefor. 2,913,201, 11-17-59, Cl. 248-19.
- Blundi, Anthony A., to Burroughs Corp. Binary adder. 2,881,979, 4-14-59, Cl. 235-176.
- Blundin, Warren S., to The Babcock & Wilcox Co. Method of and apparatus for burning solid fuels. 2,876,716, 3-10-59, Cl. 110-40.
- Blurton, Victor B.: *See—*
- Psaty, Leon A., Hunt, and Blurton. 2,917,215.
- Blust, Henry L.: *See—*
- Kjellsen, Arvid G., and Blust. 2,918,198.
- Maurer Pierre W., and Blust. 2,873,835.
- Blust, Henry L., H. A. Strych, and G. Vivian, to Radio Corp. of America. Pneumatic detecting and sorting apparatus. 2,902,149, 9-1-59, Cl. 209-72.
- Bluth, Ludwig S. Retaining ring of uniform section height with means providing for circumferential bending and method of making same. 2,883,899, 4-28-59, Cl. 85-8.8.
- Bly, Austin H., and E. E. Elliott. Personal timer. 2,917,892, 12-22-59, Cl. 58-21.13.
- Bly, Curtis A. Boat trailer. 2,890,466, 6-16-59, Cl. 9-1.
- Blyth, Andrew F., to Marcona Mining Co. Ore sampling machine. 2,889,709, 6-9-59, Cl. 73-423.
- Blyth, Jack V.: *See—*
- Broadbent, David C., and Blyth. 2,882,105.
- Blyth, Jack V., to D. Napier & Son Ltd. Interstage seals and cooling means in axial flow turbines. 2,919,104, 12-29-59, Cl. 253-39.15.
- Blythe, Clarence M.: *See—*
- Oxley, LeRoy V., and Blythe. 2,916,128.
- Blythe, Lawrence D. Egg dryer. 2,896,337, 7-28-59, Cl. 34-218.
- Blythe, Richard: *See—*
- Mitchell, Claybourne, and Blythe. 2,882,787.
- Bo, Gilbert M. M., A. Fournet, J. A. Phelisse, and E. Fichet, to Societe des Usines Chimiques Rhone-Poulenc. Polymerization of ethylene. 2,884,409, 4-28-59, Cl. 260-94.9.
- Bo Nyman Abn Aktiebolag: *See—*
- Danielsson, Karl E. H., and Lundmark. 2,885,145.
- Boake, A., Roberts & Co. Ltd.: *See—*
- Chatfield, Herbert W. 2,909,537.
- Board, Samuel S., Jr., to Farrel-Birmingham Co., Inc. Storage mechanisms for radioactive material. 2,873,160, 2-10-59, Cl. 312-268.
- Board, Samuel S., Jr., and W. P. Manger, to Farrel-Birmingham Co. Inc. Guide grinder. 2,906,063, 9-29-59, Cl. 51-50.
- Board of Controls, acting for the University of Florida: *See—*
- Nolan, William J. 2,904,460.
- Boardman, Thaddeus J., and J. G. Williams, to Worthington Corp. Sealing devices for pumps. 2,913,989, 11-24-59, Cl. 103-111.
- Boardway, Nancy L.: *See—*
- Dixon, James K., Du Breuil, and Boardway. 2,918,468.



- Boash-Ross Tool Co.: *See*—  
Brown, Ora A. 2,910,124.
- Boatright, Dean D., and J. P. Holt, to Central National Bank of Cleveland, trustee. Apparatus for feeding ground material. 2,879,923, 3-31-59, Cl. 222-193.
- Boatright, Dean D., and J. P. Holt, to Central National Bank of Cleveland, trustee. Access door for pressure vessels. 2,881,943, 4-14-59, Cl. 220-57.
- Bobal, Michael A.: *See*—  
Reidl, Ronald W., and Bobal. 2,881,090.
- Bobalek, Edward G.: *See*—  
Hawkins, Robert L., Jr., and Bobalek. 2,904,523.
- Bobb, Lloyd J., to Philco Corp. Transducers. 2,878,323, 3-17-59, Cl. 179-111.
- Bobb, Lloyd J., to Philco Corp. Transducers. 2,890,760, 6-16-59, Cl. 181-31.
- Bobbish, Charles W., to Schieber Mfg. Co. Portable folding table. 2,893,474, 7-7-59, Cl. 155-124.
- Bobcat Corp.: *See*—  
Lossau, Earl. 2,908,510.
- Bobel, William S., to Pittsburgh Plate Glass Co. Multiple glazed unit. 2,877,516, 3-17-59, Cl. 20-56.5.
- Bobinchak, Gilbert N. Baptismal robe. 2,900,641, 8-25-59, Cl. 2-11.
- Bobingen Aktiengesellschaft fur Textil-Faser: *See*—  
Schlack, Paul. 2,895,786.
- Bobkowicz, Emilian. Universal spinning unit. 2,900,782, 8-25-59, Cl. 57-31.
- Bobkowicz, Emilian. Textile webs. 2,919,217, 12-29-59, Cl. 154-46.
- Bobo, Frank E., Jr.: *See*—  
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- Bobo, Mildred E., and W. S. Miller. Educational game board. 2,887,789, 5-26-59, Cl. 35-9.
- Bobo, Roy A.: *See*—  
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- Bobo, Roy A., to Phillips Petroleum Co. Control system. 2,869,475, 1-20-59, Cl. 103-233.
- Bobo, Roy A., to Phillips Petroleum Co. Means and method of drilling with aerated drilling liquids. 2,880,965, 4-7-59, Cl. 255-1.8.
- Bobo, Roy A., to Phillips Petroleum Co. Mechanical treatment of drilling muds. 2,895,669, 7-21-59, Cl. 233-21.
- Bobo, Roy A., to Phillips Petroleum Co. Valve device having plug-actuated check valve. 2,896,726, 7-28-59, Cl. 166-225.
- Bobo, Roy A., and G. S. Ormsby, to Phillips Petroleum Co. Deep well casing orifice and check valve. 2,884,074, 4-28-59, Cl. 166-224.
- Bobst, J., and Son S.A.: *See*—  
Kury, Josef. 2,895,570.
- Lauffer, Frédéric. 2,867,275.
- Bocchino, Joseph J. Chain lubricator. 2,893,516, 7-7-59, Cl. 184-17.
- Boccio, Albert A.: *See*—  
Small, Samuel N. 2,882,373.
- Boccone, Egidio A. Table leg assembly. 2,869,950, 1-20-59, Cl. 311-112.
- Bochan, John, to General Electric Co. Centrifugal clutch for clothes washing machine. 2,869,344, 1-20-59, Cl. 68-12.
- Bochan, John, to General Electric Co. Two speed drive. 2,869,699, 1-20-59, Cl. 192-48.
- Bochan, John, to General Electric Co. Clothes washer with liquid recirculation system. 2,883,843, 4-28-59, Cl. 68-23.
- Bochan, John, to General Electric Co. Water level control for clothes washing machines. 2,888,531, 5-26-59, Cl. 200-84.
- Bochan, John, to General Electric Co. Laundry machine with basket stop means. 2,904,895, 9-22-59, Cl. 34-45.
- Bochan, John, to General Electric Co. Combination washer-dryer construction. 2,904,982, 9-22-59, Cl. 68-19.
- Bochan, John, to General Electric Co. Unbalance sensing arrangement for use in laundry machines. 2,905,324, 9-22-59, Cl. 210-149.
- Bochan, John, to General Electric Co. Flow control device. 2,908,285, 10-13-59, Cl. 137-513.7.
- Bochan, John, to General Electric Co. Dehumidifier construction for clothes dryer. 2,911,731, 11-10-59, Cl. 34-75.
- Bocher, Hermann. Automatic binding of coils of wire. 2,901,966, 9-1-59, Cl. 100-12.
- Bochory, Michael. Automatic clutch construction. 2,899,033, 8-11-59, Cl. 192-48.
- Bochumer Eisenhutte Heintzmann & Co.: *See*—  
Weinert, Hans, and Wille. 2,867,303.
- Bock, Charles D., and S. Davis, to American Bosch Arma Corp. Electro-mechanical resolvers. 2,880,388, 3-31-59, Cl. 323-53.
- Bock, Ernst L., to United States of America, Air Force. Search antenna. 2,908,003, 10-6-59, Cl. 343-780.
- Bock, George E., and J. H. Spence, to Pullman-Standard Car Mfg. Co. Railway car side wall. 2,870,723, 1-27-59, Cl. 105-401.
- Bock, Henry. Bulb tee clip. 2,914,148, 11-24-59, Cl. 189-35.
- Bock, James A., R. S. McDaniel, and D. W. Schubert, to Standard Oil Co. Start-up of platinum catalyst naphtha hydroforming system. 2,910,430, 10-27-59, Cl. 208-146.
- Bock, John E. Spinning fish lure. 2,906,052, 9-29-59, Cl. 43-42.46.
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Clement, Carl H., Jr. 2,899,032.
- Bock, Robert O., and G. M. Davidson, to American Bosch Arma Corp. Semi-digital resolver. 2,874,903, 2-24-59, Cl. 235-186.
- Bock, William M., Jr. Evaporating device. 2,914,308, 11-24-59, Cl. 261-104.
- Bockemuhl, Robert R., to General Motors Corp. Electronic relay. 2,913,638, 11-17-59, Cl. 317-142.
- Böckman, Marius, and B. Grundmark, to Allmänna Svenska Elektriska Aktiebolaget. Over-voltage protection device. 2,878,428, 3-17-59, Cl. 317-112.
- Böckmann, Klaus: *See*—  
Taube, Carl, and Böckmann. 2,912,296.
- Böckmann, Klaus, to Farbenfabriken Bayer Aktiengesellschaft. Tetrakisazo dyestuffs. 2,917,504, 12-15-59, Cl. 260-167.
- Böckmann, Klaus, and C. Taube, to Farbenfabriken Bayer Aktiengesellschaft. Copperable disazo dyestuffs. 2,900,379, 8-18-59, Cl. 260-161.
- Bocquet, Philip E., to Constock Liquid Methane Corp. Process of removing carbon dioxide from natural gas. 2,888,807, 6-2-59, Cl. 62-11.
- Bocquet, Philip E., to Constock Liquid Methane Corp. Process of liquefying gases. 2,903,858, 9-15-59, Cl. 62-11.
- Bocquet, Philip E., and S. E. Tung, to Constock Liquid Methane Corp. Low temperature refrigeration. 2,909,906, 10-27-59, Cl. 62-88.
- Boddy, Leonard, to King-Seeley Corp. Liquid level indicating device. 2,873,305, 2-10-59, Cl. 174-52.
- Boddy, Leonard, to King-Seeley Corp. Temperature responsive systems. 2,910,569, 10-27-59, Cl. 219-20.
- Boddy, Leonard, to King-Seeley Corp. Polarity sensitive bi-metal ammeter and voltmeter. 2,910,650, 10-27-59, Cl. 324-133.
- Boddy, Leonard, to King-Seeley Corp. Electrical control system. 2,911,633, 11-3-59, Cl. 340-213.
- Bode, Benno R. Grapple device. 2,889,170, 6-2-59, Cl. 294-99.
- Bode, Hans, to Belmont Ver Standig, M., Inc. Wall surfacing and method of making same. 2,901,377, 8-25-59, Cl. 117-70.
- Bode, Harald, to Estey Organ Corp. (Del.). Electrical musical instrument with frequency divider circuit. 2,906,960, 9-29-59, Cl. 331-51.
- Bode, Harald E. W., to Estey Organ Corp. (Del.). Preference network. 2,874,286, 2-17-59, Cl. 250-27.
- Bode, Henry W., to The Chas. H. Stehling Co. Method of removing dirt and manure from fresh hides. 2,869,350, 1-20-59, Cl. 69-21.
- Bode, Wolfe, to Owens-Illinois Glass Co. Reshaping hot glass by high pressure air jets. 2,888,780, 6-2-59, Cl. 49-7.
- Bodeau, Arthur C., and E. R. Shull, to Ford Motor Co. Vibration isolating mounting. 2,913,199, 11-17-59, Cl. 248-8.
- Bodell, Cornell. Flashing ball. 2,903,820, 9-15-59, Cl. 46-228.
- Bodem, Roy C., to General Motors Corp. Actuator seal assembly. 2,910,966, 11-3-59, Cl. 121-38.
- Boden, Samuel H., and R. O. Bonine, to Westinghouse Electric Corp. Adjustable terminal-bushing mounting. 2,889,396, 6-2-59, Cl. 174-161.
- Bodendieck Tool Co.: *See*—  
Tipsord, Clyde E., and Turner. 2,871,282.
- Bodenstein, Camillo, to Siemens & Halske Aktiengesellschaft. Apparatus for magnetically storing telegraph signals. 2,917,250, 12-15-59, Cl. 242-55.12.
- Bodewein, Gerhard, to Vereinigte Aluminium-Werke A.-G. Method for removal of the current supply bolts from aluminum electrolysis furnaces. 2,897,585, 8-4-59, Cl. 29-401.
- Bodine, Albert G. Acoustic attenuation of engine detonation shock waves. 2,881,751, 4-14-59, Cl. 123-191.
- Bodine, Albert G. Compliant coupling system for adapting sonic well drill apparatus to jarring function. 2,890,757, 6-16-59, Cl. 166-177.
- Bodine, Albert G. Sonic method of injecting and circulating chemicals in oil well formation. 2,918,126, 12-22-59, Cl. 166-42.
- Bodine, Albert G., Jr. Petroleum well treatment by high power acoustic waves to fracture the producing formation. 2,871,943, 2-3-59, Cl. 166-42.
- Bodine, Albert G., Jr. Sonic beam earth compacting system. 2,897,734, 8-4-59, Cl. 94-022.
- Bodine, Albert G., Jr. Sonic well pump with critically tuned elastic support system and vibration isolator. 2,902,937, 9-8-59, Cl. 103-76.
- Bodine, Albert G., Jr. Suspension system for sonic well drill or the like. 2,903,242, 9-8-59, Cl. 255-28.
- Bodine, Albert G., Jr. Method of cleaning out well pump tubing and the like. 2,918,127, 12-22-59, Cl. 166-43.
- Bodine, Albert G., Jr., and J. D. Stoakes; said Stoakes assor. to said Bodine. Spark discharge sound generator. 2,887,604, 5-19-59, Cl. 313-232.
- Bodine, William L. Apparatus for removably supporting and tensioning clotheslines. 2,896,792, 7-28-59, Cl. 211-119.15.
- Bodisch, William F. Baling machine. 2,893,308, 7-7-59, Cl. 100-15.
- Bodkin, John A. and R. E. Railway car retarder. 2,904,133, 9-15-59, Cl. 188-62.
- Bodkin, Lawrence E. Storage shoe heel. 2,897,609, 8-4-59, Cl. 36-1.
- Bodkin, Richard E.: *See*—  
Bodkin, John A. and R. E. 2,904,133.



- Bodle, Walter H., to Union Die Casting Co. Can opening and knife sharpening device. 2,897,589, 8-4-59, Cl. 30-4.
- Bodle, Walter H., to Union Die Casting Co. Electric knife sharpener. 2,897,637, 8-4-59, Cl. 51-128.
- Bodley, Harry D.: *See*—  
Alderfer, Sterling W., and Bodley. 2,898,626.
- Bodmer, Albert, and K. Risch, to Heberlein Patent Corp. Process of producing metallizing effects on textiles. 2,907,678, 10-6-59, Cl. 117-71.
- Bodnar, Stephen J.: *See*—  
Wilson, Samuel W., and Bodnar. 2,870,232.
- Bodnaruk, Matt. Safety shield for vehicle wheels. 2,896,968, 7-28-59, Cl. 280-154.5.
- Bodolay, Stephen M. and W. A. Machine for making bags from a continuous web. 2,877,609, 3-17-59, Cl. 53-28.
- Bodolay, William A.: *See*—  
Bodolay, Stephen M. and W. A. 2,877,609.
- Bodong, William C.: *See*—  
Latter, Bruce B., and Bodong. 2,895,781.
- Bodtke, Richard E.: *See*—  
Matthias, Alan R., and Bodtke. 2,889,646.
- Boe, Robert C.: *See*—  
McDonald, Donald C., Boe and Warshawsky. 2,871,660.
- Boedecker, Woodrow S.: *See*—  
Larkin, James, and Boedecker. 2,884,024.
- Boedecker, Woodrow S., to The Bastian Blessing Co. Automatic filling manifold. 2,898,077, 8-4-59, Cl. 249-63.
- Boegehold, Alfred L., to General Motors Corp. Highly wear-resistant sintered powdered metal. 2,881,511, 4-14-59, Cl. 29-182.
- Boegehold, Alfred L., to General Motors Corp. Propeller blade. 2,882,974, 4-21-59, Cl. 170-159.
- Boegehold, Alfred L., and C. W. Vigor, to General Motors Corp. Brazing of titanium members. 2,906,008, 9-29-59, Cl. 29-194.
- Boegle, Charles, to Societe anonyme Procèdes Sauter. Hydraulic coupling. 2,898,739, 8-11-59, Cl. 60-54.
- Boeh, Francis J.: *See*—  
Patrick, Merlyn J. 2,884,046.
- Boehl, Wilhelm, R. R. Worrall, and J. M. Alvey, Jr., to Alvey Conveyor Mfg. Co. Pallet loading machine. 2,883,074, 4-21-59, Cl. 214-6.
- Boehm, Eric G., to Houdaille Industries, Inc. Torsional vibration damper. 2,898,777, 8-11-59, Cl. 74-574.
- Boehm, William C., Jr.: *See*—  
Rowley, Lothair H., and Boehm. 2,906,977.
- Boehme, Robert M.: *See*—  
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- Boehme, Robert M., to National Research Corp. High vacuum. 2,874,710, 2-24-59, Cl. 137-1.
- Boehme, Werner R., to Ethicon, Inc. Method for preparing polyhydroxyacetophenones. 2,907,794, 10-6-59, Cl. 260-592.
- Boehme, Werner R., and J. Nichols, to Ethicon, Inc. 2-halo alkanoyl aminobicyclo (2,2,1) heptane. 2,912,459, 11-10-59, Cl. 260-561.
- Boehn, Hans: *See*—  
Weber, Heinz, Boehn, Schiller, and Stange. 2,886,560.
- Boehne, Eugene W., to Allis-Chalmers Mfg. Co. Circuit interrupter employing means for controlling metallic vapor emission. 2,904,659, 9-15-59, Cl. 200-147.
- Boehringer, C. F., and Soehene G.m.b.H.: *See*—  
Haack, Erich, and Hagedorn. 2,907,692.
- Boehringer, C. H.: *See*—  
Merz, Hans, and Weidlich. 2,872,451.  
Zeile, Karl, and Wick. 2,872,452.
- Boehringer, C. H., Sohn: *See*—  
Schmidt, Ludwig, and Scheffler. 2,892,753.  
Sehring, Richard, and Zeile. 2,890,236.  
Sehring, Richard, and Zeile. 2,898,341.  
Walach, Bruno, Kottler, and Scheffler. 2,880,246.  
Zeile, Karl, and Sehring. 2,890,237.
- Boeing Airplane Co.: *See*—  
Ashbaugh, Fred E., and Kennedy. 2,897,461.  
Beil, Richard L., Holmes, and Daniels. 2,877,644.  
Benton, Bruce M. 2,913,599.  
Benton, Bruce M., and Judkins. 2,896,150.  
Bowly, Clarence W. 2,876,551.  
Bremer, Allen R., and Hull. 2,913,269.  
Butterfield, William C., and Madden. 2,892,925.  
Chambers, Guy R. 2,909,764.  
Clayton, Arthur J. 2,870,936.  
Cook, Walter L. 2,909,651.  
Daum, Edward J. 2,914,855.  
Fehring, Wendell B. 2,915,948.  
Gelbach, Herman R., and Owen. 2,909,061.  
Herren, Alfred B. 2,880,611.  
Hiatt, Melvin A., Bonifaci, and Reed. 2,879,642.  
Hill, Henry C. 2,883,021.  
Hubbard, Robert M. 2,872,533.  
Hyland, Francis G., and Kassel. 2,869,807.  
Jarvis, Alvin J., and Straayer. 2,883,125.  
Marantette, William F. 2,883,529.  
Morrison, John A., and Olson. 2,879,959.  
Murphy, Richard J., Phillips, and Pakko. 2,872,083.  
Peoples, Samuel R. 2,912,634.  
Rice, Lon C., Satre, and Snyder. 2,883,517.  
Seeger, Bernard I. 2,872,133.  
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Stineman, Russell W., and Shearer. 2,917,903.
- Boeing Airplane Co.: *See*—Continued  
Thomasson, Leland T. 2,903,649.  
Weiland, Richard H. 2,872,120.  
Weiland, Richard H. 2,899,152.  
White, Roland J. 2,872,135.  
Wilkes, Wesley H. 2,912,724.
- Boekeloo, Merrill E., F. V. Hoffman, and S. L. Patterson, to Kwikmk, Inc. Self-inking hand stamp. 2,884,858, 5-5-59, Cl. 101-327.
- Boekenkamp, Albert L. Material guide device. 2,916,063, 12-8-59, Cl. 144-136.
- Boelens, Edgard, to Société anonyme "Cockerill-Ougree." Open-hearth furnace with inclined side walls. 2,888,255, 5-26-59, Cl. 263-46.
- Boelter, Edwin D., Jr., to E. I. du Pont de Nemours and Co. Electroformed articles and process for their manufacture. 2,870,709, 1-27-59, Cl. 102-24.
- Boer, Arpad, to Bancroft-Brillotex International S.A. Process for cleaning wool in dry state. 2,895,857, 7-21-59, Cl. 134-7.
- Boerger, Julius W., to H. E. Meltzer. Hand massager. 2,918,055, 12-22-59, Cl. 128-41.
- Boerick, Harold, Jr., Watercraft hydrofoil device. 2,890,672, 6-16-59, Cl. 114-66.5.
- Boerick, Harold, Jr., and J. Bader. Hydrofoil steering, adjusting and retracting mechanism. 2,887,082, 5-19-59, Cl. 114-66.5.
- Boerick, Harold, Jr. Hydrofoil. 2,906,229, 9-29-59, Cl. 114-66.5.
- Boerman, Jan R.: *See*—  
Van Rijssel, Tijs W., Boers, Maartens, Boerman, and Kuhl. 2,887,595.
- Boers, Martinus W. A.: *See*—  
Van Rijssel, Tijs W., and Boers. 2,887,596.  
Van Rijssel, Tijs W., Boers, Maartens, Boerman, and Kuhl. 2,887,595.
- Boersma, Richard F., and R. F. Lo Presti, to Goodman Mfg. Co. Swivel connection for conveyors. 2,889,913, 6-9-59, Cl. 198-95.
- Boesch, Peter V. Fishing rod holders. 2,918,237, 12-22-59, Cl. 248-42.
- Boetel, Harold J.: *See*—  
Wright, Roy E. 2,891,260.
- Boettjer, John H.: *See*—  
Hansen, Franklin A., and Boettjer. 2,872,938.
- Boettcher, Alfred, and P. Himmelstein, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of metals by reduction of their compounds in the vapor phase. 2,870,007, 1-20-59, Cl. 75-84.5.
- Boettcher, Stephen A., to Abrading Systems Co. Lapping machine. 2,912,799, 11-17-59, Cl. 51-131.
- Boettcher, Stephen A., to Abrading Systems Co. Lapping machine. 2,912,802, 11-17-59, Cl. 51-263.
- Boettcher, Stephen A., and J. C. Page, to Abrading Systems Co. Lapping machine. 2,869,294, 1-20-59, Cl. 51-266.
- Boettcher, William A. Mail with frangible extension. 2,874,603, 2-24-59, Cl. 85-28.
- Boettger, Heinz G., and W. C. Ruch, to Allied Chemical Corp. Removal of acetylene from fluorine-containing monoolefins. 2,889,378, 6-2-59, Cl. 260-653.3.
- Boettner, Fred E., to Rohm & Haas Co. Method for the preparation of substituted sorbitylureas. 2,891,944, 6-23-59, Cl. 260-211.
- Boettner, Fred E., and J. L. Rainey, to Rohm & Haas Co. Anhydrosorbityl amides and process of preparation. 2,891,052, 6-16-59, Cl. 260-211.
- Boettner, Fred E., and W. D. Niederhauser, to Rohm & Haas Co. Modified water-soluble polyacrylamides and method of making same. 2,892,823, 6-30-59, Cl. 260-86.1.
- Boettner, Fred E., and W. D. Niederhauser, to Rohm & Haas Co. Polyacrylamide obtained by reacting polymethylacrylate with N-methylglucamine and method of preparing same. 2,892,825, 6-30-59, Cl. 260-89.5.
- Boff, Albert F., to Beckman Instruments, Inc. Frequency selective circuit. 2,914,670, 11-24-59, Cl. 250-27.
- Boffa, Gioacchino: *See*—  
Costabello, Dino, Porri, and Boffa. 2,885,416.
- Bogar, Earl M., Jr. Support for tilting mirrors. 2,874,613, 2-24-59, Cl. 88-99.
- Bogar, Earl M., Jr. Mirror support. 2,916,234, 12-8-59, Cl. 248-28.
- Bogar, Roy L. Fishing reel with spool control mechanism. 2,896,876, 7-28-59, Cl. 242-84.54.
- Bogart, John A., Jr., to Forbes Lithograph Mfg. Co. Display stand. 2,896,793, 7-28-59, Cl. 211-132.
- Bogart Mfg. Corp.: *See*—  
Blatt, Lee N., Peyser, and Lapidus. 2,908,875.  
Lapidus, Solomon, and Peyser. 2,905,910.
- Bogatenkoff, Boris: *See*—  
Regnauld, Pierre, and Bogatenkoff. 2,897,343.
- Bogater, John P., and L. B. Ragsdale, to General Motors Corp. Deck lid hinge with adjustable counterbalance. 2,894,277, 7-14-59, Cl. 16-180.
- Bogater, John P., S. F. Loria, and N. E. Putnam, to General Motors Corp. Lift gate support for station wagon. 2,908,415, 10-13-59, Cl. 217-60.
- Bogdanoff, Bonnie J.: *See*—  
Gibson, Paul, and Bogdanoff. 2,897,075.
- Bogema, Richard E., to The Grav-I-Flo Corp. Power-driven separator. 2,912,108, 11-10-59, Cl. 209-330.



- Bogen, David, Co., Division of The Siegler Corp.: *See*—  
Cohn, David A. 2,888,518.
- Boger, Carl G. Chimney cover. 2,918,859, 12-29-59, Cl. 98—83.
- Böger, Marius F. W. Device to develop photographic layer-carriers by the diffusion process. 2,894,440, 7-14-59, Cl. 95—89.
- Bogert, Bruce P., to Bell Telephone Laboratories, Inc. Automatic phase equalizer. 2,908,873, 10-13-59, Cl. 333—18.
- Bogert, Bruce P., and W. E. Kock, to Bell Telephone Laboratories, Inc. Narrow band transmission of speech. 2,890,285, 6-9-59, Cl. 179—15.55.
- Bogert, Robert C., and G. A. Olson, to North American Aviation, Inc. Variable area jet engine inlet duct. 2,876,621, 3-10-59, Cl. 60—35.6.
- Bogert, Virgil V., to Chas. Pfizer & Co. Purification process. 2,872,442, 2-3-59, Cl. 260—210.
- Bogert, William M., and H. V. Johnson, to Westinghouse Electric Corp. Tap-changing equipment. 2,915,694, 12-1-59, Cl. 323—43.5.
- Bogese, Stephen B., to Virginia Plastics and Chemical Co., Inc. Protective sheath for a cable connector. 2,894,056, 7-7-59, Cl. 174—92.
- Bogeskov, Bernard E. Method for wrapping an object with adhesive tape. 2,873,564, 2-17-59, Cl. 53—3.
- Boggess, Ray D. Ash tray for motor vehicles. 2,918,166, 12-22-59, Cl. 206—19.5.
- Boggs, Alben C., to Edwin L. Wiegand Co. Thermal responsive device. 2,873,347, 2-10-59, Cl. 219—19.
- Boggs, Alben C., to E. L. Wiegand Co. Methods of and means for sealing the terminal opening of an electric heater. 2,876,322, 3-3-59, Cl. 201—67.
- Boggs, Fitzhugh W., to United States Rubber Co. Process for compounding a conjugated diolefin polymer with a siliceous filler and an organohalosilane. 2,897,173, 7-28-59, Cl. 260—41.5.
- Boggs, Fitzhugh W., to United States Rubber Co. Method of preparing polyurethane starch reaction products and product thereof. 2,908,657, 10-13-59, Cl. 260—9.
- Boggs, Gail E., to United States of America, Commerce. Stabilized non-linear amplifiers. 2,883,527, 4-21-59, Cl. 250—27.
- Boggs, H. D. Co., Ltd.: *See*—  
Boggs, Herbert D. 2,912,041.
- Boggs, Herbert D., to H. D. Boggs Co., Ltd. Core compactor. 2,912,041, 11-10-59, Cl. 164—1.
- Boggs, Walter W.: *See*—  
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- Bogner, Richard D., to Standard Coil Products Co., Inc. Transmission line transformer. 2,877,430, 3-10-59, Cl. 333—26.
- Bogner, Richard D., L. Staschover, and R. E. Bachman, to Sterling Precision Corp. Automatic target range. 2,883,194, 4-21-59, Cl. 273—105.6.
- Bogoff, Henry. Making of cuff links and the like. 2,887,746, 5-26-59, Cl. 22—202.
- Bogot, Alexander, and G. E. Gandsey, to Combustion Engineering, Inc. Pulverizing mill with novel outlet. 2,868,462, 1-13-59, Cl. 241—53.
- Bogot, Alexander, and V. Z. Caracristi, to Combustion Engineering, Inc. Tilting nozzle for fuel burner. 2,895,435, 7-21-59, Cl. 110—28.
- Boham, Galen, and R. J. Painter; said Painter assor. to said Boham. Ladder safety bracket. 2,886,277, 5-12-59, Cl. 248—206.
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- Bohannon, William D., Jr., to Western Electric Co., Inc. Soldering irons. 2,876,328, 3-3-59, Cl. 219—26.
- Bohaty, Gene, to Mystik Adhesive Products, Inc. Pressure-sensitive tapes and method for manufacturing same. 2,878,142, 3-17-59, Cl. 117—76.
- Bohlen, Charles I.: *See*—  
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- Bohlen, Charles I., to L. L. Mellam. Trailer wheel towing device. 2,890,897, 6-16-59, Cl. 280—491.
- Bohlen, Charles I. Anti-chatter device for vehicles. 2,912,252, 11-10-59, Cl. 280—104.5.
- Bohler & Weber Kommanditgesellschaft: *See*—  
Fuhring, Heinrich. 2,908,086.
- Bohlin, Nils I., to Svenska Aeroplan Aktiebolaget. Ejection seat for airplanes. 2,879,715, 3-31-59, Cl. 104—246.
- Bohlinger, Arthur L.: *See*—  
Tilli, Vincent L., and Bohlinger. 2,873,759.
- Bohlman, Ivan C. and R. A. Holding device. 2,919,097, 12-29-59, Cl. 248—226.
- Bohlman, Raymond A.: *See*—  
Bohlman, Ivan C. and R. A. 2,919,097.
- Bohlman, Walter S., to Hercules Powder Co. Discharge table assembly for packer. 2,906,073, 9-29-59, Cl. 53—126.
- Bohlmann, Edward G.: *See*—  
Brown, Harrison S., and Bohlmann. 2,873,168.
- Bohlmann, Edward G., to United States of America, Atomic Energy Commission. Separation of thorium from uranium by extraction. 2,897,046, 7-28-59, Cl. 23—14.5.
- Bohme Fettchemie G.m.b.H.: *See*—  
Heyden, Rudi. 2,885,417.  
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Heyden, Rudi, Plapper, and Raab. 2,892,673.  
Heyden, Rudi, Plapper, and Schmitt. 2,890,096.  
Wedell, Hans. 2,872,351.
- Bohme, Hans P., to Joh. Kleinewefers Sohne. Drive for printing rollers of printing machines. 2,869,459, 1-20-59, Cl. 101—248.
- Bohme, Otto, F. Mott, J. Pfirsche, and H. Wollthan, to Farbenfabriken Bayer Akt. Production of isocyanates. 2,875,225, 2-24-59, Cl. 260—453.
- Bohn Aluminum & Brass Corp.: *See*—  
Boyle, John R., and Gold. 2,902,835.
- Bohn, Donald I. Electromagnet. 2,880,382, 3-31-59, Cl. 317—165.
- Bohn, Donald I. Radial engine-master crank pin bearing assembly. 2,877,663, 3-17-59, Cl. 74—580.
- Bohn, Donald I., to Aluminum Co. of America. Bearing assembly. 2,884,284, 4-28-59, Cl. 308—127.
- Bohn, Donald I. Ignition system without contacts. 2,886,719, 5-12-59, Cl. 307—108.
- Bohn, Frank W. Safety frame for vehicles. 2,896,735, 7-28-59, Cl. 180—83.
- Bohnhoff, Arthur F.: *See*—  
Wysong, Paul V., Jr., Bohnhoff, and West. 2,878,788.
- Bohnhoff, Arthur F., and K. E. Faiver, to General Motors Corp. Control apparatus for vehicle pneumatic suspension. 2,917,320, 12-15-59, Cl. 280—124.
- Bohnsack, John A., to Aetna Steel Products Corp. Partition construction. 2,867,300, 1-6-59, Cl. 189—34.
- Boho, Mitchell J.: *See*—  
Anderson, George R., Boho, and Fulmer. 2,904,017.
- Boho, Mitchell J., to Hagan Chemicals & Controls, Inc. Apparatus for controlling the flow of hot blast to the tuyeres of blast furnaces. 2,904,327, 9-15-59, Cl. 266—30.
- Bohrn, Georg: *See*—  
Urban, Walter, and Bohrn. 2,867,879.
- Boice, Elvin G.: *See*—  
Peter, Robert G., and Boice. 2,918,315.
- Boice, Elvin G., to Reed Roller Bit Co. Well drilling tool. 2,904,374, 9-15-59, Cl. 308—8.2.
- Boice, Elvin G., to Reed Roller Bit Co. Method of making a pipe joint. 2,917,822, 12-22-59, Cl. 29—447.
- Boice, Elvin G., and R. G. Peter, to Reed Roller Bit Co. Drill bits. 2,901,224, 8-25-59, Cl. 255—349.
- Boicey, Charles R., and W. J. Hubbard, to Libbey-Owens-Ford Glass Co. Multiple sheet glazing units. 2,886,864, 5-19-59, Cl. 20—56.5.
- Boies, David B., and T. A. Nordsell, to National Aluminate Corp. Non-corrosive petroleum distillates. 2,904,415, 8-15-59, Cl. 44—66.
- Boirasky, Abe: *See*—  
Rucker, Ralph V. 2,880,776.
- Boisture, Worth W.: *See*—  
Swabb, Lawrence E., Jr., and Boisture. 2,899,384.
- Boisture, Worth W., to Esso Research and Engineering Co. Fluid coking reactor and process. 2,880,169, 3-31-59, Cl. 208—157.
- Boisture, Worth W., B. V. Molstedt, R. F. Stringer, and L. I. Griffin, Jr., to Esso Research and Engineering Co. Apparatus and process for preparation of seed coke for fluid bed coking of hydrocarbons. 2,874,095, 2-17-59, Cl. 202—25.
- Boitel, Arwed C., to Alton Box Board Co. Packaging of books and the like. 2,885,842, 5-12-59, Cl. 53—34.
- Boiteux, Roland Y. Lamp with variable intensity light source. 2,884,514, 4-28-59, Cl. 240—81.
- Boitnott, Boyd D., to Oil Center Tool Co. Constant volume controls. 2,918,933, 12-29-59, Cl. 137—502.
- Boje, Herbert H., and A. Schulz, to Armstrong Cork Co. Hydraulically actuated pressure foot for wood grinders. 2,918,039, 12-22-59, Cl. 121—1.
- Bok, Cornelis: *See*—  
Selling, Hendrik J., and Bok. 2,901,776.
- Bok, Harald A. Continuous cooking apparatus. 2,909,114, 10-20-59, Cl. 99—237.
- Bokelman, Marinus C.: *See*—  
Baldwin, Lee E., and Bokelman. 2,881,794.
- Boker, Samuel J., G. S. Lazarus, and J. R. Sassoon. Check-writer. 2,896,533, 7-28-59, Cl. 101—101.
- Bokowski, Joseph G. Flexible drive coupling. 2,880,689, 4-7-59, Cl. 115—35.
- Bola, Joseph, Jr.: *See*—  
Bonotto, Michele. 2,903,359.
- Boland, Albert J., Jr.: *See*—  
Boland, Albert J., Sr., and A. J. Boland, Jr. 2,869,847.
- Boland, Albert J., Sr., and A. J. Boland, Jr. Furnace slot cover and operating mechanism. 2,869,847, 1-20-59, Cl. 263—8.
- Bolanowski, John P.: *See*—  
Miller, Brude D., Reigel, Bolanowski, and Bevarly. 2,898,092.
- Bolay, Errol: *See*—  
Portenier, Ernst, Spinnler, Bolay, and Riolo. 2,871,372.
- Bolay, Errol, to Albiswerk Zurich, A.G. Filter arrangement for infrared viewing apparatus. 2,903,592, 9-8-59, Cl. 250—83.3.
- Boldebeck, Edith M., to General Electric Co. Halosilane hydrolysis with tetrahydrofuran and water. 2,901,460, 8-25-59, Cl. 260—46.5.
- Boldrini, Rino. Machine for curving and bending metallic sheets of different thickness. 2,870,817, 1-27-59, Cl. 153—54.
- Boldt, Juan A. Detachable top lift for ladies heel with bayonet lock. 2,912,773, 11-17-59, Cl. 36—42.



- Boldt, Melvin H., D. P. Chuboff, and D. J. Shooter, to Borg-Warner Corp. Indicator dial for range. 2,887,086, 5-19-59, Cl. 116-124.
- Boler, Leonard J., to Bendix Aviation Corp. High pressure shut-off valve. 2,918,072, 12-22-59, Cl. 137-38.
- Boles, Bernard J.: *See*—
- Fuzak, George I., and Boles. 2,875,758.
- Boles, Nolan F. Child's automobile safety belt. 2,877,833, 3-17-59, Cl. 155-189.
- Bolesky, John D., to A. Medert, and R. W. Bolesky, trustees. Thermostatic controls. 2,891,128, 6-16-59, Cl. 200-138.
- Bolesky, Russell W.: *See*—
- Bolesky, John D. 2,891,128.
- Bolger, Henry. Paper roll holder. 2,908,449, 10-13-59, Cl. 242-55.2.
- Bolger, James W.: *See*—
- Tanabe, Masato, and Bolger. 2,911,402.
- Bolger, Paul S. Push toy. 2,879,625, 3-31-59, Cl. 46-107.
- Bolidens Gruvaktiebolag: *See*—
- Carlén, Sölve, and Lundquist. 2,897,107.
- Bolie, Victor W., to Collins Radio Co. Electrostatic meter. 2,888,671, 5-26-59, Cl. 340-347.
- Bolie, Victor W., to Collins Radio Co. Optical analogue of a radio scattering atmosphere. 2,893,138, 7-7-59, Cl. 35-19.
- Bolie, Victor W., to Collins Radio Co. Tuning system for frequency synthesizing means. 2,894,133, 7-7-59, Cl. 250-27.
- Bolie, Victor W., to Collins Radio Co. Low level microwave power meter. 2,901,700, 8-25-59, Cl. 324-95.
- Bolie, Victor W., to Collins Radio Co. Decade to binary converter. 2,905,935, 9-22-59, Cl. 340-347.
- Boling, Cecil, to Dunham-Bush, Inc. Refrigeration system including defrosting apparatus. 2,876,630, 3-10-59, Cl. 62-234.
- Boling, Owen S. Margin signal for typewriters. 2,913,096, 11-17-59, Cl. 197-187.
- Boling, Virgil E. Variable speed transmission. 2,894,417, 7-14-59, Cl. 74-751.
- Bollingbroke, Frank: *See*—
- Butterworth, Harold, and Bollingbroke. 2,906,540.
- Bolkcom, Wilbur T.: *See*—
- Knapp, William E., and Bolkcom. 2,888,741.
- Bolkcom, Wilbur T., and W. E. Knapp. Manganese-nickel base brazing alloys. 2,872,309, 2-3-59, Cl. 75-134.
- Bolkcom, Wilbur T., and W. E. Knapp, to American Metallurgical Products Co. Copper and copper base alloys and methods of making the same. 2,879,159, 3-24-59, Cl. 75-153.
- Boll, Herman M.: *See*—
- Woolfolk, Eldon W., and Boll. 2,915,215.
- Boll, Martin W., E. E. Trolio, and R. M. McRobbie, to Richmond Screw Anchor Co., Inc. Concrete inserts. 2,880,608, 4-7-59, Cl. 72-105.
- Bolland, Oscar J. Automatic fishing devices. 2,898,696, 8-11-59, Cl. 43-15.
- Bollefer, Dwight L.: *See*—
- Woodmark, Glenn E., and Bollefer. 2,892,323.
- Bollenbacher, Earle P., and W. J. Pankuch, to Thompson Products, Inc. Mechanical stop system. 2,905,009, 9-22-59, Cl. 74-412.
- Bollenback, Carol H., and C. E. Johnson, to National Aluminate Corp. Chemical compositions. 2,875,210, 2-24-59, Cl. 260-309.6.
- Boller, Ernest R.: *See*—
- Eubank, Lowell D., and Boller. 2,872,343.
- Boller, Harry B., to Schlumberger Well Surveying Corp. Borehole apparatus. 2,892,501, 6-30-59, Cl. 166-100.
- Boller, Robert A.: *See*—
- Konen, James C., and Boller. 2,877,194.
- Bolles, Charles J., Jr., to General Motors Corp. Manifold with variable length ram pipes. 2,894,497, 7-14-59, Cl. 123-52.
- Bolles, James C., R. M. Matthews, and F. E. Bobo, Jr., to Chadbourn Gotham, Inc. Lady's full-fashioned hose having a non-bulky seam. Re. 2,473,71, 11-17-59, Cl. 66-178.
- Bollmann, Karl, to Landis & Gyr A.G. Electrical measuring instrument. 2,884,596, 4-28-59, Cl. 324-137.
- Bollmann, Karl, to Landis & Gyr A.G. Multiple rate electricity meters. 2,889,111, 6-2-59, Cl. 235-92.
- Bollmeier, Emil W., to Minnesota Mining & Mfg. Co. Splice-protector. 2,877,288, 3-10-59, Cl. 174-92.
- Bollmeier, Emil W., to Minnesota Mining & Mfg. Co. Wire-connector. 2,890,266, 6-9-59, Cl. 174-87.
- Bollmeier, Emil W., to Minnesota Mining and Mfg. Co. Cable splice cover. 2,908,744, 10-13-59, Cl. 174-76.
- Bollo, Francis G.: *See*—
- Van Winkle, John L., Bollo, and Morris. 2,915,875.
- Bolmeyer, Kenneth A., to General Electric Co. Vehicle headlamp mounting. 2,910,577, 10-27-59, Cl. 240-41.6.
- Bolstad, Archibald N., to Minnesota Mining and Mfg. Co. Polymerization apparatus. 2,904,409, 9-15-59, Cl. 23-285.
- Bolstad, Archibald N., and R. L. Herbst, Jr., to Minnesota Mining and Mfg. Co. Polymerization process employing a perfluorocarboxylic acid as an emulsifying agent. 2,874,152, 2-17-59, Cl. 260-92.1.
- Bolstad, Archibald N., and J. M. Hoyt, to Minnesota Mining and Mfg. Co. 5,5,5-trifluoropentadiene-1,3 copolymers. 2,892,824, 6-30-59, Cl. 260-87.5.
- Bolstad, Archibald N., and F. J. Honn, to Minnesota Mining and Mfg. Co. Copolymers of fluoro-1,3-dienes and isobutene. 2,911,396, 11-3-59, Cl. 260-87.5.
- Bolstad, Archibald N., and J. M. Hoyt, to Minnesota Mining and Mfg. Co. Copolymers of fluorinated dienes. 2,915,508, 12-1-59, Cl. 260-87.5.
- Bolster, Ronald H.: *See*—
- Deming, Mark A., and Bolster. 2,906,135.
- Bolster, Ronald H., to Clark Equipment Co. Transmission. 2,867,126, 1-6-59, Cl. 74-360.
- Bolt Beranek and Newman Inc.: *See*—
- Baruch, Jordan J., and Allen. 2,893,508.
- Bolt, Robert H., to Deere & Co. Adjustable support for partition-to-floor mountings. 2,877,875, 3-17-59, Cl. 189-34.
- Bolt, Robert O.: *See*—
- Wright, James R., and Bolt. 2,915,567.
- Bolt, Robert O., B. J. Fontana, and J. B. Wright, to United States of America, Atomic Energy Commission. Inhibited reactor coolants and use thereof. 2,883,331, 4-21-59, Cl. 204-193.2.
- Boltach, Helen. Pin for fabrics. 2,873,708, 2-17-59, Cl. 112-262.
- Bolter, John R.: *See*—
- Kolb, Paul, Arkless, and Bolter. 2,867,408.
- Bolton, David E., F. Bristol, and M. R. Swan. Parachute canopy release. 2,914,273, 11-24-59, Cl. 244-151.
- Bolton, Heinrich: *See*—
- Buchkremer, Josef, Bolton, Lutz, and Wistuba. 2,913,772.
- Bolton, Jimmie B. Folding bed chair. 2,867,821, 1-13-59, Cl. 5-332.
- Bolton, John W., & Sons, Inc.: *See*—
- Lundy, Rodney B., and Miller. 2,917,069.
- Polleys, Richard W. 2,917,245.
- Prevost, Bruno E. 2,871,769.
- Prevost, Bruno E. 2,896,711.
- Stuck, Harold D. 2,911,334.
- Bolton, Wallis D., to International Business Machines Corp. Apparatus for fixing electrographic printer images. 2,884,704, 5-5-59, Cl. 34-1.
- Bolton, Wallis D., to International Business Machines Corp. Electrophotographic printer. 2,889,758, 6-9-59, Cl. 95-1.7.
- Bolton, Wallis D., to International Business Machines Corp. Xerographic drum charging apparatus. 2,890,343, 6-9-59, Cl. 250-49.5.
- Bolton, Wallis D., to International Business Machines Corp. Data storage device. 2,910,229, 10-27-59, Cl. 235-61.11.
- Bolton, Wilbur M., and R. L. Ruse, to The Commonwealth Engineering Co. of Ohio. Precision vapor or sand blasting machines. 2,901,867, 9-1-59, Cl. 51-15.
- Boltz, Paul T.: *See*—
- Clark, Austin B. J., and Boltz. 2,882,796.
- Bolz, Alfred R., to American Telephone and Telegraph Co. Method of fabricating a grid electrode. 2,869,015, 1-13-59, Cl. 313-350.
- Bomac Laboratories Inc.: *See*—
- Alexander, Herbert C. 2,903,655.
- Alexander, Herbert C., and Burr. 2,918,603.
- Gilbert, Gordon W. 2,883,615.
- MacDonough, Francis X., and Vant. 2,897,417.
- Record, Frank A. 2,902,566.
- Roberts, Louis W. 2,879,438.
- Boman, Thomas G. Ironing board cover. 2,873,544, 2-17-59, Cl. 38-140.
- Bombardier, Germain. Endless tread for motor driven vehicles. 2,899,242, 8-11-59, Cl. 305-10.
- Bomberger, Howard B., and M. B. Vordahl, to Crucible Steel Co. of America. Metal pickling solutions and methods. 2,876,144, 3-3-59, Cl. 134-3.
- Bomke, Hans A., to United States of America, Army. Optical microwave power measuring system. 2,913,665, 11-17-59, Cl. 324-95.
- Bommer Spring Hinge Co., Inc.: *See*—
- Engels, Walter. 2,899,718.
- Frohlich, Hans. 2,875,468.
- Frohlich, Hans. 2,880,449.
- Kessler, Joseph H., and Engels. 2,904,825.
- Bon, Charles K.: *See*—
- Neipert, Marshall P., and Bon. 2,885,282.
- Bon, Henri, to Etablissements Neyrpic. Corer for turbine driven well drilling units. 2,910,273, 10-27-59, Cl. 255-4.
- Bonaguro, John, to Unity Mfg. Co. Remote control mirror. 2,917,972, 12-22-59, Cl. 88-93.
- Bonami, Ernest: *See*—
- Hengsen, Bernard T., Bonami, and Clemens. 2,907,152.
- Bonanno, Joseph L., to The Lionel Corp. Stereoscopic viewers. 2,889,744, 6-9-59, Cl. 88-31.
- Bonanno, Joseph L., to The Lionel Corp. Toy railroad systems. 2,896,202, 7-21-59, Cl. 340-388.
- Bonanno, Joseph L., to The Lionel Corp. Toy electric locomotives. 2,897,770, 8-4-59, Cl. 105-49.
- Bonanno, Joseph L., to The Lionel Corp. Toy railroad cars. 2,901,863, 9-1-59, Cl. 46-245.
- Bonanno, Joseph L., to The Lionel Corp. Railway dump car. 2,906,213, 9-29-59, Cl. 105-268.
- Bonanno, Joseph L., to The Lionel Corp. Toy vehicles. 2,910,011, 10-27-59, Cl. 105-49.
- Bonanno, Joseph L., and F. Pettit, to The Lionel Corp. Toy railroad trackside accessories. 2,882,644, 4-21-59, Cl. 46-40.
- Bonatz, Peter, and O. H. Drager; said Bonatz assor. to said Drager. Exit shaft section for shelters. 2,903,875, 9-15-59, Cl. 72-1.



- Bonbrake, Lawrence D., deceased, by L. A. Bonbrake, administratrix, to United States of America, Navy. Sonobuoy dispenser. 2,913,198, 11-17-59, Cl. 244—137.
- Bonbrake, Leona A.: *See*—  
Bonbrake, Lawrence D. 2,913,198.
- Bond, Boyce C. Process and apparatus for treating fibrous materials. 2,876,063, 3-3-59, Cl. 8—151.
- Bond, Edgar L., Jr. Dispenser for tubes. 2,901,147, 8-25-59, Cl. 222—102.
- Bond, George C.: *See*—  
Smith, Raymond A., McClure, and Bond. 2,899,274.
- Bond, George R., Jr., to Houdry Process Corp. Esterification method. 2,910,489, 10-27-59, Cl. 260—407.
- Bond, George R., Jr., to Houdry Process Corp. Purification of piperazine. 2,919,275, 12-29-59, Cl. 260—268.
- Bond, Herbert M., and G. L. Groff, to Minnesota Mining and Mfg. Co. Silicone pressure-sensitive adhesive tape. 2,882,183, 4-14-59, Cl. 117—68.5.
- Bond, Jean B., to Monsanto Chemical Co. Method of making esters of haloaryloxy fatty acids. 2,878,278, 3-17-59, Cl. 260—473.
- Bond, Ralph W., and E. R. Brenholts. Combination road planer and rock crusher. 2,909,231, 10-20-59, Cl. 171—24.
- Bond Research Laboratories, Inc.: *See*—  
Guaraldi, Leonard A. 2,879,797.
- Bond, Scott R., to Levolor Loretzen, Inc. Curtain cord equalizer. 2,877,527, 3-17-59, Cl. 24—123.
- Bonda, Hendrikus J., to Bonda's Veevoederbureau N.V. Methods and apparatus for pretreating green fodder. 2,890,956, 6-16-59, Cl. 99—8.
- Bondanini, Faliero. Coffee filter pot. 2,900,896, 8-25-59, Cl. 99—297.
- Bonda's Veevoederbureau N.V.: *See*—  
Bonda, Hendrikus J. 2,890,956.
- Bondi, Arnold A., and L. B. Scott, to Shell Development Co. Hydroxy-containing copolymers and their preparation. 2,913,439, 11-17-59, Cl. 260—87.3.
- Bondi, Henry S., and J. G. Spitzer, to Carter Products, Inc. Low caloric Italian dressing. 2,916,384, 12-8-59, Cl. 99—144.
- Bondley, Ralph J., to General Electric Co. Waveguide window. 2,881,401, 4-7-59, Cl. 333—98.
- Bondley, Ralph J., to General Electric Co. External resonant section tubes. 2,910,614, 10-27-59, Cl. 315—546.
- Bondley, Ralph J., and M. E. Knoll, to General Electric Co. Conductive cements. 2,888,406, 5-26-59, Cl. 252—516.
- Bondley, Ralph J., and W. H. Teare, to General Electric Co. Electrode assembly. 2,900,541, 8-18-59, Cl. 313—32.
- Bondurant, Carlton W.: *See*—  
Wood, Charles W., and Bondurant. 2,889,700.  
Wood, Charles W., and Bondurant. 2,891,730.
- Bondurant, Carlton W., to Standard-Thomson Corp. Fluid control valve. 2,885,152, 5-5-59, Cl. 236—34.
- Bone, Arnold R., and D. D. Sloan, to Dennison Mfg. Co. Apparatus for operating on sectional tag material. 2,890,650, 6-16-59, Cl. 101—19.
- Bone, Herbert L., to Westinghouse Air Brake Co. Snow blower control systems. 2,894,704, 7-14-59, Cl. 246—428.
- Bone, Herbert L., to Westinghouse Air Brake Co. Vehicle weight controller. 2,902,595, 9-1-59, Cl. 246—251.
- Bonetate, Michael J. Means for indicating proper stroke in golf. 2,910,297, 10-27-59, Cl. 273—186.
- Bonfanti, Vittorio. Articulator for prosthetic dentistry. 2,884,696, 5-5-59, Cl. 32—32.
- Bongiovanni, John C., to The Osborn Mfg. Co. Strip processing mechanism. 2,913,809, 11-24-59, Cl. 29—81.
- Bonham, Claude F., to Fada Radio & Electric Co., Inc. Roll mechanism for tool dressing machine. 2,909,945, 10-27-59, Cl. 76—5.
- Bonham, Don L., to Pacific Mercury Television Mfg. Corp. Attenuating circuit for electric organ. 2,913,948, 11-24-59, Cl. 84—119.
- Boni, Frank, Jr.: *See*—  
Gardner, Karl A., Gardner, and Boni. 2,911,200.
- Boni, Frank, Jr., to The Griscom-Russell Co. Heat exchanger tube sheet thermal shield construction. 2,915,295, 12-1-59, Cl. 257—236.
- Bonifaci, Leonard P.: *See*—  
Hiatt, Melvin A., Bonifaci, and Reed. 2,879,642.
- Bonin, Richard E., and G. R. Townsend, to General Electric Co. Interlocking mechanism. 2,889,420, 6-2-59, Cl. 200—50.
- Bonine, Ralph O.: *See*—  
Boden, Samuel H., and Bonine. 2,889,396.
- Bonisch, Josef: *See*—  
Gopfert, Herbert, and Bonisch. 2,896,756.
- Bonistall, John F., to Shawnee Pottery Co. Television antenna, light and tray. 2,879,507, 3-24-59, Cl. 343—721.
- Bonk, Chaim: *See*—  
Rafowitz, Samuel, and Bonk. 2,883,669.
- Bonmartini, Giovanni, to "E S T" Etablissement Sciences Techniques. Rolling devices for vehicles of any kind. 2,876,049, 3-3-59, Cl. 305—10.
- Bonn, Leonard. Infinite baffle comprising a spherical shell of foamed plastic. 2,881,850, 4-14-59, Cl. 181—31.
- Bonn, Mathias, to F. Soennecken. Loose leaf binders. 2,894,400, 7-14-59, Cl. 74—96.
- Bonn, Theodore H.: *See*—  
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Torrey, Robert D., and Bonn. 2,901,636.
- Bonn, Theodore H., to Sperry Rand Corp. Magnetic gating on core inputs. 2,907,894, 10-6-59, Cl. 307—88.
- Bonnafe, Oliver W., to The Lapointe Machine Tool Co. Bi-level broaching machine. 2,870,688, 1-27-59, Cl. 90—33.
- Bonnafox, Paul. Rotary pellet mill. 2,870,481, 1-27-59, Cl. 18—12.
- Bonnar, James G.: *See*—  
Crow, Clarence C., and Bonnar. 2,871,301.
- Bonnassieux, Jean: *See*—  
Sejournet, Jacques, and Bonnassieux. 2,893,554.
- Bonnaud, Henri: *See*—  
Spondlin, Rodolphe, Stouls, Bonnaud, and Simonet. 2,917,902.
- Bonneau, Louis P., to Department of Mines. Material classification. 2,910,178, 10-27-59, Cl. 209—144.
- Bonnell, Charles R., to Minneapolis-Honeywell Regulator Co. Two-axis rate gyros. 2,868,023, 1-13-59, Cl. 74—5.6.
- Bonnell, William S., and H. B. Willard, to Gulf Oil Corp. Process of preparing purified oxo product and production of alcohols. 2,880,244, 3-31-59, Cl. 260—638.
- Bonner, Charles A., to Pittsburgh Plate Glass Co. Movable table run-out and return apparatus. 2,874,644, 2-24-59, Cl. 104—48.
- Bonner, Charles F.: *See*—  
Ryburn, Jake R., and Bonner. 2,897,742.
- Bonner, Edwin K., Jr., and C. J. Wickert, to S. L. Allen & Co., Inc. Riding gang mower attachment for tractors. 2,890,561, 6-16-59, Cl. 56—7.
- Bonner, Gilbert B., to International Business Machines Corp. Cam operated code setup mechanism. 2,905,301, 9-22-59, Cl. 197—49.
- Bonner, Melvin L.: *See*—  
Hedges, Roy E. 2,867,903.
- Bonner, Olga B.: *See*—  
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- Bonner, Raymond W., and F. P. Veslock. Electrical audio range sweep oscillator. 2,903,648, 9-8-59, Cl. 331—47.
- Bonner, Tom W., and R. L. Caldwell, to Socony Mobil Oil Co., Inc. Measurement of gamma ray energy due to inelastic neutron scattering. 2,905,826, 9-22-59, Cl. 250—83.6.
- Bonnerre, Lucien, to Compagnie Auxiliaire d'Electricite et d'Entreprise. Mould for vulcanization of electrical cables. 2,899,527, 8-11-59, Cl. 219—19.
- Bonness, Donald J.: *See*—  
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- Bonnet, Francois. Automatic slicing machines. 2,879,817, 3-31-59, Cl. 146—102.
- Bonnet, Paul: *See*—  
Cahen, Gilbert M., Bonnet, and Treille. 2,871,365.
- Bonnet, Robert W., and T. G. Connor, to Duncan Electric Co., Inc. Separable connector clamp. 2,877,443, 3-10-59, Cl. 339—272.
- Bonnet, William E., to Sun Oil Co. Partial oxidation of hydrocarbons. 2,890,245, 6-9-59, Cl. 260—524.
- Bonney-Floyd Co., The: *See*—  
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- Bonney Forge & Tool Works: *See*—  
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- Bonney, John L. V., Jr., 1/2 to The Bonney-Floyd Co. and 1/2 to Foundry Services, Inc. Method of hardening of sand cores and the like. 2,874,428, 2-24-59, Cl. 22—193.
- Bonney, Robert B.: *See*—  
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- Bonnier, Etienne: *See*—  
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- Bono, Luigi, to Vittorio Necchi S. p. A. Rotary hook for sewing machines. 2,869,495, 1-20-59, Cl. 112—230.
- Bono, Luigi, to Vittorio Necchi Societa per Azioni. Cloth feed mechanism for sewing machines. 2,874,662, 2-24-59, Cl. 112—215.
- Bono, Luigi, to Vittorio Necchi Societa per Azioni. Zigzag control device for sewing machines. 2,905,119, 9-22-59, Cl. 112—158.
- Bonorden, Allen R., to Bell Telephone Laboratories, Inc. Translator. 2,912,679, 11-10-59, Cl. 340—174.
- Bonotto, Michele, 1/2 to McCormick & Co., Inc., and 1/2 to R. M. Webster, J. Bola, Jr., and said Bonotto, jointly. Process for coffee. 2,903,359, 9-8-59, Cl. 99—71.
- Bonrath, Wilhelm, and E. Urbschat, to Farbenfabriken Bayer Akt. Method of disinfecting seed grain by applying a composition comprising an hydroxyl aromatic diazo derivative. 2,889,245, 6-2-59, Cl. 167—30.
- Bonstedt, Kurt P., to Koppers Co., Inc. Tricresylphosphate process. 2,870,192, 1-20-59, Cl. 260—461.
- Bontempi, Joseph, to Pullman Couch Co. Sofa bed folding mechanism. 2,876,461, 3-10-59, Cl. 5—13.
- Bonton, Gertrude V.: *See*—  
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- Bonvicino, Guido E., and J. H. Boothe, to American Cyanamid Co. Tetracycline and chlortetracycline quaternary alkylhalides. 2,911,441, 11-3-59, Cl. 260—559.
- Bonvini, Robert C., and W. F. Gryskiewicz. Syringe for ejecting plastic material. 2,869,763, 1-20-59, Cl. 222—388.
- Bonza, Louis F., and F. W. Thomas, to Lockheed Aircraft Corp. Water repellent silicon compounds. 2,877,201, 3-10-59, Cl. 260—33.6.
- Bonzagni, Francis A., O. P. Cohen, and A. H. Markhart, to Monsanto Chemical Co. Thermosetting resins and high wet strength paper prepared therefrom. 2,917,427, 12-15-59, Cl. 162—167.
- Boode, Carl N., to Bourns Laboratories, Inc. Insulation resistance measuring circuit. 2,916,697, 12-8-59, Cl. 324—54.



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- Booker, Aylwin R., to Aquadynamics, Inc. Ground for marine radio. 2,909,589, 10-20-59, Cl. 174-6.
- Booklund, Paul H., to American Can Co. Apparatus for rotating articles. 2,889,028, 6-2-59, Cl. 198-33.
- Bookmyer, Raymond F.: See—  
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- Bookout, Floyd V., H. R. Craven, and E. C. Johnson, to The Vendo Co. Package vending machine. 2,888,165, 5-26-59, Cl. 22-77.
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- Bookwalter, William H., 50% to J. G. Wasson. Signal device. 2,915,036, 12-1-59, Cl. 116-35.
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- Boomer, Daryl R., E. T. Clapperton, and R. C. Phillips, to Wooduse, Inc. Continuous process for conversion of ligno-cellulose materials. 2,901,339, 8-25-59, Cl. 71-23.
- Boon, Harold A., to J. Lyons & Co. Ltd. Preparation and cold storage of ice cream. 2,903,370, 9-8-59, Cl. 99-180.
- Boon, Hendrikus J.: See—  
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- Boone, Philip. Display materials, devices and systems. 2,882,631, 4-21-59, Cl. 40-130.
- Boone, Wallace D., to O P W Corp. Automatic liquid dispensing nozzles. 2,874,735, 2-24-59, Cl. 141-208.
- Boonton Radio Corp.: See—  
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- Boor, Ladislav, to United States of America, Army. Article mounting. 2,867,053, 1-6-59, Cl. 41-35.
- Boortz, John A. Portable folding swivel chair. 2,876,825, 3-10-59, Cl. 155-139.
- Boosey, Frederick R., to The Sigma Instrument Co. Ltd. Apparatus for controlling a machine tool in response to dimensional changes of a workpiece. 2,871,629, 2-3-59, Cl. 51-165.
- Boosman, Frank C., to Parker-Hannifin Corp. Shuttle valve. 2,900,166, 8-18-59, Cl. 251-175.
- Booth, Albert B.: See—  
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Bain, Joseph P., Booth, Hunt, and Klein. 2,871,268.
- Booth, Albert B., to The Glidden Co. Preparation of tertiary aliphatic terpene alcohols. 2,871,271, 1-27-59, Cl. 260-614.
- Booth, Albert B., to The Glidden Co. Process for preparing a menthadiene ketone and composition. 2,918,495, 12-22-59, Cl. 260-587.
- Booth, Albert B., to The Glidden Co. Method of preparing nopaldehyde and hydronopaldehyde. 2,918,496, 12-22-59, Cl. 260-598.
- Booth, Albert N.: See—  
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- Booth, Douglas G., and R. S. Wood, to The Plessey Co. Ltd. Speed control for combustion engines and turbines. 2,874,764, 2-24-59, Cl. 158-36.4.
- Booth, Eva J.: See—  
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- Booth, Frank, to British Fibrak Separator Co. Ltd. Separators for electrical storage batteries. 2,877,136, 3-10-59, Cl. 117-76.
- Booth, Frederick E., Jr., G. E. Wanttaja, and R. B. Colten, to General Motors Corp. Torsiograph. 2,915,896, 12-8-59, Cl. 73-70.1.
- Booth, George A., and A. V. de V. Krause, to Cinema-Television Ltd. Method of fabricating electron discharge devices. 2,879,583, 3-31-59, Cl. 29-25.13.
- Booth, George M., to Wallace & Tiernan Inc. Viscosity control method and apparatus for hydrating lime. 2,904,401, 9-15-59, Cl. 23-188.
- Booth, George W. and E. J. Colostomy irrigation apparatus. 2,918,064, 12-22-59, Cl. 128-283.
- Booth, Grant W.: See—  
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- Booth, Grant W., L. C. Hobbs, and S. M. Fillebrown, to Radio Corp. of America. Memory system. 2,911,624, 11-3-59, Cl. 340-174.
- Booth, Harry T., and T. J. Lord, to United Aircraft Products, Inc. Pressure regulating valve. 2,894,526, 7-14-59, Cl. 137-116.5.
- Booth, Harry T., and T. J. Lord, to United Aircraft Products, Inc. Repeated action injector device. 2,894,712, 7-14-59, Cl. 251-13.
- Booth, Herbert G., to David Traum Co., Inc. Clamp for garment hem marker. 2,892,233, 6-30-59, Cl. 24-248.
- Booth, Herbert J.: See—  
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- Booth, Jack J., and W. C. Branch. Automatic replenishing device for cup dispensers. 2,869,754, 1-20-59, Cl. 221-11.
- Booth, James H., to Thompson Products, Inc. Ball joint and support therefor. 2,876,030, 3-3-59, Cl. 287-90.
- Booth, James H., to Thompson Products, Inc. Plastic lined ball joint assembly. 2,878,047, 3-17-59, Cl. 287-90.
- Booth, James H., to Thompson Ramo Wooldridge Inc. Ball bearing ball joint. 2,913,268, 11-17-59, Cl. 287-90.
- Booth, Joseph H., and L. W. Chubb, Jr., to Polaroid Corp. Photographic apparatus. 2,906,182, 9-29-59, Cl. 95-13.
- Booth, Leta P.: See—  
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- Booth, Lionel E. Flotation machine. 2,875,897, 3-3-59, Cl. 209-169.
- Booth, Max H., to E. I. du Pont de Nemours and Co. Irreversibly elongatable cellulose triacetate structure and method of making. 2,900,669, 8-25-59, Cl. 18-48.
- Booth, Ralph M. Bucket support for attachment to step-ladders. 2,870,983, 1-27-59, Cl. 248-210.
- Booth, Raymond D. Electrical conductor bracket. 2,911,607, 11-3-59, Cl. 339-7.
- Booth, Richard H., and E. M. Payne, to Electric & Musical Industries Ltd. Automatic machine control systems. 2,882,864, 4-21-59, Cl. 121-41.
- Booth, Robert B., G. B. Walker, and C. F. Allen, deceased; E. G. Allen, executrix of the estate of said C. F. Allen; to American Cyanamid Co. Method of forming a protective coating on cyanidation tailings and the resulting product. 2,894,851, 7-14-59, Cl. 117-66.
- Booth, Robert B., and J. K. Heeren, to American Cyanamid Co. Flotation reagent composition. 2,919,025, 12-29-59, Cl. 209-166.
- Booth, Sheldon M. Automatic feed and depth control for a drill press. 2,909,082, 10-20-59, Cl. 77-6.
- Booth, Thomas O., deceased, by L. P. Booth, administratrix. Method of treating worms in ruminants. 2,892,752, 6-30-59, Cl. 167-53.
- Booth, William M.: See—  
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- Booth, William M., to Gardner-Denver Co. Oil feeder having restrictor. 2,899,018, 8-11-59, Cl. 184-55.
- Boothe, Alonzo M., to Avco Mfg. Corp. Intermediate frequency transformer. 2,872,649, 2-3-59, Cl. 333-77.
- Boothe, James H.: See—  
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- Boothroyd, Wilson P., to Philco Corp. Multi-channel communication system. 2,878,316, 3-17-59, Cl. 179-15.
- Boothroyd, Wilson P., to Philco Corp. Cathode ray tube devices having signal-generating means. 2,900,563, 8-18-59, Cl. 315-21.
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- Boots Aircraft Nut Corp.: See—  
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- Boots Pure Drug Co. Ltd.: See—  
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- Oxley, Peter, Bristow, Woolfe, and Williams. 2,912,438.
- Boots, William C., to Foster Metal Products Inc. Necktie clasp. 2,890,509, 6-16-59, Cl. 24-49.
- Bopp, Anton. Oxidation cells. 2,901,522, 8-25-59, Cl. 136-84.
- Bopp, Calvin C., to Avco Mfg. Corp. Transistor signal translating circuit. 2,894,150, 7-7-59, Cl. 307-88.5.
- Bopp, Cecil W., to Bopp Mfg., Inc. Loader. 2,918,322, 12-22-59, Cl. 294-63.
- Bopp-Decker Plastics, Inc.: See—  
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- Bopp Mfg., Inc.: See—  
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- Borah, John E. Utility device. 2,871,615, 2-3-59, Cl. 45-28.
- Borah, John E. Combination extensible and foldable vent and spout for containers. 2,898,014, 8-4-59, Cl. 222-481.5.
- Borah, John E. Pouring stream control for container. 2,898,015, 8-4-59, Cl. 222-484.
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- Borbé, Erich. Hoop iron clamping member. 2,870,504, 1-27-59, Cl. 24-23.
- Borchardt, Edward R., to The Anaconda Co. Train loading apparatus. 2,876,915, 3-10-59, Cl. 214-41.
- Borchers, Charles W., Jr. Detachable running gear for transporting small boats. 2,909,378, 10-20-59, Cl. 280-79.1.
- Borchers, Heinz: See—  
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- Borck, Alfred E. G., to Aktiebolaget Separator. Method and plant for the recovery of oil and proteins from animal material. 2,888,449, 5-26-59, Cl. 260-112.
- Borda, John P., and J. A. Mardick, to National Lead Co. End lubricating bearing. 2,913,286, 11-17-59, Cl. 308-79.1.
- Borden Co., The: See—  
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- Borden, Howard C., and R. W. Crews, to A. B. Dick Co. Electrostatic writing tube. 2,879,422, 3-24-59, Cl. 313-89.
- Borden, Joseph H., to Toledo Scale Corp. Elevator leveling controls. 2,873,819, 2-17-59, Cl. 187-29.
- Borden, Joseph H., to Toledo Scale Corp. Elevator door carrying mechanism. 2,905,463, 9-22-59, Cl. 268-49.
- Borden, Joseph H., to Toledo Scale Corp. Elevator controls. 2,914,138, 11-24-59, Cl. 187-29.
- Borden, Joseph H., to Toledo Scale Corp. Hydraulic dampeners. 2,918,091, 12-22-59, Cl. 138-30.
- Borden, Joseph H., and R. A. Burgy, to Toledo Scale Corp. Elevator controls. 2,875,853, 3-3-59, Cl. 187-29.
- Borden, Joseph H., and R. A. Burgy, to Toledo Scale Corp. Elevator controls. 2,889,010, 6-2-59, Cl. 187-29.
- Borden, Joseph L.: *See*—
- Sobgov, Harold, and Borden. 2,904,687.
- Borden, Kennard F.: *See*—
- Borden, Moro M. 2,876,789.
- Borden, Lloyd K. Cable lubricating device. 2,910,043, 10-27-59, Cl. 118-234.
- Borden, Moro M., deceased: E. W. and K. F. Borden and The Fidelity Philadelphia Trust Co., executors, to Simplex Valve and Meter Co. Apparatus for use with liquid enclosures. 2,876,789, 3-10-59, Cl. 137-217.
- Bordenkircher, Bruce O., and C. O. Slemmons, to The General Tire & Rubber Co. Air spring control. 2,903,272, 9-8-59, Cl. 280-124.
- Borders, Charles R., to International Business Machines Corp. Blocking oscillator having sharp pulse cut-off. 2,889,456, 6-2-59, Cl. 250-27.
- Borders, Robert L., Jr., and G. Sitz. Canopy for automobile serving tray holder. 2,873,139, 2-10-59, Cl. 296-44.
- Bordinat, Eugene, Jr., and G. O. Hibbard, to Ford Motor Co. Speed warning device. 2,913,545, 11-17-59, Cl. 200-56.
- Bordner, Lawrence M., Jr. Safety release latch. 2,872,233, 2-3-59, Cl. 292-92.
- Borell, George L., to Almo Laboratories Co., Inc. Coaxial tube fluid injection system. 2,889,995, 6-9-59, Cl. 239-205.5.
- Boresch, Carl, to Farbenfabriken Bayer Akt. Cation exchangers containing selenic acid groups. 2,868,737, 1-13-59, Cl. 260-2.2.
- Borey, Daniel S.: *See*—
- Pfeiffer, Robert W., Borey, and Jahnig. 2,881,130.
- Spitz, Peter H., and Borey. 2,902,433.
- Borey, Daniel S., to Esso Research and Engineering Co. Single vessel coking process. 2,873,247, 2-10-59, Cl. 208-95.
- Borey, Daniel S., to Esso Research and Engineering Co. Apparatus for mixing finely divided contact particles in a dense fluid bed. 2,914,387, 11-24-59, Cl. 23-288.
- Borey, Daniel S., C. E. Jahnig, and B. V. Molstedt, to Esso Research and Engineering Co. Quench nozzle for fluid coker reactor vapors. 2,889,265, 6-2-59, Cl. 208-100.
- Borfuss, Maurice. Snap compartment for handbags. 2,875,801, 3-3-59, Cl. 150-28.
- Borg, Edward M. Oil testing apparatus. 2,889,736, 6-9-59, Cl. 88-14.
- Borg, George W., Corp.: *See*—
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- Borger, Frank G., to Weber Briars, Inc. Smoking pipe. 2,918,067, 12-22-59, Cl. 131-225.
- Borghult, Per, and J. H. Haglund, to Aktiebolaget Kanthal. Electric resistance heating elements. 2,913,695, 11-17-59, Cl. 338-317.
- Borgnon, Jean, to Diffusion Alloys Ltd. Rotary furnaces. 2,872,176, 2-3-59, Cl. 263-34.
- Borie, Henry P., Jr., to General Electric Co. Dirt compactor unit for vacuum cleaning systems. 2,895,564, 7-21-59, Cl. 183-37.
- Borin, Harlan F., to American Hospital Supply Corp. Method for sterilizing instruments. 2,883,262, 4-21-59, Cl. 21-56.
- Borins, Louis, M. H. Slud, and M. J. Zubkoff, to Randel Tool Co., Inc. Method of sinking wells by means of explosive charges. 2,897,756, 8-4-59, Cl. 102-21.
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- Boritz, Nat. Emergency traction device for motor vehicles. 2,896,686, 7-28-59, Cl. 152-225.
- Bork, Charles: *See*—
- Parker, Warren H. 2,902,118.
- Bork, Hugo W., to Skil Corp. Hinge butt locating gauge. 2,869,245, 1-20-59, Cl. 33-197.
- Borkat, Philip, to National-U.S. Radiator Corp. Blower. 2,915,239, 12-1-59, Cl. 230-134.
- Borkman, Arthur C.: *See*—
- Meng, Victor W., and Borgman. 2,904,126.
- Borkoski, Leon P., to Electrolux Corp. Multipurpose suction cleaning tool. 2,873,469, 2-17-59, Cl. 15-417.
- Borkovec, Alexej B., to The Dow Chemical Co. Polymerization process for olefin oxides. 2,873,258, 2-10-59, Cl. 260-2.



- Borkowski, William J.: *See*—  
Schonhoff, John A., and Borkowski. 2,868,932.
- Borland, Jean W., and E. Schupak, to Allied Chemical Corp. Production of copolymers of chlorotrifluoroethylene and vinylidene fluoride. 2,880,154, 3-31-59, Cl. 204-163.
- Borley, Colin R.: *See*—  
Fenemore, Ronald W., and Borley. 2,880,512.
- Borman, Robert F.: *See*—  
Christenson, Roger M., and Borman. 2,891,919.
- Bormolini, Henry: *See*—  
Bartholow, Dave M., and Bormolini. 2,885,939.
- Born, William F.: *See*—  
Dyer, Lloyd W., Born, and Wallace. 2,913,513.  
Rexroad, James O., and Born. 2,894,084.
- Born, William F., to Westinghouse Electric Corp. Bus duct. 2,883,637, 4-21-59, Cl. 339-22.
- Bornemann, William, to Eastman Kodak Co. Photographic recording apparatus. 2,881,658, 4-14-59, Cl. 88-24.
- Bornemann, William, to Liftron Corp. Automatic door opener. 2,883,182, 4-21-59, Cl. 268-59.
- Bornemann, William, to Eastman Kodak Co. Device for handling and transporting a plurality of elements. 2,899,234, 8-11-59, Cl. 294-115.
- Bornemann, William, to Eastman Kodak Co. Indicia recording device. 2,903,941, 9-15-59, Cl. 88-24.
- Borgess, Otto J., and A. J. Monroe, to United States of America, Navy. Electric "G" limiter for aircraft. 2,903,205, 9-8-59, Cl. 244-83.
- Bornhauser, Hans: *See*—  
Ganzhorn, Karl, Einsele, and Bornhauser. 2,914,754.
- Bornheim, George H., and H. J. Ouellette, to United States of America, Army. Electrically fired gun charger. 2,882,794, 4-21-59, Cl. 89-1.
- Bornkessel, Paul, to P. Bornkessel. Pressure gas burners. 2,869,632, 1-20-59, Cl. 158-116.
- Bornsen, Elly M. D.: *See*—  
Lottermoser, Manfred. 2,881,082.
- Bornzin, James H., to International Harvester Co. Hay feeding mechanism for balers. 2,909,989, 10-27-59, Cl. 100-142.
- Bornzin, James H., J. E. Sadler, and R. M. Fachini, to International Harvester Co. Cotton picking spindle moistening assembly. 2,884,754, 5-5-59, Cl. 56-41.
- Boro, Leon: *See*—  
Cottle, Francis M. 2,913,243.  
Cottle, Francis M., Jr. 2,913,244.
- Borodin, Daniel J., to Allied Research Products, Inc. Plating apparatus. 2,887,210, 5-19-59, Cl. 198-19.
- Borodin, Daniel J., to Allied Research Products, Inc. Plating machine. 2,905,665, 9-22-59, Cl. 204-198.
- Borodin, Daniel J., to Wagner Brothers Inc. Plating machine. 2,912,989, 11-17-59, Cl. 134-76.
- Borolite Corp.: *See*—  
Herz, William H. 2,884,688.
- Boron, Eugene F.: *See*—  
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- Boron, Eugene F., E. W. Yost, W. H. Gorga, and C. H. Uber, to Mallory-Sharon Metals Corp. Electrode holder construction. 2,889,387, 6-2-59, Cl. 13-16.
- Boron, Eugene F., W. H. Gorga, and J. A. Grubisa, to Mallory-Sharon Metals Corp. Controlled consumable electrode arc melting furnace construction and operation. 2,890,368, 6-9-59, Cl. 314-59.
- Boron, Frank J., to American Brake Shoe Co. Chains. 2,915,909, 12-8-59, Cl. 74-245.
- Borowski, Raymond F.: *See*—  
Werner, John, and Borowski. 2,910,060.
- Borrel, Marcel, F. Weiss, and B. Chatelin, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Recovery of ammonium bisulphate from the distillation residues from the manufacture of acrylic acids and their esters. 2,890,101, 6-9-59, Cl. 23-119.
- Borresen, Jac, and G. N. Pettersen. Flexible combined conduit and cable assembly. 2,885,460, 5-5-59, Cl. 174-70.
- Borrevang, Poul, to Lovens kemiske Fabrik ved A. Kongsted. 21-xanthates and xanthogenic acids of  $\Delta^4$  pregnenes. 2,893,917, 7-7-59, Cl. 167-77.
- Borrow, Antony, E. G. Jefferys, and I. S. Nixon, to Imperial Chemical Industries Ltd. Process of producing gibberellic acid by two stage cultivation of gibberella fujikuroi. 2,906,670, 9-29-59, Cl. 195-36.
- Borrow, Antony, E. G. Jefferys, and I. S. Nixon, to Imperial Chemical Industries Ltd. Process of producing gibberellic acid by cultivation of gibberella fujikuroi. 2,906,671, 9-29-59, Cl. 195-36.
- Borrow, Antony, E. G. Jefferys, and I. S. Nixon, to Imperial Chemical Industries Ltd. Metabolic processes. 2,906,673, 9-29-59, Cl. 195-125.
- Borrows, Edward T.: *See*—  
Stewart, David G., Waddan, and Borrows. 2,870,100.
- Borrows, Edward T., and D. G. Stewart, to Shell Development Co. Production of polymers of epoxide compounds. 2,870,099, 1-20-59, Cl. 260-2.
- Borup, Ronald J., and H. C. Davis, Jr. Electric thermo control circuit. 2,896,056, 7-21-59, Cl. 219-20.
- Borsook, Mannie E., and M. Alperin, to Clinical Research Foundation. Apparatus for the purification of crystalline materials. 2,868,374, 1-13-59, Cl. 209-111.
- Borst, Lyle B., to United States of America, Atomic Energy Commission. Method of testing hermetic containers. 2,873,603, 2-17-59, Cl. 73-52.
- Borst, Lyle B., to United States of America, Atomic Energy Commission. Central control system. 2,905,612, 9-22-59, Cl. 204-193.2.
- Borsten, Herman: *See*—  
Van Lamoen, Franciscus L. J., and Borsten. 2,892,669.
- Bortner, Allen A. Pad mountings. 2,906,547, 9-29-59, Cl. 281-25.
- Borinick, Newman M., to Rohm & Haas Co. Method for preparing polypeptides. 2,871,225, 1-27-59, Cl. 260-77.5.
- Borucki, Robert B.: *See*—  
Lewis, Francis B. 2,907,402.
- Borutzke, Irvin W.: *See*—  
Runde, Byron A., and Borutzke. 2,894,615.
- Bos, John R.: *See*—  
Shulters, Robert B., and Bos. 2,885,764.
- Bos, John R., and R. B. Shulters, to Gardner-Denver Co. Tool for preparing and applying wires to terminals. 2,884,685, 5-5-59, Cl. 29-33.
- Bosch, Julius. Apparatus for sorting steel plates and the like. 2,884,130, 4-28-59, Cl. 209-72.
- Bosch, Julius, to Friesseke & Hoepfner G.m.b.H. Closed loop discontinuous control system for production or processing machines. 2,884,531, 4-28-59, Cl. 250-83.3.
- Bosch, Pius L. Snow plow shoe adjustment device. 2,909,382, 10-20-59, Cl. 287-62.
- Bosch, Robert E.: *See*—  
Foster, Harold S., Bosch, and Warner. 2,903,112.
- Bosch, Robert, G.m.b.H.: *See*—  
Aldinger, Ulrich, and Eheim. 2,902,019.  
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Heiser, Joachim. 2,910,696.  
Linder, Rudolf, Rebentisch, and Merkl. 2,875,322.  
Maier, Alfred. 2,896,049.  
Ostertag, Otto, and Stähle. 2,913,996.  
Oxenart, Berthold, and Aldinger. 2,869,529.  
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- Boschert, Ulrich: *See*—  
McNaughtan, Thomas J., Lieb, and Boschert. 2,886,540.
- Boschi, Antonio, to Societa Applicazioni Gomma Antivibranti. Resilient mountings. 2,869,811, 1-20-59, Cl. 248-9.
- Boschi, Antonio, to Societa Applicazioni Gomma Antivibranti "S.A.G.A." Societa per Azioni. Elastic guide means, particularly for a vehicle suspension. 2,884,872, 5-5-59, Cl. 105-224.
- Boschi, Antonio, to S.A.G.A. Societa per Azioni. Sound absorbing and insulating panel. 2,887,173, 5-19-59, Cl. 181-33.
- Boscla, Archie F., to General Dynamics Corp. Reflex amplifier-detector stage. 2,916,616, 12-8-59, Cl. 250-20.
- Bosco, Edward N.: *See*—  
Stanford, Nicholas S., and Bosco. 2,873,562.
- Bosco, Lino. Process of manufacturing plastic flowers and leaves in multicolor design. 2,908,942, 10-20-59, Cl. 18-59.
- Bose, Amar G. Pressure wave generation. 2,915,588, 12-1-59, Cl. 179-1.
- Bose, John H., to E. M. Armstrong, executrix of the estate of E. H. Armstrong. Noise reduction in phase shift modulation. 2,871,292, 1-27-59, Cl. 179-15.
- Bose, John H., to E. M. Armstrong, executrix of the estate of E. H. Armstrong. Stabilized multiple frequency modulation receiver. 2,879,335, 3-24-59, Cl. 179-15.
- Bosinoff, Irving: *See*—  
Luther, Arch C., Jr., Marian, and Bosinoff. 2,890,276.  
Luther, Arch C., Jr., and Bosinoff. 2,892,025.
- Bosland, James M., to Ketcham and McDougall Inc. Magnetic writing device holder. 2,907,085, 10-6-59, Cl. 24-10.
- Bosland, James M., to Ketcham & McDougall, Inc. Mechanism for changing dates for desk calendar. 2,916,837, 12-15-59, Cl. 40-114.
- Bosler, Gerald E.: *See*—  
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- Bosman, Elmer H.: *See*—  
Apar, Donald H., and Bosman. 2,907,937.
- Bosrock, George J., and C. E. Hook, to Michigan Carton Co. Foldable carrier for bottles and the like. 2,881,946, 4-14-59, Cl. 220-113.
- Boss, Reinaldo. Tool for perforating wells. 2,891,623, 6-23-59, Cl. 166-205.
- Bossard, Albert G., to Corning Glass Works. Sintered or bonded ceramic refractory body and method of making it. 2,919,209, 12-29-59, Cl. 117-123.
- Bossard, LeRoy T., and W. A. Eskridge. Engine starters. 2,910,873, 11-3-59, Cl. 74-8.
- Bossard, Werner, J. Voltz, and F. Favre, to J. R. Geigy, A-G. Water soluble azo colour salts. 2,883,373, 4-21-59, Cl. 260-146.



- Bossard, Werner, J. Voltz, and F. Favre, to J. R. Geigy A.-G. Water soluble dye salts and process for the production thereof. 2,889,315, 6-2-59, Cl. 260-146.
- Bossard, Werner, and R. Dürig, to J. R. Geigy, A.-G. Metal-lisable trisazo dyestuffs. 2,897,191, 7-28-59, Cl. 260-159.
- Bossard, Werner, and P. Dussy, to J. R. Geigy S.A. Colour photography. 2,899,305, 8-11-59, Cl. 96-53.
- Bossarte, Keith W. Automobile hand brake warning system. 2,904,774, 9-15-59, Cl. 340-52.
- Bosse, Robert W., to Groov-Fin Corp. Drilling equipment. 2,913,933, 11-24-59, Cl. 77-26.
- Bossi, Fulvio, to Frankel Associates, Inc. Lighting appli-ance. 2,900,492, 8-18-59, Cl. 240-10.
- Bössner, Josef. Mobile form for the concrete moulding of barrel vaults, tunnels, galleries, or shafts. 2,870,518, 1-27-59, Cl. 25-131.6.
- Bossner, Josef. Methods of manufacturing fluid-tight high-pressure pipes of reinforced concrete and pipes made ac-cording to said methods. 2,902,056, 9-1-59, Cl. 138-66.
- Bossong-Werk G.m.b.H.: See—  
Skumawitz, Max. 2,918,674.
- Bost, Howard W.: See—  
Doss, Richard C., and Bost. 2,881,217.  
Hutchinson, William M., and Bost. 2,893,885.
- Bostian, Logan C.: See—  
Joris, George G., and Bostian. 2,881,222.
- Bostick, Winston H., and V. G. McIntosh, to United States of America, Atomic Energy Commission. Plasma gener-ator. 2,900,548, 8-18-59, Cl. 313-131.
- Bostitch, Inc.: See—  
Allen, Howard G. 2,899,679.  
Petersen, Henry F., and Fisher. 2,888,679.
- Bostock, Harry T. Clutch mechanism. 2,888,114, 5-26-59, Cl. 192-02.
- Bostock, James H., to Otis Engineering Corp. Valve. 2,894,715, 7-14-59, Cl. 251-58.
- Bostock, James H., to Otis Engineering Corp. Pressure re-sponsive valve. 2,900,997, 8-25-59, Cl. 137-458.
- Bostock, James H., to Otis Engineering Corp. Well tools. 2,909,227, 10-20-59, Cl. 166-224.
- Bostock, James H., and D. S. Simon, to Otis Engineering Corp. Well tools. 2,884,073, 4-28-59, Cl. 166-218.
- Bostock, Raymond N., to P. Ballantine & Sons. Carrier for bottles and the like. 2,917,220, 12-15-59, Cl. 229-23.
- Boston, Edward D.: See—  
Smith, Brook I., and Boston. 2,874,113.  
Smith, Brook I., Boston, and Herrmann. 2,871,183.  
Smith, Brook I., Scheeline, and Boston. 2,905,629.
- Boston, Edward D., to Esso Research and Engineering Co. High temperature short time hydrocarbon conversion pro-cess. 2,906,695, 9-29-59, Cl. 208-127.
- Boston, Edward D., and B. I. Smith, to Esso Research and Engineering Co. Combination process for producing olefins from heavy oils. 2,905,733, 9-22-59, Cl. 260-683.
- Boston Machine Works Co.: See—  
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- Boston Mfg. Co.: See—  
Mason, Vincent I. 2,872,668.
- Boston Royal Petticoat Co.: See—  
Rosenberg, David L. 2,905,947.
- Bostrom, Theodore. Liquid bath furnace and methods for continuous heat treatment of articles of manufacture. 2,904,321, 9-15-59, Cl. 263-3.
- Bostrom, Bernard G.: See—  
Thiene, Carl G., and Bostrom. 2,873,013.
- Bostwick, Lee G., and R. L. Guncelle, to Bell Telephone Laboratories, Inc. Electromechanical vibrator. 2,877,319, 3-10-59, Cl. 200-90.
- Boswau, Hans P., R. V. Oldham, and H. G. Evers, to Leich Electric Co. Telephone system crossbar relay private branch exchange. 2,907,832, 10-6-59, Cl. 179-22.
- Boswau, Hans P., H. W. Clausen, and H. G. Evers, to Leich Electric Co. Mechanical counting relay. 2,907,983, 10-6-59, Cl. 340-168.
- Boswell, Robert B.: See—  
Jominy, Walter B., Olson, and Boswell. 2,881,491.
- Boswell, Thomas L.: See—  
Ensign, George G., and Boswell. 2,875,262.
- Bosworth, Cyrus M., Jr., and R. T. Divers, to Carrier Corp. Air conditioning apparatus. 2,902,834, 9-8-59, Cl. 62-78.
- Bot Brassert Oxygen Technik A.G.: See—  
Rinesch, Rudolf F. 2,893,861.
- Boteler, Henry W., to Grinnell Corp. Diaphragm valves. 2,892,613, 6-30-59, Cl. 251-331.
- Botham, Arthur R., to Arrow Mfg. Co., Inc. Display box for watches, etc. 2,867,353, 1-6-59, Cl. 220-82.
- Bothwell, William R., to Federal Paper Board Co., Inc. Box handle. 2,869,771, 1-20-59, Cl. 229-52.
- Botkin, Lawrence A., to Butler Mfg. Co. Tandem axle vehicle suspension. 2,874,973, 2-24-59, Cl. 280-104.5.
- Botko, George H. Cushion ischial seat for an artificial above-knee leg socket and below-knee weight bearing lacer. 2,908,016, 10-13-59, Cl. 3-17.
- Botnick, Irvin, to The Kromex Corp. Foldable table with hinged top. 2,873,156, 2-10-59, Cl. 311-80.
- Bott, George S.: See—  
Konazewski, William P., and Bott. 2,918,759.  
Sandhage, Ellsworth R., and Bott. 2,907,357.
- Bott, Hugh R.: See—  
Kressman, Theodore R. E., Tye, and Bott. 2,894,894.
- Bottasso, Carlo, to Pirelli S.p.A. Divided rim assemblies for tubeless tires. 2,879,825, 3-31-59, Cl. 152-404.
- Bottemiller, Merton M. Seat construction. 2,901,028, 8-25-59, Cl. 155-184.
- Bottemiller, Merton M., and A. L. Engelmann, to Homecrest Co. Swivel chair. 2,916,084, 12-8-59, Cl. 155-95.
- Botti, Alfred, to C. M. Hall Lamp Co. Speedometer cable fitting. 2,872,793, 2-10-59, Cl. 64-04.
- Botti, Alfred, to C. M. Hall Lamp Co. Speedometer-assembly cable. 2,918,808, 12-29-59, Cl. 64-4.
- Botti, Argentine, and O. E. Pabst. Continuous linear closing devices. 2,909,822, 10-27-59, Cl. 24-201.
- Bottino, Ada. Scouring pad containing dispensable sub-stance. 2,899,780, 8-18-59, Cl. 51-185.
- Bottje, John D., and R. B. Shulters, to Gardner-Denver Co. Load balancer for hoists. 2,901,219, 8-25-59, Cl. 254-168.
- Botto, Piero, to Officine Botto-Meicanica di Precisione-Societa a r.l. Liquefied petroleum gas pressure mixer. 2,872,911, 2-10-59, Cl. 123-120.
- Bottom, Virgil E., to Motorola, Inc. Transistor method and product. 2,900,584, 8-18-59, Cl. 317-235.
- Bottoms, Charles H., to Joseph Lucas (Industries) Ltd. Control means for road vehicle hydraulic power trans-mission systems. 2,903,852, 9-15-59, Cl. 60-53.
- Bottoms, Paul H., R. J. Clapp, R. H. Loggins, and J. G. Stansbury, to Swedlow Plastics Co. Method and apparatus for stretching thermoplastic sheet material. 2,918,696, 12-29-59, Cl. 18-1.
- Bottoms, Robert R., to Chemetron Corp. Racemization of optically active menthol. 2,871,272, 1-27-59, Cl. 260-631.
- Bottonari, Samuel A., to Westinghouse Electric Corp. Cir-cuit interrupter. 2,875,300, 2-24-59, Cl. 200-146.
- Bottonari, Samuel A., to Westinghouse Electric Corp. Circuit interrupters. 2,900,477, 8-18-59, Cl. 200-147.
- Bottonari, Samuel A., to Westinghouse Electric Corp. Circuit breaker. 2,913,558, 11-17-59, Cl. 200-148.
- Bottoff, James D., and O. A. Labus, to The Trane Co. Air conditioning unit. 2,913,227, 11-17-59, Cl. 257-137.
- Botts, Hugh P. Map holding clip. 2,867,925, 1-13-59, Cl. 40-10.
- Botts, Hugh P. Rotary mounting arrangement. 2,907,488, 10-6-59, Cl. 220-24.
- Bottom, Edward W. Filter. 2,875,901, 3-3-59, Cl. 210-484.
- Bottom, Edward W. Strainer. 2,893,563, 7-7-59, Cl. 210-448.
- Boubet, Charles, and A. L. M. Dupuis. Transducer of me-chanical vibrations into electrical oscillations. 2,887,660, 5-19-59, Cl. 332-2.
- Bouchard, Blanche E.: See—  
Du Grenier, Francis C., and Perri. 2,884,163.
- Bouchard, Irvine H. Double antenna array with alternate arms mounted in respective planes, parallel to common reflector. 2,869,125, 1-13-59, Cl. 343-808.
- Bouchard, John R., and R. L. Hammon, to Sperry Rand Corp. Compensated gyro vertical. 2,878,679, 3-24-59, Cl. 74-5.44.
- Bouchard, Leo S. Device for attachment to a collar. 2,871,483, 2-3-59, Cl. 2-132.
- Bouchard, Philias J. Heat transfer and conversion system. 2,903,862, 9-15-59, Cl. 62-231.
- Boucher, Cormack E. Daylight film loading and developing apparatus. 2,900,514, 8-18-59, Cl. 250-65.
- Boucher, Frank G., to Jersey Production Research Co. Vibratory rotary drilling method and apparatus. 2,911,192, 11-3-59, Cl. 255-18.
- Boucher, Frank G., and B. W. Sewell, to United States of America, Navy. Mercury switch spinner head timing unit. 2,910,645, 10-27-59, Cl. 324-28.
- Boucher, Richard C. Apparatus for and process of remov-ing skins from tomatoes. 2,868,252, 1-13-59, Cl. 146-46.
- Boucke, Heinz, and K. Brecht, to Radio Patents Co. Means for blood pressure determination. 2,875,750, 3-3-59, Cl. 128-2.05.
- Boudette, Cornelius G., deceased; M. E. Boudette, executrix, to Joy Mfg. Co. Drill steel supporting and storing device. 2,909,288, 10-20-59, Cl. 211-60.
- Boudette, Mary E.: See—  
Boudette, Cornelius G. 2,909,288.
- Bondreau, John L. Pistol with grip forming an angle of 31° with frame. 2,899,767, 8-18-59, Cl. 42-75.
- Bondreaux, Francis A. Fire injection engines. 2,906,254, 9-29-59, Cl. 123-143.
- Bougher, Earl: See—  
Bittorf, Irvin. 2,896,852.
- Boughton, Roger C. Gasket for bell and spigot pipe joints. 2,868,576, 1-12-5, Cl. 288-33.
- Boughton, Roger C. Pipe saddle and laminated strap means for securing same to pipe. 2,884,265, 4-28-59, Cl. 285-197.
- Boughtwood, John E., and F. H. Cusack, to The Western Union Telegraph Co. Diversity telegraph system. 2,899,548, 8-11-59, Cl. 250-8.
- Boulet, Francois, C. Dufour, and P. Giraud, to Compagnie Generale de Telegraphie Sans Fil. Photosensitive storage tubes. 2,890,361, 6-9-59, Cl. 313-66.



- Boulet, Georges, to Societe a Responsabilite Limitee Recherches Etudes Production, R.E.P. Monochronous pneumatic suspension for vehicles. 2,898,103, 8-4-59, Cl. 267—65.
- Boulet, Georges, to Societe a responsabilite limitee, Recherches Etudes Production R.E.P. Vehicle suspension system. 2,901,243, 8-25-59, Cl. 267—65.
- Bouligny, R. H., Inc.: See—
- Poythress, James W. 2,904,193.
- Snyder, Robert L., Jr. 2,905,977.
- Wilson, Robert W. 2,886,053.
- Bouille, Joseph R.: See—
- Russell, John A., and Bouille. 2,867,427.
- Bouis, Howarth E.: See—
- Yost, De Witte M., Schmitt, and Bouis. 2,874,754.
- Bouisset, Fernand: See—
- Augery, Jean, and Bouisset. 2,868,157.
- Boule, George P.: See—
- Koons, George I., Boule, and Swanson. 2,868,539.
- Boulet, Georges. Cooling of blades in machines where blading is employed. 2,868,500, 1-13-59, Cl. 253—39.15.
- Boultinghouse A C, to Wen-Mac Corp. Toy engine starter. 2,875,554, 3-3-59, Cl. 46—78.
- Bouma, Lawrence. Detachable connector for milking systems or the like. 2,881,010, 4-7-59, Cl. 284—17.
- Bouma, Lawrence. Milking machine vacuum system construction. 2,883,964, 4-28-59, Cl. 119—14.16.
- Bouma, Lawrence. Counterweighted milking machine receptacle support. 2,893,350, 7-7-59, Cl. 119—14.12.
- Bouman, Jan, J. D. H. Homan, and R. Sieders, to Organon Inc. Suspensions of drugs destined for injection and process for the preparation thereof. 2,902,408, 9-1-59, Cl. 167—82.
- Bouman, Maarten A., to the Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Rijksverdediging (National Defence Research Council T.N.O.). Apparatus for testing light discrimination. 2,916,963, 12-15-59, Cl. 88—20.
- Bound Brook Oil-Less Bearing Co.: See—
- Ryshavy, Rudolph L. 2,893,793.
- Bounds, Pershing M. Device for mounting and fixing a trailer on a flat car. 2,905,104, 9-22-59, Cl. 105—159.
- Bounds, William E., to Limelite Corp. Photographic flash apparatus. 2,868,958, 1-13-59, Cl. 240—1.3.
- Boundy, Francis J. Electric ignition magneto. 2,874,202, 2-17-59, Cl. 123—149.
- Bounin, Claude. Method and apparatus for accelerating the degree and rate of separation of solids from liquids. 2,899,071, 8-11-59, Cl. 210—527.
- Bourassa, Hugues, to The Atlas Bolt & Screw Co. Scale totalizer. 2,871,005, 1-27-59, Cl. 265—28.
- Bourassa, Hugues A., and E. Gunell. Pump. 2,871,797, 2-3-59, Cl. 103—161.
- Bourbon Cooperage Co. Inc.: See—
- Humphrey, William T. 2,893,446.
- Bourcier de Carbon, Christian M. L. L. Shock absorbers. 2,882,592, 4-21-59, Cl. 29—428.
- Bourcier de Carbon, Christian M. L. L. Resilient stilts. 2,899,685, 8-18-59, Cl. 3—4.
- Bourdon, Pierre M., to Compagnie Generale des Etablissements Michelin (Robert Puiseux & Cie). Pneumatic tire casings. 2,894,555, 7-14-59, Cl. 152—361.
- Bourdon, Pierre M., to Compagnie Generale des Etablissements Michelin. Mountings for tubeless pneumatic tires on vehicle wheels. 2,906,315, 9-29-59, Cl. 152—410.
- Bourdout, Hubert: See—
- Kohn, Samuel, and Bourdot. 2,904,574.
- Bourgeois, Nolan A., Jr.: See—
- Creveling, Robert, and Bourgeois. 2,883,535.
- Bourgeois, Yves: See—
- Roussos, Michel, and Bourgeois. 2,897,243.
- Bourget, Joseph G. A., and C. C. Pfitzer, to Avco Mfg. Corp. Remote control system for a television receiver. 2,897,354, 7-28-59, Cl. 250—20.
- Bourgoin, Laureo P. Automobile window screen. 2,869,634, 1-20-59, Cl. 160—40.
- Bourgonjon, Louis R., and J. van Sandwijk, to North American Philips Co., Inc. Radio-transmitter for frequency-shift telegraphy made operative in response to modulation. 2,901,598, 8-25-59, Cl. 250—17.
- Bourguet, Jean M., R. D. Drew, and F. E. Ray, to Socony Mobil Oil Co., Inc. Method and apparatus for transfer of contact materials. 2,901,421, 8-25-59, Cl. 208—174.
- Bourke, John D., to Robbins & Myers, Inc. Helical gear pump with stator compression. 2,874,643, 2-24-59, Cl. 103—117.
- Bourke, John D., and S. A. Comer, to Robbins & Myers, Inc. Grit and corrosion seal for universal joints in pumps having eccentrically moving rotors. 2,915,979, 12-8-59, Cl. 103—117.
- Bourke, Raymond I. Anti-jackknifing fifth-wheel for tractor trailer. 2,907,582, 10-6-59, Cl. 280—432.
- Bourne, Alfred T. Garment hangers. 2,886,224, 5-12-59, Cl. 223—91.
- Bourne, Roland B., and J. P. Tyskewicz, to Emhart Mfg. Co. Straight through silencer. 2,904,125, 9-15-59, Cl. 181—42.
- Bourne, Roland B., and J. P. Tyskewicz, to Emhart Mfg. Co. Full-pack silencer. 2,914,132, 11-24-59, Cl. 181—42.
- Bourns Laboratories, Inc.: See—
- Boode, Carl N. 2,916,697.
- Bourns, Marlan E., and Caddock. 2,898,568.
- Bourns, Marlan E., and Hardison. 2,873,340.
- Bourns, Marlan E., Harrison, Gaa, and Barrett. 2,886,681.
- Bourns, Marlan E., Harrison, Goepfinger, and Gaa. 2,870,802.
- Bourns, Marlan E., Hardison, and Hulbert. 2,882,375.
- Bourns, Marlan E., Harrison, and Hardison. 2,873,337.
- Bourns, Marlan E., Harrison, and Stewart. 2,886,676.
- Bourns, Marlan E., and O'Brian. 2,881,296.
- Bourns, Marlan E., and Richards. 2,873,339.
- Harrison, Marvin E., Tyson, and Mellor. 2,877,325.
- Marks, Eugene A., and Ferguson. 2,881,277.
- O'Brian, Edward D. 2,870,303.
- O'Brian, Edward D. 2,870,304.
- Royce, Donald F. 2,898,569.
- Bourns, Marlan E. Pressure responsive potentiometers. 2,877,326, 3-10-59, Cl. 201—48.
- Bourns, Marlan E. Variable resistors. 2,877,328, 3-10-59, Cl. 201—55.
- Bourns, Marlan E. Temperature responsive resistor. 2,881-294, 4-7-59, Cl. 201—48.
- Bourns, Marlan E. Digital readout device. 2,886,677, 5-12-59, Cl. 201—48.
- Bourns, Marlan E., M. E. Harrison, E. J. Goepfinger, and D. L. Gaa; said Harrison, Goepfinger and Gaa, assors, to Bourns Laboratories, Inc. Potentiometers. 2,870,302, 1-20-59, Cl. 201—62.
- Bourns, Marlan E., M. E. Harrison and W. T. Hardison; said Harrison and said Hardison assignors to Bourns Laboratories, Inc. Variable resistor. 2,873,337, 2-10-59, Cl. 201—62.
- Bourns, Marlan E., and A. G. Richards; said Richards assor. to Bourns Laboratories, Inc. Variable resistor. 2,873,339, 2-10-59, Cl. 201—62.
- Bourns, Marlan E., and W. T. Hardison; said Hardison assor. to Bourns Laboratories, Inc. Variable resistor. 2,873,340, 2-10-59, Cl. 201—62.
- Bourns, Marlan E., and E. D. O'Brian; said O'Brian assor. to Bourns Laboratories, Inc. Potentiometer constructions. 2,881,296, 4-7-59, Cl. 201—56.
- Bourns, Marlan E., W. T. Hardison, and W. D. Hulbert; said Hardison and said Hulbert assors, to Bourns Laboratories, Inc. Variable resistor constructions. 2,882,375, 4-14-59, Cl. 201—62.
- Bourns, Marlan E., M. E. Harrison, and A. W. Stewart; said Harrison and said Stewart assors, to Bourns Laboratories, Inc. Potentiometer-accelerometer apparatus. 2,886,676, 5-12-59, Cl. 201—48.
- Bourns, Marlan E., M. E. Harrison, D. L. Gaa, and R. O. Barrett; said Harrison, said Gaa, and said Barrett assors, to Bourns Laboratories, Inc. Variable resistor construction. 2,886,681, 5-12-59, Cl. 201—62.
- Bourns, Marlan E., and R. E. Caddock; said Caddock assor. to Bourns Laboratories, Inc. Adjustable resistors. 2,898,568, 8-4-59, Cl. 338—117.
- Bourque, Paul E.: See—
- Farmer, Doris. 2,899,533.
- Bourquin, Jean Pierre: See—
- Stoll, Arthur, Bourquin, and Renz. 2,902,491.
- Stoll, Arthur, Renz, and Bourquin. 2,902,486.
- Bourquin, Maurice A. Package of twine or the like. 2,918,169, 12-22-59, Cl. 206—64.
- Bourrillon, Roland: See—
- Maier-Huser, Hans, and Bourrillon. 2,894,875.
- Boushey, Homer A. Jet propelled propeller or rotor blade. 2,917,895, 12-22-59, Cl. 60—39.35.
- Boussu, Gabriel X. R., L. P. F. A. Neuville, and L. H. N. Saint-Frison, to Compagnie Generale des Etablissements Michelin. Pneumatic tires. 2,884,040, 4-28-59, Cl. 152—356.
- Boutelle, Allen O., to Thomas Industries Inc. Lighting fixture with convoluted spring louvre. 2,906,864, 9-29-59, Cl. 240—46.35.
- Boutros, Richard D., and M. Dykman, to Mixing Equipment Co., Inc. Sealing means for receptacle shaft opening. 2,911,240, 11-3-59, Cl. 286—11.13.
- Boutry, Georges A., and L. Le Blan, to North American Philips Co., Inc. Signal transmission system. 2,907,830, 10-6-59, Cl. 179—15.
- Bouvier, Arthur: See—
- Zubal, Anthony, and Bouvier. 2,879,918.
- Bouvier, George A., to North American Aviation, Inc. Electromechanical actuator. 2,871,382, 1-27-59, Cl. 310—82.
- Bouvier, George A., to North American Aviation, Inc. Low speed actuator. 2,909,944, 10-27-59, Cl. 74—800.
- Bouwens, Albert, to N. V. Optische Industrie "De Oude Delft." Device for the insertion and removal of film in mirror cameras. 2,910,924, 11-3-59, Cl. 95—31.
- Bovard, Robert M., to M. S. A. Research Corp. Oxygen producing canister for breathing apparatus. 2,889,210, 6-2-59, Cl. 23—281.
- Bovard, Robert M., to Mine Safety Appliances Co. Oxygen producing canister. 2,913,317, 11-17-59, Cl. 23—281.
- Bovay, H. E., Jr., Consulting Engineers: See—
- Wheeler, Lionel H., and Robertson. 2,880,892.
- Bove, Pierre. Covering and waterproofing material. 2,893,907, 7-7-59, Cl. 154—50.



- Bowie, Valentine. Device for teaching dancing. 2,901,838, 9-1-59, Cl. 35-29.
- Bowan, Walter J.: *See*—  
Mueller, Frank H., and Bowan. 2,893,465.
- Bowan, Walter J., to Mueller Co. Apparatus for changing stops. 2,867,034, 1-6-59, Cl. 29-213.
- Bowan, Walter J., to Mueller Co. Device for changing stop valves. 2,867,243, 1-6-59, Cl. 138-89.
- Bowater Research and Development Co., Ltd.: *See*—  
Duffin, Earle R. 2,875,944.
- Wells, Archibald H., and Crayford. 2,888,902.
- Bowden, Bert W.: *See*—  
Florman, Irvin G., and Bowden. 2,882,963.
- Bowden (Engineers) Ltd.: *See*—  
Melsom, Walter A. 2,888,277.
- Bowden, George W., to General Electric Co. Positive clutch with damping arrangement. 2,869,700, 1-20-59, Cl. 192-67.
- Bowden, Henry F., and B. J. Richardson; said Richardson assor. to said Bowden. Detachable extension for shelves. 2,914,191, 11-24-59, Cl. 211-153.
- Bowden, John N.: *See*—  
Brennan, Elmer W., and Bowden. 2,882,231.
- Bowden, John N., and E. W. Brennan, to The Pure Oil Co. Paper-machine oils. 2,885,362, 5-5-59, Cl. 252-32.7.
- Bowden, William H., to Alliance Ware, Inc. Basin installation. 2,870,458, 1-27-59, Cl. 4-187.
- Bowditch, Hoel L., to The Foxboro Co. Reinforced expandable tube. 2,893,431, 7-7-59, Cl. 137-793.
- Bowditch, William R., Jr., to Taylor Fibre Co. Insulating material. 2,879,827, 3-31-59, Cl. 154-2.6.
- Bowe, George R., H. R. Schutz, and J. J. Suchocki, to Owens-Illinois Glass Co. Method and apparatus for washing glass articles. 2,908,598, 10-13-59, Cl. 134-8.
- Bowen & Co., Inc.: *See*—  
Baker, Robert N. 2,895,738.
- Kern, George R. 2,871,562.
- Bowen, Edgar C.: *See*—  
Wangelin, Don J., and Bowen. 2,900,321.
- Bowen, Edward K.: *See*—  
Johnson, Lloyd A., and Bowen. 2,871,037.
- Bowen, Edward K., to Federal-Mogul-Bower Bearings, Inc. Lubricant seal construction. 2,879,114, 3-24-59, Cl. 308-187.2.
- Bowen, Frederick D. and G. B. Safety gas valves. 2,890,712, 6-16-59, Cl. 137-459.
- Bowen, Harold G., to U.S. Ring Traveler Co. Ring traveler. 2,918,780, 12-29-59, Cl. 57-125.
- Bowen, John C.: *See*—  
Wolf, Robert C., and Bowen. 2,873,878.
- Bowen, Julius I.: *See*—  
Mullins, Elwood H., and Bowen. 2,892,412.
- Bowen, Kermit A., 3% to R. A. and C. B. Sage, and by court decree 25% to H. E. Rector. Instrument for inscribing an ellipse. 2,899,748, 8-18-59, Cl. 33-30.
- Bowen, Max E. Pressurized douche applicator. 2,870,767, 1-27-59, Cl. 128-224.
- Bowen, Richard L., Jr. Constant speed web windup. 2,887,280, 5-19-59, Cl. 242-75.5.
- Bowen, Richard L., Jr. Constant tension unwinding control. 2,916,227, 12-8-59, Cl. 242-75.5.
- Bowen, Richard Le B., Jr. Constant tension unwinding control. 2,883,122, 4-21-59, Cl. 242-75.5.
- Bowen, S. R., Co.: *See*—  
Segelhorst, August V. 2,891,772.
- Bowen, William R., to United States of America, Atomic Energy Commission. Process for the recovery of metal values. 2,873,166, 2-10-59, Cl. 23-14.5.
- Bowen, William S. Solar energy apparatus. 2,872,915, 2-10-59, Cl. 126-271.
- Bowen, William V. Conveyor belt cleaning apparatus. 2,885,069, 5-5-59, Cl. 198-230.
- Bower, Benjamin F. Frankfurter tongs. 2,892,655, 6-30-59, Cl. 294-106.
- Bower, Byron F., to Pines Engineering Co., Inc. Universal and adjustable mounting for a clamp die in a tube bending machine. 2,871,909, 2-3-59, Cl. 153-46.
- Bower, Byron F., and R. J. Meredith, to Pines Engineering Co., Inc. Tube bending machine with pivotally mounted adjustable pressure dies. 2,887,141, 5-19-59, Cl. 153-33.
- Bower, Clyde S. Coin register. 2,881,975, 4-14-59, Cl. 235-32.
- Bower, Ernest P., O. C. Maurits, and G. N. Stelma. Thumb-operated latch actuator. 2,905,497, 9-22-59, Cl. 292-336.3.
- Bower, Frank A., and J. W. Heberling, Jr., to E. I. du Pont de Nemours and Co. Preparation of monochloro-1,1-difluoroethanes. 2,899,472, 8-11-59, Cl. 260-653.8.
- Bower, Fred: *See*—  
Miller, Walter H., and Bower. 2,885,650.
- Bower, George C. Magnetic clutch tap drive. 2,914,155, 11-24-59, Cl. 192-21.5.
- Bower, John L.: *See*—  
Mittell, Frank C., Chase, Matey, Pollock, Dawson, and Bower. 2,902,696.
- Bower, John L., to North American Aviation, Inc. Vector gage. 2,906,179, 9-29-59, Cl. 90-13.5.
- Bower, John L., and W. R. Abbott, to North American Aviation, Inc. Magnetic gage. 2,875,524, 3-3-59, Cl. 33-125.
- Bower, John L., and W. R. Abbott, to North American Aviation, Inc. Multiple linear range error decoder. 2,906,934, 9-29-59, Cl. 318-28.
- Bower, John L., and W. R. Abbott, to North American Aviation, Inc. Device indicating relative position between work-piece and line scribe. 2,916,826, 12-15-59, Cl. 33-32.
- Bower Mfg. Co., Inc.: *See*—  
Bower, Ralph H. 2,891,508.
- Bower, Ralph H., to The Bower Mfg. Co., Inc. Marauder guard. 2,891,508, 6-23-59, Cl. 119-51.
- Bower, Warren R.: *See*—  
Whitesel, Harry A., and Bower. 2,890,574.
- Bower, William L., to James Neill & Co. (Sheffield) Ltd. Lifting magnets. 2,915,682, 12-1-59, Cl. 317-159.
- Bowerman, Edwin R., to Sylvania Electric Products Inc. Method for the production of conductive patterns and resultant product. 2,905,539, 9-22-59, Cl. 41-43.
- Bowerman, Edwin R., and E. B. Saubestre, to Sylvania Electric Products Inc. Electropolishing method. 2,874,104, 2-17-59, Cl. 204-140.5.
- Bowers Battery and Spark Plug Co.: *See*—  
Campanelli, Samuel. Re. 24,631.
- Bowers, Charles E., Sr., to The Fibre-Metal Products Co. Mounting for welders' helmets, face shields and the like. 2,889,606, 6-9-59, Cl. 24-211.
- Bowers, Eric H., and O. Thoma, to Dowty Hydraulic Units Ltd. and O. Thoma. Hydraulic power transmission. 2,896,411, 7-28-59, Cl. 60-53.
- Bowers, Frederick A., to Phillips Petroleum Co. Process for removing inert gases from ammonia synthesis gas. 2,881,053, 4-7-59, Cl. 23-198.
- Bowers, Fritz K., to Bell Telephone Laboratories, Inc. Delta modulation compander. 2,897,275, 7-28-59, Cl. 179-15.6.
- Bowers, Herbert L., to Pfaunder Permutit, Inc. Water de-aerating means. 2,917,176, 12-15-59, Cl. 210-180.
- Bowers, Robert E., to R-E-B, Inc. Radio construction. 2,895,044, 7-14-59, Cl. 250-14.
- Bowers, Roland G., to Sun Oil Co. Inhibitor sweetening process for hydrocarbon oil containing an organic. 2,891,002, 6-16-59, Cl. 208-189.
- Bowers, Roy L., and G. W. Colby, to General Motors Corp. Sealed electrical terminals. 2,874,206, 2-17-59, Cl. 174-77.
- Bowers, Van B. Collapsible supporting trestle. 2,897,911, 8-4-59, Cl. 182-155.
- Bowerston Shale Co.: *See*—  
Milliken, Frank H. 2,898,741.
- Bowes, Charles A.: *See*—  
Lindeke, Charles B. 2,894,676.
- Bowes, Henry A., to Warner-Lambert Pharmaceutical Co. Ataractic composition comprising 10-(1-methyl-3-piperidyl-methyl)-phenothiazine and 10-(3-dimethylamino-propyl)-2-chlorophenothiazine. 2,872,376, 2-3-59, Cl. 167-65.
- Bowes, Henry E.: *See*—  
Whipple, Richard J., and Bowes. 2,872,677.
- Bowes, Robert M.: *See*—  
Golden, Samuel J. 2,909,183.
- Bowie, Robert M., to Sylvania Electric Products Inc. Timing and phase-control circuits. 2,883,659, 4-21-59, Cl. 343-13.
- Bowin, Richard E. Sewing machine mechanisms. 2,912,946, 11-17-59, Cl. 112-215.
- Bowker, Harry W.: *See*—  
Ashley, Edward L. and J. W., Bowker, Hall, and Kendall. 2,872,398.
- Bowker, Walter C.: *See*—  
Wurtz, John W., and Bowker. 2,893,058.
- Bowland, Charles R. Food grinder. 2,896,683, 7-28-59, Cl. 146-192.
- Bowlby, Clarence W., to Boeing Airplane Co. Physical thickness gage. 2,876,551, 3-10-59, Cl. 33-147.
- Bowlden, Earl T. Wall construction. 2,869,355, 1-20-59, Cl. 72-33.
- Bowler, Gordon E.: *See*—  
Shank, Robert J., and Bowler. 2,878,466.
- Bowles, Glen A. Coffee percolator. 2,872,560, 2-3-59, Cl. 219-43.
- Bowles, Vernon O., to Socony Mobil Oil Co., Inc. Multistage concurrent-counter-current liquid gas contact and apparatus therefor. 2,877,099, 3-10-59, Cl. 23-288.
- Bowles, Vernon O., to Socony Mobil Oil Co., Inc. Low pressure drop fractionating tray. 2,880,980, 4-7-59, Cl. 261-114.
- Bowles, Vernon O., to Socony Mobil Oil Co., Inc. Integrated pretreating and reforming of the pretreated naphtha. 2,903,415, 9-8-59, Cl. 208-89.
- Bowles, William R.: *See*—  
Gagle, Duane W., Goss, and Bowles. 2,882,714.
- Bowles, William S., to Wall Colmonoy Corp. Method and composition for forming a porous metallic coating. 2,868,667, 1-13-59, Cl. 117-22.
- Bowling, John F.: *See*—  
Adams, Dustin S., and Bowling. 2,907,165.
- Bowling Machines, Inc.: *See*—  
Janes, Joseph. 2,917,309.
- Bowman, Anna H.: *See*—  
Bowman, Samuel G. 2,892,375.
- Bowman, Samuel G. 2,898,794.
- Bowman, Samuel G. 2,900,164.
- Bowman, Samuel G. 2,910,907.
- Bowman, Donald C., to Sinclair Oil & Gas Co. Cathode ray tube deflection circuit control apparatus. 2,911,638, 11-3-59, Cl. 340-324.
- Bowman, Francis. Machine for stacking hides. 2,884,244, 4-28-59, Cl. 271-86.



- Bowman, Henry V., to Char-Gale Mfg. Co. Register construction. 2,903,957, 9-15-59, Cl. 98-106.
- Bowman, Howard J.: *See*—  
Williams, Elmer W., and Bowman. 2,874,263.
- Bowman, Hyman D. Fluid heater. 2,881,301, 4-7-59, Cl. 219-33.
- Bowman, Jacob W. Apparatus for making food products. 2,915,957, 12-8-59, Cl. 99-238.
- Bowman, James A.: *See*—  
Couper, Alistair S., Stein, and Bowman. 2,904,604.
- Bowman, Joseph H., to American Steel Band Co. Roofing material. 2,895,432, 7-21-59, Cl. 108-13.
- Bowman, Karl R.: *See*—  
Rada, Frank J., and Bowman. 2,870,902.
- Bowman, Lawrence E., to Leonard Valve Co. Heater valve. 2,910,243, 10-27-59, Cl. 236-12.
- Bowman, Lee P.: *See*—  
Wright, Roy E. 2,891,260.
- Bowman, Lewis W.: *See*—  
Bartlett, Jeffrey H., Brodkey, and Bowman. 2,875,244.
- Bowman, Lewis W., and R. F. Leary, to Esso Research and Engineering Co. Polymerization of propylene. 2,874,153, 2-17-59, Cl. 260-93.7.
- Bowman, Lewis W., R. F. Leary, and W. J. G. McCulloch, to Esso Research and Engineering Co. Cured polypropylene. 2,890,187, 6-9-59, Cl. 260-23.5.
- Bowman, Paul E., to Alford Package Machines, Inc. Carton sealing machine. 2,912,803, 11-17-59, Cl. 53-76.
- Bowman, Paul F., to Continental Paper Co. Machine for applying end closures to cartons. 2,912,809, 11-17-59, Cl. 53-137.
- Bowman, Robert S.: *See*—  
Barrett, Elliott P., and Bowman. 2,914,431.
- Bowman, Roy O. Fish lure. 2,889,657, 6-9-59, Cl. 43-42.06.
- Bowman, Samuel G.,  $\frac{1}{2}$  to A. H. Bowman, and  $\frac{1}{2}$  to J. M. Guthrie. Pipe organ assembly. 2,892,375, 6-30-59, Cl. 84-337.
- Bowman, Samuel G., deceased,  $\frac{1}{2}$  to A. H. Bowman and J. M. Guthrie. Pipe organ valve. 2,898,794, 8-11-59, Cl. 84-337.
- Bowman, Samuel G., deceased, by V. B. Caldwell, administratrix,  $\frac{1}{2}$  to A. H. Bowman and  $\frac{1}{2}$  to J. M. Guthrie. Pipe organ valves. 2,900,164, 8-18-59, Cl. 251-138.
- Bowman, Samuel G., deceased;  $\frac{1}{2}$  to A. H. Bowman and  $\frac{1}{2}$  to J. M. Guthrie. Pipe organ combinations. 2,910,907, 11-3-59, Cl. 84-331.
- Bowman, Spencer: *See*—  
Von Stroh, Gerald F. H., and Bowman. 2,868,527.
- Bown, Delos E., J. P. Keller, and A. T. Watson, to Esso Research and Engineering Co. Electrical reduction process. 2,904,486, 9-15-59, Cl. 204-164.
- Bown, Delos E., and F. W. Lampe, to Esso Research and Engineering Co. Catalyst compositions. 2,913,445, 11-17-59, Cl. 260-94.9.
- Bown, James R. Firescreen panel or the like. 2,913,047, 11-17-59, Cl. 160-348.
- Bowness, George W., and J. Scott. Vehicle body extension. 2,872,239, 2-3-59, Cl. 296-26.
- Bownik, Nicholas J., Jr., to Bell Telephone Laboratories, Inc. Magnetic pulse generator. 2,912,602, 11-10-59, Cl. 307-106.
- Bowser, Chester L., Jr., to The Martin Co. Apparatus for stretch-wrap forming metal workpieces. 2,889,864, 6-9-59, Cl. 153-32.
- Bowser, Inc.: *See*—  
Daley, Roger J., and Schaber. 2,918,173.  
Grant, Michael G., and Topol. 2,919,030.  
Rittenhouse, Howard E. 2,898,079.  
Taylor, Jack A., and Topol. 2,883,345.  
Topol, George J., Baranowski, and Bartik. 2,870,859.
- Bowser, Percy L., Jr.: *See*—  
Peterson, William F., Venner, and Bowser. 2,874,010.
- Bowser, Phillip C., and R. E. Denzer, to General Motors Corp. Air suspension levelling device. 2,906,526, 9-29-59, Cl. 267-65.
- Box, E. O., Jr.: *See*—  
Drehman, Lewis E., and Box. 2,881,229.
- Boxcer, John R., and H. Bincer, to The Babcock & Wilcox Co. Ultrasonic testing apparatus. 2,875,607, 3-3-59, Cl. 73-67.9.
- Boxcer, John R., and H. Bincer, to The Babcock & Wilcox Co. Ultrasonic probes. 2,896,098, 7-21-59, Cl. 310-8.1.
- Boyajan, John A., to Fairchild Camera and Instrument Corp. Photoelectric pick-up system for engraving machines. 2,870,250, 1-20-59, Cl. 178-7.1.
- Boyar-Schultz Corp.: *See*—  
Bunnell, William S. 2,869,402.
- Boyce, Billy E. Fire extinguisher. 2,876,845, 3-10-59, Cl. 169-26.
- Boyce, Edward R. Ditcher. 2,916,835, 12-15-59, Cl. 37-98.
- Boyce, John, to Food Machinery and Chemical Corp. Fruit processing machine. 2,891,591, 6-23-59, Cl. 146-43.
- Boyce, Reginald D. Patches for rubber articles. 2,888,972, 6-2-59, Cl. 152-367.
- Boyce, Walter A.: *See*—  
Plagge, Vernon L., and Boyce. 2,901,646.
- Boyce, William T. Coffee percolator strainer support. 2,873,031, 2-10-59, Cl. 210-480.
- Boyckick, Walter. Rewind crank for cameras. 2,879,008, 3-24-59, Cl. 242-71.3.
- Boyd, Frank. Mechanism for removing a self-propelled vehicle from mud, snow and the like. 2,886,119, 5-12-59, Cl. 180-8.
- Boyd, George E., E. R. Russell, and J. Schubert, to United States of America, Atomic Energy Commission. Adsorption method for separating thorium values from uranium values. 2,898,185, 8-4-59, Cl. 23-14.5.
- Boyd, Godfrey M., to General Electric Co. Apparatus for coating cavities. 2,868,163, 1-13-59, Cl. 118-317.
- Boyd, John R. Supercharger system for internal combustion engines. 2,903,847, 9-15-59, Cl. 60-13.
- Boyd, Loyd Q., to Standard Oil Co. Defoliation of plants. 2,903,347, 9-8-59, Cl. 71-2.7.
- Boyd, Richard K.: *See*—  
Clement, Milton A., and Boyd. 2,902,638.
- Boyd, Robert E., to International Business Machines Corp. Ratio measuring apparatus. 2,919,067, 12-29-59, Cl. 235-196.
- Boyd, Robert L., Jr., and C. E. Huntsinger, to Commercial Controls Corp. Space heating system and apparatus. 2,882,383, 4-14-59, Cl. 219-39.
- Boyd, Thomas R., to Illinois Tool Works. Twisted tooth lock washer having anti-skid body section. 2,895,524, 7-21-59, Cl. 151-37.
- Boyd, Thomas R., to Illinois Tool Works. Stud carried locking detents with means to hold the detents in lock position. 2,906,311, 9-29-59, Cl. 151-9.
- Boyd, Thomas R., to Illinois Tool Works. Serrated, expandable lock nut. 2,914,106, 11-24-59, Cl. 151-21.
- Boyd, William H. A., to United States of America, Army. Self-regulating rotocute. 2,917,255, 12-15-59, Cl. 244-138.
- Boyd, Wilton E., Jr., to Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Remote control positioner. 2,883,596, 4-21-59, Cl. 318-31.
- Boyd-Brent, Peter, to Harry Ferguson of India Ltd. Soft ground cultivator attachment for tractors and the like. 2,871,956, 2-3-59, Cl. 172-72.
- Boydell, Kenneth R., to Rotol Ltd. Refrigeration systems. 2,871,672, 2-3-59, Cl. 62-172.
- Boydén, Robert E., R. E. Eakin, R. S. Mark, and I. J. Spiro,  $\frac{1}{2}$  to Flo-Ball Pen Corp. Writing instrument. 2,884,900, 5-5-59, Cl. 120-42.3.
- Boydén, Robert E., M. V. Scozzafava, and A. F. Stansell, to Clary Corp. Sales transaction machine. 2,894,449, 7-14-59, Cl. 101-96.
- Boydén, Robert E., and F. N. Schwend, to Clary Corp. Printing apparatus. 2,916,989, 12-15-59, Cl. 101-269.
- Boyer, André F., to Charbonnages de France. Metallurgical coke and process for producing the same. 2,877,163, 3-10-59, Cl. 202-33.
- Boyer, Charles J.: *See*—  
Simpson, Jack N., and Boyer. 2,895,137.
- Boyer, John L., H. C. McWilliams, and A. P. Colaiaco, to Westinghouse Electric Corp. Semiconductor rectifier assembly. 2,889,498, 6-2-59, Cl. 317-234.
- Boyer, John L., to Westinghouse Electric Corp. Control circuitry. 2,910,641, 10-27-59, Cl. 321-66.
- Boyer, John L., A. P. Colaiaco, and H. C. McWilliams, to Westinghouse Electric Corp. Semiconductor rectifier device. 2,917,686, 12-15-59, Cl. 317-234.
- Boyer, Lee H., to Phillips Petroleum Co. Pebble heater apparatus and process. 2,881,231, 4-7-59, Cl. 260-67.9.
- Boyer, Lyndon D., to Phillips Petroleum Co. Process and apparatus for pelleting. 2,867,513, 1-6-59, Cl. 23-314.
- Boyer, Lyndon D.: *See*—  
Pennington, Edward N., Pollock, Wood, Andrews, and Boyer. 2,883,271.
- Boyer, Marion J., and E. A. Dvorak, to Ford Motor Co. Windshield wiper control. 2,877,661, 3-17-59, Cl. 74-503.
- Boyer, Martin. Leaf vacuum collector and burner. 2,905,963, 9-29-59, Cl. 15-339.
- Boyer, Ralph K., to The Dill Mfg. Co. Valve stem for tubeless tires. 2,872,963, 2-10-59, Cl. 152-427.
- Boyer, Ralph K., to The Dill Mfg. Co. Valve stem. 2,874,750, 2-24-59, Cl. 152-427.
- Boyer, Ralph K., and R. H. Nece, to The Dill Mfg. Co. Needle type valve for inflatable container. 2,907,341, 10-6-59, Cl. 137-223.
- Boyer, Robert H., to The Kirkwood Commutator Co. Commutator for electric machines. 2,898,448, 8-4-59, Cl. 310-236.
- Boyer, Richard P., Jr.: *See*—  
Gatzert, Ernest H., Pharis, and Boyer. 2,913,533.
- Boyer, Richard P., Jr., to General Dynamics Corp. Signaling systems. 2,869,046, 1-13-59, Cl. 317-141.
- Boyer, Roscoe A. Self-scoring teaching apparatus. 2,911,741, 11-10-59, Cl. 35-9.
- Boyer, Wayne L., to United States of America, Army. Streamer mount for flagstaffs. 2,869,507, 1-20-59, Cl. 116-173.
- Boyer, Wilhelm, K. Eisenburger, W. Hufnagel, and J. Ritter, to EVG Entwicklungs- und Verwertungsgesellschaft M.b.H. Steel reinforcement for reinforced concrete structure. 2,916,910, 12-15-59, Cl. 72-110.
- Boyers, Gertrude G., to Engelhard Industries, Inc. Hydrogenation of mono- and disaccharides to polyols. 2,868,847, 1-13-59, Cl. 260-635.
- Boytown Burial Casket Co.: *See*—  
Eisenhard, Eli S., and Faust. 2,889,609.



- Boyes, Alfred L.: *See*—  
Smith, Paul L., and Boyes. 2,911,308.
- Boyett, C. B., to Terry Industries, Inc. Method of plating metallic surfaces. 2,893,931, 7-7-59, Cl. 204-33.
- Boykin, Benjamin J. Fowl deheading apparatus. 2,874,402, 2-24-59, Cl. 17-12.
- Boykin, Otis F., to Chicago Telephone Supply Corp. Wire type precision resistor. 2,891,227, 6-16-59, Cl. 338-62.
- Boykin, Robert M. Course spacing tool. 2,881,532, 4-14-59, Cl. 33-180.
- Boylan, Harrison W.: *See*—  
Newman, Douglas A., Boylan, Schlotzhauer, and Smatlak. 2,872,863.
- Boylan, Henry W., to General Motors Corp. Vehicle air conditioning apparatus. 2,891,388, 6-23-59, Cl. 62-243.
- Boylan, Henry W., to General Motors Corp. Universal air deflector outlet devices. 2,894,441, 7-14-59, Cl. 98-2.
- Boylan, Henry W., H. C. Doane, and L. E. Muller, to General Motors Corp. Systems for modifying heat content of air introduced into vehicles. 2,883,161, 4-21-59, Cl. 257-7.
- Boylan, Henry W., H. C. Doane, and A. E. McManama, to General Motors Corp. Heating, ventilating and air conditioning systems for vehicles. 2,893,700, 7-7-59, Cl. 257-7.
- Boylan, Henry W., and J. E. Mall, to General Motors Corp. Air outlet devices. 2,894,444, 7-14-59, Cl. 98-2.
- Boyle, Francis A.: *See*—  
Thompson, William E., and Boyle. 2,908,642.  
Thompson, William E., and Boyle. 2,908,643.
- Boyle, Francis A., to Sun Oil Co. Treatment of underground formations. 2,908,641, 10-13-59, Cl. 252-8.55.
- Boyle, Homer G., to Avco Mfg. Corp. Simplified electronic commutator. 2,915,634, 12-1-59, Cl. 250-27.
- Boyle, James M.: *See*—  
Ready, Harold R., Boyle, and Lynch. 2,895,973.
- Boyle, John R. Refrigerating system. 2,882,698, 4-21-59, Cl. 62-220.
- Boyle, John R., and D. H. Gold, to Bohn Aluminum & Brass Corp. Refrigeration defrosting system. 2,902,835, 9-8-59, Cl. 62-155.
- Boyle, John W., to United States Steel Corp. Rail plow for dismantling railway tracks. 2,901,217, 8-25-59, Cl. 254-104.
- Boyle, Richard J.: *See*—  
Long, Robert S., and Boyle. 2,877,230.
- Boyle, Stanley, and L. Chaiken,  $\frac{1}{4}$  to R. S. Mehr. Electric fastener driving machines. 2,879,510, 3-31-59, Cl. 1-3.
- Boyle, Willard S., to Bell Telephone Laboratories, Inc. Intermittent discharge pulse generators. 2,905,820, 9-22-59, Cl. 250-37.
- Boyle, Willard S., and R. W. Ketchledge, to Bell Telephone Laboratories, Inc. Self-propagating intermittent discharge delay lines. 2,884,565, 4-28-59, Cl. 315-84.5.
- Boyles, Carroll H., to Whirl-Clean Corp. Paint roll and paint roll mounting. 2,913,752, 11-24-59, Cl. 15-230.
- Boyles, John H., to Tufted Patterns, Inc. Method and means for feeding thread in tufting machines. 2,876,441, 3-3-59, Cl. 112-79.
- Boyne Products, Inc.: *See*—  
Dryer, Peter J. 2,882,358.  
Dryer, Peter J. 2,902,556.
- Boynton, A. J., & Co.: *See*—  
Boynton, Arthur J. 2,886,308.
- Tiefig, Rudolph, Jr., and Pollingue. 2,872,180.
- Boynton, Arthur J., to A. J. Boynton & Co. Lance handling apparatus. 2,886,308, 5-12-59, Cl. 266-34.
- Boynton, Erwin R., to General Electric Co. Method of assembling compressor and motor. 2,911,709, 11-10-59, Cl. 29-155.5.
- Boynton, Harry G., E. W. Lewis, and A. T. Watson, to Esso Research and Engineering Co. Method for conducting photochemical reactions. 2,890,990, 6-16-59, Cl. 204-162.
- Boynton, Harry G., and W. R. Edwards, to Esso Research and Engineering Co. Process for alkylating aromatic hydrocarbons. 2,896,001, 7-21-59, Cl. 260-671.
- Boyog, George A.: *See*—  
White, Robert B., and Boyog. 2,911,613.
- Bozarth, David H.: *See*—  
Corbitt, Howard E., Hill, and Bozarth. 2,870,287.
- Bozel-Maletra, Societe Industrielle de Produits Chimiques: *See*—  
Lehmann, Rene L., and Gandon. 2,867,615.
- Bozeman, John W., to Burroughs Corp. Character recognition apparatus. 2,898,576, 8-4-59, Cl. 340-149.
- Bozenka, Joseph, to The Budd Co. Work handling apparatus for sheet forming presses and the like. 2,888,153, 5-26-59, Cl. 214-1.
- Bozer, Keith B.: *See*—  
Archer, Wesley L., Bozer, and Rickert. 2,895,935.
- Bozer, Keith B., R. S. Montgomery, and W. L. Archer, to The Dow Chemical Co. Finish for polyester textile materials. 2,875,099, 2-24-59, Cl. 117-138.8.
- Bozer, Keith B., R. S. Montgomery, and W. L. Archer, to The Dow Chemical Co. Finish for cellulosic textile materials. 2,875,100, 2-24-59, Cl. 117-139.5.
- Bozich, Michael J. Bin level indicator. 2,909,766, 10-20-59, Cl. 340-246.
- Bozich, Samuel, A. J. Shmidl, and J. W. Smalling, to Esso Research and Engineering Co. Removal of hydrogen sulfide from hydrocarbons. 2,884,377, 4-28-59, Cl. 208-230.
- Bozich, Samuel, E. W. Lewis, and B. D. Smith, to Esso Research and Engineering Co. Process for recovery of crystallizable hydrocarbons from crystalline slurries in stages. 2,913,503, 11-17-59, Cl. 260-666.
- Bozin, Zoran. Mirror support. 2,877,687, 3-17-59, Cl. 88-99.
- Bozorth, Richard M., to Bell Telephone Laboratories, Inc. Method of making single crystal cores of a ferrite including cobalt and cores so made. 2,906,979, 9-29-59, Cl. 336-218.
- Bozzo, Eugene A. Process for canning fresh prunes. 2,897,088, 7-28-59, Cl. 99-186.
- Braak, Dirk J., to North American Philips Co., Inc. Radio system comprising a main station and a plurality of sub-stations. 2,901,543, 8-25-59, Cl. 179-15.5.
- Braatz, Willi, to Ingersoll-Rand Co. Socket. 2,896,985, 7-28-59, Cl. 287-119.
- Braatz, Willi, to Canadian Ingersoll-Rand Co. Ltd. Method of forming gun barrels. 2,917,809, 12-22-59, Cl. 29-1.1.
- Brabander, Herbert J.: *See*—  
Bach, Frederick L., Jr., Brabander, and Kushner. 2,909,523.
- Brabender, Carl W.: *See*—  
Kuhlmann, Wilhelm, Pagenstedt, and Brabender. 2,880,093.
- Braby, Frederick, and Co. Ltd.: *See*—  
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- Brace, Neal O.: *See*—  
Baumgartner, Walter E., and Brace. 2,917,527.
- Bracht, Charles A., to Sears, Roebuck and Co. Body supporting garment. 2,915,067, 12-1-59, Cl. 128-469.
- Bracht, Paul. Process for the manufacture of containers. 2,906,180, 9-29-59, Cl. 93-94.
- Brck, Karl, to Hercules Powder Co. Herbicidal compositions containing esters of 1-ethynylcyclohexanol. 2,885,278, 5-5-59, Cl. 71-2.6.
- Brackensy, Auguste H.,  $\frac{1}{2}$  to The Franco-British Electrical Co., Ltd. Display apparatus. 2,867,049, 1-6-59, Cl. 40-28.3.
- Brackertz, Ernst: *See*—  
Bach, Willi, and Brackertz. 2,893,123.
- Brackett, Fred M.: *See*—  
Blair, Boyd C. 2,873,852.
- Brackett, John C., and R. Guyer, to Waldorf Paper Products Co. Container formed of corrugated board. 2,885,138, 5-5-59, Cl. 229-14.
- Brackett Stripping Machine Co.: *See*—  
Blair, Boyd C. 2,873,852.
- Brackman, Willem, to Shell Development Co. Process for the preparation of aldehydes and ketones. 2,883,426, 4-21-59, Cl. 260-596.
- Brackmann, William J., E. R. Schlesinger, and L. Harris, to United Aircraft Corp. Apparatus for obtaining statistical data. 2,910,233, 10-27-59, Cl. 235-151.
- Braconier, Frederic F. A., H. Le Bihan, and R. Arnould, to Societe Belge de l'Azote et des Produits Chimiques du Marly. Process of preparation of unsaturated higher aliphatic alcohols. 2,876,265, 3-3-59, Cl. 260-638.
- Brad Foote Gear Works, Inc.: *See*—  
Gunderson, Gunnar E., and Hollmann. 2,901,925.  
Gunderson, Gunnar E., and Hollmann. 2,917,949.
- Bradaska, Leo M. Pump for the elevation of liquids. 2,909,127, 10-20-59, Cl. 103-260.
- Bradburd, Ervin M., to International Telephone and Telegraph Corp. Pulse shaper circuit. 2,890,420, 6-9-59, Cl. 333-20.
- Bradburn, William J., Jr., to The Louis Allis Co. Constant surface speed regulator. 2,897,427, 7-28-59, Cl. 318-145.
- Bradburn, William J., Jr., and H. R. A. Hansen, to The Louis Allis Co. Voltage regulator. 2,882,480, 4-14-59, Cl. 322-28.
- Bradburn, William J., Jr., E. G. Conger, and H. R. A. Hansen, to The Louis Allis Co. Static current limit regulator for motor system. 2,884,578, 4-28-59, Cl. 318-143.
- Bradbury, Charles H., and W. S. Air conditioner awning. 2,874,551, 2-24-59, Cl. 62-262.
- Bradbury, Frederick J., to Automotive Products Co. Ltd. Servo-devices of the differential air pressure type. 2,915,047, 12-1-59, Cl. 121-46.5.
- Bradbury, James W.: *See*—  
Beach, John M., and Bradbury. 2,886,344.
- Bradbury, James W., to Paul R. Pontis and Associates, Inc. Thermometer. 2,893,245, 7-7-59, Cl. 73-363.3.
- Bradbury, William S.: *See*—  
Bradbury, Charles H. and W. S. 2,874,551.
- Braddock, James S.: *See*—  
Offutt, Harold H., and Braddock. 2,907,447.
- Braddy, De Carr C.: *See*—  
Rowand, Will H., and Braddy. 2,902,982.
- Bradfield, William W., and R. E. Anderson, to Rigdibilt Inc. Unit cooler. 2,871,677, 2-3-59, Cl. 62-285.
- Bradford, Bernard W., and W. J. Skinner, to United States of America, Atomic Energy Commission. Molded sealing element. 2,879,247, 3-24-59, Cl. 260-41.
- Bradford Dyers' Association Ltd.: *See*—  
Evans, John G., Landells, and Meals. 2,911,324.  
Evans, John G., and Meals. 2,893,898.  
Parker, Charles S., and Melville. 2,890,515.  
Parker, Charles S., and Melville. 2,905,999.
- Bradford, E. E.: *See*—  
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- Bradford Novelty Co., Inc.: See—  
Burnbaum, Jack. 2,907,130.
- Bradford, Wylie B. Resilient support assembly. 2,897,520, 8-4-59, Cl. 5-348.
- Bradichich, John B.: See—  
Bailey, Edward A., Bradichich, and Crathern. 2,890,630.
- Bradley, Addison B., to Whirlpool Corp. Fluid suction device. 2,875,947, 3-3-59, Cl. 230-117.
- Bradley, Charles H., Jr.: See—  
Moore, Ralph W., and Bradley. 2,881,570.
- Bradley, Clayton W.: See—  
Stanley, John P., and Bradley. 2,870,062.
- Bradley Container Corp.: See—  
Quinche, Albert, and Lecluyse. 2,883,706.  
Root, Andrew A. 2,876,358.  
Root, Andrew A. 2,879,818.
- Bradley, George G.: See—  
Berge, Raymond G., and Bradley. 2,874,278.
- Bradley, George S. Rabbit feeders. 2,874,678, 2-24-59, Cl. 119-61.
- Bradley, Harold W. 50% to R. L. Bradley. Car top carrier bracket. 2,890,852, 6-16-59, Cl. 248-206.
- Bradley, Harry L., and R. S. Hower, to Allen-Bradley Co. Capacitor. 2,899,611, 8-11-59, Cl. 317-242.
- Bradley, Jessie G. Container racking and wheel attachment. 2,904,345, 9-15-59, Cl. 280-47.13.
- Bradley, John R., to Kontak Mfg. Co. Ltd. Pumps for metering liquids. 2,902,936, 9-8-59, Cl. 103-38.
- Bradley, John S., F. P. Otto, and F. M. Seger, to Socony Mobil Oil Co., Inc. Preparation of complex carbonated metal salts of alkyl phenol sulfides and mineral oil fractions containing the same. 2,916,454, 12-8-59, Cl. 252-42.7.
- Bradley, Melvin F. 40% to F. Michaels. Mounting device for patterns. 2,892,226, 6-30-59, Cl. 22-157.
- Bradley, Milton, Co.: See—  
McMahon, Thomas J. 2,907,123.
- Bradley Mining Co.: See—  
King, Burnham W., Jr., and Hedden. 2,918,382.  
Schaefer, Glenn R. 2,918,414.  
Schaefer, Glenn R. 2,918,415.
- Bradley, Ralph L.: See—  
Bradley, Harold W. 2,890,852.
- Bradley, Robert O., to Toledo Scale Corp. Platform supporting structure for weighing scales. 2,901,235, 8-25-59, Cl. 265-71.
- Bradley, Robert O., to Toledo Scale Corp. Flexure ribbon guards. 2,918,268, 12-22-59, Cl. 265-27.
- Bradley & Vrooman Co.: See—  
Yusem, Milton. 2,885,929.  
Yusem, Milton. 2,895,930.
- Bradley, William E., to Philco Corp. Signal shaping system. 2,871,453, 1-27-59, Cl. 333-20.
- Bradley, William E., to Philco Corp. Semiconductive device and method of manufacture. 2,885,608, 5-5-59, Cl. 317-234.
- Bradley, William E., to Philco Corp. Electronic cooling device and method for the fabrication thereof. 2,898,743, 8-11-59, Cl. 62-3.
- Bradley, William G., and F. D. Patrick, to The Dow Chemical Co. Electrical contact apparatus. 2,915,731, 12-1-59, Cl. 339-5.
- Bradmillar, Richard W., to Avco Mfg. Corp. Detector and AGC system. 2,891,145, 6-16-59, Cl. 250-20.
- Bradner, Ernest G., to Dominion Fasteners Ltd. Fasteners. 2,910,155, 10-27-59, Cl. 189-88.
- Bradshaw & Co.: See—  
Bradshaw, Grant D. 2,896,743.
- Bradshaw, Grant D., to Bradshaw & Co. Apparatus for separating liquid from gases. 2,896,743, 7-28-59, Cl. 183-71.
- Bradshaw, Harold: See—  
Shaw, Hugh H., Sanderson, and Bradshaw. 2,876,607.
- Bradshaw, Harry O.: See—  
Norton, Albert, and Bradshaw. 2,900,879.
- Bradshaw, James R.: See—  
Cresswell, Robert A., and Bradshaw. 2,908,798.  
Cresswell, Robert A., and Bradshaw. 2,908,799.
- Bradshaw, James V.: See—  
Houck, Claude A., and Bradshaw. 2,883,931.
- Bradshaw, John A. Cultivator tool unit and plant shield assembly. 2,894,591, 7-14-59, Cl. 172-512.
- Bradshaw, Norman H. Exhaust systems of internal combustion engines. 2,913,871, 11-24-59, Cl. 60-30.
- Bradshaw, Robert S., to Burroughs Corp. Pneumatic controlled sheet feeder. 2,902,278, 9-1-59, Cl. 271-30.
- Bradshaw, Stanley E., and A. I. Mlavsky, to The General Electric Co. Ltd. Production of semi-conductor bodies. 2,894,863, 7-14-59, Cl. 148-1.5.
- Bradshaw, William H., to Celanese Corp. of America. Method and apparatus for production of viscose rayon filamentary materials. 2,892,675, 6-30-59, Cl. 8-151.
- Bradson Mfg. Corp.: See—  
Price, Clarence A., Fischer, and Schultz. 2,901,186.
- Bradstock, Robert B., and W. B. Zelina, to General Electric Co. Current measuring reactor arrangement. 2,915,707, 12-1-59, Cl. 324-127.
- Bradstreet, John L. Portable machine for reconditioning farm implement discs while on the implement structure. 2,888,844, 6-2-59, Cl. 76-89.2.
- Bradstreet, Samuel W., to Armour Research Foundation of Illinois Institute of Technology. Process of coating and hot working of metals. 2,869,227, 1-20-59, Cl. 29-424.
- Bradstreet, Samuel W., to Armour Research Foundation of Illinois Institute of Technology. Method and compositions for flame spraying. 2,904,449, 9-15-59, Cl. 117-46.
- Bradstreet, Samuel W., and J. S. Griffith, to Armour Research Foundation of Illinois Institute of Technology. High surface area coating production. 2,893,891, 7-7-59, Cl. 117-62.
- Bradstreet, Samuel W., and J. S. Griffith, to Armour Research Foundation of Illinois Institute of Technology. Fine particle production. 2,900,244, 8-18-59, Cl. 75-5.
- Bradstreet, Samuel W., and H. L. Rechter, to Armour Research Foundation of Illinois Institute of Technology. Ceramic coated golf club head. 2,908,502, 10-13-59, Cl. 273-167.
- Bradt, Rexford, to Fiberfil Corp. Glass-reinforced thermoplastic injection molding compound and injection molding process employing it. 2,877,501, 3-17-59, Cl. 18-55.
- Bradway, Keith E.: See—  
Yundt, Albert P., and Bradway. 2,879,236.  
Yundt, Albert P., and Bradway. 2,916,468.
- Bradway, Malcolm S.: See—  
De Neergaard, Leif E. 2,882,475.  
De Neergaard, Leif E. 2,882,516.  
De Neergaard, Leif E. 2,885,256.
- Brady, Charles V., to Bemis Bro. Bag Co. Bag. 2,889,979, 6-9-59, Cl. 229-62.5.
- Brady, Charles V., and A. F. Ottinger, to Bemis Bros. Bag Co. Bag. 2,870,955, 1-27-59, Cl. 229-66.
- Brady, Dale W. Crop cutting, blowing and gathering implement. 2,882,667, 4-21-59, Cl. 56-24.
- Brady, Dale W. Vegetation cutting means. 2,902,813, 9-8-59, Cl. 56-24.
- Brady, Dale W. Hay conditioning implement. 2,911,780, 11-10-59, Cl. 56-1.
- Brady, Edward J., and C. B. Marshall, to Alloy Rods Co. Electrode wire feeding system. 2,912,612, 11-10-59, Cl. 314-72.
- Brady, Francis E., Jr. Float ball check valve. 2,916,042, 12-8-59, Cl. 137-202.
- Brady, George W., and S. S. Flaschen, to Bell Telephone Laboratories, Inc. Surface treatment of ferroelectric materials. 2,916,681, 12-8-59, Cl. 317-262.
- Brady, John B. Method for translating and silently reproducing languages. 2,911,462, 11-3-59, Cl. 178-5.6.
- Brady, Joseph L., to Clark Equipment Co. Telescopic cylinder assembly. 2,887,092, 5-19-59, Cl. 121-46.
- Brady, Joseph L., to Clark Equipment Co. Clamp mechanism. 2,904,202, 9-15-59, Cl. 214-653.
- Brady, Lynn J.: See—  
Sommer, Alfred, and Brady. 2,874,067.
- Brady, Paul L., and L. E. Baldwin, to General Dynamics Corp. Valved coupling. 2,902,296, 9-1-59, Cl. 284-17.
- Brady, Sherwood J., to Cutler Laboratories, Inc. Coupling between rigid and non-rigid tubular members with collapsible bushing for holding the members assembled. 2,874,981, 2-24-59, Cl. 285-238.
- Brady, W. H., Co.: See—  
Simmons, Vaughan P. 2,906,397.
- Brady, William A., Jr., to General Motors Corp. Nut loading and welding machine. 2,905,803, 9-22-59, Cl. 219-79.
- Brady, William H., Jr.: See—  
Tobey, Frederic S. 2,877,846.
- Braendle, Harold A., and G. L. Heller, to Columbian Carbon Co. Beaded carbon black. 2,908,586, 10-13-59, Cl. 106-307.
- Braffort, Paul L., and J. Weill, to Commissariat A L'Energie Atomique. System for measuring nuclear power. 2,911,343, 11-3-59, Cl. 204-193.2.
- Braga, Felix J., to Bell Telephone Laboratories, Inc. Equivalent four-wire repeaters. 2,886,654, 5-12-59, Cl. 179-170.
- Bragdon, Robert W., to Metal Hydrides Inc. Method for purifying sodium borohydride. 2,883,263, 4-21-59, Cl. 23-14.
- Bragdon, Robert W., to Metal Hydrides Inc. Method for preparing sodium borohydride. 2,901,333, 8-25-59, Cl. 23-296.
- Brager, Leif N., to American Can Co. Feeding mechanism for fragile articles. 2,910,211, 10-27-59, Cl. 221-236.
- Bragg, William E. Mounting means for dished flush-type receptacles. 2,867,397, 1-6-59, Cl. 248-27.
- Brahm, Charles B., to United Aircraft Corp. Synchrophaser resetting mechanism for variable pitch aircraft propellers. 2,877,854, 3-17-59, Cl. 170-135.29.
- Brahm, Charles B., to United Aircraft Corp. Computing device for fuel control. 2,911,790, 11-10-59, Cl. 60-39.28.
- Brahmstedt, William T. Collision proof automobile body. 2,903,295, 9-8-59, Cl. 296-1.
- Braicks, Johan W., and S. Duinker, to North American Philips Co., Inc. Controllable inductor. 2,912,640, 11-10-59, Cl. 323-89.
- Braid, Kenneth G.: See—  
Johnson, Roy W., Duncan, Braid, and Healy. 2,902,578.
- Braid, Milton: See—  
Hauptschein, Murray, Braid, and Lawlor. 2,884,466.  
Hauptschein, Murray, Braid, and Lawlor. 2,914,566.  
Lawlor, Francis E., Braid, and Loev. 2,868,846.
- Braid, Murray D., to Thompson Products, Inc. Chainless conveyor. 2,877,886, 3-17-59, Cl. 198-108.
- Brainard, Edwin W. Winding device for fishing reels. 2,899,148, 8-11-59, Cl. 242-129.8.



- Brainard, Frank S., Sr. Rate recorder for integrating meters. 2,869,963, 1-20-59, Cl. 346-14.
- Brainard, Owen: *See*—
- Brainard, Wilson D. 2,914,324.
- Brainard, Wilson D., 50% to O. Brainard. Magnetic sheet feeder. 2,914,324, 11-24-59, Cl. 271-84.
- Brainard, William H., to United-Greenfield Corp. Controlled centering chuck. 2,905,476, 9-22-59, Cl. 279-116.
- Braithwaite, David G., to National Aluminate Corp. Purification of synthetic alumina catalyst bases. 2,905,534, 9-22-59, Cl. 23-143.
- Braithwaite, Isaac, & Son Engineers Ltd.: *See*—
- Walker, Thomas B., and English. 2,897,652.
- Brake, Alphonse A. Fish spear. 2,876,577, 3-10-59, Cl. 43-6.
- Bramante, Nunzio. Holder for milk container. 2,867,364, 1-6-59, Cl. 224-45.
- Brame, Eugene, to Power Jets (Research and Development) Ltd. Jet spoiler for gas turbine jet propulsion plant. Re. 24,703, 9-22-59, Cl. 60-35.55.
- Brame, Sam S. Ventilating screen door louver. 2,875,826, 3-3-59, Cl. 160-104.
- Bramhall, George H., to General Electric Co. Coupling. 2,870,863, 1-27-59, Cl. 183-43.
- Bramhall, George H., to General Electric Co. Rug tool. 2,881,666, 4-14-59, Cl. 15-375.
- Bramhall, John M.: *See*—
- Webster, John S., and Bramhall. 2,915,858.
- Bramhill, Percy W. Dispensing cartons for cigarette packages. 2,875,938, 3-3-59, Cl. 229-17.
- Bramhill, Percy W. Imperforate wrappings for cigarettes. 2,911,979, 11-10-59, Cl. 131-4.
- Brami, Joseph. Sound reproducing system. 2,907,837, 10-6-59, Cl. 179-115.5.
- Bramming, Carl, to Aladdin Industries, Inc. Electric lamp and switch means therefor. 2,878,373, 3-17-59, Cl. 240-81.
- Bramming, Carl, to Aladdin Industries, Inc. Vacuum bottles with suspended fillers. 2,880,899, 4-7-59, Cl. 215-13.
- Bran & Lubbe: *See*—
- Hettche, Otto, and Schultze. 2,895,329.
- Brancato, Leo J., to Heli-Coil Corp. Coil spring locking insert having chordal locking means and biting corner retaining means. 2,874,741, 2-24-59, Cl. 151-14.
- Brancato, Leo J., to Heli-Coil Corp. Nut having radially adjustable coil insert. 2,886,083, 5-12-59, Cl. 151-22.
- Brancato, Leo J., and J. P. Muenzen, to Heli-Coil Corp. Device for aligning tubular articles. 2,889,960, 6-9-59, Cl. 221-166.
- Branch, Maurice C., to International Standard Electric Corp. Pulse transmitting circuit. 2,914,667, 11-24-59, Cl. 250-27.
- Branch, Maurice C., and R. G. Mills, to International Standard Electric Corp. Static electrical code translating apparatus. 2,883,469, 4-21-59, Cl. 179-18.
- Branch, William C.: *See*—
- Booth, Jack J., and Branch. 2,869,754.
- Branchflower, Lyle E. Evaporator for freezer mechanisms. 2,910,841, 11-3-59, Cl. 62-347.
- Brand, Arthur, III: *See*—
- Roffman, Eugene, Cinaglia, Wysoczanski, and Brand. 2,885,075.
- Brand, Benson G.: *See*—
- Smith, Charles L., and Brand. 2,919,180.
- Brand, Denis J., and J. Ewels, to The General Electric Co. Ltd. Manufacture of semi-conductor devices. 2,811,103, 4-7-59, Cl. 148-1.5.
- Brand, Ellis C. Helicopter construction. 2,879,956, 3-31-59, Cl. 244-17.17.
- Brand, George W.: *See*—
- Hartmann, Philip, and Brand. 2,905,095.
- Brand, Helmut, to Licentia Patent-Verwaltungs-G. m. b. H. Toggle switch system. 2,870,282, 1-20-59, Cl. 200-67.
- Brand, Hugh R., L. P. Garvey, and J. G. Haviland, to General Motors Corp. Glass run channel. 2,892,657, 6-30-59, Cl. 296-44.5.
- Brand, Joseph J., to R and R Metal Products, Inc. Permanent mold with insert locating means. 2,890,505, 6-16-59, Cl. 22-151.
- Brand, Karl, to Kugelfischer Georg Schafer & Co. Cast cylinder for hydraulic systems. 2,903,309, 9-8-59, Cl. 309-3.
- Brand, Samuel, to International Business Machines Corp. System for magnetic storage of data. 2,910,669, 10-27-59, Cl. 340-174.
- Brand, Walter and I. Hoffman. Electric hot liquid heat convactor. 2,894,108, 7-7-59, Cl. 219-38.
- Brand, Warren H., and E. F. Holben, to Conoflow Corp. Measuring and controlling servo-motor system. 2,870,387, 1-20-59, Cl. 318-32.
- Brandafi, Gabriel. Drill press spindle. 2,901,258, 8-25-59, Cl. 279-97.
- Brandau, Frederick L.: *See*—
- Matter, Theodore S., Bates, and Brandau. 2,888,363.
- McMaster, James E., Nash, Decker, and Brandau. 2,878,547.
- Branden, Leif: *See*—
- Myrgren, Bengt V., and Branden. 2,913,715.
- Brandes, Hermann, and K. Andresen, to Hackethal Draft-und Kabel Werke A.G. Coaxial cables. 2,890,263, 6-9-59, Cl. 174-29.
- Brandes, Roy H., and F. E. Conn, to General Motors Corp. Propeller control system. 2,918,129, 12-22-59, Cl. 170-160.21.
- Brandi, Otto H. Additional air supply for radiators. 2,873,097, 2-10-59, Cl. 257-137.
- Brandi, Otto H. Radiators. 2,918,262, 12-22-59, Cl. 257-137.
- Brandl, Wilhelm. Appliance for preparing hot beverages. 2,869,451, 1-20-59, Cl. 99-302.
- Brandl, Willy. Appliance for roasting coffee beans. 2,874,483, 2-24-59, Cl. 34-46.
- Brandner, John D.: *See*—
- Baer, Byron N., Brandner, and Le Maistre. 2,875,078.
- Baer, Byron N., Brandner, and Le Maistre. 2,876,124.
- Brandner, John D., and R. H. Hunter, to Atlas Powder Co. Polyvinyl acetate adhesive compositions containing a polyethylene glycol monoether of a monohydric phenol. 2,889,297, 6-2-59, Cl. 260-29.6.
- Brandon, Chester, to Librascope, Inc. Derotation prism. 2,896,498, 7-28-59, Cl. 88-1.
- Brandon, David B.: *See*—
- Davis, Horace R., and Brandon. 2,880,255.
- Brandon, Evelyn D.: *See*—
- De Selms, Jesse E. 2,900,811.
- Brandon, Percy S.: *See*—
- Wright, Peter M., and Brandon. 2,897,442.
- Brandon, Percy S., and P. M. Wright, to Marconi's Wireless Telegraph Co. Ltd. Phase shift devices. 2,888,651, 5-26-59, Cl. 333-31.
- Brandon, Percy S., and P. M. Wright, to Marconi's Wireless Telegraph Co. Ltd. Moving target radar system. 2,913,717, 11-17-59, Cl. 343-7.7.
- Brandon, Thomas O., to A. G. Spalding & Bros., Inc. Golf ball. 2,882,058, 4-14-59, Cl. 273-230.
- Brandstrom, Arne E., to Aktiebolaget Pharmacia. Manufacture of barbituric compounds. 2,868,790, 1-13-59, Cl. 260-257.
- Brandstrom, Arne E., to Aktiebolaget Pharmacia. 5-neopentyl 5-allyl barbituric acid and salts thereof. 2,899,435, 8-11-59, Cl. 260-257.
- Brandt, Armand, to Akt. Brown, Boveri & Cie. Heavy current contact converter systems. 2,869,005, 1-13-59, Cl. 307-147.
- Brandt, Armand, to Aktiengesellschaft Brown, Boveri & Cie. Arc-back prevention circuit. 2,873,419, 2-10-59, Cl. 321-48.
- Brandt, Armand, to Aktiengesellschaft Brown, Boveri & Cie. Arrangement for preventing backfire in electrical rectifiers. 2,903,637, 9-8-59, Cl. 321-12.
- Brandt Automatic Cashier Co.: *See*—
- Blanchette, Albert G., and Ristvedt. 2,906,276.
- Buchholz, Arnold R. 2,888,124.
- Buchholz, Arnold R., and Haban. 2,893,406.
- Brandt, Carl E., and D. K. Warsaw. Cutting machine. 2,878,868, 3-24-59, Cl. 164-35.
- Brandt, Carl T., to Phillips Petroleum Co. Underground storage of liquids. 2,879,646, 3-31-59, Cl. 61-5.
- Brandt, Carl T., to Phillips Petroleum Co. Underground storage system. 2,893,211, 7-7-59, Cl. 61-5.
- Brandt, Edgar W., to Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen Energa. Hollow charge projectile. 2,910,000, 10-27-59, Cl. 102-56.
- Brandt, Fred H., to Prestressing, Inc. Post-tensioned anchor device. 2,867,884, 1-13-59, Cl. 25-1.
- Brandt, Harry, to California Research Corp. Seismic cable lifting apparatus. 2,871,665, 2-3-59, Cl. 61-72.
- Brandt, Harry, to California Research Corp. Raising and lowering apparatus. 2,900,795, 8-25-59, Cl. 61-72.
- Brandt, Heinrich: *See*—
- Arnold, Carl, and Brandt. 2,890,468.
- Brandt, Kurt. Device for the adjustment of decorative stitch stencil in automatic zig-zag sewing machines. 2,900,837, 8-25-59, Cl. 74-568.
- Brandt, Paul H. Air dryer construction and method of operation. 2,867,988, 1-13-59, Cl. 62-93.
- Brandt, Raymond W., to International Telephone and Telegraph Corp. Clipper circuit. 2,896,077, 7-21-59, Cl. 250-27.
- Brandt, Rezon N.: *See*—
- Squire, Herbert D., and Brandt. 2,868,578.
- Brandt, Vernon J. Releasable lift attachment for tractors. 2,883,080, 4-21-59, Cl. 214-674.
- Brandt, Vernon J. Retractable support for operating controls. 2,883,081, 4-21-59, Cl. 214-674.
- Brandt, Walter: *See*—
- Carlstedt, Ragnar L., and Brandt. 2,876,662.
- Brangaitis, Anthony V. Emergency eye wash. 2,910,064, 10-27-59, Cl. 128-249.
- Branham, Martin. Block manufacturing machine. 2,870,512, 1-27-59, Cl. 25-1.
- Branich Mfg. Co., Inc.: *See*—
- Kaenan, Joseph P. 2,919,105.
- Branick, Charles E. Curing and testing rim for pneumatic tire casings. 2,871,518, 2-3-59, Cl. 18-45.
- Branick, Charles E. Device for inspecting pneumatic tires. 2,895,711, 7-21-59, Cl. 254-50.3.
- Branick, Charles E. Device for detecting ply separation in pneumatic tire casings. 2,909,060, 10-20-59, Cl. 73-146.
- Branker, Hoffman E., to Republic Aviation Corp. Pulse generator. 2,895,080, 7-14-59, Cl. 315-205.
- Brannan, Jack C., to General Electric Co. Motor control system. 2,875,391, 2-24-59, Cl. 318-293.
- Brannan, Jack C., to General Electric Co. Servo control system. 2,907,936, 10-6-59, Cl. 318-28.



- Brannock, Kent C., to Eastman Kodak Co. Cyclic diol diester lubricants. 2,912,447, 11-10-59, Cl. 260-410.
- Brannock, Kent C., to Eastman Kodak Co. Bis-2-methyl-2-norcamphanemethanol alkane-dioates as synthetic ester lubricants. 2,912,458, 11-10-59, Cl. 260-485.
- Brannock, Mack C., to Fieldcrest Mills, Inc. Needle motion for looms. 2,890,725, 6-16-59, Cl. 139-123.
- Brannon, Hezzie R., Jr., and J. A. Rickard, to Jersey Production Research Co. Gamma ray scintillometer. 2,911,534, 11-3-59, Cl. 250-71.
- Branscomb, Charles E., to International Business Machines Corp. Clutch mechanism. 2,915,161, 12-1-59, Cl. 192-149.
- Branson, Charles D.: See—  
Weber, Victor, Branson, and Genbauffe. 2,909,324.
- Branson, Charles D., to Robertshaw-Fulton Controls Co. Thermostatically controlled mixing valves. 2,901,174, 8-25-59, Cl. 236-12.
- Branson, Charles D., to Robertshaw-Fulton Controls Co. Thermostatic devices. 2,917,925, 12-22-59, Cl. 73-368.3.
- Branson, David E.: See—  
Bacon, Walter M., Branson, Knandel, and Locke. 2,871,286.
- Branson Instruments, Inc.: See—  
Branson, Norman G. 2,891,176.  
Harris, Robert V. 2,875,354.
- Branson, Lester L.: See—  
Branson, Raymond J. 2,911,994.
- Branson, Norman G., to Branson Instruments, Inc. Compressional wave generating apparatus. 2,891,176, 6-16-59, Cl. 310-8.1.
- Branson, Raymond J., deceased (by S. E. Branson, administratrix),  $\frac{1}{3}$  to S. E. Branson, individually,  $\frac{1}{3}$  to R. K. Branson, and  $\frac{1}{3}$  to L. L. Branson. Automatic dump valve. 2,911,994, 11-10-59, Cl. 137-270.
- Branson, Raymond K.: See—  
Branson, Raymond J. 2,911,994.
- Branson, Sadie E.: See—  
Branson, Raymond J. 2,911,994.
- Branson, Stanley C. Anti-skid ice tire chain. 2,911,027, 11-3-59, Cl. 152-239.
- Branstrom, George E. Heating devices. 2,908,795, 10-13-59, Cl. 219-34.
- Brant, Arthur A.: See—  
Ruddock, Kenneth A., and Brant. 2,887,650.
- Brant, Arthur A., and A. W. Love, to Newmont Mining Corp. Electromagnetic method of geophysical exploration. 2,874,348, 2-17-59, Cl. 324-6.
- Brant, Archie G.,  $\frac{1}{4}$  to J. F. Babb,  $\frac{1}{4}$  to E. G. Babb, Jr., and  $\frac{1}{4}$  to R. E. Clayton. Gravity actuated whirling ring toy. 2,877,597, 3-17-59, Cl. 46-47.
- Brant, Robert J. Apparatus for cleaning and repairing pipe lines. 2,908,248, 10-13-59, Cl. 118-408.
- Brantley, John C., to Union Carbide Corp. Organo-chromium compounds. 2,870,183, 1-20-59, Cl. 260-438.
- Brantley, John C., and E. L. Morehouse, to Union Carbide Corp. Organo-vanadium halides and process of preparation. 2,882,288, 4-14-59, Cl. 260-429.
- Bras, Johannes, to N.V. Fabriek Van Chemische Producten. New fungicides and process for their preparation. 2,883,318, 4-21-59, Cl. 167-22.
- Brasch, Edgar W., Jr., to Phillips Petroleum Co. Recycle apparatus for carbon black pellet mills. 2,876,490, 3-10-59, Cl. 18-1.
- Brasco Mfg. Co.: See—  
Shrode, Wilford E. 2,882,561.
- Brase, George. Wrench for removing headless threaded pipe nipples. 2,906,152, 9-29-59, Cl. 81-53.
- Brashear, Turner G., Jr., to The American Brake Shoe Co. Welding apparatus. 2,868,955, 1-13-59, Cl. 219-130.
- Brasher, James H. Attachment for flush tanks. 2,879,521, 3-31-59, Cl. 4-56.
- Braski, Raymond J.: See—  
Malz, Nickolas, and Braski. 2,897,862.
- Braski, Raymond J., to Dormeyer Corp. Food mixer timer. 2,895,547, 7-21-59, Cl. 161-1.
- Brassel, Jakob, and A. Buehler, to Ciba Ltd. Metalliferous azo dyestuffs. 2,906,746, 9-29-59, Cl. 260-145.
- Brasser, Carl J.: See—  
Tuttle, Clifton M., Brown, and Brasser. 2,880,325.
- Brasseur, Eudore, to Societe Anonyme Ateliers de Constructions Electriques de Charleroi. Sound recording and reproducing devices. 2,901,550, 8-25-59, Cl. 179-100.2.
- Brasseur, Eudore D., to Ateliers de Constructions Electriques de Charleroi. Sound recording and reproducing apparatus. 2,869,876, 1-20-59, Cl. 274-10.
- Brassfield, Henry C., and C. T. Durham, Jr., to United States of America, Atomic Energy Commission. Method of fabricating small spherical pellets. 2,872,719, 2-10-59, Cl. 25-156.
- Braxington, Samuel M., and V. N. Smith, to Shell Development Co. Synchronous chopper for radiant energy. 2,875,342, 2-24-59, Cl. 250-233.
- Brasty, Joseph. Spring for windshield wiper arms. 2,885,710, 5-12-59, Cl. 15-255.
- Brater, Donald C.: See—  
Smiley, Seymour H., Brater, and Nimmo. 2,907,629.
- Bratt, Harry T.: See—  
Stoddard, Robert J., Brown, and Bratt. 2,902,177.
- Bratt, Lars C.: See—  
Arnold, Chester L., and Bratt. 2,917,462.
- Brattain, Walter H., and C. G. B. Garrett, to Bell Telephone Laboratories, Inc. Semiconductor devices. 2,870,344, 1-20-59, Cl. 307-88.5.
- Bratton, Alfred I., to Oxy-Catalyst, Inc. Room air heater and purifier. 2,873,071, 2-10-59, Cl. 237-2.
- Bratrud, Robert L. Seat construction. 2,878,860, 3-24-59, Cl. 155-178.
- Bratz, Otto J., to American Chain & Cable Co., Inc. Conduit and fitting assemblies. 2,869,905, 1-20-59, Cl. 287-78.
- Bratzler, Carl: See—  
Herbert, Wilhelm Bratzler, Dorschner, Eisenlohr, and Gross. 2,901,423.
- Brauburger, Robert A., to Chrysler Corp. Fastening device. 2,893,087, 7-7-59, Cl. 24-73.
- Brauer, Gerald: See—  
Ayres, Jay J., Cohen, and Brauer. 2,914,739.
- Brauer, Walter. Apparatus for forming stressed panels and having guide bars for initially bending undulations in sheet material before forming a channel from each undulation. 2,907,369, 10-6-59, Cl. 153-77.
- Brauer, Walter J.: See—  
Merchant, Charles J. 2,897,712.
- Brauer, William F., to Western Electric Co., Inc. Device for applying retaining members onto articles. 2,876,531, 3-10-59, Cl. 29-229.
- Braukly, Damazas. Earth working machine. 2,869,257, 1-20-59, Cl. 37-145.
- Braut, Andre R., and R. Lindberg, to OPTOmechanisms, Inc. Simulated radioactive radiation meter. 2,900,740, 8-25-59, Cl. 35-1.
- Braut, Robert G.: See—  
Harwood, James, Braut, and Reck. 2,900,411.
- Braumann, Gundokar, to Siemens & Halske Akt. Electro-magnetic relays. 2,888,532, 5-26-59, Cl. 200-87.
- Braun, Alfred: See—  
Braun, Frederick W. and A. 2,890,778.  
Braun, Frederick W. and A. 2,903,721.  
Braun, Frederick W. and A. 2,904,173.
- Braun, Alfred E., and T. C. English, to The Wooster Sealnote Co. Method and apparatus for liquid application. 2,874,677, 2-24-59, Cl. 118-305.
- Braun, Anton: See—  
Colborne, William G., and Braun. 2,914,955.
- Braun, Artur, and B. Futterer, to M. Braun. Shearing head for dry shaver employing flexible shear plate and reciprocating cutter. 2,908,970, 10-20-59, Cl. 30-41.
- Braun, C. F., & Co.: See—  
Pickford, Allan E. 2,900,173.
- Braun, Clarence J.: See—  
Passafaro, Anthony L., Braun, and Powers. 2,876,598.
- Braun, Dieter: See—  
Hacker, Kurt, and Braun. 2,873,601.
- Braun, Edigna, to K. G. Reischl & Co., Metallwarenfabrik. Atomizers. 2,908,422, 10-13-59, Cl. 222-190.
- Braun, Emil, to Carl Freudenberg, Kommanditgesellschaft auf Aktien. Apparatus for the manufacture of thin artificial edible sausage casings. 2,896,254, 7-28-59, Cl. 18-14.
- Braun, Francois. Leg-rest for a seat. 2,918,964, 12-29-59, Cl. 155-171.
- Braun, Fred H., and R. O. Brownson, to Steri-Washer Corp. Washer and sterilizer. 2,889,837, 6-9-59, Cl. 134-140.
- Braun, Frederick W. and A. Safety mechanism for automatic machines. 2,890,778, 6-16-59, Cl. 192-125.
- Braun, Frederick W. and A. Apparatus having spring urged die forging members for making extruded hollow articles of external polygonal form. 2,903,721, 9-15-59, Cl. 10-76.
- Braun, Frederick W. and A. Plunger and die for indirect extrusion. 2,904,173, 9-15-59, Cl. 207-6.
- Braun, Georg, to Kohlencheidungs-Gesellschaft m.b.H. Process for operating a tubular heat exchanger fired with pulverized coal. 2,899,942, 8-18-59, Cl. 122-479.
- Braun-Goll Co.: See—  
Goll, Ernest R. 2,886,203.
- Braun, Heinrich: See—  
Elöd, Egon, Dörr, Braun, Elian, and Lepingle. 2,918,455.
- Braun, Herman J.: See—  
Barrows, Robert C., and Braun. 2,897,383.
- Braun, J. P.: See—  
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- Braun, Louis G. Fishing rod holder and bite signal. 2,909,860, 10-27-59, Cl. 43-17.
- Braun, Max: See—  
Braun, Artur, and Futterer. 2,908,970.  
Scholzel, Karl. 2,919,207.
- Braun, Oskar, R. Dohner, and K. Winz, to G. M. Pfaff, A.G. Electrical control system for sewing and the like machines. 2,910,028, 10-27-59, Cl. 112-219.
- Braun, Otto P. Hot water storage tank. 2,893,589, 7-7-59, Cl. 220-5.
- Braun, Ottwin L., to Reliance Steel Products Co. Furnace door frame construction. 2,915,026, 12-1-59, Cl. 110-172.
- Braun, Paul E., to Ford Motor Co. Fuel injection system. 2,872,912, 2-10-59, Cl. 123-139.
- Braun, Philip N.: See—  
Filsinger, Jamieson A., and Braun. 2,895,388.  
Filsinger, Jamieson A., and Braun. 2,914,208.
- Braun, Philip N. Machine for stapling identifying tags to garments. 2,877,695, 3-17-59, Cl. 93-88.
- Braun, Philip N. Laundry marking machine. 2,887,314, 5-19-59, Cl. 271-25.



- Braun, Ralph A., to The W. B. W. Tool Co. Apparatus for forming tubular sleeves. 2,889,866, 6-9-59, Cl. 153-49.
- Braun, Ralph K., to Cleveland Electrical Equipment Co., Inc. Armature winding head for armature winding machines. 2,883,119, 4-21-59, Cl. 242-13.
- Braun, Robert A.: See—
- Mosher, William A., and Braun. 2,883,423.
- Braun, Robert K.: See—
- Wise, Harry L., and Braun. 2,890,708.
- Braun, W., Co.: See—
- Lerner, Nathan B. 2,905,351.
- Braun, Walter W., to National Lead Co. Process for inactivating urushiol on skin with cerium compounds. 2,885,323, 5-5-59, Cl. 167-58.
- Braun, William. Display for jewelry. 2,919,023, 12-29-59, Cl. 206-75.
- Braun, William H., Jr., to Western Sealant Development Corp. Wood impregnating and coloring process. 2,867,543, 1-6-59, Cl. 117-16.
- Braun, Willy, O. Trauth, and E. Von Gross, to Badische Anilin- & Soda-Fabrik Akt. Dyeing synthetic fibres with thioxanthones. 2,884,300, 4-28-59, Cl. 8-55.
- Braun, Willy, and W. Ruppel, to Badische Anilin- & Soda-Fabrik Akt. New vat dyestuffs of the anthraquinone series. 2,905,691, 9-22-59, Cl. 260-307.5.
- Braund, John J. Combined geographical globe and antenna structure. 2,872,678, 2-3-59, Cl. 343-720.
- Braund, John J. Loudspeaker apparatus. 2,915,134, 12-1-59, Cl. 181-31.
- Braund, Robert W.: See—
- Kerecman, Michael, and Braund. 2,909,272.
- Brauneck, Charles F., to Murray Mfg. Corp. Electromagnetic switch. 2,897,316, 7-28-59, Cl. 200-104.
- Brauneck, Charles F., to Murray Mfg. Corp. Interlock contact mechanism. 2,918,554, 12-22-59, Cl. 200-166.
- Brauneck, Charles F., to Murray Mfg. Corp. Magnetic overload relay. 2,919,325, 12-29-59, Cl. 200-95.
- Braunlich, Richard H., to American Viscose Corp. Method of forming crimped artificial filaments. 2,894,802, 7-14-59, Cl. 18-54.
- Braunschweigische Maschinenbauanstalt: See—
- Busecrus, Hans K. 2,890,647.
- Braunstain, Jules A. Automatic addressing-machine. 2,898,850, 8-11-59, Cl. 101-134.5.
- Braunstein, Melvin A. Self contained breathing apparatus. 2,906,262, 9-29-59, Cl. 128-142.
- Braunwarth, John B., and G. W. Crosby, to The Pure Oil Co. Preparation of alkenyl esters of halogenated carboxylic acids. 2,875,240, 2-24-59, Cl. 260-487.
- Braunwarth, John B., and G. W. Crosby, to The Pure Oil Co. Acids and ketones prepared from peroxides and polyhalomethanes. 2,905,712, 9-22-59, Cl. 260-539.
- Brauss, Gustav J., to APAG, Apparatebau A.G. Reciprocating dry shaver having stationary first cutting head means and extensible second cutting head means. 2,917,824, 12-22-59, Cl. 30-34.
- Brautigam, Richard H., to Owens-Corning Fiberglas Corp. Apparatus for coating continuously produced filaments. 2,873,718, 2-17-59, Cl. 118-234.
- Brav, Milton, to Sue Ann Food Products Corp. Novelty package. 2,895,834, 7-21-59, Cl. 99-171.
- Bravenboer, Pieter, to North American Phillips Co., Inc. Thermostatic mounting structure for electron discharge device. 2,910,601, 10-27-59, Cl. 313-10.
- Braverman, Bernard: See—
- Wilson, Fred M., Sr. 2,893,374.
- Braverman, Edwin: See—
- Matton, Ernest E. 2,915,055.
- Bravos, George T., and J. W. Evans, to American Maize-Products Co. Oil well drilling mud. 2,900,335, 8-18-59, Cl. 252-8.5.
- Brawand, Franklin M. Draft hook. 2,889,167, 6-2-59, Cl. 294-82.
- Bray, Calvin S., to Davol Rubber Co. Process for the rotational casting of inflating bulbs. 2,888,714, 6-2-59, Cl. 18-58.3.
- Bray, Calvin S., to Davol Rubber Co. Pacifier. 2,888,929, 6-2-59, Cl. 128-360.
- Bray, Calvin S., to Davol Rubber Co. Nipple. 2,889,063, 6-2-59, Cl. 215-11.
- Bray, Frederick H., and R. G. Knight, to International Standard Electric Corp. Automatic telecommunication exchanges. 2,872,527, 2-3-59, Cl. 179-22.
- Bray, Frederick H., P. M. King, and J. Rice, to International Standard Electric Corp. Timing equipment. 2,899,500, 8-11-59, Cl. 179-7.
- Bray, Frederick H., and R. G. Knight, to International Standard Electric Corp. Electrical counting circuits. 2,906,888, 9-29-59, Cl. 307-88.5.
- Bray, Frederick H., and R. G. Knight, to International Standard Electric Corp. Electrical signaling systems. 2,911,475, 11-3-59, Cl. 179-15.
- Bray, Frederick H., P. M. King, and G. C. Hartley, to International Standard Electric Corp. Line identification in telecommunication systems. 2,913,530, 11-17-59, Cl. 179-18.
- Bray, Frederick H., and R. G. Knight, to International Standard Electric Corp. Electric signal repeaters. 2,914,615, 11-24-59, Cl. 179-16.
- Bray, Geddes A., to Grinnell Corp. Pendent sprinkler. 2,871,953, 2-3-59, Cl. 169-37.
- Bray, Horace A., and E. W. Peppitt, to Dunlop Rubber Co. Ltd. Friction material. 2,898,216, 8-4-59, Cl. 106-36.
- Bray, Murel B. Shoe boot shine aid. 2,888,705, 6-2-59, Cl. 15-267.
- Braz, Ralph, to Philco Corp. Signal seeking receiver. 2,880,311, 3-31-59, Cl. 250-20.
- Bray, Vernon H., Jr., to National Food Equipment Co. Inc. Pneumatic conveying system. 2,895,768, 7-21-59, Cl. 302-17.
- Brayack, Mark. Spot facing tool. 2,899,867, 8-18-59, Cl. 90-11.
- Brayman, Vernis A.: See—
- Collins, Tappan, Seim, and Brayman. 2,907,036.
- Brayshaw, Stanier E., to Syntro Co. Double current collector for dry disc rectifiers. 2,904,731, 9-15-59, Cl. 317-234.
- Brazik, Lewis R. Fasteners. 2,908,956, 10-20-59, Cl. 24-73.
- Brazit Associates: See—
- Watrous, Gilbert A. 2,868,189.
- Brazitis, William, and H. W. Keevil. Method and means for magnetizing rails in rail flaw detection systems. 2,882,489, 4-14-59, Cl. 324-37.
- Breadner, Robert L., and C. H. Simms, to The General Electric Co. Ltd. Method of and apparatus for manufacture of the glass envelope for a cathode ray tube. 2,886,920, 5-19-59, Cl. 49-7.
- Brearley Co., The: See—
- Provi, Mike A. 2,892,010.
- Provi, Mike A., and Mattson. 2,875,999.
- Brean, Wilfred. Speed changer for pulley drives. 2,888,830, 6-2-59, Cl. 74-242.15.
- Breazeale, John B., to Bill Jack Scientific Instrument Co. Integrating device. 2,907,990, 10-6-59, Cl. 340-178.
- Breazeale, John B., C. G. McIlwraith, and E. N. Dacus, to Bill Jack Scientific Instrument Co. Gravity meter. 2,907,211, 10-6-59, Cl. 73-382.
- Brechel, Frederick O. Concrete form construction. 2,887,756, 5-26-59, Cl. 25-118.
- Brechenmacher, Karlmann. Device for spraying and drying of paints, varnish or the like. 2,868,166, 1-13-59, Cl. 118-643.
- Brechlin, Adrian G. Boundary marker exposure tool. 2,896,729, 7-28-59, Cl. 172-19.
- Brecht, Karl: See—
- Boucke Heinz, and Brecht. 2,875,750.
- Breckheimer, Raymond J., to Air Filter Corp. Frame construction for filter units. 2,869,694, 1-20-59, Cl. 189-36.
- Brecknell Dolman & Rogers Ltd.: See—
- Dolman, Henry J., Hamilton, and Ball. 2,890,554.
- Bred-Ade Corp.: See—
- Glabe, Elmer F. 2,875,064.
- Bredall, Charles H. Antenna-detector coupling unit. 2,872,569, 2-3-59, Cl. 250-20.
- Bredchoff, Harold A., to Bell Telephone Laboratories, Inc. Sound output control for telephone ringers. 2,892,187, 6-23-59, Cl. 340-397.
- Bredtschneider, Kurt B., to Crane Co. Fluid seal for valves or the like. 2,880,620, 4-7-59, Cl. 74-18.2.
- Bredtschneider, Kurt B., and E. J. Hemzack, to Crane Co. Valve seat construction. 2,887,255, 5-19-59, Cl. 251-359.
- Bredtschneider, Kurt B., F. M. Onak, and M. H. Stuart, to Crane Co. Connector for the consumable electrode of an arc melting furnace. 2,899,667, 8-11-59, Cl. 339-9.
- Bredtz, Nikolaïs, to Lithium Corp. of America, Inc. Brazing alloys. 2,903,352, 9-8-59, Cl. 75-172.
- Bredtz, Nikolaïs, to Lithium Corp. of America, Inc. Brazing alloys. 2,903,353, 9-8-59, Cl. 75-172.
- Breeback, Rudolph H., to Crown Cork & Seal Co., Inc. Filling head for container filling machines. 2,880,762, 4-7-59, Cl. 141-48.
- Breeback, Rudolph H., to Crown Cork & Seal Co., Inc. Filling head and method of making same. 2,884,686, 5-5-59, Cl. 29-157.1.
- Breeback, Rudolph H., to Crown Cork & Seal Co. Filling head. 2,887,133, 5-19-59, Cl. 141-44.
- Breeback, Rudolph H., to Crown Cork & Seal Co., Inc. Filling system. 2,888,944, 6-2-59, Cl. 137-209.
- Breeback, Rudolph H., to Crown Cork & Seal Co., Inc. Filling system. 2,892,472, 6-30-59, Cl. 141-6.
- Breeden, Pearl L., to G. W. Jaynes. Water chlorinating apparatus. 2,912,938, 11-17-59, Cl. 103-153.
- Breeding, David C., and M. C. Bartz, to Bendix Aviation Corp. Control for fuel supply system. 2,884,915, 5-5-59, Cl. 123-119.
- Breelle, Yves L. G., to Institut Français du Pétrole, des Carburants et Lubrifiants. Rotary engines. 2,870,752, 1-27-59, Cl. 123-13.
- Breen, Alvin L., to E. I. du Pont de Nemours and Co. Bulky yarn. 2,869,967, 1-20-59, Cl. 57-140.
- Breen, Charles, to Bell Telephone Laboratories, Inc. Message-waiting signal for telephone subscribers. 2,884,491, 4-28-59, Cl. 179-84.
- Breen, Henry D., to Union Asbestos & Rubber Co. Air circulating means for railway cars. 2,881,688, 4-14-59, Cl. 98-6.
- Breer, Karl, and W. Weinbrenner, to Farbenfabriken Bayer Akt. Process and apparatus for the production of porous or homogeneous plastic semi-finished products or finished articles, more especially those based on polyurethanes. 2,885,268, 5-5-59, Cl. 23-252.



- Breese, Lemuel R., to North Electric Company. Supervisory control system. 2,901,728, 8-25-59, Cl. 340-163.
- Breeze Corporations, Inc.: *See*—  
Laky, Elmer, and Walsh. 2,908,853.  
November, Milton H. 2,876,801.
- Bregenzner, Kurt, to F. Kopp. Hydraulic feed control for profiling machines and the like. 2,897,651, 8-4-59, Cl. 60-97.
- Bregi, Benjamin F., to National Broach & Machine Co. Apparatus for rolling gears. 2,886,990, 5-19-59, Cl. 80-16.
- Bregi, Benjamin F., and F. J. Pohlmeier, to National Broach & Machine Co. Apparatus for cutting gear tooth surfaces. 2,882,798, 4-21-59, Cl. 90-1.6.
- Bregman, Jacob I., to National Aluminate Corp. Water insoluble phosphonic acid polymerizates of polyvinylaryl compounds. 2,911,378, 11-3-59, Cl. 260-2.2.
- Breguet, Antoine J. E. L.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Breguet, Claire J.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Breguet, Gilberte M. L.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Breguet, Jacqueline Y.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Breguet, Louis, deceased; C. J., A. J. E. L., J. Y., G. M. L., P. E. L., P. G. R. L., P. A. L., and L.-C. A. M. Breguet, under legal guardianship of C. J. Breguet, sole heirs. Aircraft having ducted turbine driven lift rotors. 2,899,149, 8-11-59, Cl. 244-12.
- Breguet, Louis, deceased; C. J., A. J. E. L., J. Y., G. M. L., P. E. L., P. G. R., P. A. L., and L. A. M. Bréguet, under legal guardianship of C. J. Breguet, sole heirs of L. Breguet. Manufacture of hollow rounded elements of prestressed concrete. 2,913,798, 11-24-59, Cl. 25-127.
- Breguet, Louis-Christian A. M.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Breguet, Pascal A. L.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Breguet, Paul G. R. L.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Breguet, Pierre E. L.: *See*—  
Breguet, Louis. 2,899,149.  
Breguet, Louis. 2,913,798.
- Brehm, Allen E.: *See*—  
Fields, Ellis K., and Brehm. 2,888,405.  
Fields, Ellis K., and Brehm. 2,901,335.  
Tom, Theodore B., and Brehm. 2,914,479.
- Brehm, Allen E., and A. W. Lindert, to Standard Oil Co. Aqueous antirust compositions. 2,880,095, 3-31-59, Cl. 106-14.
- Brehm, Allen E., M. Hamer, and L. D. La Croix, Jr., to Standard Oil Co. Motor fuel. 2,897,069, 7-28-59, Cl. 44-58.
- Brehm, Howard E., Jr., and A. F. Mitchell, to Hupp Corp. Adapter for inside installation of air conditioners of the window mounted type. 2,871,778, 2-3-59, Cl. 98-94.
- Brehm, Warren J.: *See*—  
Anderson, Arthur W., and Brehm. 2,894,025.
- Brehm, Warren J., K. G. Bremer, H. S. Eleuterio, and R. W. Meschke, to E. I. du Pont de Nemours and Co. Internally unsaturated perfluoroolefins and preparation thereof. 2,918,501, 12-22-59, Cl. 260-653.3.
- Breier, Irwin L.: *See*—  
Cheney, Harry A., and Breier. 2,879,300.
- Breier, Irwin L., to Shell Development Co. Reactor with concentric annular passages. 2,897,063, 7-28-59, Cl. 23-284.
- Breier, Irwin L., and G. M. Coppinger, to Shell Development Co. Stabilization of unsaturated aldehydes. 2,874,100, 2-17-59, Cl. 202-57.
- Breiz, Kurt: *See*—  
Bienert, Berthold, Breiz, and Groll. 2,873,280.
- Breiner, Alfred W., to S. C. Johnson & Son, Inc. Aryloxy acid urethane and method of preparing same. 2,890,181, 6-9-59, Cl. 260-2.5.
- Breiner, Alfred W., to S. C. Johnson & Son, Inc. Modified aryloxy acid urethane. 2,890,198, 6-9-59, Cl. 260-45.4.
- Breininger, Jerry: *See*—  
Ernst, William B., and J. and P. Breininger. 2,882,857.
- Breininger, Paul: *See*—  
Ernst, William B., and J. and P. Breininger. 2,882,857.
- Breisch, Edgar W., to Westinghouse Air Brake Co. Cable clamps. 2,912,199, 11-10-59, Cl. 248-74.
- Breisch, John H., and J. R. Humphrey, to Turbo Industries, Inc. Contour milling machine. 2,916,972, 12-15-59, Cl. 90-13.7.
- Breit, Warren E.: *See*—  
Hodgson, Cecil L., and Breit. 2,893,270.
- Breitenstein, Charles T., to R. T. Moloney, deceased, American National Bank and Trust Co., executor. Metering pump for liquid gas fuel. 2,881,810, 4-14-59, Cl. 141-353.
- Breitenstein, Charles T., to R. T. Moloney, American National Bank and Trust Co. of Chicago, executor of said Moloney, deceased. Gang switch. 2,896,047, 7-21-59, Cl. 200-104.
- Breithaupt, Donald E. Attachment for a fishing rod reel. 2,869,277, 1-20-59, Cl. 43-26.
- Breiting, Wilhelm, H. Hess, and H. Kamp. Carriage return control apparatus for electrically operated business machines. 2,892,528, 6-30-59, Cl. 197-66.
- Brekke, John E.: *See*—  
Watters, Glenn G., and Brekke. 2,909,435.
- Brell, Jules J. Excavating apparatus. 2,872,157, 2-3-59, Cl. 255-4.
- Brell, Jules J. Excavating apparatus. 2,906,501, 9-29-59, Cl. 255-2.
- Brell, Jules J. Earth-boring apparatus. 2,906,503, 9-29-59, Cl. 255-20.
- Brelsford, Harlin A.: *See*—  
Leidy, Harold W., Brelsford, and Schnapf. 2,902,597.
- Brem, Jack W. Continuous servicing plant for automobiles or the like. 2,872,709, 2-10-59, Cl. 20-8.
- Bremer, Allen R., and J. W. Hull, to Boeing Airplane Co. High pressure high temperature metal seals. 2,913,269, 11-17-59, Cl. 288-14.
- Bremer, Frederick J.: *See*—  
Smith, Charles N., and Bremer. 2,881,612.
- Bremer, Joseph W., Jr., to Swift & Co. Hydrogenation of fat. 2,875,220, 2-24-59, Cl. 260-409.
- Bremer, Keith G.: *See*—  
Brehm, Warren J., Bremer, Eleuterio, and Meschke. 2,918,501.
- Bremer, Robert D., to General Motors Corp. Sheathed tubular electrical heater seal. 2,888,656, 5-26-59, Cl. 338-261.
- Bremer, Robert D., to General Motors Corp. Sheathed tubular electrical heater. 2,897,467, 7-28-59, Cl. 338-239.
- Bremer, Robert D., and J. R. Simon, to General Motors Corp. Domestic appliance. 2,910,570, 10-27-59, Cl. 219-37.
- Bremerman, Eugene S. Electrolytic stabilization apparatus for water systems. 2,893,938, 7-7-59, Cl. 20-196.
- Bremner, David F., Jr. Feeding mechanism for crackers or the like. 2,876,929, 3-10-59, Cl. 221-207.
- Brendel, Robert R.: *See*—  
Beiler, Jay M., Brendel, and Martin. 2,872,374.  
Mieucci, Dominic D., Avakian, Brendel, and Martin. 2,874,160.  
Mieucci, Dominic D., Avakian, Brendel, and Martin. 2,874,188.  
Mieucci, Dominic D., Avakian, Brendel, and Martin. 2,874,189.
- Brendel, Robert R., J. M. Beiler, and G. J. Martin, to The National Drug Co. Antihypertensive compositions comprising 2-methyl-5,8-dimethoxychromone and acetamides. 2,910,403, 10-27-59, Cl. 167-65.
- Brenden, Orval. Sag gauge. 2,878,568, 3-24-59, Cl. 33-46.
- Breugman, Fred C., to The Athens Flooring Co. Window construction. 2,888,719, 6-2-59, Cl. 20-52.2.
- Brenholts, Ellwood R.: *See*—  
Bond, Ralph W., and Brenholts. 2,909,231.
- Brenk, Robert C., F. G. Cizek, and R. E. Dorenbos, to American Steel Foundries. Treating the ends of elongated workpieces. 2,902,139, 9-1-59, Cl. 198-19.
- Brennan, Andrew. Adhesive devices. 2,914,873, 12-1-59, Cl. 40-125.
- Brennan, Daniel H., to General Electric Co. Rug tool having a turbine-driven rug brush. 2,904,817, 9-22-59, Cl. 15-375.
- Brennan, Daniel H., and J. P. Hunter, to General Electric Co. Sectional handle for electric floor machine. 2,892,203, 6-30-59, Cl. 15-143.
- Brennan, Edward L., B. J. Quinn, R. S. Sellers, and G. C. Wagner, to Chas. Pfizer & Co., Inc. Surface hydrated citric acid crystals. 2,899,467, 8-11-59, Cl. 260-535.
- Brennan, Elmer W.: *See*—  
Bowden, John N., and Brennan. 2,885,362.
- Brennan, Elmer W., and J. N. Bowden, to The Pure Oil Co. Needle oil. 2,882,231, 4-14-59, Cl. 252-37.5.
- Brennan, Francis J., and K. H. Christensen. Pneumatic drill supporting and feeding apparatus. 2,886,290, 5-12-59, Cl. 255-45.
- Brennan, Francis P. Automatically interlocking joint between a bar and a plate. 2,867,459, 1-6-59, Cl. 287-20.
- Brennan, Frederick S., F. H. Hudson, and R. J. Considine, to Ray-O-Lite Corp. of America. Hinger awning structure. 2,867,273, 1-6-59, Cl. 160-58.
- Brennan, Harry M., H. S. Seelig, and R. W. Vander Haar, to Standard Oil Co. Alumina aggregates of improved crushing strength. 2,892,799, 6-30-59, Cl. 252-442.
- Brennan, Harry M., H. S. Seelig, and R. W. Vander Haar, to Standard Oil Co. Reactivation of platinum catalysts. 2,906,702, 9-29-59, Cl. 208-140.
- Brennan, Harry M., R. W. Vander Haar, and H. S. Seelig, to Standard Oil Co. Reactivation of platinum catalysts. 2,910,429, 10-27-59, Cl. 208-140.
- Brennan, Helen E.: *See*—  
Brennan, Joseph B. 2,868,702.  
Brennan, Joseph B. 2,870,689.  
Brennan, Joseph B. 2,882,570.  
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Brennan, Joseph B. and H. E. 2,873,491.  
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- Brennan, James A., and C. C. Price, to Socony Mobil Oil Co., Inc. Anti-knock gasoline containing hydrogenated quinolines and indoles. 2,881,061, 4-7-59, Cl. 44-63.
- Brennan, Joseph B., deceased; H. E. Brennan, executrix. Method of forming a dielectric oxide film on a metal strip. 2,868,702, 1-13-59, Cl. 204-28.



- Brennan, Joseph B., deceased; H. E. Brennan, executrix. Method of producing strip material. 2,870,689, 1-27-59, Cl. 92-41.
- Brennan, Joseph B. Metal-coated batt and method and apparatus for producing same. 2,873,219, 2-10-59, Cl. 117-227.
- Brennan, Joseph B., deceased; H. E. Brennan, executrix of said Brennan. Apparatus for casting metallic articles. 2,873,491, 2-17-59, Cl. 22-57.2.
- Brennan, Joseph B., deceased; H. E. Brennan, executrix. Method and apparatus for casting. 2,878,537, 3-24-59, Cl. 22-57.2.
- Brennan, Joseph B., deceased; H. E. Brennan, executrix. Continuous vacuum casting. 2,882,570, 4-21-59, Cl. 22-200.
- Brennan, Joseph B., deceased; H. E. Brennan, executrix of the estate of said J. B. Brennan. Casting of refractory metals. 2,903,759, 9-15-59, Cl. 22-73.
- Brennan, Joseph B. Method of producing strip materials. 2,903,787, 9-15-59, Cl. 29-419.
- Brennan, Joseph B. Continuous casting and refining of material. 2,912,321, 11-10-59, Cl. 75-63.
- Brennan, Joseph B., deceased (H. E. Brennan, executrix of the estate of said J. B. Brennan). Method for casting group IV metals. 2,912,731, 11-17-59, Cl. 22-212.
- Brennan, Joseph B. Electrolytic condensers. 2,917,683, 12-15-59, Cl. 317-230.
- Brennan, Joseph E., to Union Carbide Corp. Method of making submerged melt welding composition. 2,892,746, 6-30-59, Cl. 148-26.
- Brennan, Joseph H., to Union Carbide Corp. Synthetic chromium ore agglomerate for use in the production of ferrochromium alloys. 2,915,378, 12-1-59, Cl. 75-5.
- Brennan, Martin J., to J. S. Costello & Son Brush Co. Brush. 2,878,501, 3-24-59, Cl. 15-164.
- Brennecke, William A., to Westinghouse Electric Corp. Valve for sealex. 2,877,811, 3-17-59, Cl. 141-65.
- Brenneke, Arthur M., to Perfect Circle Corp. Piston ring assembly. 2,871,071, 1-27-59, Cl. 309-30.
- Brenneke, Arthur M., to Perfect Circle Corp. Valve stem seal. 2,878,799, 3-24-59, Cl. 123-188.
- Brenneke, Arthur M., to Perfect Circle Corp. Piston ring assembly. 2,893,797, 7-7-59, Cl. 309-44.
- Brennemann, Andrew E.: See—  
Logue, Joseph C., and Brennemann. 2,884,557.
- Brennen, Ronald F., and J. A. Bucci, to Welding Industry Research & Patent Corp. Transformer with magnetic shunt control. 2,907,945, 10-6-59, Cl. 323-60.
- Brennen, Ronald F., and J. A. Bucci, to Welding Industry Research & Patent Corp. Welding transformers. 2,910,660, 10-27-59, Cl. 336-120.
- Brennen, Ronald F., and J. A. Bucci, to Welding Industry Research & Patent Corp. Annular core support for toroidal winding machines. 2,914,260, 11-24-59, Cl. 242-4.
- Brennen, Ronald F., and J. A. Bucci. Apparatus for feeding welding electrodes. 2,917,618, 12-15-59, Cl. 219-127.
- Brenner, Al. Awning window locking mechanism. 2,898,645, 8-11-59, Cl. 20-42.
- Brenner, Al. Awning window. 2,905,981, 9-29-59, Cl. 20-42.
- Brenner, Johannes: See—  
Zwicker, Ludwig, and Brenner. 2,915,706.
- Brenner, Joseph A. Combined foot valve and guard. 2,913,995, 11-24-59, Cl. 103-229.
- Brenner, Karl, and G. Gabriel, to Trumpf & Co. Adjustable mounting for slitting tool structures. 2,896,712, 7-28-59, Cl. 164-58.
- Brenner, Mortimer W., to Brewing Industries Research Institute. Art of stabilizing malt beverage. 2,878,125, 3-17-59, Cl. 99-48.
- Brenner, Mortimer W., and J. L. Owades, to Schwarz Laboratories, Inc. Stable dispersions of colloidal sulfur, processes of preparing same, and sulfur solutions adapted for use in preparing such dispersions. 2,884,352, 4-28-59, Cl. 117-20.
- Brenner, Theodore J.: See—  
Horrocks, Raymond G., Miller, and Brenner. 2,912,482.
- Brenner, Walter G.: See—  
Claas, August, Brenner, Roderfeld, and R. Claas. 2,888,088.
- Brepson, Roland, to Societe Chimiotex. Apparatus for the continuous treatment of artificial filaments. 2,894,386, 7-14-59, Cl. 68-205.
- Breton, Frederick R., to North American Aviation, Inc. Electrical connector. 2,892,173, 6-23-59, Cl. 339-94.
- Bresani, Joseph A. Silencing attachment for seamless knitting machine. 2,906,110, 9-29-59, Cl. 66-48.
- Brescka, Rudolph S., R. L. Moore, and H. W. Schaufelberger, to Western Electric Co., Inc. Apparatus for attaching leads to crystals. 2,894,112, 7-7-59, Cl. 219-85.
- Brese, Dick P., to Phillips Petroleum Co. Method and apparatus for production of aqua ammonia. 2,890,937, 6-16-59, Cl. 23-193.
- Breslaw, Herbert E. Changeable letter sign. 2,891,337, 6-23-59, Cl. 40-125.
- Breslaw, Joseph. Food spread utensil. 2,867,826, 1-13-59, Cl. 15-105.
- Breslow, Donald M.: See—  
Schesvold, Orland S., and Breslow. 2,913,045.
- Bressler, Wilbur L., and A. E. Gurgio, to The Dow Chemical Co. Process of producing polyolefin oxides with metallic sulfate catalysts. 2,917,470, 12-15-59, Cl. 260-2.
- Brest, Alexander: See—  
Cobb, Charles E. 2,909,440.
- Brest, Carl J. Method and apparatus for packing in a pre-stretched wrap of subsequently shrinkable material. 2,914,893, 12-1-59, Cl. 53-30.
- Bretford Mfg., Inc.: See—  
Petrick, Edward J. 2,912,202.
- Breton, Paul, to Societe Anonyme de la Papeterie de Chateaufort-La-Forêt. Supporting pallet as associated with a cardboard box. 2,902,199, 9-1-59, Cl. 229-14.
- Bretsch, Michael A., and R. F. Nostrant, to Champion Spark Plug Co. Spark plug. 2,891,187, 6-16-59, Cl. 313-136.
- Bretschler, Otto, to Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G. Slideway grinding machine. 2,869,288, 1-20-59, Cl. 51-3.
- Bretschler, Otto, to Gesellschaft der Ludw. von Roll'schen Eisenwerke AG. Grinding machine. 2,873,560, 2-17-59, Cl. 51-165.
- Brett, Herbert, to United States of America, Army. Cathode. 2,869,031, 1-13-59, Cl. 315-39.51.
- Bretthauer, Hermann: See—  
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- Bretz, Frank E., Jr., to Ajax Consolidated Co. Hand brake mechanism. 2,905,292, 9-22-59, Cl. 192-16.
- Bretz, Frank E., Jr., to Delta Dynamics, Inc. Valve mechanism for dispensing apparatus. 2,906,461, 9-29-59, Cl. 239-123.
- Breuer, William, to E. I. du Pont de Nemours and Co. Positive locking tube carton. 2,875,892, 3-3-59, Cl. 206-65.
- Breuing, Wilhelm, and R. Spolders, to Firma Ruhrstahl Akt. Method of deacidifying gases. 2,878,099, 3-17-59, Cl. 23-2.
- Breukelman, Christian W. Testing loose sand oil well formations. 2,897,897, 8-4-59, Cl. 166-186.
- Breukelman, Christian W. Squeeze cementing tools. 2,912,053, 11-10-59, Cl. 166-146.
- Breul, George B.: See—  
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- Breunig, Jack E., to General Foods Corp. Carton and handle structure. 2,915,236, 12-1-59, Cl. 229-52.
- Breuning, Ernst G., to Lufttechnischen Gesellschaft m. b. H. Measurement of very small electric potential changes. 2,872,642, 2-3-59, Cl. 324-111.
- Breuning, Frank C. Automatic map locating system. 2,891,325, 6-23-59, Cl. 35-40.
- Breus, Aaron Z. S. Auxiliary dental tray. 2,876,542, 3-10-59, Cl. 32-22.
- Brevl Products Corp.: See—  
Hirsch, George. 2,908,831.
- Brevets Aero-Mecaniques S. A.: See—  
Guerne, William. 2,871,788.  
Leutert, Walter. 2,880,565.  
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- Brevetti Gaggia S.r.l.: See—  
Gaggia, Giovanni A. 2,898,844.
- Brewer, Claire N., to International Typographical Union of North America. Electromechanical device and improved armature therefor. 2,894,181, 7-7-59, Cl. 317-165.
- Brewer, Frank H.: See—  
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- Brewer, George R., to Hughes Aircraft Co. Traveling-wave tube gain control. 2,869,022, 1-13-59, Cl. 315-3.6.
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- Brewer, George R., and S. Sensiper, to Hughes Aircraft Co. Traveling wave tube. 2,869,018, 1-13-59, Cl. 315-3.5.
- Brewer, Jess A.: See—  
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- Brewer, Leo: See—  
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- Brewer, Richard D., to Ford Motor Co. Fuel pump. 2,872,877, 2-10-59, Cl. 103-258.
- Brewer, Robert F., J. A. Hosford, and J. W. McGrath, to Western Electric Co., Inc. Automatic control for assembly machines. 2,896,313, 7-28-59, Cl. 29-203.
- Brewer-Titchener Corp., The: See—  
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Eves, John D., and Olands. 2,882,109.
- Brewer, Vernon S., Jr. Paint brush holder. 2,908,026, 10-13-59, Cl. 15-121.2.
- Brewer, William L., Jr.: See—  
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- Brewin, Glendon C. Inflatable tent. 2,875,771, 3-3-59, Cl. 135-1.
- Brewin, Grant H.: See—  
Brewin, Harry E. and G. H. 2,915,230.
- Brewin, Harry E. and G. H., to Dyotherm Corp. Textile treating apparatus. 2,915,230, 12-1-59, Cl. 223-76.
- Brewing Industries Research Institute: See—  
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- Brewington, Philip J. Plumber's work table. 2,883,184, 4-21-59, Cl. 269-104.



- Brewster, Arthur E., to International Standard Electric Corp. Magnetic recording device. 2,868,891, 1-13-59, Cl. 179-100.2.
- Brewster, Dudley N., to Sylvania Electric Products Inc. Microwave switching device. 2,900,568, 8-18-59, Cl. 315-39.
- Brey, Wilhelm, to The Firestone Tire & Rubber Co. Preparation of coated fabric material. 2,874,752, 2-24-59, Cl. 154-1.8.
- Breyer, Siegfried, to I-T-E Circuit Breaker Co. Compounded claw and disc type electromagnetic clutch. 2,912,088, 11-10-59, Cl. 192-53.
- Breyer, Rudolf T., to Union Carbide Corp. Metal arc welding. 2,908,800, 10-13-59, Cl. 219-74.
- Breznak, Edward: *See*—  
Harvey, Mortimer T., and Breznak. 2,872,431.
- Brezinski, Julius J.: *See*—  
Montagna, Amelio E., Kubler, and Brezinski. 2,876,239.
- Brian, Wallace B.: *See*—  
Black, James J., Brian, Frechie, Hummel, McIlhenny, Rahe, and Suman. 2,894,650.
- Brice, Donat B., to The Fluor Corp., Ltd. Shale oil recovery method and apparatus. 2,879,208, 3-24-59, Cl. 202-6.
- Brice, Emory A.: *See*—  
Schilling, Karl F., Powell, and Brice. 2,898,207.
- Brice, John R., and C. H. Dixon, to General Motors Corp. Engine accessory support means. 2,875,746, 3-3-59, Cl. 123-195.
- Bricker, Carl E., and J. W. Runner, to The Goodyear Tire & Rubber Co. Compound pressure booster. 2,916,884, 12-15-59, Cl. 60-54.6.
- Bricker, Robert E., W. P. Flohr, Jr., and K. M. Gebel, to Landis Tool Co. Automatic grinding cycle. 2,899,778, 8-18-59, Cl. 51-105.
- Brickett, Sherman P.: *See*—  
Hoffman, Herbert N., and Brickett. 2,867,999.
- Brickhouse, Abner A., Jr., to Trans-Arabian Pipe Line Co. Quick release coupling. 2,904,353, 9-15-59, Cl. 285-33.
- Brickman, A. W.: *See*—  
Niven, Charles F., Jr., Deibel, and Wilson. 2,907,661.
- Pirson, Ladislav J. 2,896,054.
- Brickman, Alan E., to United States Steel Corp. Apparatus for making formed wire. 2,911,865, 11-10-59, Cl. 80-30.
- Brickman, Alan E., to United States Steel Corp. Brake cable assembly. 2,912,878, 11-17-59, Cl. 74-50.2.
- Brietson, Casper A. Boot for the end portion of a dimmer switch plunger. 2,885,518, 5-5-59, Cl. 200-172.
- Bride, John E., C. L. Faust, and W. H. Safranek, to The Battelle Development Corp. Electroplating of copper alloys. 2,886,500, 5-12-59, Cl. 204-44.
- Bridge, John J.: *See*—  
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- Bridge, Richard B., T. E. Marshall, III, and W. A. Von Wald, Jr., to United States of America, Navy. Method of making a plastic encased article. 2,873,482, 2-17-59, Cl. 18-59.
- Bridgeport Brass Co.: *See*—  
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- Morton, Lester C., and King. 2,881,728.
- Bridgeport Hardware Mfg. Corp., The: *See*—  
Coyle, John H., Wilson, and Vargonesik. 2,871,899.
- Bridgeport Machines, Inc.: *See*—  
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- Bridgeport Metal Goods Mfg. Co., The: *See*—  
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- Bridges, Jack E., to Zenith Radio Corp. Encoding apparatus. 2,903,686, 9-8-59, Cl. 340-347.
- Bridges, Jack E., to Zenith Radio Corp. Subscription television. 2,913,518, 11-17-59, Cl. 178-5.1.
- Bridgewater, Thomas E.: *See*—  
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- Bridgman, Joseph M., and E. G. Schmidt, to PSC Applied Research Ltd. Film processor. 2,913,975, 11-24-59, Cl. 95-94.
- Bridwell, William H. Key retainer. 2,916,907, 12-15-59, Cl. 70-459.
- Bried, Henry F. Filters. 2,873,028, 2-10-59, Cl. 210-401.
- Bried, Julien A. Colon flushing apparatus. 2,874,696, 2-24-59, Cl. 128-227.
- Brien, Huron C., and D. D. Jones, to Kimberly-Clark Corp. Folding conveyor. 2,885,848, 5-12-59, Cl. 53-180.
- Brier, Hyman: *See*—  
Ballard, James W., and Brier. 2,893,434.
- Moorhead, Milton M., Jr., and Brier. 2,918,882.
- Brierley, Kenneth. Powder-compressing machines. 2,886,849, 5-19-59, Cl. 18-16.
- Briesch, La Verne P.: *See*—  
Myers, Kenneth H., Farmer, and Briesch. 2,911,238.
- Briesewitz, Kurt: *See*—  
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- Roos, Hans, Briesewitz, and Hegemann. 2,875,243.
- Brietze, Adrian P., to Northern Engraving & Mfg. Co. Method of making printed circuits. 2,874,085, 2-17-59, Cl. 154-94.
- Briganti, Joseph F.: *See*—  
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- Briggs, Charles D., to O. S. Walker Co., Inc. Magnetic chuck. 2,918,610, 12-22-59, Cl. 317-159.
- Briggs, Earl C., to Sharpe Mfg. Co. Paint spray gun. 2,880,940, 4-7-59, Cl. 239-413.
- Briggs, Ernest: *See*—  
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- Briggs, Eugene C., to American Machine & Foundry Co. Submersible dynamo electric machine. 2,883,566, 4-21-59, Cl. 310-87.
- Briggs, George G.: *See*—  
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- Briggs, George R.: *See*—  
Lo, Arthur W., Rajchman, and Briggs. 2,887,675.
- Rajchman, Jan A., and Briggs. 2,900,622.
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- Briggs, George R., to Radio Corp. of America. Magnetic systems. 2,886,501, 5-12-59, Cl. 340-174.
- Briggs, George R., and J. A. Rajchman, to Radio Corp. of America. Control circuits for luminous display devices. 2,897,405, 7-28-59, Cl. 315-250.
- Briggs, George R., and A. W. Lo, to Radio Corp. of America. Magnetic systems. 2,911,628, 11-3-59, Cl. 340-174.
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- Briggs, Huntly P., to General Controls Co. Proportioning drink-dispenser. 2,919,053, 12-29-59, Cl. 222-76.
- Briggs, John C.,  $\frac{1}{2}$  to S. Hirst. Insulating material. 2,896,135, 7-21-59, Cl. 317-234.
- Briggs, John J. Prosthetic appliance. 2,899,957, 8-18-59, Cl. 128-79.
- Briggs, John R.: *See*—  
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- Briggs, John R., and R. L. Zapp, to Esso Research and Engineering Co. Synthetic polymer compositions with improved physical properties from mixtures of rubbery polymers. 2,906,725, 9-29-59, Cl. 260-45.5.
- Briggs, Joseph A., to Radio Corp. of America. Art of forming surfaces of peculiar contours. 2,885,832, 5-12-59, Cl. 51-124.
- Briggs, Leslie J.: *See*—  
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- Briggs, Peter G., to The British Tabulating Machine Co. Ltd. Information storage apparatus. 2,892,185, 6-23-59, Cl. 340-174.
- Briggs, Raymond W., II: *See*—  
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- Briggs, Robert B.: *See*—  
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- Briggs, Roger L., to The Dow Chemical Co. Method of making compositions from vinyl aromatic resins and rubbery copolymers of styrene and butadiene. 2,882,258, 4-14-59, Cl. 260-45.5.
- Briggs, Ronald H.: *See*—  
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- Briggs, Rufus L.: *See*—  
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- Briggs & Stratton Corp.: *See*—  
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- Jacobi, Edward N. 2,879,659.
- Harkness, Joseph R. 2,871,280.
- Briggs, Thomas H.: *See*—  
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- Briggs, Vernon R., to Hughes Aircraft Co. Microsyn torque balance computer. 2,877,949, 3-17-59, Cl. 235-61.
- Briggs, Walter H., to Burman & Sons Ltd. Hydraulically operable road vehicle steering mechanisms. 2,891,515, 6-23-59, Cl. 121-41.
- Briggs, Walton E.: *See*—  
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- Briggs, Walton E., and J. A. Roberts, to General Electric Co. Vacuum leak detection. 2,897,437, 7-28-59, Cl. 324-33.
- Bright, Gordon S.: *See*—  
McKinley, John K., Nelson, and Bright. 2,894,970.
- Bright, Harold T.: *See*—  
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- Bright, James W., to Burroughs Mfg. Corp. Tumbler tray. 2,896,829, 7-28-59, Cl. 224-48.
- Bright, John, & Brothers Ltd.: *See*—  
Woods, Joseph, and Schofield. 2,897,647.
- Bright, Richard L., to Westinghouse Electric Corp. Transistor time delay circuit. 2,892,101, 6-23-59, Cl. 307-88.5.
- Bright, Richard L., and G. H. Royer, to Westinghouse Electric Corp. Transistor power control circuits. 2,885,570, 5-5-59, Cl. 307-88.5.
- Bright, Robert H.: *See*—  
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- Bright, Roy A.: *See*—  
Sterne, Willard F., and Bright. 2,914,770.
- Bright, Thomas J. R. Casting mold and method and apparatus for making the same. 2,887,745, 5-26-59, Cl. 22-196.
- Bright, Thomas J. R. Draught excluding strips and mounting means therefor. 2,898,648, 8-11-59, Cl. 20-69.
- Bright, Thomas J. R. Window seals. 2,913,783, 11-24-59, Cl. 20-69.
- Brightbill, Edgar N., and K. P. Lindland, to E. I. du Pont de Nemours and Co. Recovery process for polyethylene. 2,890,214, 6-9-59, Cl. 260-94.9.
- Brikowski, Harold J.: *See*—  
McCarty, Horace G., and Brikowski. 2,910,816.
- Brill, Adelaide E.: *See*—  
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- Brill, Fritz, and K. Raab, to Rheinstahl Siegener Eisenbahnbedarf Akt. Rail vehicle with low platform. 2,881,713, 4-14-59, Cl. 10-1-4.
- Brill, John E., deceased, by A. E. Brill, administratrix. Threadless plastic nut having stepped bore sections. 2,908,309, 10-13-59, Cl. 151-7.
- Brill, Rudolf F., to Phillips Petroleum Co. Catalytic conversion with the addition of a metal or metallic compound. 2,901,419, 8-25-59, Cl. 208-119.
- Brill, William E., to General Motors Corp. Slip ring and brush holder construction for electrodynamic machinery. 2,872,606, 2-3-59, Cl. 310-239.
- Brill, William E., to General Motors Corp. Power transmitting mechanism. 2,894,407, 7-14-59, Cl. 74-361.
- Brilli, Franz, to Schwarzkopf Development Corp. Porous lubricant-impregnated bearings. 2,894,792, 7-14-59, Cl. 308-240.
- Brilmyer, Harold G. to Huck Mfg. Co. Blind fastener having separate locking collar with shear flange. 2,887,003, 5-19-59, Cl. 85-49.
- Brim, Bernice J.,  $\frac{1}{4}$  to G. B. Brim. Collapsible tube squeezer. 2,876,934, 3-10-59, Cl. 222-102.
- Brim, Gary B.: See—  
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- Brimelow, Harold C., and C. H. Vasey, to Imperial Chemical Industries Ltd. Alkyl sulfonylnaphthalene sulfonamides and pharmaceutical compositions thereof. 2,889,247, 6-2-59, Cl. 167-51.5.
- Brimer, Marshall R., to Eastman Kodak Co. Gum inhibitors for gasoline. 2,908,558, 10-13-59, Cl. 44-75.
- Brimley, Kenneth J.: See—  
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- Brin, Kacil C., to Electro-Snap Switch & Mfg. Co. Adjustable actuator arm. 2,906,842, 9-29-59, Cl. 200-172.
- Brinck, Erik J. M. Folding camping shelter. 2,895,572, 7-21-59, Cl. 189-2.
- Brindell, Gordon D., to Petroleum Chemicals, Inc. Process for the preparation of 4-ethylcyclohexene. 2,917,514, 12-15-59, Cl. 260-666.
- Brindis, Marvin H. Foot molding. 2,894,288, 7-14-59, Cl. 18-55.05.
- Brindley, Mabel: See—  
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- Brinegar, Ira G.: See—  
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- Briney, James W.: See—  
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- Bringelson, Roy W., and E. M. Katzenberg, to Robinson-Houchin, Inc. Lens edging machine. 2,871,627, 2-3-59, Cl. 51-127.
- Bringewald, August R., to Republic Aviation Corp. Forming apparatus. 2,908,238, 10-13-59, Cl. 113-44.
- Bringhurst, William H.: See—  
Stratman, William C., and Bringhurst. 2,882,762.
- Bringmann, George B. Educational game board with sensing probe. 2,889,634, 6-9-59, Cl. 35-9.
- Brink, John E. Ash producing furnaces and ash removal apparatus for use therewith. 2,903,981, 9-15-59, Cl. 110-165.
- Brink, Paul L.: See—  
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- Brink, Raymond J., and J. A. Buelow, to Designware Industries, Inc. Sliding panel hardware. 2,867,859, 1-13-59, Cl. 20-19.
- Brink, Robert M., to Time, Inc. High speed tape reader mechanism. 2,883,187, 4-21-59, Cl. 271-2.4.
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- Brink, Winfield S., to The Firestone Tire & Rubber Co. Valve for directional change. 2,874,749, 2-24-59, Cl. 152-427.
- Brink, Winfield S., to The Firestone Tire & Rubber Co. Wheel construction. 2,874,997, 2-24-59, Cl. 301-13.
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- Brinkel, Edwin P., to Sherman Products, Inc. Valve control. 2,903,145, 9-8-59, Cl. 214-138.
- Brinker, Harry E., and J. Clark, to United States Steel Corp. Method of making imperforated deck panel with flush tie-down fittings. 2,904,881, 9-22-59, Cl. 29-475.
- Brinker, Keith C., to E. I. du Pont de Nemours and Co. Purification and separation of phosphorus fluorides. 2,877,096, 3-10-59, Cl. 23-205.
- Brinker, Keith C., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Polybenzimidazoles. 2,895,948, 7-21-59, Cl. 260-78.4.
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- Brinkmann, Hans: See—  
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- Brinkman, William H., 50% to J. O. Kitt. Push type mower. 2,916,866, 12-15-59, Cl. 56-25.
- Brinkruff, Arthur R.: See—  
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- Brinson, Robert L.: See—  
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- Brinster, John F., and E. Donath, to Applied Science Corp. of Princeton. Numerical data corrector. 2,868,449, 1-13-59, Cl. 235-61.
- Brinton, Earl M., to United States of America, Air Force. Latch. 2,872,234, 2-3-59, Cl. 292-256.
- Briola, Peter: See—  
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- Brion, Benjamin W. Quiver. 2,881,817, 4-14-59, Cl. 150-1.5.
- Brisbane, Alan D.: See—  
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- Briscoe, Emanuel S. Vane-type rotary pumps. 2,892,584, 6-30-59, Cl. 230-152.
- Briscoe, Ernest V. Sloper. 2,876,564, 3-10-59, Cl. 37-155.
- Briskie, Anthony, and J. Limberger. Extendable house trailer body. 2,890,907, 6-16-59, Cl. 296-23.
- Briskier, Arthur A. Multiple stethoscope. 2,902,108, 9-1-59, Cl. 181-24.
- Briskin, Theodore S., F. Lustig, and C. H. Taylor, to Revere Camera Co. Motion picture projector. 2,907,532, 10-6-59, Cl. 242-55.12.
- Briskin, Theodore S., R. L. Moore, and R. A. Rom, to Revere Camera Co. Slide projectors. 2,909,098, 10-20-59, Cl. 88-28.
- Briskman, Samuel: See—  
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- Brisson, Robert J., to International Salt Co. Separation of materials. 2,907,456, 10-6-59, Cl. 209-11.
- Bristol Aero-Engines Ltd.: See—  
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- Bristol Aircraft Ltd.: See—  
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- Bristol, Harold J., and Baker. 2,895,635.
- Rees, John, and Hulbert. 2,905,578.
- Bristol, Carlton W., Jr.: See—  
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- Bristol Co., The: See—  
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- Russell, John L. 2,901,571.
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- Bristol, Edward S., to Leeds and Northrup Co. Frequency-biased control systems for electrical generating units. 2,895,056, 7-14-59, Cl. 290-2.
- Bristol, Frank: See—  
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- Bristol, Howard, to Supreme Products Corp. Can opener. 2,883,745, 4-28-59, Cl. 30-4.
- Bristol Industrial Equipment Co.: See—  
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- Bristol Laboratories Inc.: See—  
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- Perron, Yvon G. 2,870,145.
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- Bristol Mfg. Corp.: See—  
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- Bristol-Myers Co.: See—  
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- Warfield, Robert B., and Stumpf. 2,909,462.
- Bristow, Leslie: See—  
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- Bristow, Leslie,  $\frac{2}{3}$  to H. A. J. Silley and D. G. Unthank. Apparatus for separating liquids. 2,904,180, 9-15-59, Cl. 210-109.
- Bristow, Mildred S.: See—  
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- Bristow, Norman W.: See—  
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- Bristow, Paul W.: See—  
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- Brown, Russell J., and Downing. 2,895,790.
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- Britner, Richard B., and P. Lisee, to Harblison-Walker Refractories Co., Brick press batch distributor. 2,893,101, 7-7-59, Cl. 25—103.**
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- Britt, Jack, to Rolls-Royce Ltd. Gripping devices. 2,876,033, 3-3-59, Cl. 294—88.**
- Britt, Kenneth W., to Scott Paper Co. Paper napkin. 2,890,540, 6-16-59, Cl. 41—24.**
- Britt, Thomas O. Electrical connectors. 2,918,647, 12-22-59, Cl. 339—74.**
- Britton, Edgar C.: See—**  
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- Britton, Edgar C., and H. C. White, to The Dow Chemical Co. Resolution of DL-lysine. 2,881,183, 4-7-59, Cl. 260—309.5.**
- Britton, Edgar C., E. H. Blair, and H. Tolkmith, to The Dow Chemical Co. O-(2,4,5-trichlorophenyl) O-methyl O-alkyl phosphorothioates. 2,891,085, 6-16-59, Cl. 260—461.**
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- Britton, Roscoe C., and H. H. Hultof. Rail end grinder. 2,867,952, 1-13-59, Cl. 51—56.**
- Britton, Sylvester C., to Phillips Petroleum Co. Dual fuel diesel engines. 2,909,159, 10-20-59, Cl. 123—1.**
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- Brixner, Lothar H., to E. I. du Pont de Nemours and Co. Ferromagnetic material of the formula  $\text{BaFeO}_2\text{F}$  and its preparation. 2,893,830, 7-7-59, Cl. 23-50.
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- Broad, Charles S., to Galloway Ltd., and C. T. Delaney. Joining of cupreous metals and alloys. 2,871,338, 1-27-59, Cl. 219-117.
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- Broadbent, Kent D., to Hughes Aircraft Co. Magnetic device. 2,919,432, 12-29-59, Cl. 340-174.
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- Brock, Clarence A., to Martin-Parry Corp. Vacuum cleaner construction. 2,886,127, 5-12-59, Cl. 183-37.
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- Brock, Herbert W. Method of packaging articles. 2,879,635, 3-31-59, Cl. 53-28.
- Brock, Herbert W. Machine for packaging articles. 2,896,387, 7-28-59, Cl. 53-141.
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- Brockbank, Lucus T. Automatic valve and switch for fuel burners. 2,870,827, 1-27-59, Cl. 158-42.4.
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- Brocker, Dale C., to Sylvania Electric Products Inc. Microwave test system. 2,887,661, 5-19-59, Cl. 332-9.
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- Brockman, Arthur C. Semi-trailer structure and tractor and semi-trailer combination. 2,871,027, 1-27-59, Cl. 280-425.
- Brockman, Carl, to United States of America, Navy. Pressure-responsive switches. 2,902,557, 9-1-59, Cl. 200-82.
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- Brockman, Lyle: *See—*
- Barker, William M., and Brockman. 2,907,982.
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- Brockway Glass Co., Inc.: *See—*
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- Brockway, Ellsworth M., and D. R. Herriott, to Bausch & Lomb Optical Co. Alignment interferometer. 2,880,644, 4-7-59, Cl. 88-14.
- Brockway, Wilhelm W. Classroom cabinet with swinging paper tray. 2,903,318, 9-8-59, Cl. 312-304.
- Brod, Martin M.: *See—*
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- Brodbeck, Almer H., to Dixie Products, Inc. Cooking range. 2,880,716, 4-7-59, Cl. 126-41.
- Brodbeck, Almer H., to Harper-Wyman Co. Gas valve stem construction. 2,912,837, 11-17-59, Cl. 64-7.
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- Broder, Alan, and E. A. Sammis, to Sperry Rand Corp. Engine analyzer system. 2,867,766, 1-6-59, Cl. 324-16.
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- Brodeur, Edouard A., to United States Rubber Co. Work glove. 2,873,450, 2-17-59, Cl. 2-167.
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- Brodie, George R., to Fred'k H. Levey Co., Inc. Angle bar web tension control means. 2,884,856, 5-5-59, Cl. 101-179.
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- Brodie, George R., to Fred'k H. Levey Co., Inc. Web associator and folder. 2,908,494, 10-13-59, Cl. 270-41.
- Brodning, Robert A., to Socony Mobil Oil Co., Inc. Measurement of seismic travel time. 2,905,258, 9-22-59, Cl. 181-5.
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- Brodrick, James A. Means for separating grease from cooked foods. 2,902,921, 9-8-59, Cl. 99-352.



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- Brody, Frederick, and J. J. Leavitt, to American Cyanamid Co. 8-alkoxy-6-aminocarbostyryls. 2,901,485, 8-25-59, Cl. 260-288.
- Brody, Stanley S. Supersonic deviation-measuring apparatus. 2,913,700, 11-17-59, Cl. 340-1.
- Broecker, Carl J. Depth indicator for trenching machines. 2,898,687, 8-11-59, Cl. 33-185.
- Broedner, Ernst: *See*—  
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- Broehl, Charles W. Automobile utility device. 2,889,097, 6-2-59, Cl. 224-42.42.
- Broekhuysen, William C., S. Gilman, and V. J. Petrucelli, to American Machine and Foundry Co. Counting mechanism. 2,878,997, 3-24-59, Cl. 235-98.
- Broell, Percy C., & to L. L. McCurdy. Vehicle air flow system for increasing motor efficiency and settling road debris. 2,886,120, 5-12-59, Cl. 180-54.
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- Broerman, Arthur B., to Phillips Petroleum Co. Electrical measuring apparatus. 2,915,701, 12-1-59, Cl. 324-61.
- Broerman, Arthur B., and M. E. Reinecke, to Phillips Petroleum Co. Differential refractometer for elevated temperatures. 2,886,715, 5-12-59, Cl. 250-218.
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- Broffitt, Wilgus S., to General Motors Corp. Liquid-cooled turbine. 2,891,382, 6-23-59, Cl. 60-39.66.
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- Brogdon, Harold F., to Philco Corp. Variable speed washing machine transmission. 2,872,828, 2-10-59, Cl. 74-368.
- Brogdon, Harold F., to Automatic Music, Inc. Portable laundry unit. 2,903,873, 9-15-59, Cl. 68-3.
- Brogdon, James W. Stand-on platform for a ladder. 2,871,067, 1-27-59, Cl. 304-31.5.
- Broge, Robert W., and R. J. Grabenstetter, to The Procter & Gamble Co. Calcium pyrophosphate abrasive and dentifrice containing the same. 2,876,168, 3-3-59, Cl. 167-93.
- Broglio, Edward P., to General Electric Co. Battery casing. 2,900,432, 8-18-59, Cl. 136-90.
- Brogren, Axel V., to Parsons Corp. Rocker arm and process of manufacturing the same. 2,917,033, 12-15-59, Cl. 123-90.
- Bröhl, August, and H. Wehrenfennig, to E. Leitz, G. m. b. H. Camera with objective coupled shutter release lock and picture boundary selector. 2,881,684, 4-14-59, Cl. 95-11.
- Brohl, Earl M., to General Motors Corp. Vapor lock preventing device. 2,917,110, 12-15-59, Cl. 158-36.
- Broich, Franz, G. Hoffmann, and F. List, to Chemische Werke Huls Akt. Process for the production of alkyl esters of aromatic dicarboxylic acids. 2,885,432, 5-5-59, Cl. 260-475.
- Broida, Herbert P., and J. R. Pellam, to United States of America, Commerce. Formation and stabilization of atoms and free radicals. 2,892,766, 6-30-59, Cl. 204-164.
- Broido, Daniel, to International Computers and Tabulators Ltd. Record sorting apparatus. 2,892,542, 6-30-59, Cl. 209-74.
- Brokaw, George Y., to Eastman Kodak Co. Trans esterification of triglycerides by means of plural metal catalyst. 2,879,281, 3-24-59, Cl. 260-410.7.
- Brokaw, George Y., to Eastman Kodak Co. Preparation of vitamin A palmitate. 2,882,286, 4-14-59, Cl. 260-410.
- Brokaw, George Y., and W. C. Lyman, Jr., to Eastman Kodak Co. Gelled glycerol fatty acid partial ester pharmaceutical carrier. 2,895,879, 7-21-59, Cl. 167-81.
- Broksbank, Harry P., and M. J. Martin, to Sulphates Ltd. Process of producing solid aluminum sulphate. 2,893,813, 7-21-59, Cl. 23-301.
- Brola, Gabriel, to Societe Anonyme dite: Generale Thermique-Procédes Brola. Combustion apparatus. 2,901,032, 8-25-59, Cl. 158-76.
- Brolin, Stephen J., to Bell Telephone Laboratories, Inc. Current supply apparatus. 2,906,941, 9-29-59, Cl. 323-22.
- Broman, Cyrus R.: *See*—  
Homan, John F., Gewecke, and Broman. 2,893,678.
- Broman, Cyrus R., to Baxter Laboratories, Inc. Parenteral solution container closure. 2,878,808, 3-24-59, Cl. 128-272.
- Broman, Francis F. Picnic barbecue grill. 2,918,051, 12-22-59, Cl. 126-25.
- Broman, John S., to Nordberg Mfg. Co. Tightening device for mantles and liners in crushers. 2,916,219, 12-8-59, Cl. 241-299.
- Bromberg, Edwin S. Case for contact lenses. 2,877,779, 3-17-59, Cl. 134-99.
- Bromberg, Malcolm C. Display shelf construction. 2,915,193, 12-1-59, Cl. 211-135.
- Brömer, Heinz, and N. Meinert, to Ernst Leitz, G.m.b.H. Optical glass. 2,899,322, 8-11-59, Cl. 106-47.
- Bromley, Arthur E.: *See*—  
Smith, Clarence M., and Bromley. 2,915,736.
- Bromley, Arthur E., to The Bryant Electric Co. Wiring device. 2,913,698, 11-17-59, Cl. 339-164.
- Bromley, James E., to The Chemstrand Corp. Flexible coupling. 2,898,751, 8-11-59, Cl. 64-11.
- Bromley, Paul: *See*—  
Tretheway, Thomas J. 2,905,214.
- Bromo-Mint Co., Inc.: *See*—  
Steiner, Albert M. 2,888,004.
- Broms, Allan. Copying camera improvements. 2,882,790, 4-21-59, Cl. 88-24.
- Bronaugh, Hugh J., to Thiokol Chemical Corp. Preparation of alkali metal borohydrides. 2,880,058, 3-31-59, Cl. 23-14.
- Bronikowski, Raymond J., to McGraw-Edison Co. Line drop compensating circuit. 2,901,684, 8-25-59, Cl. 323-66.
- Bronikowski, Raymond J., to McGraw-Edison Co. Mounting means for temperature indicating device. 2,907,992, 10-6-59, Cl. 340-227.
- Bronleewe, Robert H. Lifthitch for spring tooth harrows. 2,889,890, 6-9-59, Cl. 172-413.
- Brönnimann, Albert J. Precision gun sight. 2,896,326, 7-28-59, Cl. 33-50.
- Bronson, Howard S., and M. F. Felt, to Portage Hosiery Co. Yarn and method of making same. 2,902,820, 9-8-59, Cl. 57-163.
- Bronson, James D., Jr., to Thomsen Research Co., Inc. Method of manufacturing extended pigments. 2,872,335, 2-3-59, Cl. 106-292.
- Bronson, Sabin C.: *See*—  
Haggadone, L. V. 2,888,665.
- Bronson, Stanley O., II: *See*—  
Morbeck, Robert C., Bronson, and Sweetser. 2,877,172.
- Bronstein, Harry. Cam operated ball detent coupling pin. 2,898,797, 8-11-59, Cl. 85-5.
- Bronstert, Franz, to Accumulatoren-Fabrik Akt. Electrode arrangement. 2,898,393, 8-4-59, Cl. 136-43.
- Bronstert, Franz, to Accumulatoren-Fabrik Aktiengesellschaft. Annular permanently sealed alkaline accumulator. 2,915,577, 12-1-59, Cl. 136-13.
- Bronstien, Edward L., to United States Bedding Co. Spring assembly machines. 2,898,950, 8-11-59, Cl. 140-92.8.
- Bronstien, Edward L., Jr., and R. A. Fisher, to The United States Bedding Co. Wire shaping machine. 2,873,768, 2-17-59, Cl. 140-71.
- Bronstien, Edward L., Jr., and R. A. Fisher, to The United States Bedding Co. Mechanically operated sofa bed. 2,913,736, 11-24-59, Cl. 5-13.
- Bronzavia S.A.: *See*—  
Conan, Yves. 2,902,880.
- Brook, Arthur F., to Wire-O-Corp. Binder with individually operable binder rings. 2,879,775, 3-31-59, Cl. 129-24.
- Brook, James E., to Bendix Aviation Corp. Servosystem with preamplifier. 2,871,431, 1-27-59, Cl. 318-30.
- Brook, Leonard, and R. Walker, to The Forgrave Machinery Co. Ltd. Wrapping machines. 2,875,567, 3-3-59, Cl. 53-370.
- Brooke, Arthur A., to Canadian General Electric Co., Ltd. Manufacturing grids. 2,906,299, 9-29-59, Cl. 140-71.5.
- Brooke, Burnham. Unidirectional valve for anesthesia equipment. 2,868,198, 1-13-59, Cl. 128-188.
- Brooke, Chester E. Device for cutting dough. 2,868,145, 1-13-59, Cl. 107-46.
- Brooke, Harold, and G. J. Parker, to The Forgrave Machinery Co. Ltd. Wrapping or like machines. 2,903,635, 9-8-59, Cl. 318-6.
- Brooke, Jesse M., to Phillips Petroleum Co. Flow rate of an impurity controlling a distillation process. 2,916,887, 12-15-59, Cl. 62-18.
- Brooke, Jesse M., and F. E. Gilmore, to Phillips Petroleum Co. Catalytic reforming process and pretreatment of feed stock. 2,917,452, 12-15-59, Cl. 208-91.
- Brooke, Thomas A., and E. J. Smith, to Dunlop Rubber Co. Ltd. Anti-vibration mounting. 2,873,940, 2-17-59, Cl. 248-358.
- Brookens, Ronald G.: *See*—  
Clark, Gerald A., Havens, and Brookens. 2,910,454.
- Brooker, Leslie G. S.: *See*—  
Heseltine, Donald W., and Brooker. 2,895,955.  
Webster, Frank G., Heseltine, and Brooker. 2,887,480.
- Brooker, Leslie G. S., and E. J. Van Lare, to Eastman Kodak Co. Cyanines from triazolo bases. 2,870,014, 1-20-59, Cl. 96-106.
- Brooker, Leslie G. S., and D. W. Heseltine, to Eastman Kodak Co. Photographic sensitizing dyes and emulsions containing them. 2,882,158, 4-14-59, Cl. 96-102.
- Brooker, Leslie G. S., and F. L. White, to Eastman Kodak Co. Merocyanine sensitizing dyes and photographic emulsions containing them. 2,882,159, 4-14-59, Cl. 96-102.
- Brooker, Leslie G. S., and G. H. Keyes, to Eastman Kodak Co. Method of making thiazole or oxazole quaternary salts. 2,917,516, 12-15-59, Cl. 260-304.
- Brookes, Albert E. Machine for plucking hops or like plants. 2,891,555, 6-23-59, Cl. 130-30.
- Brookhouser, Lawrence H., to United States Steel Corp. Flame cutting table. 2,890,883, 6-16-59, Cl. 269-163.



- Brooking, Rowland A., to Simmonds Aerocessories Ltd. Densitometers. 2,889,702, 6-9-59, Cl. 73-32.
- Brooks, Alfred J., and J. S. Strickland, said Strickland to said Brooks. Device to open and hold containers during packaging operation. 2,895,276, 7-21-59, Cl. 53-261.
- Brooks, Arthur H., to United States of America, Navy. Sound generator. 2,901,997, 9-1-59, Cl. 116-27.
- Brooks, Byron S.: *See*—  
Hamlin, Frank S., Holmes, Brooks, and Swanson. 2,915,298.
- Brooks, Charles H., to Sun Oil Co. Apparatus for transfer of solids between zones of different pressures. 2,907,605, 10-6-59, Cl. 302-17.
- Brooks, Charles H., to Sun Oil Co. Treatment of gas mixtures. 2,918,140, 12-22-59, Cl. 183-114.2.
- Brooks, Charles H., to Sun Oil Co. Polymerization process. 2,919,265, 12-29-59, Cl. 260-93.7.
- Brooks, Chester E., W. O. Fleckenstein, R. C. Lee, and H. N. Seckler, to Bell Telephone Laboratories, Inc. Magnetic drum auxiliary sender for telephone switching system. 2,876,288, 3-3-59, Cl. 179-18.
- Brooks, E. J. Co.: *See*—  
Brooks, Winfred M., and Moberg. 2,913,274.  
Moberg, Sigurd M. 2,899,230.  
Moberg, Sigurd M. 2,902,308.  
Moberg, Sigurd M. 2,912,269.  
Moberg, Sigurd M. 2,914,354.
- Brooks, Ernest A., R. Shellenberger, and T. S. Sprague, to The Babcock & Wilcox Co. Pressure shell enclosed synthesis gas generator with tubular heat exchanger. 2,894,494, 7-14-59, Cl. 122-510.
- Brooks, Forrest E., to Radio Corp. of America. Deflection systems. 2,870,373, 1-20-59, Cl. 315-27.
- Brooks, Frank W., Jr., and C. A. Duval, Jr., to Socony Mobil Oil Co., Inc. Method for producing a stabilized cracked distillate fuel oil. 2,868,722, 1-13-59, Cl. 208-263.
- Brooks, Frank W., Jr., and H. R. Sharpless, Jr., to Socony Mobil Oil Co., Inc. Process for sweetening hydrocarbons with elemental sulfur caustic and air in the presence of a lead sulfide catalyst. 2,879,227, 3-24-59, Cl. 208-198.
- Brooks, Fred A., Jr., G. W. Binkley, G. K. Dumbauld, and D. Perry, to Jersey Production Research Co. Method for cementing wells. 2,868,295, 1-13-59, Cl. 166-29.
- Brooks, Fred N., and R. L. Rogers, deceased (L. A. Rogers, executrix), to Texas Phenothiazine Co. Phenothiazine drench compositions. 2,918,403, 12-22-59, Cl. 167-53.
- Brooks, Hamilton: *See*—  
Cameron, Frank L., and Brooks. 2,897,315.
- Brooks, Harvey: *See*—  
Hurwitz, Henry, Jr., Brooks, Mannal, Payne, and Luebke. 2,879,216.
- Brooks, Ivan C.: *See*—  
Dvorkovitz, Vladimir, and Brooks. 2,890,960.
- Brooks, John A., and M. J. Den Herder, to Standard Oil Co. Temperature control in platinum catalyst reforming. 2,895,898, 7-21-59, Cl. 208-65.
- Brooks, John W., to Socony Mobil Oil Co., Inc. Process for oxidizing petroleum oil and products thereof. 2,895,978, 7-21-59, Cl. 260-451.
- Brooks, Lester A., and J. C. Bacon, to R. T. Vanderbilt Co., Inc. Chloroprene polymers containing mono-substituted thiourea accelerators. 2,911,392, 11-3-59, Cl. 260-79.5.  
Inc. Chloroprene polymers containing asymmetric di-substituted thiourea accelerators. 2,911,393, 11-3-59, Cl. 260-79.5.
- Brooks, Lester A., and J. C. Bacon, to R. T. Vanderbilt Co., Inc. Chloroprene polymers containing benzylthiourea accelerators. 2,911,394, 11-3-59, Cl. 260-79.5.
- Brooks, Marguerite E.: *See*—  
Rudner, Bernard, and Brooks. 2,888,483.  
Rudner, Bernard, and Brooks. 2,906,753.
- Brooks, Marvin C., to United States Rubber Co. Reaction product of vinyltrichlorosilane, diethylene glycol, water and ammonia or an amine and method of making same. 2,885,383, 5-5-59, Cl. 260-45.4.
- Brooks, Marvin C., to United States Rubber Co. Method of making composite glass-polyester structures. 2,891,885, 6-23-59, Cl. 154-128.
- Brooks, Paul A., and L. J. Bucaria. Baby feeding bottle. 2,877,917, 3-17-59, Cl. 215-11.
- Brooks, Richard F., to Monsanto Chemical Co. Manufacture of aromatic sulfonic acids. 2,889,360, 6-2-59, Cl. 260-505.
- Brooks, Richard F., to Monsanto Chemical Co. Manufacture of aromatic sulfonic acids. 2,889,361, 6-2-59, Cl. 260-505.
- Brooks, Robert B., to Minneapolis-Honeywell Regulator Co. Welding method. 2,872,565, 2-3-59, Cl. 219-117.
- Brooks, Roy L. Grain board and hooks therefor. 2,873,867, 2-17-59, Cl. 214-44.
- Brooks, Thomas E., to Lisle Corp. Magnetic plug. 2,870,384, 1-20-59, Cl. 317-201.5.
- Brooks, W. R., Inc.: *See*—  
Sharrar, Osro G., Brooks, and Bigras. 2,888,264.
- Brooks, Wendell R.: *See*—  
Sharrar, Osro G., Brooks, and Bigras. 2,888,264.
- Brooks, Wesley W., and C. E. Strecker, to General Electric Co. Fluorescent lamp ballast. 2,869,037, 1-13-59, Cl. 315-97.
- Brooks, Wesley W., R. W. Dochterman, and W. L. R. Henderson, to General Electric Co. Core clamping means. 2,882,506, 4-14-59, Cl. 336-210.
- Brooks, William, W. H. Schray, and L. N. Davis, to United Steel & Wire Co. Child's seat for a movable storage cart. 2,890,059, 6-9-59, Cl. 280-33.99.
- Brooks, William O., to Northrop Corp. Limiter amplifier system. 2,898,410, 8-4-59, Cl. 179-171.
- Brooks, Winfred M., and S. M. Moberg, to E. J. Brooks Co. Loop seal. 2,913,274, 11-17-59, Cl. 292-317.
- Brooksbank, Wallace R. Textile machinery. 2,900,673, 8-25-59, Cl. 19-115.
- Brophy, James J., and J. W. Buttrey, to International Business Machines Corp. Hall effect probe. 2,914,728, 11-24-59, Cl. 324-45.
- Brophy, Jere E., and R. W. Ingraham, to International Business Machines Corp. Application of solid lubricant coatings to surfaces. 2,902,417, 9-1-59, Cl. 204-37.
- Brosch, William: *See*—  
Ferriss, Frederick, and Gainfort. 2,879,726.  
Ferriss, Frederick, and Gainfort. 2,882,841.
- Broschke, Heinrich: *See*—  
Schulze, Reinhart, and Broschke. 2,917,919.
- Brosene, William G., Jr., and P. R. De Selms, to Whirlpool Corp. Gas burner igniter. 2,874,768, 2-24-59, Cl. 158-115.
- Brosenius, Karl Hilding, to Hyresgasternas Sparkasse-och Byggnadsforenaringars Riksförbund. Wooden beam constructions. 2,886,857, 5-19-59, Cl. 20-5.
- Broser, Immanuel J., and R. E. Broser-Warminsky, to Hupp Corp. Methods for controlling luminescence and conductivity of radiant energy sensitive materials. 2,918,437, 12-22-59, Cl. 252-501.
- Broser-Warminsky, Ruth E.: *See*—  
Broser, Immanuel J., and Broser-Warminsky. 2,918,437.
- Brosh, Amnon, to Tele-Dynamics Inc. Variable time delay circuit. 2,871,419, 1-27-59, Cl. 317-142.
- Brosh, Amnon, to Tele-Dynamics Inc. Mobile communication system with carrier signal strength control. 2,883,522, 4-21-59, Cl. 250-6.
- Broshar, Gerald R.: *See*—  
Falge, Robert N., Broshar, and Manning. 2,911,523.
- Broske, William F., to AMP Inc. Electrical connectors. 2,908,887, 10-13-59, Cl. 339-223.
- Bross, Helmut, to G. Wagner. Writing device having an extensible and retractable writing element. 2,899,931, 8-18-59, Cl. 120-22.
- Bross, Helmut, to G. Wagner. Containers having walls consisting of a flexible and elastic material. 2,908,423, 10-13-59, Cl. 222-21.1.
- Bross, Helmut, to Gunther Wagner. Retractable writing instrument, particularly of the ball point type. 2,916,014, 12-8-59, Cl. 120-42.03.
- Brosseau, John B.: *See*—  
Brosseau, Joseph E. and J. B. 2,919,337.
- Brosseau, Joseph E. and J. B., to Joseph E. Brosseau Co. Temperature control for heating units. 2,919,337, 12-29-59, Cl. 219-20.
- Brosseau, Joseph E., Co.: *See*—  
Brosseau, Joseph E. and J. B. 2,919,337.
- Brossi, Arnold, and O. Schneider, to Hoffmann-La Roche Inc. Novel quinolinolizone compounds and process for the manufacture thereof. 2,877,226, 3-10-59, Cl. 260-287.
- Brothers, Arthur M. Portable photographic film viewer. 2,880,646, 4-7-59, Cl. 88-24.
- Brothers, Irma M. Garment-gripping sleeve for hanger. 2,904,233, 9-15-59, Cl. 223-88.
- Brotzmann, Karl: *See*—  
Harders, Fritz, Knuppel, and Brotzmann. 2,893,715.
- Brough, Andrew S., to Veeder-Root Ltd. Predetermining counter presetting means. 2,877,952, 3-17-59, Cl. 235-132.
- Brougham, Leslie E., and R. Brown, to Block & Anderson Ltd. Master clip arrangements for hectographic duplicating machines. 2,880,670, 4-7-59, Cl. 101-132.5.
- Brougham, Leslie E., and R. Brown, to Block & Anderson Ltd. Rotary hectographic duplicating machines. 2,884,854, 5-5-59, Cl. 101-132.5.
- Broughton, Arthur E., to F. J. Broughton, and D. H. Newcomb, as trustees. Vacuum control valve. 2,883,998, 4-28-59, Cl. 137-116.3.
- Broughton, Arthur E., to F. J. Broughton and D. H. Newcomb, as trustees. Spray shower assembly. 2,884,203, 4-28-59, Cl. 239-116.
- Broughton, Donald B., to Universal Oil Products Co. Recovery and separation of naphthalenes by solvent extraction. 2,878,261, 3-17-59, Cl. 260-674.
- Broughton, Donald B., to Universal Oil Products Co. Process for separating butylenes from butanes. 2,911,452, 11-3-59, Cl. 260-677.
- Broughton, Francis J.: *See*—  
Broughton, Arthur E. 2,883,998.  
Broughton, Arthur E. 2,884,203.
- Brouillard, Robert E.: *See*—  
Gurien, Harvey, Brouillard, and Stein. 2,893,813.  
Katz, Leon, Fuerst, and Brouillard. 2,907,670.  
Lytle, Lawrence D., and Brouillard. 2,918,465.
- Brouillard, Robert E., and L. Katz, to General Aniline & Film Corp. Phthalocyanine pigments. 2,867,539, 1-6-59, Cl. 106-288.
- Brouillard, Robert E., and T. R. Tarantino, to General Aniline & Film Corp. Manufacture of copper phthalocyanine. 2,900,390, 8-18-59, Cl. 260-314.5.
- Brous, Donald W., to Food Engineering Corp. Liquid dispensing machine. 2,907,495, 10-6-59, Cl. 222-63.



- Brouse, Harold L., to Arco Mfg. Corp. Angular position indicating system. 2,911,636, 11-3-59, Cl. 340-271.
- Bruse, Shirley B., and P. W. Fawcett, to United States Steel Corp. Tensioner for automatic wire-tying machine. 2,908,216, 10-13-59, Cl. 100-26.
- Brouse, Shirley B., and P. W. Fawcett, to United States Steel Corp. Automatic wire-tying machine. 2,912,099, 11-10-59, Cl. 203-12.
- Brouse, William H. D., to Teleflex Inc. Control mechanism. 2,890,593, 6-16-59, Cl. 74-394.
- Broussard, Leo: See—  
Nicholson, Edward W. S., Segura, and Broussard. 2,906,698.
- Broussard, Robert B.: See—  
Toce, Charles A., and Broussard. 2,902,532.
- Broussaud, Georges, to Compagnie Generale de Telegraphie Sans Fil. Radiating systems. 2,870,444, 1-20-59, Cl. 343-909.
- Brouthers, Elmer J.: See—  
Miller, Harry B., and Brouthers. 2,876,614.
- Brouwer, Frans, to Canadian Westinghouse Co., Ltd. Position control servosystem. 2,913,648, 11-17-59, Cl. 318-28.
- Brouwer, Jasper. Livestock feeder. 2,906,241, 9-29-59, Cl. 119-53.
- Browall, Bert H. Automatic slack adjusters for brakes. 2,908,360, 10-13-59, Cl. 188-196.
- Browar, Emilian: See—  
Metheny, Donald E., and Browar. 2,874,073.
- Browder, Doniphan S.: See—  
Browder, Herbert M., Jr. and D. S. 2,908,403.
- Browder, Herbert M., Jr. and D. S. Device for removing and installing automobile doors. 2,908,403, 10-13-59, Cl. 214-1.
- Browder, Lewis B.: See—  
Chambers, Herbert I., and Browder. 2,876,059.
- Brower, Bailey, and J. F. Phillips. Dolly attachments for suit cases or like articles of manufacture. 2,919,138, 12-29-59, Cl. 280-35.
- Brower, David F., to Hughes Aircraft Co. Variable reluctance electromagnetic device. 2,897,462, 7-28-59, Cl. 336-30.
- Brower, David F., and W. T. Chater, to Hughes Aircraft Co. Condition responsive electrical system. 2,918,666, 12-22-59, Cl. 340-195.
- Brown, Aaron. Sectional type demountable rim. 2,882,094, 4-14-59, Cl. 301-30.
- Brown, Abbott A., to Bendix Aviation Corp. Signal network. 2,887,659, 5-19-59, Cl. 332-1.
- Brown, Abbott A., and R. M. De Luca, to Bendix Aviation Corp. Variable inductor. 2,901,716, 8-25-59, Cl. 336-135.
- Brown, Adolph M. Face lifting device. 2,896,613, 7-28-59, Cl. 128-76.
- Brown, Albert L. Heater for oil wells. 2,908,331, 10-13-59, Cl. 166-61.
- Brown, Albert L. Protective device. 2,904,041, 9-15-59, Cl. 128-132.
- Brown, Albert W., to Parker-Hannifin Corp. Aircraft fuel dumping means. 2,880,749, 4-7-59, Cl. 137-344.
- Brown, Alexander M., to Talon, Inc. Quick release end stop. 2,894,305, 7-14-59, Cl. 24-205.11.
- Brown, Alexander M., to Talon, Inc. Top stop for slide fasteners. 2,900,694, 8-25-59, Cl. 24-205.11.
- Brown, Alexander M., to Talon, Inc. Automatic lock slider for slide fasteners. 2,913,795, 11-24-59, Cl. 24-205.14.
- Brown, Alfred E.: See—  
Harris, Milton, and Brown. 2,914,374.
- Brown, Allan R., to The Raymond Corp. Steering and driving mechanism for material handling trucks. 2,913,063, 11-17-59, Cl. 180-42.
- Brown, Amon H.: See—  
Graham, Robert P., Brown, and Ramage. 2,897,600.
- Lazar, Melvin E., and Brown. 2,911,036.
- Brown, Andrew. Golfer's training device. 2,917,312, 12-15-59, Cl. 273-179.
- Brown, Archer W.: See—  
Stoddard, Robert J., Brown, and Bratt. 2,902,177.
- Brown, Archer W., and American Hoist & Derrick Co. Out-rigger construction for carrier mounted cranes. 2,914,194, 11-24-59, Cl. 212-145.
- Brown, Arthur E. Double acting two stroke cycle internal combustion engine. 2,918,045, 12-22-59, Cl. 123-62.
- Brown, Arthur E., to General Electric Co. Linear actuator. 2,918,827, 12-22-59, Cl. 74-424.8.
- Brown, Arthur G., W. W. Lee, and K. M. Sancier, to The Procter & Gamble Co. Composition having bleaching, sterilizing and disinfecting properties, and method of preparation thereof. 2,913,460, 11-17-59, Cl. 260-248.
- Brown, Arthur K., Jr.: See—  
Austin, Leonard E., and Brown. 2,880,824.
- Austin, Leonard E., Brown, and Ettinger. 2,885,063.
- Austin, Leonard E., Brown, and Ettinger. 2,918,164.
- Brown, Arthur W., Jr. Water ski harness. 2,891,261, 6-23-59, Cl. 9-21.
- Brown, Barnett C. Tool holder. 2,903,138, 9-8-59, Cl. 211-60.
- Brown, Ben E., and R. R. Dunlap. Pressure switch. 2,895,024, 7-14-59, Cl. 200-82.
- Brown, Bernard D.: See—  
Singleterry, Vernon A., and Brown. 2,874,946.
- Brown, Bernard E., to General Electric Co. Clothes washing apparatus. 2,867,107, 1-6-59, Cl. 68-24.
- Brown, Bertrand H.: See—  
Esmeier, Edward F., and Brown. 2,874,540.
- Brown & Bigelow: See—  
Felt, Paul W. 2,892,251.
- Olson, John J. 2,890,090.
- Schwartz, John J. 2,892,537.
- Woofter, Cecil B. 2,892,275.
- Brown, Boveri & Cie. Akt.: See—  
Katzenberger, Bernhard. 2,898,032.
- Ludwig, Ernst. 2,870,390.
- Brown & Brown, Inc.: See—  
Brown, Chalmers S. 2,882,919.
- Brown, Calvin F. Apparatus for testing mercury switches. 2,885,635, 5-5-59, Cl. 324-28.
- Brown, Calvin F., and P. F. Vial. Crystal point detonation fuze. 2,892,411, 6-30-59, Cl. 102-70.2.
- Brown, Calvin O., to Set Screw & Mfg. Co. Headless set screws with center of gravity located so that screw will be properly oriented. 2,877,680, 3-17-59, Cl. 85-1.
- Brown, Calvin O., to Set Screw & Mfg. Co. Screw having deformable temporary head disposed in a groove. 2,877,681, 3-17-59, Cl. 85-9.
- Brown, Carl F., Jr., to Wald Industries, Inc. Surface marking apparatus. 2,889,992, 6-9-59, Cl. 239-69.
- Brown, Carl R.: See—  
Capen, Harold N., Brown, and Evans. 2,911,333.
- Brown, Chalmers S., to Brown & Brown, Inc. Sewer regulator. 2,882,919, 4-21-59, Cl. 137-115.
- Brown, Charles F., and I. H. C. Green, to Hemphill Co. Yarn controlling device and method of knitting. 2,886,959, 5-19-59, Cl. 66-140.
- Brown, Charles H., to Morning Coffee, Inc. Water-heating apparatus for use in making hot beverages. 2,894,110, 7-7-59, Cl. 219-38.
- Brown, Charles K., Jr., and C. K. Brown, Sr. Double acting vacuum and scrubbing head. 2,867,835, 1-13-59, Cl. 15-328.
- Brown, Charles K., Sr.: See—  
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- Brown, Charles L., Jr., to Electrolux Corp. Double purpose suction cleaning nozzle. 2,885,716, 5-12-59, Cl. 15-417.
- Brown, Charles R., to United States of America, Navy. Variable ejector for iris nozzles. 2,870,600, 1-27-59, Cl. 60-35.6.
- Brown, Chester A.: See—  
Gibboney, James L., Brown, and Krueger. 2,872,196.
- Brown, Chester A., and C. E. Winchell, to National Aluminate Corp. Wheel flange lubricator. 2,903,090, 9-8-59, Cl. 184-3.
- Brown, Cicero C.: See—  
Potts, Ernest L. 2,880,807.
- Potts, Ernest L. 2,884,070.
- Potts, Ernest L. 2,915,126.
- Brown, Cicero C. Washover tool for use in wells. 2,869,644, 1-20-59, Cl. 166-103.
- Brown, Cicero C. Liner packer for wells. 2,884,069, 4-28-59, Cl. 166-119.
- Brown, Cicero C. Safety valve for well pipes. 2,884,072, 4-28-59, Cl. 166-139.
- Brown, Cicero C. Well packers. 2,893,492, 7-7-59, Cl. 166-119.
- Brown, Cicero C. Well apparatus and methods of running same in a well bore. 2,902,093, 9-1-59, Cl. 166-46.
- Brown, Cicero C. Well completion and well packer apparatus and methods of selectively manipulating a plurality of well packers. 2,903,066, 9-8-59, Cl. 166-46.
- Brown, Clarence H.: See—  
Newton, John S., and Brown. 2,911,090.
- Brown, Clarence H., to Goodman Mfg. Co. Bit holder for cutter chain bits. 2,901,233, 8-25-59, Cl. 262-33.
- Brown, Clarence H., and R. A. McCallum, to Goodman Mfg. Co. Self-gauging and readily removable cutter bit. 2,907,559, 10-6-59, Cl. 262-33.
- Brown, Claude L., and E. E. Brown. Combination caliper micrometer. 2,894,332, 7-14-59, Cl. 33-159.
- Brown, Clinton B.: See—  
Maloney, James D., Jr., and Brown. 2,867,414.
- Brown Co.: See—  
Stuart, Meredith R. 2,873,628.
- Taylor, Arthur R. 2,884,062.
- Brown, Curtis L., to Bendix Aviation Corp. Device for regulating the response rate of fluid suspension leveling valves. 2,918,303, 12-22-59, Cl. 280-124.
- Brown, Curtis W.: See—  
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- Brown, Daniel P. Propeller guard and deflector for outboard motors. 2,894,477, 7-14-59, Cl. 115-42.
- Brown, Dewey. Flush valve construction. 2,878,485, 3-24-59, Cl. 4-57.
- Brown, Donald A., to Donn Products, Inc. T joint. 2,903,104, 9-8-59, Cl. 189-36.
- Brown, Donald J., G. H. Morehouse, and L. B. Schauer, to Morehouse Industries, Inc. Vacuum milling and deaerating system. 2,909,332, 10-20-59, Cl. 241-46.
- Brown, Donald V., to General Electric Co. Process for rendering masonry water-repellent. 2,905,562, 9-22-59, Cl. 106-12.
- Brown, Dwight E., to Hydro-Aire, Inc. Anti-skid brake system. 2,874,810, 2-24-59, Cl. 188-181.
- Brown, Earl G. Automobile light control system. 2,876,384, 3-3-59, Cl. 315-81.



- Brown, Edgar A., to International Business Machines Corp. Paper feeding device. 2,880,997, 4-7-59, Cl. 271-45.
- Brown, Edgar A., to International Business Machines Corp. Non-destructive sensing of magnetic cores. 2,902,676, 9-1-59, Cl. 340-174.
- Brown, Edgar A., to International Business Machines Corp. Magnetic transducer and method. 2,915,593, 12-1-59, Cl. 179-100.2.
- Brown, Edgar A., and C. C. Zuleeg, to International Business Machines Corp. Sealing means for roller bearings. 2,872,257, 2-3-59, Cl. 308-187.
- Brown, Edgar A., and E. A. Sands, to Burroughs Corp. Binary accumulator. 2,885,148, 5-5-59, Cl. 235-164.
- Brown, Edgar F. Carrier for cartons. 2,905,502, 9-22-59, Cl. 294-87.2.
- Brown, Edmund H.: See—  
Birmingham, Bascom W., Brown, Scott, and Vander Arend. 2,871,042.
- Brown, Edward I., to Vickers Inc. Dual throttling motor control circuit. 2,879,745, 3-31-59, Cl. 121-38.
- Brown, Edward N. Multiple utility racks. 2,903,137, 9-8-59, Cl. 211-26.
- Brown, Edwin C., and C. W. Gaden, to Baldwin-Lima-Hamilton Corp. Slow-fast power steering system. 2,899,006, 8-11-59, Cl. 180-79.2.
- Brown, Edwin H., to Constock Liquid Methane Corp. Apparatus for unloading cold low temperature boiling liquids from storage reservoir. 2,903,860, 9-15-59, Cl. 62-52.
- Brown, Edwin H., and W. L. Morrison; said Morrison assor. to The Union Stock Yard and Transit Co. of Chicago. Apparatus and method of preserving foodstuffs and the like. 2,890,123, 6-9-59, Cl. 99-192.
- Brown, Elwyn S., D. Y. Cooper, J. O. Elam, and R. J. Johns, to United States of America, Army. Mask to mask resuscitator. 2,887,105, 5-19-59, Cl. 128-29.
- Brown, Ernest K., E. V. Dobbins, and R. A. Burge, to Standard Oil Co. Production of blown asphalts. 2,886,506, 5-12-59, Cl. 208-5.
- Brown, Eula E.: See—  
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- Brown, Everett R., to Automatic Timing & Controls, Inc. Interval timers. 2,885,001, 5-5-59, Cl. 161-1.
- Brown Fintub Co.: See—  
Brown, John W., Jr., and Nihlen. 2,892,451.
- Brown, Fordyce M.: See—  
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- Brown-Forman Distillers Corp.: See—  
Copenhefe, John B. 2,889,759.
- Brown, Forrest W., to The Reflectone Corp. Controllable voltage integration circuit. 2,901,610, 8-25-59, Cl. 250-27.
- Brown, Frank: See—  
Hudgin, Donald E., and Brown. 2,895,943.
- Kray, Raymond J., and Brown. 2,915,530.
- Kray, Raymond J., and Brown. 2,917,484.
- Prichard, John H., Rielly, and Brown. 2,883,301.
- Brown, Frank E., to F. M. Turnbull. Immersion thermometer. 2,879,666, 3-31-59, Cl. 73-874.
- Brown, Frank E., to Unette Corp. Manufacture of internal pressure-rupturable seal in thermoplastic tubing. 2,908,601, 10-13-59, Cl. 154-116.
- Brower, Frank M., to The Dow Chemical Co. Method of distilling vinyltoluene. 2,888,386, 5-26-59, Cl. 202-57.
- Brown, Franklin M. Potentiometer. 2,881,295, 4-7-59, Cl. 201-48.
- Brown, Fred C., to British Celanese Ltd. Knitted fabrics and their production. 2,911,704, 11-10-59, Cl. 28-72.
- Brown, Frederick W. Explosives. 2,879,149, 3-24-59, Cl. 52-1.
- Brown, George J. and G. W., to Telemeter Magnetics, Inc. Sorting and stacking apparatus. 2,881,917, 4-14-59, Cl. 209-74.
- Brown, George L.: See—  
Bibolet, Aubert H., Brown, Fellmann, and Richter. 2,914,376.
- Lane, Earl W., and Brown. 2,903,485.
- Richter, George A., Jr., and Brown. 2,869,977.
- Brown, George L., and E. W. Lane, to Rohm & Haas Co. Alkylphenoxypolyethoxyalkanols. 2,903,486, 9-8-59, Cl. 260-613.
- Brown, George P., Jr., to Gulf Research & Development Co. Oxidation process for obtaining a product of improved color characteristics. 2,891,982, 6-23-59, Cl. 260-451.
- Brown, George P., Jr., H. J. Elder, and N. W. Franke, to Gulf Research & Development Co. Method for the separation of difficultly separable mixtures of carboxylic acids. 2,911,420, 11-3-59, Cl. 260-399.
- Brown, George R., to Minneapolis-Honeywell Regulator Co. Valve having manual and automatic means for operating it. 2,911,990, 11-10-59, Cl. 137-82.
- Brown, George W.: See—  
Brown, George J. and G. W. 2,881,917.
- Brown, George W., C. Y. Cartwright, G. L. Hutter, F. A. McCann, J. C. Nyberg, R. M. Skeirik, and N. Krag, to Telemeter Magnetics, Inc. Collating apparatus. 2,909,968, 10-27-59, Cl. 93-1.
- Brown, Gerald H., to J. Leukart Machine Co., Inc. Impacting machine. 2,894,435, 7-14-59, Cl. 94-48.
- Brown, Gerald J., to The Gabriel Co. Wave-guide antenna. 2,907,033, 9-29-59, Cl. 343-781.
- Brown, Gerald J., to The Gabriel Co. Wave-guide antenna. 2,907,034, 9-29-59, Cl. 343-781.
- Brown, Gilbert G., to Bendix Aviation Corp. Soldering iron. 2,902,577, 9-1-59, Cl. 219-26.
- Brown, Glenn H., J. F. Dreyer, H. R. Lubowitz, and W. H. H. Middendorf, to University of Cincinnati Research Foundation. Method and apparatus for displacing a light beam. 2,915,943, 12-8-59, Cl. 88-61.
- Brown, Glenn M.: See—  
Killian, Robert J., and Brown. 2,869,223.
- Killian, Robert J., and Brown. 2,892,431.
- Brown, Glenn R., Jr., H. A. Strecker, and R. R. Crawford, to The Standard Oil Co. Process for the solvent extraction of aromatics from hydrocarbon mixtures. 2,874,116, 2-17-59, Cl. 208-323.
- Brown, Gordon D.: See—  
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- Prete, Ernest, Jr. 2,901,794.
- True, Harry, and Brown. 2,867,208.
- Brown, Gordon V., and A. B. Repp. Conveyor positioning apparatus. 2,908,378, 10-13-59, Cl. 198-135.
- Brown, H. H., Shoe Co., Inc.: See—  
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- Brown, Harlow G. G., to Reinforced Plastics Corp. Marine fender. 2,903,990, 9-15-59, Cl. 114-219.
- Brown, Harold, Co.: See—  
McMurry, Everett D. 2,878,754.
- Brown, Harold J. Converter system having load energy absorption means. 2,899,625, 8-11-59, Cl. 321-2.
- Brown, Harold J. Converter system having separation of function. 2,899,626, 8-11-59, Cl. 321-2.
- Brown, Harold J. Electronic watt-hour meter. 2,919,408, 12-29-59, Cl. 324-142.
- Brown, Harrison S., and D. S. Webster, to United States of America, Atomic Energy Commission. Recovery of plutonium values by fluorination and fractionation. 2,869,982, 1-20-59, Cl. 23-14.5.
- Brown, Harrison S., and E. G. Bohlmann, to United States of America, Atomic Energy Commission. Recovery of Pu from cerium trifluoride by fluorination. 2,873,168, 2-10-59, Cl. 23-14.5.
- Brown, Harrison S., and G. T. Seaborg, to United States of America, Atomic Energy Commission. Method of separating uranium values, plutonium values and fission products by chlorination. 2,875,021, 2-24-59, Cl. 23-14.5.
- Brown, Harry, and J. McPherson, to Peglers Ltd. Fluid control tap. 2,893,421, 7-7-59, Cl. 137-329.3.
- Brown, Harry D. Fume hoods for laboratories. 2,885,947, 5-12-59, Cl. 98-115.
- Brown, Harry D. Multiple solution stirrer. 2,910,277, 10-27-59, Cl. 259-67.
- Brown, Harry L., to Minneapolis-Honeywell Regulator Co. Gyroscopic apparatus. 2,881,618, 4-14-59, Cl. 74-5.6.
- Brown, Harry W., to Cutler-Hammer, Inc. Electric switches. 2,908,777, 10-13-59, Cl. 200-11.
- Brown, Henry: See—  
Beeking, Donald H., Clauss, and Brown. 2,882,208.
- Weinberg, Max, and Brown. 2,871,550.
- Brown, Henry, to The Udylyte Corp. Metallic protective coating. 2,900,707, 8-25-59, Cl. 29-183.5.
- Brown, Henry, to The Udylyte Research Corp. Aqueous electrolytic processes. 2,913,377, 11-17-59, Cl. 204-58.
- Brown, Henry, and R. A. Fellows, to The Udylyte Research Corp. Electrodeposition of copper from an acid bath. 2,882,209, 4-14-59, Cl. 204-52.
- Brown, Henry R., Jr., to North American Aviation, Inc. Error sensing servo component. 2,878,434, 3-17-59, Cl. 318-28.
- Brown, Herbert C. Reduction of carbonyl compounds with boron hydrides. 2,874,165, 2-17-59, Cl. 260-343.6.
- Brown, Horace D., and A. R. Matzuk, to Merck & Co., Inc. S-ethyl cysteine compositions for combatting tubercle bacilli. 2,888,380, 5-26-59, Cl. 167-65.
- Brown, Howard E., to United States of America, Navy. Metering valve. 2,867,268, 1-6-59, Cl. 158-36.
- Brown, Howard S. Sander. 2,904,940, 9-22-59, Cl. 51-213.
- Brown, Hubert J.: See—  
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- Brown, Hugh M., to The Clemson Agricultural College of South Carolina. False twister. 2,908,133, 10-13-59, Cl. 57-77.4.
- Brown, Hugh M., to Clemson Agricultural College of South Carolina. Cord twister and winder. 2,914,904, 12-1-59, Cl. 57-58.65.
- Brown, Hugh S., to Briggs & Stratton Corp. Engine control. 2,908,263, 10-13-59, Cl. 123-98.
- Brown, Ivan H., and R. H. Gordon, to Gordon-Brown Co. Electromagnet and control circuit. 2,897,411, 7-28-59, Cl. 317-123.
- Brown, Ivan T., and H. H. Gordon. Ultrasonic device. 2,917,042, 12-15-59, Cl. 128-24.
- Brown, Jack A., and E. H. N. Watson, to The Fairey Aviation Co. Ltd. Gyroscopes. 2,872,822, 2-10-59, Cl. 74-5.12.
- Brown, Jack M., and E. D. Newton. Method of soldering aluminum. 2,907,104, 10-6-59, Cl. 29-488.
- Brown, James D., to Toledo Scale Corp. Table for band saws. 2,869,595, 1-20-59, Cl. 143-132.
- Brown, James E. Hood spring tool. 2,885,769, 5-12-59, Cl. 29-227.
- Brown, James L.: See—  
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- Brown, James R., Jr., and J. D. Wallace. Automatic impedance plotter. 2,919,399, 12-29-59, Cl. 324-57.



- Brown, James W.: *See*—  
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- Brown, James W., to Esso Research and Engineering Co. Hydrocarbon oil conversion process. 2,879,221, 3-24-59, Cl. 208—53.
- Brown, James W., to Esso Research and Engineering Co. Fluid coking process. 2,893,946, 7-7-59, Cl. 208—100.
- Brown, James W., to Esso Research and Engineering Co. Conversion of hydrocarbons. 2,906,690, 9-29-59, Cl. 208—55.
- Brown, James W., and E. A. Destremps, to Esso Research and Engineering Co. Preliminary heating of fluid coke briquettes. 2,869,992, 1-20-59, Cl. 44—10.
- Brown, James W., and J. F. Moser, Jr., to Esso Research and Engineering Co. Fluid coking process. 2,885,348, 5-5-59, Cl. 208—102.
- Brown, James W., H. Z. Martin, and C. E. Jahnig, to Esso Research and Engineering Co. Hydrocoking of residual oils. 2,885,350, 5-5-59, Cl. 208—127.
- Brown, Jerome E.: *See*—  
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- Brown, Jerome E., to Ethyl Corp. Antiknock compositions. 2,901,336, 8-25-59, Cl. 44—69.
- Brown, Jerome E., to Ethyl Corp. Compositions for engine operation. 2,913,413, 11-17-59, Cl. 252—49.7.
- Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Preparation of cyclopentadienyl manganese compounds. 2,868,699, 1-13-59, Cl. 202—46.
- Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Manufacture of cyclopentadienyl manganese carbonyl compounds. 2,868,700, 1-13-59, Cl. 202—56.
- Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Manufacture of cyclopentadienyl manganese compounds. 2,910,492, 10-27-59, Cl. 260—429.
- Brown, John A., to Esso Research and Engineering Co. Catalysis of phosphosulfurization reactions. 2,875,188, 2-24-59, Cl. 260—139.
- Brown, John D., to Texaco Inc. Upgrading petroleum refinery streams. 2,914,591, 11-24-59, Cl. 260—683.49.
- Brown, John F., and L. O. Hughes, to Triplex Tralliner Tool Co. Alignment of the axles of trailers. 2,877,560, 3-17-59, Cl. 33—193.
- Brown, John F., Jr.: *See*—  
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- Brown, John H., to General Dynamics Corp. Adjustable mount assembly for a cathode ray tube. 2,889,479, 6-2-59, Cl. 313—84.
- Brown, John H. Portable alarm. 2,919,318, 12-29-59, Cl. 200—61.52.
- Brown, John H., and C. J. Johnson, to Potlatch Forest Inc. Wall board construction. 2,872,712, 2-10-59, Cl. 20—15.
- Brown, John H., Jr.: *See*—  
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- Brown, John R., to The Reliance Gauge Column Co. Electrical water gauge. 2,869,368, 1-20-59, Cl. 73—304.
- Brown, John S.: *See*—  
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- Brown, John S., and A. T. Jancosek, to Standard Oil Co. Production of low cold-test oils using urea. 2,890,161, 6-9-59, Cl. 208—25.
- Brown, John W., Jr., and A. C. K. Nihlen, to Brown Flintube Co. Boiler. 2,892,451, 6-30-59, Cl. 122—149.
- Brown, Joseph A.: *See*—  
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- Brown, Joseph M.: *See*—  
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- Brown, Joseph M., W. R. Carman, and S. Zwirn, to Sterling Precision Corp. Instrument Division. Antenna pedestal mount. 2,877,459, 3-10-59, Cl. 343—75.7.
- Brown, Julius L., E. F. Shelley, and T. K. Steele, to United States of America, Army. Fuze for use on rotating artillery ammunition. 2,870,712, 1-27-59, Cl. 102—70.2.
- Brown, Julius L., S. J. Odierno, J. Schwarzschild, V. Vlasmenky and H. G. Wenig, to United States of America, Army. Grenade fuze. 2,872,866, 2-10-59, Cl. 102—64.
- Brown, Keith B., D. J. Crouse, Jr., and J. G. Moore, to United States of America, Atomic Energy Commission. Recovery of uranium values. 2,877,250, 3-10-59, Cl. 260—429.1.
- Brown, Kenneth L.: *See*—  
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- Brown, Kenneth L., and W. H. McKnight, to Union Carbide Corp. Primers for vinyl chloride resin coatings. 2,891,876, 6-23-59, Cl. 117—72.
- Brown, Kenneth N., to Yardney International Corp. Process for making porous electrodes and the like. 2,906,803, 9-29-59, Cl. 136—73.
- Brown, Kenneth R., and B. B. English, to Ferranti, Ltd. Servo control systems. 2,909,075, 10-20-59, Cl. 74—365.
- Brown, Lafayette A. Lamp base with novel decorative shade. 2,916,608, 12-8-59, Cl. 240—10.
- Brown, Laurence R., to Burroughs Corp. Gaseous glow tube circuits. 2,896,124, 7-21-59, Cl. 315—200.
- Brown, Lawrence R., to Philco Corp. Beam deflection apparatus for cathode ray tubes. 2,902,616, 9-1-59, Cl. 313—76.
- Brown, Lawrence S.: *See*—  
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- Brown, Lee V.: *See*—  
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- Brown, Lemual G. Solar operated louver apparatus. 2,917,795, 12-22-59, Cl. 20—62.
- Brown Lenox and Co. Ltd.: *See*—  
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- Brown, Leonard: *See*—  
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- Brown, Lewis J., and S. Spring to Pennsalt Chemicals Corp. Corrosion inhibition. 2,918,390, 12-22-59, Cl. 117—71.
- Brown, Lloyd H., to The Quaker Oats Co. Resinification of furfuryl alcohol and formaldehyde at high hydrogen-ion concentrations. 2,874,148, 2-17-59, Cl. 260—67.
- Brown, Lothrop L., Jr. Replaceable drill bit. 2,890,022, 6-9-59, Cl. 255—76.
- Brown, Malcolm N.: *See*—  
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- Brown, Martin J., and C. C. Cole, to Western Electric Co., Inc. High resistance continuity indicator. 2,885,661, 5-5-59, Cl. 340—282.
- Brown, Maurice H., to Oaktron Electric Co. Inductance coil and method of making such coils. 2,874,361, 2-17-59, Cl. 336—209.
- Brown, Melvin H., to Aluminum Co. of America. Removal of iron from aluminum surfaces. 2,901,334, 8-25-59, Cl. 41—42.
- Brown, Melvin H., to Aluminum Co. of America. Removal of iron from aluminum surfaces. 2,901,344, 8-25-59, Cl. 73—97.
- Brown, Meyer M. Cutter for complementary cookie components. 2,876,714, 3-10-59, Cl. 107—47.
- Brown, Morris C., and W. E. Higley, to ACF Industries, Inc. Automatic starting carburetor. 2,890,032, 6-9-59, Cl. 261—50.
- Brown, Myron J., to Westinghouse Electric Corp. Generator protective systems. 2,883,610, 4-21-59, Cl. 322—37.
- Brown, Myron J., to Westinghouse Electric Corp. Automatic generation control. 2,913,592, 11-17-59, Cl. 307—57.
- Brown, Myron J., and R. B. Squires, to Westinghouse Electric Corp. Automatic dispatching system. 2,888,575, 5-26-59, Cl. 307—57.
- Brown, Nelson M.: *See*—  
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- Brown, Norman E., and J. Dawidowicz, to Abbott Coin Counter Co., Inc. Coin sorting and counting machine. 2,886,045, 5-12-59, Cl. 133—33.
- Brown, Nueberne H., Jr.: *See*—  
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- Brown, Oliver J., Jr., and K. D. Miller, Sr., to Hanson-Van Winkle-Munning Co. Sealing rolls for tanks. 2,918,069, 12-22-59, Cl. 134—122.
- Brown, Ora A., to Joy Mfg. Co. Straight pull jar well tool. 2,903,241, 9-8-59, Cl. 253—27.
- Brown, Ora A., to Boash-Ross Tool Co. Well tool retrieving means. 2,910,124, 10-27-59, Cl. 166—98.
- Brown, Otho O. Current making and breaking attachment. 2,918,553, 12-22-59, Cl. 200—153.
- Brown, Otto. Rudder mount assembly. 2,911,935, 11-10-59, Cl. 114—165.
- Brown, Paul L.: *See*—  
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- Hyde, James E., and Brown. 2,902,507.
- Brown, Paul L., to Dow Corning Corp. Chlorosiloxanes. 2,911,427, 11-3-59, Cl. 260—448.2.
- Brown, Peter H., to Dowty Hydraulic Units Ltd., and O. Thoma. Hydraulic pumps and motors. 2,900,921, 8-25-59, Cl. 103—162.
- Brown, Ralph E., to Genisco, Inc. Rotary apparatus for testing instruments. 2,882,717, 4-21-59, Cl. 73—1.
- Brown, Ralph E., and H. N. Stautz, to Genisco, Inc. Rotary test table. 2,869,376, 1-20-59, Cl. 74—200.
- Brown, Raymond W., to Western Electric Co., Inc. Circuits for forming trains of pulses. 2,874,285, 2-17-59, Cl. 250—27.
- Brown, Richard K., to United States of America, Navy. Measurement of the velocity of sound in fluids. 2,894,595, 7-14-59, Cl. 181—5.
- Brown, Richard M.: *See*—  
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- Brown, Robert C.: *See*—  
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- Brown, Robert C., to Metal Decking Corp. Metal fastening clip. 2,908,955, 10-20-59, Cl. 24—73.
- Brown, Robert C. Aluminum panel joint. 2,918,996, 12-29-59, Cl. 189—86.
- Brown, Robert J.: *See*—  
 Van Nest, Francis H., and Brown. 2,912,824.
- Brown, Robert L.: *See*—  
 Elms, Edwin F. 2,910,751.
- Brown, Robert L. Fastener. 2,889,600, 6-9-59, Cl. 24—73.
- Brown, Robert L., and R. J. Gobeil, to E. I. du Pont de Nemours and Co. Preparation of polychlorobenzoic acids. 2,890,243, 6-9-59, Cl. 260—515.
- Brown, Robert W., to United States Rubber Co. Method of increasing the particle size of synthetic rubber latex polymerizate. 2,897,168, 7-28-59, Cl. 260—29.7.



- Brown, Roger S.: *See*—  
Miller, August L., Brown, and Rusca. 2,879,549.  
Broughan, Leslie E., and Brown. 2,880,670.  
Brougham, Leslie E., and Brown. 2,884,854.
- Brown, Roland, to Block & Anderson Ltd. Liquid supplying means for hectographic copying machines. 2,872,896, 2-10-59, Cl. 118-249.
- Brown & Root, Inc.: *See*—  
Timothy, Patrick H. 2,910,835.
- Brown, Roscoe L. Apparatus for vulcanizing ornamental trim on tire walls. 2,868,270, 1-13-59, Cl. 154-9.
- Brown, Royce N., to Allis-Chalmers Mfg. Co. Fluid flow measuring gauge. 2,872,814, 2-10-59, Cl. 73-401.
- Brown, Royden: *See*—  
Hazen, Lloyd D., and Kemnitz. 2,908,111.
- Brown, Russell J., and J. Downing, to British Celanese Ltd. Production and treatment of artificial filamentary materials. 2,895,790, 7-21-59, Cl. 18-54.
- Brown, Russell J., and J. Downing, to British Celanese Ltd. Wet spinning apparatus including filament wiping means. 2,911,674, 11-10-59, Cl. 18-8.
- Brown, Ruth Z., and B. Rosen, to Crown Cork & Seal Co., Inc. Obtaining cork acids. 2,872,464, 2-3-59, Cl. 260-419.
- Brown, Samuel A.: *See*—  
Black, Louis D., Jr., and Brown. 2,898,073.
- Brown, Samuel B. Rotary pump. 2,909,397, 10-20-59, Cl. 308-189.
- Brown, Shannon W.: *See*—  
Carlson, Gordon A., Brown, and Zettel. 2,884,309.
- Brown & Sharpe Mfg. Co.: *See*—  
Johnson, Arthur S. 2,887,065.  
Krause, August L., and Gigger. 2,914,153.
- Brown & Sharpe Turret Drilling Division, Inc.: *See*—  
Charlat, Arnold. 2,887,695.  
Charlat, Arnold. 2,887,894.
- Brown, Stanley H. Nailing jig. 2,911,022, 11-3-59, Cl. 143-1.
- Brown, Stephen S., to Jersey Production Research Co. Fluid measuring apparatus. 2,876,641, 3-10-59, Cl. 73-221.
- Brown, Stephen S., to Jersey Production Research Co. Pneumatic actuator. 2,880,755, 4-7-59, Cl. 137-620.
- Brown, Stephen S., to Jersey Production Research Co. Fluid sampler. 2,906,126, 9-29-59, Cl. 73-422.
- Brown, Theophilus, to Deere & Co. Reversible ratchet drive mechanism. Re. 24,629, 4-14-59, Cl. 275-5.
- Brown, Thomas F., to Westinghouse Electric Corp. Enclosed electric switch. 2,883,484, 4-21-59, Cl. 200-50.
- Brown, Thomas F., to Westinghouse Electric Corp. Enclosed electric switch. 2,894,083, 7-7-59, Cl. 200-50.
- Brown, Thomas G., to Reed Mfg. Co. Vise stand. 2,899,073, 8-11-59, Cl. 211-13.
- Brown, Thomas T., to Marconi's Wireless Telegraph Co. Ltd. Automatic tuning systems. 2,887,581, 5-19-59, Cl. 250-36.
- Brown, Thurman E.: *See*—  
Cox, Joseph R., and Brown. 2,886,416.
- Brown, Wallace C.: *See*—  
Norris, James C., Abel, and Brown. 2,913,543.
- Brown, Walter B.: *See*—  
Hendee, Charles F., Fine, and Brown. 2,881,325.
- Brown, Walter H., Jr., to B-I-F Industries, Inc. Open nozzle. 2,890,587, 6-16-59, Cl. 73-215.
- Brown, Walter J. Current regulating circuits for motor control. 2,885,621, 5-5-59, Cl. 318-373.
- Brown, Warren D., and D. L. Sprinkle, to Chrysler Corp. Cushion spring unit. 2,897,879, 8-4-59, Cl. 155-179.
- Brown, Wilbur E., to Libbey-Owens-Ford Glass Co. Method of changing glass composition. 2,900,264, 8-18-59, Cl. 106-47.
- Brown, William C., to Raytheon Mfg. Co. Regenerative amplifiers. 2,881,270, 4-7-59, Cl. 179-171.
- Brown, William C. Saturable transformer. 2,896,180, 7-21-59, Cl. 336-155.
- Brown, William D. Power-operated implement attachment. 2,867,921, 1-13-59, Cl. 37-42.
- Brown, William E., W. J. McVeagh, and T. H. Wallace, to Gulf Research & Development Co. Drilling fluids. 2,900,336, 8-18-59, Cl. 252-8.5.
- Brown, William H., to United Aircraft Corp. Vane retaining device. 2,872,156, 2-3-59, Cl. 253-78.
- Brown, William H., to Clauss Cutlery Co. Package opener. 2,896,318, 7-28-59, Cl. 30-2.
- Brown, William H., to Rolls-Royce Ltd. Oil coolers for engines. 2,903,244, 9-8-59, Cl. 257-128.
- Brown, William L., 3rd.: *See*—  
Morris, Robert C., and Brown. 2,903,290.
- Brown, William R., and G. A. Watson, Jr. Nesting portable frozen food display box. 2,880,596, 4-7-59, Cl. 62-246.
- Brown, William S., to United States of America. Navy. Antifogging composition for lens in gas masks. 2,889,298, 6-2-59, Cl. 260-29.6.
- Brown, William T., to International Telephone and Telegraph Corp. High speed waveguide switch. 2,917,719, 12-15-59, Cl. 333-7.
- Brown & Williamson Tobacco Corp.: *See*—  
Lauder, Walter B. 2,893,401.
- Browne, Charles M., to Libbey-Owens-Ford Glass Co. Method of removing an electrically conducting film. 2,884,313, 4-28-59, Cl. 41-43.
- Browne, Donald B., and K. E. Buckman, to General Motors Corp. Filter for filtration of fluids. 2,874,849, 2-24-59, Cl. 210-347.
- Browne, Ernest J., to Gadget-of-The-Month Club, Inc. Automatic tooth brush holder. 2,917,182, 12-15-59, Cl. 211-65.
- Browne, Eugene V., to Northrop Aircraft, Inc. Elastic control stick. 2,881,993, 4-14-59, Cl. 244-83.
- Browne, Gene C.: *See*—  
Danner, Frederick G., and Browne. 2,903,607.
- Browne, Harold L., O. C. Cookingham, and D. W. Pendleton, to Dow Corning Corp. Apparatus for compacting finely divided solids. 2,867,843, 1-13-59, Cl. 18-1.
- Browne, Kenneth A.: *See*—  
Gregory, Alfred T., and Browne. 2,908,518.
- Browne, Kenneth A., to The Chesapeake and Ohio Railway Co. Road-rail vehicle. 2,889,785, 6-9-59, Cl. 105-215.
- Browne, Kenneth A., and S. G. Guins, to The Chesapeake and Ohio Railway Co. Suspension for railway cars and the like. 2,893,326, 7-7-59, Cl. 105-4.
- Browne, Lindsay H. Pumps. 2,869,468, 1-20-59, Cl. 103-44.
- Brownell, Carl A., Jr. Method of constructing swimming pools. 2,887,759, 5-26-59, Cl. 25-155.
- Brownell, George M.: *See*—  
Lundberg, Hans T. F., Pringle, Rouleston, and Brownell. 2,897,368.
- Brownell, Harry R., to Magnetic Metals Co. Electrically energized magnetic shield. 2,907,914, 10-6-59, Cl. 315-8.
- Brownell, John R.: *See*—  
Wyatt, William K., Jr., and Brownell. 2,879,724.
- Brownell, Lloyd E. Centrifugal evaporator. 2,884,050, 4-28-59, Cl. 159-6.
- Brownell, Lloyd E., and S. A. Zieminski, to United States of America, Agriculture. Processing of sugar beets. 2,873,220, 2-10-59, Cl. 127-4.
- Brownhill, Frank D., and R. D. Van Millingen. Torquemeter. 2,894,389, 7-14-59, Cl. 73-136.
- Browning, Bert H. End to side sheet metal fitting having an opening with slits in the side. 2,874,980, 2-24-59, Cl. 285-189.
- Browning, David L. Edgewise pivoted sweep arm bender. 2,912,039, 11-10-59, Cl. 153-46.
- Browning, George, Jr., to B. G. S. Shoe Corp. Platform unit for shoes. 2,896,340, 7-28-59, Cl. 36-30.
- Browning Industries, Inc.: *See*—  
Browning, Val A. 2,900,752.  
Browning, Val A. 2,902,903.
- Browning, Irving K. Storage rack for hose and the like. 2,876,976, 3-10-59, Cl. 248-90.
- Browning, James W., 1/2 to M. B. Swanner. Trailer with elevatable chassis. 2,885,216, 5-5-59, Cl. 230-44.
- Browning Laboratories, Inc.: *See*—  
Paul, Harry P. 2,914,664.
- Browning Mfg. Co.: *See*—  
Keepers, Harry R. 2,890,592.
- Browning, Randolph M., to St. Regis Paper Co. Apparatus for manufacturing bag tubes. 2,897,730, 8-4-59, Cl. 93-20.
- Browning Research Corp.: *See*—  
Cousino, Bernard A. 2,911,215.
- Browning, Val A., to Browning Industries, Inc. Choke control device for shotgun barrels. 2,900,752, 8-25-59, Cl. 42-79.
- Browning, Val A., to Browning Industries, Inc. Cleaning device for a gas operated firearm. 2,902,903, 9-8-59, Cl. 89-191.
- Brownlee, Donald J.: *See*—  
Brownlee, George R. and D. J. 2,867,340.
- Brownlee, George R. and D. J. Bale wagons. 2,867,340, 1-6-59, Cl. 214-521.
- Brownlee, Martha A.: *See*—  
Brownlee, Russell, Jr. 2,891,322.
- Brownlee, Russell, Jr., deceased; M. A. Brownlee, administratrix. Periodic table teaching device. 2,891,322, 6-23-59, Cl. 35-18.
- Brownlee, William R. Controlling apparatus. 2,889,466, 6-2-59, Cl. 307-57.
- Brownson, Roy O.: *See*—  
Braun, Fred H., and Brownson. 2,889,837.
- Browner, Nelson R., to Rockwell-Standard Corp. Bearing mounting structure. 2,880,041, 3-31-59, Cl. 308-207.
- Broz, Albert F., to Idaho Maryland Mines Corp. Valve construction. 2,913,218, 11-17-59, Cl. 251-173.
- Brozowski, Vincent: *See*—  
Carr, Norman L., Brozowski, and Beber. 2,918,510.
- Brrr Products Co., Inc.: *See*—  
Joseph, John L., and Dorfman. 2,874,512.
- Brubaker, Ammon M.: *See*—  
Lux, Russell E., and Brubaker. 2,895,874.
- Brubaker, Basil: *See*—  
Bloom, John W., and Brubaker. 2,917,107.
- Brubaker Electronics, Inc.: *See*—  
Murphy, Melvin H. 2,889,515.  
Rodman, Sherwin B. 2,882,425.  
Slatten, Lester L., Jr. 2,912,601.
- Brubaker, John G., E. S. Wassel, and W. E. Reynolds, to United States of America, Army. Combined rammer and cam means for chambering cartridges in revolver-type guns. 2,900,876, 8-25-59, Cl. 89-155.
- Brubaker, Philip E.: *See*—  
Lyle, Alfred G., Brubaker, and Beyer. 2,915,388.
- Bruce, Aaron A. Piston ring construction. 2,900,213, 8-18-59, Cl. 309-46.



- Bruce, Charles R., and T. N. Williams, to British Cellophane Ltd. Solid polyethylene plastic materials. 2,886,471, 5-12-59, Cl. 117-138.8.
- Bruce, Edmond: *See—*
- Bjornson, Bjorn G., and Bruce. 2,876,285.
- Bruce, George D., to International Business Machines Corp. Modified binary counter circuit. 2,869,000, 1-13-59, Cl. 308-88.5.
- Bruce, George D., and P. F. Eckelman, to International Business Machines Corp. Binary counter with fast carry. 2,868,455, 1-13-59, Cl. 235-92.
- Bruce, George D., R. A. Henle, and J. L. Walsh, to International Business Machines Corp. Transistor logical circuit. 2,888,578, 5-26-59, Cl. 307-88.5.
- Bruce, George D., and R. A. Henle, to International Business Machines Corp. Switching circuits employing junction transistors. 2,891,172, 6-16-59, Cl. 307-88.5.
- Bruce, George D., Jr., to International Business Machines Corp. Register zero test. 2,905,383, 9-22-59, Cl. 235-174.
- Bruce, James H., Sr., to Rochester Machine Corp. Method for forging. 2,878,562, 3-24-59, Cl. 29-552.4.
- Bruce, John M., Jr.: *See—*
- Anderson, Arthur W., Bruce, Merckling, and Truett. 2,905,645.
- Bruce, John M., Jr., to E. I. du Pont de Nemours and Co. Ethylene polymerization using a solid catalyst. 2,909,512, 10-20-59, Cl. 260-94.9.
- Bruce, John N.: *See—*
- Di Mattia, Samuel P., and Bruce. 2,908,294.
- Bruce Molded Plastics, Inc.: *See—*
- Louik, Leonard, and Marks. 2,913,080.
- Bruce, William F.: *See—*
- Szabo, Joseph L., and Bruce. 2,868,833.
- Szabo, Joseph L., and Bruce. 2,876,236.
- Bruch, Frank F., to U. S. Slicing Machine Co., Inc. Stationary table for meat and bone saws. 2,884,028, 4-28-59, Cl. 143-132.
- Bruch, Frank F., to U. S. Slicing Machine Co., Inc. Saw blade scraper for meat and bone saws. 2,884,029, 4-28-59, Cl. 143-158.
- Bruch, Walter, and K. Hecker, to Telefunken G.m.b.H. Television receiver fine tuning indicator. 2,904,630, 9-15-59, Cl. 178-7.5.
- Bruck, George, W. R. Harter, and S. C. Vandoch, to Avco Mfg. Corp. Transverter. 2,883,539, 4-21-59, Cl. 250-36.
- Bruck, George, and W. G. Zinn, Jr., to Avco Mfg. Corp. Direct-coupled complementary transistor amplifier. 2,885,498, 5-5-59, Cl. 179-171.
- Bruck, George, J. A. Higgins, and J. W. Ward, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,890,392, 6-9-59, Cl. 317-149.
- Bruck, John P., to American-Lincoln Corp. Agitator for loose material distributor. 2,885,122, 5-5-59, Cl. 222-177.
- Bruck, John P., to American-Lincoln Corp. Surfacing machine. 2,893,175, 7-7-59, Cl. 51-170.
- Bruck, John P., to American-Lincoln Corp. Power surfacing means. 2,893,176, 7-7-59, Cl. 51-170.
- Bruck, John P., to American-Lincoln Corp. Surfacing machine. 2,893,177, 7-7-59, Cl. 51-170.
- Brück, Lothar: *See—*
- Lauer, Anton, and Brück. 2,876,379.
- Bruckner, Byron L.: *See—*
- Long, George B., and Bruckner. 2,877,333.
- Long, George B., and Bruckner. 2,906,111.
- Bruckner, Byron L., to General Motors Corp. Domestic appliance for washing, drying and fluffing clothes. 2,869,346, 1-20-59, Cl. 68-19.
- Bruckner, Byron L., to General Motors Corp. Wobble mechanism for fluffing clothes in a domestic appliance. 2,878,662, 3-24-59, Cl. 68-19.
- Bruckner, Byron L., to General Motors Corp. Combined clothes washing machine and dryer. 2,881,609, 4-14-59, Cl. 68-19.
- Bruckner, Byron L., to General Motors Corp. Tympanic jet washer. 2,882,706, 4-21-59, Cl. 68-23.
- Bruckner, Byron L., to General Motors Corp. Vertical support shaft for motor rotor armature and comminutor impeller disc. 2,894,698, 7-14-59, Cl. 241-257.
- Brucker, Milton, to Zenith Plastics Co. Method for metal spray molds. 2,879,196, 3-24-59, Cl. 154-110.
- Brückner, Hans, and K. Weissertel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the production of polyethylene polysulfide. 2,906,739, 9-29-59, Cl. 260-79.1.
- Bruckner, Paul, W. Capeller, A. Erk, W. Gottwald, C. W. Heyser, L. Schmitz, and H. Vedder, to Calor-Emag. Arrangement for interrupting electric currents by means of explosive material. 2,892,062, 6-23-59, Cl. 200-135.
- Bruder, Alfred: *See—*
- Haver, Fritz, Bruder, and Bahr. 2,888,961.
- Brueckenbau Flender G.m.b.H.: *See—*
- Riedel, Erich. 2,892,546.
- Wehner, Albert. 2,870,910.
- Bruecker, George B. Tilttable manure spreader with liquid retaining bottom. 2,885,209, 5-5-59, Cl. 275-6.
- Bruecker, John. Electrically operated shaver with rotary self-adjusting cutting blades. 2,867,038, 1-6-59, Cl. 30-41.5.
- Brueckmann, Helmut, to United States of America, Army. Broad band vertical antenna. 2,913,722, 11-17-59, Cl. 343-724.
- Brueckner, Hubert U., E. E. Fluskey, F. Pellar, and J. L. Ptaszek, to Rereve Camera Co. Lens grinding apparatus. 2,880,555, 4-7-59, Cl. 51-55.
- Brueckner, Paul, to A. H. Schilling. Mechanical current converters. 2,884,584, 4-28-59, Cl. 321-48.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Door operating system. 2,872,235, 2-3-59, Cl. 292-336.3.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Hydraulic servo-action system. 2,877,787, 3-17-59, Cl. 137-118.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Sliding glass. 2,878,056, 3-17-59, Cl. 296-44.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Steering correction device for vehicles. 2,884,258, 4-28-59, Cl. 280-95.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Centrifugal clutches. 2,888,121, 5-26-59, Cl. 192-105.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Fuel-injection system for spark-ignition engine. 2,888,912, 6-2-59, Cl. 123-28.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Control device for internal combustion engines. 2,895,460, 7-21-59, Cl. 123-98.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Suspension system for maintaining the level of a vehicle frame. 2,895,745, 7-21-59, Cl. 280-124.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Indicator of engine conditions in motor vehicles. 2,896,195, 7-21-59, Cl. 340-213.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Automatic speed control device for automotive vehicles. 2,897,906, 8-4-59, Cl. 180-82.1.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Induction heating devices. 2,898,430, 8-4-59, Cl. 219-10.49.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Two-stroke engines. 2,900,966, 8-25-59, Cl. 123-32.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Power steering mechanism for motor vehicles. 2,906,247, 9-29-59, Cl. 121-41.
- Brueder, Antoine, to Societe Anonyme Andre Citroen. Brake system. 2,908,359, 10-13-59, Cl. 188-106.
- Brueggeman, Leslie T., to Allis-Chalmers Mfg. Co. Lubricant seal. 2,908,176, 10-13-59, Cl. 74-280.17.
- Bruel, Per V., and C. E. Tegner. Sound absorber. 2,882,989, 4-21-59, Cl. 181-33.
- Bruemmer, Herman L. Wall panelling unit. 2,877,510, 3-17-59, Cl. 20-15.
- Brustle, Armin O., and C. B. Krekler, to The Cincinnati Mine Machinery Co. Socket-engaging cutter bits. 2,916,275, 12-8-59, Cl. 262-33.
- Brustle, Carl O., to Syncro Machine Co. Caterpillar capstan. 2,884,120, 4-28-59, Cl. 203-227.
- Bruet, Henri R., to Societe Anonyme dite: Etablissements Cazeneuve. Feeler mechanism for hydraulically operated copying machines. 2,903,232, 9-8-59, Cl. 251-3.
- Bruff, William V. H., to Elektrokemisk A/S. Arrangement for discharge of material from rotary kilns. 2,904,322, 9-15-59, Cl. 263-32.
- Brugger, Richard G., to Sperry Rand Corp. Auxiliary bearings for sensitive instruments. 2,915,902, 12-8-59, Cl. 74-5.
- Bruggmann, Albert, to Flawil Ludi & Cie. Metallwarenfabriken. Test tube closure, particularly for bacteriological purposes. 2,872,064, 2-3-59, Cl. 215-38.
- Bugidou, Gabriel. Single-pedal throttle and brake control device for automotive vehicles. 2,902,123, 9-1-59, Cl. 192-3.
- Brugmann, William H., Jr.: *See—*
- Bartlett, Jeffrey H., Brugmann, and Morway. 2,867,519.
- Brugmann, William H., Jr., H. L. Yowell, and A. R. Kittleston, to Esso Research and Engineering Co. Defoliating with compounds containing the NSCCls group. 2,873,030, 2-24-59, Cl. 71-2.5.
- Brugmann, William H., Jr., A. J. Morway, and J. H. Bartlett, to Esso Research and Engineering Co. Herbicidal composition. 2,876,089, 3-8-59, Cl. 71-2.6.
- Brugmann, William H., Jr., H. W. Rudel, and J. H. Bartlett, to Esso Research and Engineering Co. Defoliating cotton with isooctyl xanthoacetic acid. 2,903,348, 9-8-59, Cl. 71-2.1.
- Bruhn, Arne O. Film fastener for reels. 2,915,256, 12-1-59, Cl. 242-74.2.
- Bruhn, George J. Cam-closed, slidable jaw socket wrench. 2,884,826, 5-5-59, Cl. 81-128.
- Bruin, Pieter, to Shell Development Co. Epoxy ethers, their polymers and derivatives. 2,902,471, 9-1-59, Cl. 260-47.
- Bruin, Pieter, and H. A. Oosterhof, to Shell Development Co. Process for curing polyepoxides and resulting products. 2,904,531, 9-15-59, Cl. 260-47.
- Bruining, Hajo: *See—*
- Heijne, Leopold, Dorrestein, Bruining, and Schagen. 2,890,359.
- Bruining, Hajo, J. C. Francken, and P. Schagen, to North American Philips Co., Inc. Television pick-up tube. 2,869,024, 1-13-59, Cl. 315-10.
- Bruining, Hajo, P. F. A. Haans, P. P. M. Schampers, and A. J. de Rooy, to North American Philips Co., Inc. Method of manufacturing a radiation-sensitive device. 2,882,117, 4-14-59, Cl. 316-20.
- Bruins, Paul F.: *See—*
- Bieber, Harold H., Bruins, and Gregor. 2,884,387.



- Brukardt, Robert W.: *See*—  
Harnish, Don F., and Brukardt. 2,893,621.
- Brukner, John S., to The Texas Co. Drilling fluid. 2,871,189, 1-27-59, Cl. 252-8.5.
- Brukner, John S., and C. O. Walker, to The Texas Co. Drilling fluid. 2,868,726, 1-13-59, Cl. 252-8.5.
- Brule, Gerald J.: *See*—  
Porter, Leonard C., and Brule. 2,914,642.
- Brulle, Robert V. Translational propulsion pump. 2,896,545, 7-28-59, Cl. 103-143.
- Brumagin, Thomas H., to Ajax Flexible Coupling Co., Inc. Supports for mechanical vibrators. 2,894,397, 7-14-59, Cl. 74-61.
- Brumagin, Thomas H., to Ajax Flexible Coupling Co., Inc. Vibratory conveyors. 2,901,110, 8-25-59, Cl. 209-330.
- Brumbach, Robert E., to Samuel Moore & Co. Extruded tubing sheath. 2,916,055, 12-8-59, Cl. 138-87.
- Brumbaugh, Isaac V. Universal gas valve. 2,893,426, 7-7-59, Cl. 137-614.17.
- Brumbaugh, Joseph F., and A. H. Retzlaff, to United States of America, Air Force. Pulse forming circuit. 2,872,576, 2-3-59, Cl. 250-27.
- Brumbaugh, Robert M.: *See*—  
Schultheis, Eugene W., and Brumbaugh. 2,893,653.  
Selsted, Walter T., and Brumbaugh. 2,904,275.
- Brumby, Clarence P. Weight controlled self lift elevator. 2,906,374, 9-29-59, Cl. 187-17.
- Brumfield, Richard S.: *See*—  
Shanty, Frank, and Brumfield. 2,910,979.
- Brumley, Corwin H., to Bausch & Lomb Optical Co. Photogrammetric projection apparatus. 2,901,941, 9-1-59, Cl. 88-24.
- Brunner, Olin. Free floating double end annular seal. 2,912,265, 11-10-59, Cl. 286-11.14.
- Brunner Steel Co.: *See*—  
Heimbuch, Elmer F. 2,868,562.
- Brunberg, Gunnar K., and A. K. Dietsch, to Telefonaktiebolaget L M Ericsson. Electric thermocontact. 2,871,307, 1-27-59, Cl. 179-184.
- Brunberg, Karl G.: *See*—  
Svala, Carl G., and Brunberg. 2,911,479.
- Brundage, Alan D., to Indiana Commercial Filters Corp. Hold-down assemblies for filter cartridges. 2,889,933, 6-9-59, Cl. 210-54.1.
- Brundage, Alfred H. Coffee making assembly. 2,869,759, 1-20-59, Cl. 222-48.
- Brundage Co., The: *See*—  
Austin, Harold A. 2,912,195.  
Austin, Harold A., and Waldo. 2,914,316.
- Brundage, James W. Tire shaping device. 2,880,454, 4-7-59, Cl. 18-2.
- Brundage, John H.: *See*—  
Polyzou, James, and Brundage. 2,906,873.
- Brundage, Robert W. Variable volume internal chamber type hydraulic pump. 2,898,862, 8-11-59, Cl. 103-120.
- Brundell, Per G., and K. E. A. Jonsson, to Soderhamns Verkstad A. B. Log handling arrangement for debarking machines. 2,893,453, 7-7-59, Cl. 144-242.
- Brundell, Per G., and K. E. A. Jonsson, to Soderhamns Verkstad Aktiebolag. Swingable debarking tools and mounting means for such tools of a rotary-ring-type debarker. 2,903,028, 9-8-59, Cl. 144-208.
- Brun de Saint Hippolyte, Georges, and R. G. Scoazec, to Sud Est Aviation Societe Nationale de Constructions Aeronautiques. Braking device for vehicles moving at high speed over natural ground. 2,868,334, 1-13-59, Cl. 188-6.
- Brüne, Herbert, and L. Koehn. Hollow stopper for bottles, tubes or the like or artificial material, preferably polyethylene. 2,872,060, 2-3-59, Cl. 215-47.
- Brunengraber, Mates. Indicating device. 2,903,807, 9-15-59, Cl. 40-114.
- Bruner, Abram D. Automatic traction device for vehicles. 2,886,138, 5-12-59, Cl. 188-4.
- Bruner, Harold E., to Monsanto Chemical Co. Chromic salts of dithiocarbamic acids. 2,909,546, 10-20-59, Cl. 260-438.
- Bruner, Henry K.: *See*—  
Rathmann, Heinrich W., Staggers, and Bruner. 2,909,427.
- Brunes, Bengt T. Method of firing steam generators with evaporated sulphite waste liquor. 2,893,333, 7-7-59, Cl. 100-1.
- Brunfeldt, Robert J., to Phillips Petroleum Co. Molding of void-free olefin polymers using pressure, vacuum and directional cooling. 2,911,678, 11-10-59, Cl. 18-26.
- Bruni, Gaetano: *See*—  
Notarbartolo, Luigi, di Belgiojoso, and Bruni. 2,883,733.  
Wegener, Harry, Bruni, Notarbartolo, and Muench. 2,877,495.
- Bruni, Joseph L.: *See*—  
Tagliaferri, Frank P., Bruni, and Grevey. 2,887,982.
- Brunicardi, Daniel, to R. T. Moloney, deceased; American National Bank and Trust Co. of Chicago, executor of said R. T. Moloney. Relay with clamp-contact assembly. 2,896,045, 7-21-59, Cl. 200-87.
- Brunicardi, Daniel, to Comar Electric Co. Relay switch rocker means. 2,908,781, 10-13-59, Cl. 200-87.
- Bruniche-Olsen, Henning A., J. C. Wright, F. B. Price, C. R. Steele, and H. F. Silver; said Bruniche-Olsen assor. to Aktieselskabet de Danske Sukkerfabrikker, and said Wright, Price, Steele, and Silver, assors. to Silver Corp. Continuous diffuser. 2,885,311, 5-5-59, Cl. 127-45.
- Bruning, Charles, Co., Inc.: *See*—  
Robertson, Richard C. 2,906,189.  
Schulze, John J. 2,894,744.
- Brünig, Eberhard F., G. Domagk, and F. Mietzsch, to Farbenfabriken Bayer Akt. N-[anthraquinonyl-(1')]-2-amino imidazolines. 2,888,379, 5-26-59, Cl. 187-33.
- Bruninghaus, Paul, to Rheum Rheinische Werkzeug- und Metallwarenfabrik G.m.b.H. Process and device for sifting solid and liquid materials. 2,880,871, 4-7-59, Cl. 209-310.
- Brunings, Karl J.: *See*—  
Bavley, Abraham, Brunings, and Cameron. 2,876,156.
- Brunk, Willys O., to United States of America, Atomic Energy Commission. Calutron receiver. 2,906,876, 9-29-59, Cl. 250-41.9.
- Brunke, Fritz, deceased; by I. I. Brunke, nee Hecker, sole heir, to Licentia Patent-Verwaltungs G.m.b.H. Method of tempering selenium layers for selenium rectifiers and product. 2,885,309, 5-5-59, Cl. 117-200.
- Brunke, Ilse I.: *See*—  
Brunke, Fritz. 2,885,309.
- Brunkhorst, Wilhelm, E. Kern, and H. Baumann, to Badische Anilin- & Soda-Fabrik Akt. Dyeing of polyacrylonitrile and its copolymers. 2,906,588, 9-29-59, Cl. 8-55.
- Brunn, Eleanor B.: *See*—  
Brunn, Robert B. J. and E. B. 2,881,410.
- Brunn, Robert B. J., deceased; by E. B. Brunn, Executrix, to Hazeltine Research, Inc. Identity-indicating system for radio position locator. 2,881,410, 4-7-59, Cl. 340-164.
- Brunnemer, Howard D., and A. G. Mitchell. Handling and elevating device for positioning wall and ceiling board. 2,899,084, 8-11-59, Cl. 214-1.
- Brunner, Anton J.: *See*—  
Baluck, Francis M., Brunner, and Runge. 2,911,087.
- Brunner, Anton J., to Western Electric Co., Inc. Methods of and apparatus for grit blasting. 2,910,812, 11-3-59, Cl. 51-282.
- Brunner, Carl: *See*—  
Rypinski, Albert B., Smith, Brunner, and Laverty. 2,890,306.
- Brunner, Carl, to Murray Mfg. Corp. Two pole circuit breaker. 2,875,289, 2-24-59, Cl. 200-50.
- Brunner, Gottfried A. Bobbin holder. 2,873,930, 2-17-59, Cl. 242-130.2.
- Brunner, John J.: *See*—  
Mercer, John L., and Brunner. 2,919,317.
- Brunner, Maxine S.: *See*—  
Oates, Charles E., and Brunner. 2,871,657.
- Brunner, Richard J., to General Motors Corp. Carburetor idling mechanism. 2,867,422, 1-6-59, Cl. 261-23.
- Brunner, Sam W. Display for book protectors. 2,901,103, 8-25-59, Cl. 206-80.
- Bruno, Anthony, and H. Galman. Expanded scale voltmeter. 2,873,428, 2-10-59, Cl. 324-131.
- Bruno, Anthony I. Salvage pontoon. 2,870,730, 1-27-59, Cl. 114-54.
- Bruno-New York Industries Corp.: *See*—  
Strauss, Irving. 2,884,210.
- Bruno, Salvatore J. Shower enclosure. 2,911,654, 11-10-59, Cl. 4-149.
- Brunot, James: *See*—  
Rosti, Arpad, and Brunot. 2,896,950.
- Bruns, Anton C.: *See*—  
Bruns, Cecil H. and A. C. 2,904,004.
- Bruns, Carl, Werkzeugfabrik G.m.b.H.: *See*—  
Korn, Robert. 2,917,103.
- Bruns, Cecil H. and A. C. Heated livestock fountain. 2,904,004, 9-15-59, Cl. 119-73.
- Bruns, Elton W., to Stamco, Inc. Unciler with side shift control. 2,915,257, 12-1-59, Cl. 242-78.6.
- Bruns, Lloyd M. Radiator lift. 2,890,043, 6-9-59, Cl. 269-145.
- Bruns, William H., to Otis Elevator Co. Elevator control system. 2,867,292, 1-6-59, Cl. 187-29.
- Brunsdon, William E., R. E. Denzer, M. Olley, and R. Schilling, to General Motors Corp. Inflation control for air suspension. 2,908,508, 10-13-59, Cl. 280-124.
- Brunsing, Rex L. Can package. 2,903,128, 9-8-59, Cl. 206-65.
- Brunsing, Rex L. Holder for cans and multi-can package. 2,913,105, 11-17-59, Cl. 206-65.
- Brunsmann, Thomas G. Clog proof filter. 2,911,100, 11-3-59, Cl. 210-299.
- Brunson, Thayer R., to Rocky Mountain Metal Products Co. Orthodontic appliance holder. 2,883,749, 4-28-59, Cl. 32-66.
- Brunstrum, Lawrence C., to Standard Oil Co. Urea-dewaxing method for producing low cold-test oils using feed oil to decompose the formed adducts. 2,913,390, 11-17-59, Cl. 208-25.
- Brunsviga Maschinenwerke Aktiengesellschaft: *See*—  
Menge, Eberhard. 2,879,938.  
Neumann-Lezius, Hans. 2,915,244.
- Brunswick Automatic Pinsetter Corp., The: *See*—  
Huck, William F., Albrecht, and Sanford. 2,911,079.



- Brunswick-Balke-Collender Co., The:** *See*—  
 Hilliker, Frank T. 2,919,339.  
 Margetts, Hyrum R. and L. F. 2,872,192.  
 Margetts, Hyrum R. and L. F. 2,882,013.  
 Montooth, George A. 2,892,632.  
 Montooth, George A. 2,915,313.  
 Sharp, John S. 2,876,909.  
 Whipple, Jack V. H., and Odmark. 2,887,318.
- Brunswick, Charles H.:** *See*—  
 Curtis, Truman P., and Brunswick. 2,869,086.
- Brunton, Bernard.** Moulding plastic material. 2,909,439, 10-20-59, Cl. 106-93.
- Brunton, Don L.,  $\frac{1}{2}$  to J. T. Weatherly,  $\frac{1}{2}$  to R. F. Bills,  $\frac{1}{2}$  to M. W. Grey, and  $\frac{1}{2}$  to F. P. Cawley.** Spectacle hearing aid mounting. 2,915,598, 12-1-59, Cl. 179-107.
- Brunton, Veryl G.:** *See*—  
 Harty, Hershel A., Dallman, and Brunton. 2,878,926.  
 Brusadelli, Giulio, to Developement Textile Societe Anonyme (Detesta). Rectilinear loom. 2,893,440, 7-7-59, Cl. 139-28.
- Bruscaglioni, Raffaello, to Filotecnica Salmoiraghi S.p.A.** Dumpy level with automatic device for the horizontal setting of the axis of collimation. 2,890,616, 6-16-59, Cl. 88-2.3.
- Bruscaglioni, Raffaello, to Filotecnica Salmoiraghi S.p.A.** Device for mounting graduated circles of theodolites. 2,916,826, 12-8-59, Cl. 33-46.
- Brush, Walton E.:** *See*—  
 Fraser, William M., and Brush. 2,871,150.
- Bruson, Herman A., and J. Rockett, to Olin Mathieson Chemical Corp.** Organic acid and process therefor. 2,894,010, 7-7-59, Cl. 260-404.
- Brust, Harry F., to The Dow Chemical Co.** Haloaryloxy lower alkyl ester of boric acid. 2,904,578, 9-15-59, Cl. 260-462.
- Brust, Leonard P.** Article-handling device. 2,881,022, 4-7-59, Cl. 294-16.
- Brustman, Joseph A.:** *See*—  
 Nolde, George V., and Brustman. 2,918,656.
- Brutosky, Andrew J.** Shank clamp for cultivator shovel. 2,878,080, 3-17-59, Cl. 306-1.6.
- Brutting, Ludwig, to M. Fuchs Metallwarenfabrik.** Supporting stand for gyrotory toys. 2,908,108, 10-13-59, Cl. 46-66.
- Bryan, Chester L., and R. Gillis, to Western Electric Co., Inc.** Cable stranding apparatus. 2,882,676, 4-21-59, Cl. 57-138.
- Bryan, Darrel L., to Pitman Mfg. Co.** Hydraulic boom extension assembly. 2,886,005, 5-12-59, Cl. 121-38.
- Bryan, Harold E.:** *See*—  
 Lieb, Bernard L., Bryan, and Steinkamp. 2,895,087.
- Bryan, Hugh D., to Mead Johnson & Co.** Stable encapsulated solution of a salt of a dialkyl sulfosuccinate. 2,870,060, 1-20-59, Cl. 167-56.
- Bryan, James S., to Philco Corp.** Cathode ray tube systems utilizing secondary electron emission to generate indexing signals. 2,899,600, 8-11-59, Cl. 315-12.
- Bryan, James S., to Philco Corp.** Apparatus for preventing distortion in plural beam cathode ray tubes. 2,907,908, 10-6-59, Cl. 313-84.
- Bryan, Jim O.** Fish lure. 2,881,549, 4-14-59, Cl. 43-43.15.
- Bryan, Paul J., to E. I. du Pont de Nemours and Co.** Blast-initiator. 2,887,054, 5-19-59, Cl. 102-28.
- Bryan, Robert C., Jr.:** *See*—  
 Montgomery, Charles W., and Bryan. 2,895,941.
- Bryan, Wilbur L.:** *See*—  
 Bartels, Charles R., Bryan, and Berk. 2,868,779.
- Bryan, William P.:** *See*—  
 De Ridder, Gysbert F., and Bryan. 2,895,895.
- Bryant, Austin U., to Walworth Co.** Orifice fitting. 2,873,086, 2-10-59, Cl. 251-282.
- Bryant, Austin U., to Walworth Co.** Valve construction. 2,882,009, 4-14-59, Cl. 251-172.
- Bryant, Austin U., to Walworth Co.** Flow control valve. 2,882,010, 4-14-59, Cl. 251-306.
- Bryant, Austin U., to Walworth Co.** Valve construction. 2,885,176, 5-5-59, Cl. 251-172.
- Bryant, Austin U., to Walworth Co.** Valve construction. 2,889,134, 6-2-59, Cl. 251-172.
- Bryant, Austin U., to Walworth Co.** Valve construction. 2,895,495, 7-21-59, Cl. 137-315.
- Bryant, Austin U., to Walworth Co.** Valve body construction. 2,904,306, 9-15-59, Cl. 251-367.
- Bryant Chucking Grinder Co.:** *See*—  
 Lillie, Gordon E. 2,895,264.  
 Ljunggren, Thor H. 2,877,606.  
 Maker, Paul. 2,897,638.  
 Smith, Joseph E., Jr. 2,911,956.
- Bryant, Corwin W., to Crane Co.** Auxiliary valve operating mechanism. 2,881,784, 4-14-59, Cl. 137-246.13.
- Bryant, Edmond V.** Safety emblem. 2,880,535, 4-7-59, Cl. 40-125.
- Bryant, Edwin F., to Sunkist Growers, Inc.** Polyuronic acid choline-metal salts. 2,871,236, 1-27-59, Cl. 260-209.
- Bryant Electric Co., The:** *See*—  
 Bromley, Arthur E. 2,913,698.  
 Greninger, Elias G. 2,877,490.  
 Smith, Clarence M. 2,890,265.  
 Smith, Clarence M. 2,899,524.  
 Smith, Clarence M., and Bromley. 2,915,736.  
 Taylor, Owen L. 2,867,700.  
 Taylor, Owen L. 2,881,279.  
 Taylor, Owen L. 2,894,103.  
 Taylor, Owen L. 2,896,051.  
 Taylor, Owen L. 2,915,735.  
 Taylor, Owen L., and Smith. 2,870,290.
- Bryant, Jack R.:** *See*—  
 McNaught, John P., and Bryant. 2,897,155.
- Bryant, James G.** Corn sheller having an aspirator conduit. 2,898,921, 8-11-59, Cl. 130-6.
- Bryant, James L., to Ross Engineering of Canada Ltd.** Vapor confining air curtain for paper machines. 2,908,212, 10-13-59, Cl. 98-36.
- Bryant, John H.:** *See*—  
 Wing, Arthur K., Jr., and Bryant. 2,894,168.
- Bryant, John H., A. G. Peifer, and R. W. Wilmarth, to International Telephone and Telegraph Corp.** R-F coupling arrangements for traveling wave tubes. 2,894,227, 7-7-59, Cl. 333-97.
- Bryant, John J.** Rotary wiper. 2,884,656, 5-5-59, Cl. 15-250.
- Bryant, John M.:** *See*—  
 Cunningham, George L., Bryant, and Gause. 2,874,024.
- Bryant, Lanell:** *See*—  
 Lehman, John F. 2,908,047.
- Bryant, Louis D., to Columbia-Southern Chemical Corp.** Fertilizer composition containing calcium silicate. 2,903,349, 9-8-59, Cl. 71-82.
- Bryant, Waldo G., to The Bead Chain Mfg. Co.** Curtain. 2,884,054, 4-28-59, Cl. 160-332.
- Bryce Berger Ltd.:** *See*—  
 Emerson, Reginald S. 2,898,100.  
 Emerson, Reginald S. 2,905,457.
- Bryce, Robert C., and F. Kahn.** Temperature control system for a storage water heater. 2,913,182, 11-17-59, Cl. 236-21.
- Bryden, Joseph E., to The General Electric Co. Ltd.** Frequency control of electric oscillation generators. 2,877,349, 3-10-59, Cl. 250-36.
- Bryden, Joseph E., to The General Electric Co. Ltd.** Scatter radiation communication system using bursts of radio frequency energy. 2,895,128, 7-14-59, Cl. 343-203.
- Bryden, Joseph E., F. C. Flint, H. D. Hyamson, and G. F. Small, to The General Electric Co. Ltd.** Frequency control system. 2,882,401, 4-14-59, Cl. 250-36.
- Bryen, Thomas T.** Method and apparatus for treating gas-filled tubes. 2,884,298, 4-28-59, Cl. 316-2.
- Bryer, Morris:** *See*—  
 Harris, Norman, and Bryer. 2,903,963.
- Bryner, Fred:** *See*—  
 Dietzler, Andrew J., and Bryner. 2,872,489.
- Bryner, Joseph S., to United States of America, Atomic Energy Commission.** Formation of intermetallic compound dispersions. 2,915,445, 12-1-59, Cl. 204-154.2.
- Brzowski, Harry S.** Container clamp for liquid mixing apparatus. 2,894,309, 7-14-59, Cl. 24-263.
- Brzozowski, Witold B.** Vaporizing type oil burner. 2,867,270, 1-6-59, Cl. 258-76.
- Bub, Robert A.:** *See*—  
 Evans, Robert B., and Bub. 2,911,064.
- Bub, Robert A., and J. J. Summers, to Mine Safety Appliances Co.** Hose stiffener. 2,881,804, 4-14-59, Cl. 138-61.
- Bubar, Julia G.** Holder for steel wool or the like. 2,888,699, 6-2-59, Cl. 15-209.
- Bube, Richard H., and S. M. Thomsen, to Radco Corp. of America.** Single crystal photoconducting photocells and methods of preparation thereof. 2,916,678, 12-8-59, Cl. 317-237.
- Bubel, William E.:** *See*—  
 Cremer, William C., and Bubel. 2,881,724.
- Bubniak, William C., to General Motors Corp.** Regenerator and seal therefor. 2,893,699, 7-7-59, Cl. 257-6.
- Bubniak, William C., and P. T. Vickers, to General Motors Corp.** Rotary regenerator seal. 2,888,248, 5-26-59, Cl. 257-6.
- Buc, Saul R.:** *See*—  
 Mosby, William L., and Buc. 2,884,448.
- Buc, Saul R., to General Aniline & Film Corp.** Process for making acylated leucomethylene blue. 2,909,520, 10-20-59, Cl. 260-243.
- Bucalo, Louis, to Specialties, Inc.** Angular speed reducing mechanism. 2,875,646, 3-3-59, Cl. 74-798.
- Bucaria, Laurence J.:** *See*—  
 Brooks, Paul A., and Bucaria. 2,877,917.
- Buccasio, Nicholas A.** Hose holder for a vacuum cleaner. 2,913,755, 11-24-59, Cl. 15-323.
- Bucci, Anthony, Jr.:** *See*—  
 Bucci, Mark A. and A., Jr. 2,878,963.
- Bucci, James A.:** *See*—  
 Brennen, Ronald F., and Bucci. 2,907,945.  
 Brennen, Ronald F., and Bucci. 2,910,660.  
 Brennen, Ronald F., and Bucci. 2,914,260.  
 Brennen, Ronald F., and Bucci. 2,917,618.
- Bucci, Mark A. and A., Jr.** Cigarette dispenser. 2,878,963, 3-24-59, Cl. 221-190.



- Buccione, Dario, to Bucciconi Engineering Co., Inc. Piler mechanism for metal sheets. 2,893,573, 7-7-59, Cl. 214-6.
- Buccione, Dario, to Bucciconi Engineering Co., Inc. Metal sheet handling apparatus. 2,897,952, 8-4-59, Cl. 198-41.
- Buccione, Dario, to Bucciconi Engineering Co., Inc. Mechanism for stagger piling of metal sheets. 2,918,852, 12-29-59, Cl. 93-93.
- Bucciconi Engineering Co., Inc.: See—
- Buccione, Dario. 2,893,573.
- Buccione, Dario. 2,897,952.
- Bucciconi, Dario. 2,918,852.
- Buccini, Columbus J., to Olin Mathieson Chemical Corp. Control device. 2,918,548, 12-22-59, Cl. 200-91.
- Bucek, Hans: See—
- Berghaus, Bernhard, and Bucek. 2,884,511.
- Bucek, Hans, to Elektrophysikalische Anstalt Bernhard Berghaus. Leading-in insulators for electric glow discharge receptacles. 2,906,911, 9-29-59, Cl. 313-219.
- Bucek, Hans, to Elektrophysikalische Anstalt, Bernhard Berghaus. Process and apparatus for the treatment of ferrous articles. 2,916,409, 12-8-59, Cl. 148-10.
- Buchanan, David L., to The Budd Co. Compartment enclosure structure. 2,882,835, 4-21-59, Cl. 105-314.
- Buchanan, David M., to Union Carbide Corp. Anode frame. 2,872,406, 2-3-59, Cl. 204-295.
- Buchanan Electrical Products Corp.: See—
- Ustin, George. 2,870,239.
- Ustin, George. 2,872,505.
- Buchanan, Leslie B. M., to Westinghouse Electric Corp. Door operator. 2,910,290, 10-27-59, Cl. 268-65.
- Buchanan, Robert A. Sequence indicator. 2,903,685, 9-8-59, Cl. 340-334.
- Bucheimer, George R., and A. J. Kippen. Holsters. 2,917-213, 12-15-59, Cl. 224-2.
- Buchele, Wesley F. Method of threshing grain. 2,906,270, 9-29-59, Cl. 130-27.
- Buchen, Joseph C., to Leslie Salt Co. Sifter device and means for attaching sifter and other plastic members to flat sheet members or cartons. 2,916,191, 12-8-59, Cl. 222-555.
- Buchhold, Theodor A., to Sperry Rand Corp. Ford Instrument Co. Division. Magnetic amplifier. 2,897,296, 7-28-59, Cl. 179-171.
- Buchholz, Arnold R., to Brandt Automatic Cashier Co. Coin delivery chute. 2,888,124, 5-26-59, Cl. 193-31.
- Buchholz, Arnold R., and F. Haban, to Brandt Automatic Cashier Co. Coin changer apparatus. 2,893,406, 7-7-59, Cl. 133-2.
- Buchholz, Heinz: See—
- Zeunert, Fritz, and Buchholz. 2,887,914.
- Buchholz, Karl, to Badische Anilin- & Soda-Fabrik Akt. Process of manufacturing expandable granules of a polyvinyl compound. 2,888,410, 5-26-59, Cl. 260-2.5.
- Buchholz, Willi: See—
- Detert, Ernst-Rolf, and Buchholz. 2,893,400.
- Büchi, Alfred. Air bypass or surge control for supercharged internal combustion engines. 2,888,799, 6-2-59, Cl. 60-13.
- Buchi, Alfred. Impeller for centrifugal blowers or pumps. 2,908,223, 10-13-59, Cl. 103-115.
- Buchi, Alfred J. Turbo-compressor rotor assemblies. 2,912,155, 11-10-59, Cl. 230-116.
- Buchkremer, Josef, H. Bolton, P. Lutz, and T. Wistuba, to America Enka Corp. Method for producing reinforced sponge. 2,913,772, 11-24-59, Cl. 18-59.
- Buchler & Co.: See—
- Becker, Josef, Scheer, and Egelhaaf. 2,917,041.
- Buchler, Joseph. Device for fractionated extraction using more than two solvents. 2,903,342, 9-8-59, Cl. 23-270.5.
- Buchler, Joseph. Device for the fractionation of three-phase mixtures. 2,892,688, 6-30-59, Cl. 23-270.5.
- Buchman, Harry. Folding guest rack. 2,893,767, 7-7-59, Cl. 287-96.
- Buchmann, Fred J.: See—
- Kimberlin, Charles N., Jr., and Buchmann. 2,898,289.
- Steffen, Frederick W., Kimberlin, Buchmann, and Voorhies. 2,908,636.
- Buchmann, Fred J., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Method of producing hydrogen and carbon black. 2,885,267, 5-5-59, Cl. 23-212.
- Buchmann, Gerhard, and R. Karolus, to International Standard Electric Corp. Condenser loudspeaker. 2,872,532, 2-3-59, Cl. 179-111.
- Buchner, Karl, to Ruhrchemie Aktiengesellschaft. Regeneration of cobalt sulfate-containing catalyst solutions. 2,899-395, 8-11-59, Cl. 252-411.
- Buchner, Karl, and H. Schwarz, to Ruhrchemie Akt. Working up of distillation fractions containing alcohols and hydrocarbons. 2,871,249, 1-27-59, Cl. 260-413.
- Büchner, Karl, J. Meis, and O. Roelen, to Ruhrchemie Akt. Dicyclopentadien derivatives. 2,879,299, 3-24-59, Cl. 260-598.
- Buchner, Karl, J. Meis, and O. Roelen, to Ruhrchemie Akt. Di-tricyclodecane (5,2,1,0<sup>2,4</sup>) - 8,8' - ether - 4,4' - dicarboxylic acid. 2,881,208, 4-7-59, Cl. 260-514.
- Büchner, Karl, and J. Meis, to Ruhrchemie Aktiengesellschaft. Purification of oxo aldehydes. 2,905,716, 9-22-59, Cl. 260-601.
- Buchtenkirch, Arthur J., to North Atlantic Industries, Inc. Rotary magnetic actuators. 2,872,627, 2-3-59, Cl. 317-197.
- Buchtenkirch, Arthur J., to North Atlantic Industries, Inc. Rotary magnetic actuators. 2,872,628, 2-3-59, Cl. 317-197.
- Buck, Allen C., and J. P. Sermattei, to E. I. du Pont de Nemours and Co. Solder-free cemented body-seamed sheet metal container and method of fabricating the same. 2,876,725, 3-10-59, Cl. 113-120.
- Buck, Cecil S., to Adolph Coors Co. Packaging machine. 2,917,882, 12-22-59, Cl. 53-159.
- Buck, Charles E., to General Motors Corp. Coordinator for windshield washer and wipers. 2,886,720, 5-12-59, Cl. 310-19.
- Buck, Chauncey M. Differential control system for water pumps. 2,888,875, 6-2-59, Cl. 103-11.
- Buck, Clyde D. Heating stove using various kinds of fuel. 2,898,904, 8-11-59, Cl. 126-110.
- Buck, David B. Pressure and magnetic key blank for locks. 2,888,817, 6-2-59, Cl. 70-413.
- Buck, Edwin N.: See—
- McNeil, Clyde L., and Buck. 2,902,115.
- Buck, Eugene W. Pneumatic magnetic drill support. 2,876,663, 3-10-59, Cl. 77-6.
- Buck, Henry M.: See—
- Rumble, Robert C., and Buck. 2,890,405.
- Rumble, Robert C., and Buck. 2,915,739.
- Buck, Henry M., to Jersey Production Research Co. Pressure measuring device. 2,906,120, 9-29-59, Cl. 73-151.
- Buck, James R.: See—
- Buck, Russell E. and J. R. 2,903,268.
- Buck, Russell E. and J. R. 2,905,477.
- Leighton, Charles R., and Buck. 2,916,863.
- Buck, James R., to Becton, Dickinson and Co. Medical assembly and unit for liquid transfer. 2,893,395, 7-7-59, Cl. 128-349.
- Buck, Richard S., to United Aircraft Corp. Self-stabilized burner. 2,867,977, 1-13-59, Cl. 60-35.6.
- Buck, Russell E. and J. R., to Buck Tool Co. Dust proof chuck. 2,903,268, 9-8-59, Cl. 279-123.
- Buck, Russell E. and J. R., to Buck Tool Co. Chuck. 2,905,477, 9-22-59, Cl. 279-123.
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- Buck Tool Co.: See—
- Buck, Russell E. and J. R. 2,903,268.
- Buck, Russell E. and J. R. 2,905,477.
- Buck, Willard E. Method and apparatus for cooling and lubricating gas turbine bearings. 2,886,285, 5-12-59, Cl. 253-39.1.
- Buck, William B., to Phillips Petroleum Co. Hydraulically operable reciprocating motor driven swage for restoring collapsed pipe. 2,877,822, 3-17-59, Cl. 153-80.5.
- Buckbee, John A., and V. V. Terzian, to Raytheon Mfg. Co. Scan register single gun control systems. 2,871,403, 1-27-59, Cl. 315-21.
- Buckels, Christopher C. Electrical connection boxes. 2,870,931, 1-27-59, Cl. 220-3.6.
- Buckels, Christopher C. Electrical outlet box. 2,875,914, 3-3-59, Cl. 220-3.6.
- Buckels, Christopher C. Multiple position outlet box. 2,875,915, 3-3-59, Cl. 220-3.7.
- Buckeye Cellulose Corp., The: See—
- Kelley, Thomas H. 2,877,249.
- Rogers, Linwood N., Heath, Gutliph, and Hiatt. 2,878,118.
- Rowe, Stewart, and Nugent. 2,887,395.
- Schmitt, Robert O. 2,878,275.
- Buckeye Coal Co., The: See—
- Mitchell, David R., and O'Brien. 2,912,109.
- Buckeye Corp., The: See—
- Bailey, Ralph K. 2,917,867.
- Buckeye Iron & Brass Works: See—
- Denlinger, Carl E. 2,867,249.
- Rike, Frederick F., and Klikunas. 2,867,228.
- Buckeye Steel Castings Co., The: See—
- Furniss, Loree E. 2,875,906.
- Furniss, Loree E. 2,881,927.
- Furniss, Loree E. 2,899,083.
- McClurg, Carl D. 2,880,887.
- McClurg, Carl D. 2,893,572.
- McClurg, Carl D. 2,895,727.
- Mills, William A. 2,869,938.
- Settles, James C. 2,887,071.
- Settles, James C. 2,900,181.
- Settles, James C., and Heimberger. 2,875,731.
- Wolfe, Harry H. 2,869,736.
- Buckeye Tools Corp.: See—
- Linsker, Eugene. 2,893,272.
- Buckham, James A.: See—
- Lemon, Ralph B., and Buckham. 2,872,296.
- Buckholdt, Robert E., to E. H. Kendall. Burn-in attachment for maintaining rotary furnace hearths. 2,879,051, 3-24-59, Cl. 263-28.
- Buckhout, Donald H., Jr.: See—
- Merickel, George M., Buckhout, and Moser. 2,906,531.
- Buckingham, Howard B., and J. B. Camp, to United States Steel Corp. Safety system for ground conductor of trailing cable. 2,880,377, 3-31-59, Cl. 317-18.
- Buckingham, John S., to United States of America, Atomic Energy Commission. Preparation of uranium trioxide. 2,903,334, 9-8-59, Cl. 23-14.5.



- Buckingham, John S., and J. L. Carroll, to United States of America, Atomic Energy Commission. Uranium decontamination. 2,918,350, 12-22-59, Cl. 23-14.5.
- Buckingham, Marshall F. Diaper button. 2,869,202, 1-20-59, Cl. 24-110.
- Buckingham, William D., to The Western Union Telegraph Co. Facsimile telegraph scanning apparatus. 2,903,512, 9-8-59, Cl. 178-7.1.
- Buckingham, William D., and R. C. Aldridge, to The Western Union Telegraph Co. Tungsten concentrated arc lamp. 2,882,434, 4-14-59, Cl. 313-213.
- Buckingham, William D., G. H. Ridge, L. D. Root, and F. T. Turner, to The Western Union Telegraph Co. Facsimile transmitter for telegraph message blanks and the like. 2,894,066, 7-7-59, Cl. 178-7.1.
- Buckle, Lewis V., to McGraw-Edison Co. Electrical conductor and process for making same. 2,896,102, 7-21-59, Cl. 310-213.
- Buckley, Duer H. Cap for soil pipe clean-outs. 2,893,590, 7-7-59, Cl. 220-39.
- Buckley, Edwin G., and H. E. Crompton, to Kelvin & Hughes Ltd. Pendulous optical reference instrument. 2,876,672, 3-10-59, Cl. 88-1.
- Buckley, Gloria C.: See—  
Rubin, Leon J., and Buckley. 2,894,005.
- Buckley, James. Plasterer's tool. 2,906,114, 9-29-59, Cl. 72-136.
- Buckley, Jay S., Jr., C. R. Stephens, Jr., and R. L. Wagner, Jr., to Chas. Pfizer & Co., Inc. Non-hygroscopic antibiotic salt. 2,867,661, 1-6-59, Cl. 260-559.
- Buckman, Kenneth E.: See—  
Browne, Donald B., and Buckman. 2,874,849.
- Buckman, Kenneth E., to General Motors Corp. Fluid filters. 2,903,136, 9-8-59, Cl. 210-483.
- Buckman, Kenneth E., to General Motors Corp. Filter elements. 2,908,350, 10-13-59, Cl. 183-44.
- Buckman Laboratories, Inc.: See—  
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- Buckman, Stanley J., J. D. Pera, and J. W. Appling, to Buckman Laboratories, Inc. Processes for the control of slime-forming and other microorganisms and compositions for use therefor. 2,881,071, 4-7-59, Cl. 92-3.
- Buckmann John P., to Union Oil Co. of California. Automotive fuel. 2,887,368, 5-19-59, Cl. 44-69.
- Buckmann, John P., to Union Oil Co. of California. Extreme pressure lubricating oils. 2,918,433, 12-22-59, Cl. 252-55.
- Bucknell, Ernest H.: See—  
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- Buckner, Jewell A. Boat hoist. 2,902,184, 9-1-59, Cl. 214-392.
- Buckwalter, Frank H., to Bristol Laboratories Inc. Aspirin-modified coconut oil liquid suspensions. 2,916,416, 12-8-59, Cl. 167-55.
- Bucyrus-Erie Co.: See—  
Thornburg Herbert W. 2,869,826.  
Wink, Fredrick W. 2,914,305.
- Buczowski, Frank E. Radius and ellipse dresser for grinding wheels. 2,870,761, 1-27-59, Cl. 125-11.
- Bud Pal I Gacs, and E. Theisz, to Egyesult Izzolampra es Villamosagi Reszvenyarsasag. Gas-filled electric incandescent lamp. 2,891,189, 6-16-59, Cl. 313-226.
- Budd Co., The: See—  
Argentin, Lou F. 2,876,333.  
Bozenka, Joseph. 2,883,153.  
Buchanan, David L. 2,882,835.  
Dean, Robert P. 2,905,123.  
Dean, Walter B. 2,880,013.  
Dean, Walter B. 2,882,703.  
Dean, Walter B. 2,882,836.  
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Dean, Walter B., and Russell-French. 2,883,179.  
Eksergian, Carolus. 2,879,718.  
Eksergian, Carolus L., and Buyze. 2,888,102.  
Fabian, Robert W., and Sienczyk. 2,884,319.  
Halberstadt, Charles C. 2,901,126.  
Herbert, Thomas M. 2,904,961.  
Lindsay, Alexander R. 2,901,266.  
Murphy, Goodrich K. 2,914,001.  
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Stacy, Robert G. 2,901,059.  
Watter, Michael, and Eggert. 2,901,590.  
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- Budd, Joseph H., to Textron, Inc. Chain saw for cutting brush and small trees. Re. 2,458,8, 1-13-59, Cl. 143-32.
- Budd, Larry J., to Pallet Devices, Inc. Apparatus handling means. 2,888,222, 5-26-59, Cl. 248-120.
- Budd, Larry J., to Pallet Devices, Inc. Means for supporting apparatus for shipment. 2,895,661, 7-21-59, Cl. 229-14.
- Budd, Larry J., to Pallet Devices, Inc. Apparatus handling structure. 2,914,232, 11-24-59, Cl. 229-14.
- Budd, Larry J., to Pallet Devices, Inc. Leg structure for pallet. 2,914,282, 11-24-59, Cl. 248-120.
- Budd, Marshall M. Emergency road flag. 2,887,983, 5-26-59, Cl. 116-63.
- Budd, Robert E., to The Lawrence Paper Co. Construction forms. 2,892,238, 6-30-59, Cl. 25-131.5.
- Budd, Wilbert H.: See—  
Arisman, Mervin B., Budd, and Daily. 2,871,325.
- Budd, Wilbert H., to Chicago Telephone Supply Corp. Multiple variable resistance control with common snap-in mounting. 2,871,324, 1-27-59, Cl. 201-55.
- Budd, Wilbert H., H. F. Christner, Jr., W. A. Barden, J. L. Kehres, and A. M. Daily, to Chicago Telephone Supply Corp. Preset type variable resistor. 2,871,328, 1-27-59, Cl. 201-62.
- Budd, Wilbert H., and H. L. Slough, to Chicago Telephone Supply Corp. Tandem electrical control instrumentality. 2,874,255, 2-17-59, Cl. 201-55.
- Budd, Wilbert H., and A. M. Daily, to Chicago Telephone Supply Corp. Concentric tandem variable resistance control. 2,883,500, 4-21-59, Cl. 201-55.
- Budd, Wilbert H., and A. M. Daily, to Chicago Telephone Supply Corp. Hermetically sealed variable resistor. 2,917,720, 12-15-59, Cl. 338-154.
- Budde, William J. Photographic enlarger. 2,895,378, 7-21-59, Cl. 88-24.
- Buddeberg, Walter, and P. M. F. H. Nebel, to Firma Krauss-Maffei Akt. Process and apparatus for clarifying and degussing a carbonation sludge. 2,899,342, 8-11-59, Cl. 127-56.
- Buddecke, Heinrich. Coiling head for yarn packs. 2,882,673, 4-21-59, Cl. 57-1.
- Buddecke, Heinrich. Method and means for reeling of yarn. 2,889,610, 6-9-59, Cl. 28-21.
- Buddingh, Cornelius and M. J. Weeder. 2,912,055, 11-10-59, Cl. 172-526.
- Buddingh, Marinus J.: See—  
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- Budenholzer, Roland A., and F. J. Olmer, to Armour Research Foundation of Illinois Institute of Technology. Heat-releasing anti-cicing means. 2,918,052, 12-22-59, Cl. 126-263.
- Budewitz, Eugene P., to The Sherwin-Williams Co. Medium for emulsion polymerization of ethylenically unsaturated monomers and method therefor and composition therefrom. 2,892,802, 6-30-59, Cl. 260-17.
- Budge, George H., and C. A. Odermatt, to United Products Co. Sheet metal take-off pipe fitting. 2,878,838, 3-24-59, Cl. 138-74.
- Budininkas, Pranas, to General American Transportation Corp. Processes of regenerating chemical nickel plating solutions. 2,886,451, 5-12-59, Cl. 106-1.
- Budney, Henry S.: See—  
Budney, Michael P., H. S., and T. W., and Saczawa. 2,905,027.  
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- Budney, Michael P., H. S., and T. W., and M. F. Saczawa, to Atlantic Machine Tool Works, Inc. Jig borer having auxiliary transmission and improved elevating mechanism. 2,905,027, 9-22-59, Cl. 77-4.
- Budney, Michael P., H. S. and T. W., and M. F. Saczawa, to Atlantic Machine Tools Works, Inc. Milling adapter head. 2,911,885, 11-10-59, Cl. 90-11.
- Budney, Thaddeus W.: See—  
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- Budnick, Arno A., to Schiess Akt. Method of and machine for making gears. 2,882,799, 4-21-59, Cl. 90-1.6.
- Budwig, Gilbert G. Valve. 2,872,152, 2-3-59, Cl. 251-75.
- Budzich, Tadeusz, to The New York Air Brake Co. Piston. 2,880,042, 3-31-59, Cl. 309-1.
- Budzich, Tadeusz, to The New York Air Brake Co. Pump. 2,915,985, 12-8-59, Cl. 103-162.
- Budzilek, Alfonso E.: See—  
Glover, William S., West, Roush, and Budzilek. 2,917,197.
- Budzyna, Joseph M., to Draper Corp. Shuttle binder. 2,898,946, 8-11-59, Cl. 139-186.
- Budzyna, Joseph M., to Draper Corp. Picker stick check for looms. 2,915,092, 12-1-59, Cl. 139-165.
- Budzyna, Joseph M., and H. Crowther, to Draper Corp. Shuttle binder control means. 2,874,727, 2-24-59, Cl. 139-187.
- Budzyna, Walter J.: See—  
Anderson, Gordon S., and Budzyna. 2,914,093.
- Buebel, Edgar W., Jr., to Hoover Electronics Co. Radio interference eliminator. 2,905,816, 9-22-59, Cl. 250-20.
- Bueche, Arthur M.: See—  
Lawton, Elliott J., and Bueche. 2,906,678.
- Bueche, Arthur M., to General Electric Co. Process for curing organopolysiloxanes with a hydrophobic silica and product thereof. 2,914,502, 11-24-59, Cl. 260-37.
- Bueche, Walter. Method and apparatus for the fractional distillation of multicomponent mixtures. 2,890,155, 6-9-59, Cl. 202-64.
- Büchli, Hermann, to Heyl & Co. Chemisch-pharmazeutische Fabrik. Recovery of vitamin B<sub>12</sub>. 2,909,518, 10-20-59, Cl. 260-211.5.
- Buechler, Paul W. Composite salad bowl. 2,906,427, 9-29-59, Cl. 220-23.83.
- Buechler, William R., to General Electric Co. Basket mounting arrangement for laundry machine. 2,873,599, 2-17-59, Cl. 68-24.



- Buechler, William R., to General Electric Co. Clothes washer with an improved adjustable water level control system. 2,896,436, 7-28-59, Cl. 68-12.
- Buechler, William R., to General Electric Co. Rinsing agent dispenser for clothes washing machine. 2,899,814, 8-18-59, Cl. 68-12.
- Buechting, Earl. Pipe positioning tools. 2,919,108, 12-29-59, Cl. 254-139.1.
- Buecker, Carl H., to The Magnavox Co. Dual action solenoid. 2,887,623, 5-19-59, Cl. 317-123.
- Buecker, Carl H., to The Magnavox Co. Bomb arming control device. 2,891,447, 6-23-59, Cl. 89-1.5.
- Buegeleisen, Joseph. Co.: See—  
Zbikowski, Ted. 2,903,297.
- Buehl, Russell C., to Crucible Steel Co. of America. Electrode regulators for arc melting furnaces. 2,915,572, 12-1-59, Cl. 13-13.
- Buehler, Arthur: See—  
Brassel, Jakob, and Buehler. 2,906,746.
- Buehrer, Leon, Jr., to The Creamery Package Mfg. Co. Refrigerant condensing unit. 2,911,801, 11-10-59, Cl. 62-305.
- Buehrle, John V.: See—  
Buehrle, Victor E., Jr., Adrien, and Buehrle. 2,909,250.
- Buehrle, Victor E., Jr., W. J. Adrien, and J. V. Buehrle; said V. E. Buehrle, Jr., assor. of  $\frac{3}{4}$  to K. D. and M. B. Romo, and  $\frac{1}{2}$  to M. and F. L. Taylor. Automobile brake slack adjusting apparatus. 2,909,250, 10-20-59, Cl. 188-196.
- Buell, Bennett G.: See—  
Long, Robert S., and Buell. 2,893,986.  
Long, Robert S., and Buell. 2,894,003.
- Buell, Charles K., to Phillips Petroleum Co. Method for coating pipe with plastic from solution. 2,881,093, 4-7-59, Cl. 117-94.
- Buell, Charles K., to Phillips Petroleum Co. Fractional crystallization process. 2,881,230, 4-7-59, Cl. 260-674.
- Buell, Ernest H. Lubricating cooling and oil sealing system for counter rotating engines. 2,871,982, 2-3-59, Cl. 184-6.
- Buell, Roy D. Fluid powdered horn. 2,918,895, 12-29-59, Cl. 116-142.
- Buelow, John A.: See—  
Brink, Raymond J., and Buelow. 2,867,859.
- Buelow, John A., to Designware Industries, Inc. Device for mounting sheet material on a wall. 2,900,750, 8-25-59, Cl. 40-152.1.
- Buelow, John A. Glazing tool. 2,902,713, 9-8-59, Cl. 18-3.5.
- Buensod-Stacey, Inc.: See—  
Busch, Charles R. 2,903,096.  
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Kreutner, Joseph W. 2,880,743.  
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- Buergel, Georg: See—  
Wise, Lester V., Mann, and Buergel. 2,895,612.
- Buerger, Rodney G., and J. K. Hovind, to The National Gypsum Co. Laminated gypsum core-board. 2,884,779, 5-5-59, Cl. 72-16.
- Buff, Bern F., to National Zinc Co., Inc. Ore cooling apparatus. 2,891,320, 6-23-59, Cl. 34-57.
- Buffalo Brake Beam Co.: See—  
Busch, Charles R. 2,869,683.  
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Waterfall, Robert W. 2,894,375.  
Werder, Ernest A. 2,890,716.  
Werder, Ernest A. 2,890,717.
- Buffalo Eye-Bank and Research Society Inc.: See—  
Albrecht, Joseph A. 2,880,856.
- Buffalo Forge Co.: See—  
Jorgensen, Robert. 2,884,228.
- Buffalo, Oscar T. Body relaxing lounge chair. 2,884,923, 5-5-59, Cl. 128-57.
- Buffet, Jean, and J. Meriaux, to Comptoir Industriel d'Etrirage et Profilage de Metaux. Lubrication in the hot extrusion of metals. 2,893,555, 7-7-59, Cl. 207-10.
- Buffington, Malcolm R., to Minnesota Mining and Mfg. Co. Process for creaming perfluorohalolefin polymers with alginate creaming agents and composition resulting therefrom. 2,878,196, 3-17-59, Cl. 260-17.4.
- Bugbee & Niles Co.: See—  
Chisholm, Alpin. 2,871,556.
- Bugbee, Stuart J., V. F. Hanson, and D. F. Babcock, to United States of America, Atomic Energy Commission. Reactor monitoring. 2,872,400, 2-3-59, Cl. 204-193.2.
- Bugbee, Wallace F.: See—  
Baer, Charles A., Bugbee, and Clough. 2,887,419.
- Bugbee, Wallace F., and R. M. Boehme, to National Research Corp. Vaporized metal coating apparatus. 2,879,739, 3-31-59, Cl. 118-49.
- Bugbee, Wallace F., and P. J. Clough, to National Research Corp. Process for producing aluminum-coated black iron strip. 2,906,641, 9-29-59, Cl. 117-50.
- Bugbird, Herbert C. Apparatus for cleaning leaves from high gutters. 2,896,239, 7-28-59, Cl. 15-144.
- Bugel, Roelof D., to North American Philips Co., Inc. Miniature electrolytic capacitors. 2,885,607, 5-5-59, Cl. 317-230.
- Bugel, Thomas E.: See—  
Mazzucchelli, Arthur P., Bugel, and Rosenthal. 2,909,752.
- Bugg, Kenly C., to Kendrick Mfg. Co., Inc. Coil constructions. 2,872,652, 2-3-59, Cl. 336-180.
- Bugg, Kenly C., to Kendrick Mfg. Co., Inc. Electrical transformers. 2,885,646, 5-5-59, Cl. 336-221.
- Bugg, Kenly C., to Kendrick Mfg. Co., Inc. Precision potentiometer. 2,886,680, 5-12-59, Cl. 201-48.
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- Bugg, Kenly C., to Kendrick Mfg. Co., Inc. Casing for variable impedance electrical component. 2,915,727, 12-1-59, Cl. 338-184.
- Bugge, Erling P. Safety-lock door chain. 2,867,468, 1-6-59, Cl. 292-264.
- Bugge, Erling P. Fish lure. 2,907,131, 10-6-59, Cl. 43-42.22.
- Bugosh, John, to E. I. du Pont de Nemours and Co. Fibrous alumina monohydrate and its production. 2,915,475, 12-1-59, Cl. 252-313.
- Bugosh, John, to E. I. du Pont de Nemours and Co. Felted products and processes containing fibrous boehmite. 2,917,426, 12-15-59, Cl. 162-145.
- Buhler, Walter C., to United States of America, Navy. Toroidal airfoil parachute. 2,898,061, 8-4-59, Cl. 244-145.
- Buhr, August G., to Allis-Chalmers Mfg. Co. Grain drill dual feed boot structure with separating device. 2,869,489, 1-20-59, Cl. 111-80.
- Bühr, Erich, and P. Wellner. Polishing apparatus. 2,897,633, 8-4-59, Cl. 51-7.
- Buhr Machine Tool Co.: See—  
Zajac, Michael, and Wisnicki. 2,905,015.
- Bühren, Walter: See—  
Buschmann, Walter, and Bühren. 2,869,246.
- Buhrendorf, Frederick G., to Bell Telephone Laboratories, Inc. Magnetic storage circuit. 2,882,518, 4-14-59, Cl. 340-174.
- Buhrendorf, Frederick G., to Bell Telephone Laboratories, Inc. Clutch for driving apparatus. 2,909,257, 10-20-59, Cl. 192-105.
- Bührer, Erwin. Attachment for moulding machines with mechanically driven intermittently rotating turntable. 2,869,193, 1-20-59, Cl. 22-21.
- Bührer, Erwin. System for producing moulds of foundry machinery with two or more mould forming stations. 2,873,490, 2-17-59, Cl. 22-21.
- Bührer, Erwin. Moulding machine for the jolting, squeezing or simultaneous jolting and squeezing of moulds. 2,892,223, 6-30-59, Cl. 22-43.
- Buhrer, Erwin. Foundry mold with sectional match plates of different sizes. 2,894,299, 7-14-59, Cl. 22-157.
- Buhrer, Erwin. System for discharging stacked granular material. 2,902,189, 9-1-59, Cl. 222-199.
- Bührer, Erwin, and W. Goetz. Process and means for casting system for operating pouring ladles. 2,892,225, 6-30-59, Cl. 22-82.
- Buie, James L., to Hoffman Electronics Corp. Temperature-compensated direct current transistor amplifier. 2,867,695, 1-6-59, Cl. 179-171.
- Buie, James L., and G. H. De Witz, to Hoffman Electronics Corp. Telemetering apparatus. 2,919,437, 12-29-59, Cl. 340-208.
- Builders Equipment Co.: See—  
Thomas, Paul M. 2,869,737.  
Thomas, Paul M. 2,902,182.  
Thomas, Paul M., and Wright. 2,896,800.
- Buisson, Pierre. System for measuring small displacements of a body along three co-ordinate axes. 2,892,152, 6-23-59, Cl. 324-61.
- Bujan, Albert F., to Abbott Laboratories. Closure. 2,908,274, 10-13-59, Cl. 128-272.
- Buker, Edward, to Coach & Car Equipment Co. Horizontal line strainer. 2,915,188, 12-1-59, Cl. 210-447.
- Bukosky, James R.: See—  
Nordquist, Richard A., Miller, Bukosky, and Lindgren. 2,889,450.  
Nordquist, Richard A., Miller, Bukosky, and Lindgren. 2,898,685.
- Bulan, Edward P.: See—  
Saubestre, Edward B., and Bulan. 2,900,313.
- Bulan, Edward P., to Sylvania Electric Products Inc. Etchant. 2,872,302, 2-3-59, Cl. 41-42.
- Bulatkin, Iliya F., to Crown Cork & Seal Co., Inc. Method of sanitizing carbonated beverage bottle fillers. 2,916,406, 12-8-59, Cl. 134-22.
- Buley, Theodore L.: See—  
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- Bull, Almond D. Soil coring apparatus. 2,868,019, 1-13-59, Cl. 73-421.
- Bull, Almond D. Coring tube cleaner. 2,881,933, 4-14-59, Cl. 214-310.
- Bull, Douglas T., and A. A. Lobanoff, to General Motors Corp. Grommets, bushings and the like. 2,897,533, 8-4-59, Cl. 16-2.
- Bull, Glen C. Corrosion inhibiting method and apparatus. 2,914,377, 11-24-59, Cl. 21-2.5.
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- Bull, Lucile S.: *See*—  
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- Bull, Willard C., J. H. Cain, R. J. Spomer, H. L. Finkbeiner, Jr., and R. W. Hill, to Spencer Chemical Co. Diphenylzinc-titanium tetrachloride polymerization initiator and process. 2,911,399, 11-3-59, Cl. 260-93.7.
- Bull, Willard C., J. H. Cain, R. J. Spomer, H. L. Finkbeiner, Jr., and R. W. Hill, to Spencer Chemical Co. Diaryl-cadmium-titanium tetrachloride polymerization initiator and process. 2,911,400, 11-3-59, Cl. 260-94.9.
- Bull, Willard C., J. H. Cain, R. J. Spomer, H. L. Finkbeiner, Jr., and R. W. Hill, to Spencer Chemical Co. Di-alpha-naphthylzinc-titanium tetrachloride polymerization initiator and process. 2,911,401, 11-3-59, Cl. 260-94.9.
- Bullard, Arthur M.: *See*—  
Arrington, Bradford L., and Bullard. 2,897,829.
- Bullard Co., The: *See*—  
Bullard, Edward C., and Grinage. 2,890,298.  
Ettorre, James E. 2,893,280.  
Grinage, Claude M. 2,887,268.  
Grinage, Claude M. 2,887,906.  
Lomazzo, Edmund J. 2,900,860.  
Zeletzky, Franz A., and Phillips. 2,900,843.
- Bullard, E. D., Co.: *See*—  
Evans, Charles S. 2,878,477.  
Ruggiero, Alfred J. 2,895,136.  
Ruggiero, Alfred J. 2,904,790.
- Bullard, Edward C., and C. M. Grinage, to The Bullard Co. Pendant switch. 2,890,298, 6-9-59, Cl. 200-18.
- Bullard, Edward P., III, to United Aircraft Corp. Indexing units. 2,916,950, 12-15-59, Cl. 74-821.
- Bullard, George P. Cooling means for vehicle motors. 2,867,996, 1-13-59, Cl. 62-243.
- Bullard, Richard L., and K. D. Erdman, to Standard Coil Products Co., Inc. Sweep generator having electromagnetically driven tuning element. 2,913,674, 11-17-59, Cl. 331-178.
- Buller, Charles W. Fish hook disgorgers. 2,897,626, 8-4-59, Cl. 43-53.5.
- Bullinger, Eugen: *See*—  
Binder, Hans, and Bullinger. 2,877,262.
- Bullinger, Henry W.: *See*—  
Matthysse, Irving F., and Bullinger. 2,903,539.
- Bullock, Austin L., W. A. Reeves, and J. D. Guthrie, to United States of America, Agriculture. Methylol-phosphorus modified epoxy resins. 2,916,473, 12-8-59, Cl. 260-47.
- Bullock, Earle C., to Steelcase, Inc. Anchor bar means for joining metal furniture tops. 2,906,574, 9-29-59, Cl. 311-4.
- Bullock, Edwin I. Folding table with spring lock. 2,879,119, 3-24-59, Cl. 311-87.
- Bullock, Mark W., and J. B. Sainton, to Continental Electronics Mfg. Co. Modulator-regulator circuit. 2,918,631, 12-22-59, Cl. 332-64.
- Bullock, Milton W., to American Cyanamid Co. Process for the preparation of dithiaacyclopentylaliphatic acids. 2,872,455, 2-3-59, Cl. 260-327.
- Bullock, Milton W., to American Cyanamid Co. Octanoic acid esters and method of preparing the same. 2,894,965, 7-14-59, Cl. 260-408.
- Bullock, Milton W., and J. J. Hand, to American Cyanamid Co. Process of preparing 2-oxoadipic acid. 2,883,420, 4-21-59, Cl. 260-483.
- Bullock, Milton W., and J. J. Hand, to American Cyanamid Co. Pyrolysis of substituted carbonyloxyalkyl halides. 2,901,506, 8-25-59, Cl. 260-488.
- Bullock, Norman J.: *See*—  
Geyer, Howard M., Bullock, and Light. 2,879,746.
- Bullock, Oakle P. Automobile air cooler. Re. 2,745, 12-8-59, Cl. 62-236.
- Bulloff, Jack J.: *See*—  
Novak, Leo J., and Bulloff. 2,905,711.  
Sohnen, Louis C., and Bulloff. 2,913,418.
- Bulloff, Jack J., to Interstate Sanitation Co., Inc. Porous containers for thickened air odor control liquids. 2,871,526, 2-3-59, Cl. 21-108.
- Bulloff, Jack J., to The Commonwealth Engineering Co. of Ohio. Process of cleaning and coating aluminum. 2,898,230, 8-4-59, Cl. 117-50.
- Bulloff, Jack J., to The Commonwealth Engineering Co. of Ohio. Metal diethyl gas plating. 2,898,235, 8-4-59, Cl. 117-107.
- Bulloff, Jack J., to Interstate Sanitation Co., Inc. Air odor control liquids. 2,905,591, 9-22-59, Cl. 167-94.
- Bulman Corp., The: *See*—  
Greenman, Orval L. 2,910,740.
- Bulman, E. O. Mfg. Co., Inc., The: *See*—  
Waltz, Edward. 2,878,980.
- Bulman, George P.: *See*—  
Halford, Frank B., Cleaver, and Preece. 2,887,456.  
Halford, Frank B., and Snell. 2,880,577.
- Bulman, Norman: *See*—  
Francis, Charles E., and Bulman. 2,894,910.
- Bulone, Joseph D., to General Motors Corp. Ice block releasing and storing unit. 2,916,895, 12-15-59, Cl. 69-344.
- Bulova, Arde, D. H. Anderson, and M. D. Schleifer, to Bulova Watch Co., Inc. Electric shavers with means tensioning the grill arcuately. 2,890,522, 6-16-59, Cl. 30-43.
- Bulova, Arde, and C. Punzmann, to Bulova Watch Co., Inc. Electric shavers having blade guiding means. 2,890,523, 6-16-59, Cl. 30-43.
- Bulova Research and Development Laboratories, Inc.: *See*—  
Fischer, Franz, and Viasmensky. 2,909,978.  
Fischer, Franz L., and Wernli. 2,871,706.  
Goddard, George W. 2,895,393.  
Hirsh, Stanley A. 2,906,235.  
Wise, Lester V., Mann, and Buerge. 2,895,612.
- Bulova Watch Co. Inc.: *See*—  
Bulova, Arde, Anderson, and Schleifer. 2,890,522.  
Bulova, Arde, and Punzmann. 2,890,523.  
Fachon, Emil E. 2,871,654.  
Hetzel, Max. 2,888,582.  
Hetzel, Max. 2,900,786.  
Hetzel, Max. 2,908,174.  
Schleifer, Morton D. 2,903,789.  
Schlenker, Arthur. 2,913,869.
- Bulow, Carl L., to Bridgeport Brass Co. Anti-biofouling copper-base alloy. 2,887,374, 5-19-59, Cl. 75-157.
- Bulow, Carl L., to Bridgeport Brass Co. Anti-biofouling copper-base alloy. 2,887,375, 5-19-59, Cl. 75-157.5.
- Buman, Donald W.: *See*—  
Buman, Ralph G., D. W., and J. J. 2,877,057.
- Buman, Joseph J.: *See*—  
Buman, Ralph G., D. W., and J. J. 2,877,057.  
Buman, Ralph G., D. W., and J. J. Ensilage loader. 2,877,057, 3-10-59, Cl. 302-56.
- Bunce, Dean S., to Perfect Circle Corp. Valve stem seal. 2,906,255, 9-29-59, Cl. 123-188.
- Bunch, Tillman T., to Western Electric Co., Inc. Strand reeling apparatus. 2,868,468, 1-13-59, Cl. 242-25.
- Bunch, Tillman T., to Western Electric Co., Inc. Article handling apparatus. 2,899,142, 8-11-59, Cl. 242-25.
- Bunch, Tillman T., to Western Electric Co., Inc. Apparatus for automatically balancing rotating masses. 2,902,883, 9-8-59, Cl. 74-573.
- Bunch, Tillman T., to Western Electric Co., Inc. Apparatus for wrapping strand material helically about an advancing core. 2,910,822, 11-3-59, Cl. 57-18.
- Bunch, Tillman T., to Western Electric Co., Inc. Strand twisting apparatus. 2,910,823, 11-3-59, Cl. 57-58.52.
- Bunder-Glas G.m.b.H.: *See*—  
Hennings, Werner. 2,889,951.
- Bundschuh, Harry H. Raised doughnut making machine. 2,905,110, 9-22-59, Cl. 107-14.
- Bundy Tubing Co.: *See*—  
Etzler, Elmer E. 2,897,805.  
Knox, David R., and Gondek. 2,876,823.  
Knox, David R., and Gondek. 2,918,100.
- Bundy, Willard S., to Barium and Chemicals, Inc. Liquefaction of antimony sulfide. 2,890,102, 6-9-59, Cl. 23-136.
- Bungardt, Karl: *See*—  
Becker, Gottfried, Bungardt, and Lange. 2,875,112.
- Bungardt, Walter, to New Process Metals, Inc. Pyrophoric flints. 2,908,071, 10-13-59, Cl. 29-191.4.
- Bungay, George W., to Electrographic Corp. Backing electro-types. 2,909,818, 10-27-59, Cl. 22-58.
- Bunge, Otto: *See*—  
Schurich, Herbert, and Bunge. 2,904,978.
- Bunge, Wilhelm: *See*—  
Nischk, Günther, Bunge, and Bayer. 2,868,739.  
Wilms, Hugo, Bayer, and Bunge. 2,904,532.
- Bunge, Wilhelm, K.-H. Mielke, and F. Möller, to Farbenfabriken Bayer Akt. New composition of matter and process for producing same. 2,886,555, 5-12-59, Cl. 260-63.
- Bünger, August: *See*—  
Heimberger, Helmut, and Bünger. 2,888,727.
- Bunger, Dennen J., and H. Troeger, to Bendix Aviation Corp. Starter jaw advancing mechanism. 2,882,734, 4-21-59, Cl. 74-7.
- Bungeroth, Adolf, K. G. Speith, and H. Schrewe, to Mannesmann Akt. Continuous casting plants. 2,895,190, 7-21-59, Cl. 22-57.2.
- Buningh, Weigert C.: *See*—  
Ten Have, Cornelis D., Buningh, Le Nobel, Pieters, and Lower. 2,893,954.
- Bunn, B. H., Co.: *See*—  
Bunn, Benjamin H. 2,873,664.  
Bunn, Benjamin H. 2,898,847.
- Bunn, Benjamin H., to B. H. Bunn Co. Bundle tying machine. 2,873,664, 2-17-59, Cl. 100-27.
- Bunn, Benjamin H., to B. H. Bunn Co. Tying machine. 2,898,847, 8-11-59, Cl. 100-4.
- Bunnell, Earl C., to The Baird Machine Co. Apparatus for forming threads in sheet metal shells. 2,908,318, 10-13-59, Cl. 153-72.
- Bunnell, Raymond H.: *See*—  
Bauernfeind, Jacob C., and Bunnell. 2,916,385.
- Bunnell, William S., to Boyar-Schultz Corp. Deep drilling attachment. 2,869,402, 1-20-59, Cl. 77-32.3.
- Bunnelle, Philip R.: *See*—  
Allen, James R., Kress, and Bunnelle. 2,892,312.
- Bunte, Joseph H. Travel case for shoes. 2,874,813, 2-24-59, Cl. 190-51.
- Buntenbach, Rudolph W., to United States of America, Atomic Energy Commission. High-speed multiple-exposure photographic apparatus. 2,871,400, 1-27-59, Cl. 315-10.
- Buntenbach, Rudolph W., to United States of America, Atomic Energy Commission. Electric pulse generator. 2,889,465, 6-2-59, Cl. 250-217.
- Buntenbach, Rudolph W., to Vitro Corp. of America. Frequency measuring and display system. 2,919,403, 12-29-59, Cl. 324-79.



- Bunting, Arthur R., to Lupear Product, Inc. Automatic tool feed. 2,887,911, 5-26-59, Cl. 77-33.4.
- Bunting Brass and Bronze Co., The; *See*—Smith, Milton F., and Latva. 2,897,097.
- Bunting Co., Inc., The; *See*—Pearlstone, Morton. 2,877,826.
- Bunting, James W., and F. H. Martin, to Courtaulds Ltd. Process controllers. 2,904,650, 9-15-59, Cl. 200-61.18.
- Bunyan, John. Surgical dressings, bandages and the like. 2,877,765, 3-17-59, Cl. 128-156.
- Buon, Georges A. Ignition circuit device. 2,888,574, 5-26-59, Cl. 307-10.
- Buono, Mario. Felling machine. 2,894,470, 7-14-59, Cl. 112-178.
- Buoys, Inc.; *See*—Dodge, Robert J. 2,894,269.
- Buquor, Adolph P. Magnetic connector. 2,903,667, 9-8-59, Cl. 339-12.
- Burbank, John E., to Cue Fastener, Inc. Apparatus for gapping slide fasteners. 2,877,844, 3-17-59, Cl. 164-47.
- Burbank, John E., to Cue Fastener, Inc. Locking-type slider for slide fasteners. 2,880,489, 4-7-59, Cl. 24-205.14.
- Burbank, John E., to Cue Fastener, Inc. Batwing slider. 2,909,824, 10-27-59, Cl. 24-205.15.
- Burbey, Chester P.; *See*—Marble, Harold A., and Burbey. 2,884,048.
- Burch, Archie E. Hitch for an agricultural tool. 2,871,961, 2-3-59, Cl. 172-255.
- Burch, Archie E. Hitch for an agricultural tool. 2,898,125, 8-4-59, Cl. 280-447.
- Burch, Co., The; *See*—Bianco, Henry J. 2,889,899.
- Bianco, Henry J. 2,898,984.
- Burch, James R., and T. H. Lee, to General Electric Co. Magnetic control apparatus. 2,882,457, 4-14-59, Cl. 317-156.
- Burch, Lewis D., to General Motors Corp. Engine. 2,898,898, 8-11-59, Cl. 123-52.
- Burch, Lyndon W., to Texas Instruments Inc. Switch mechanism. 2,899,512, 8-11-59, Cl. 200-67.
- Burch, Oscar G., to Owens-Illinois Glass Co. Method of forming hollow plastic articles. 2,898,633, 8-11-59, Cl. 18-55.
- Burch, Robert L., and J. W. Larkin, Jr. Manually operable instructional device for teaching arithmetic. 2,915,834, 12-8-59, Cl. 35-33.
- Burchell, Charles K.; *See*—Charlton, Cyril B., Burchell, and Loehr. 2,898,241.
- Burchenal, Charles H., and I. Balinkin, to The Cambridge Tile Mfg. Co. Tile assembly on backing. 2,887,867, 5-26-59, Cl. 72-22.
- Burchfiel, Bruner M.; *See*—Prosser, Thomas W., and Burchfiel. 2,878,671.
- Burden, James H., to The Plessey Co. Ltd. Variable resistors and potentiometers. 2,894,238, 7-7-59, Cl. 338-174.
- Burden, Oscar. Fish lure retriever. 2,895,250, 7-21-59, Cl. 43-17.2.
- Burden, Roy B., Jr., to Pasadena Investment Co. Secondary combustion device. 2,879,862, 3-31-59, Cl. 183-6.
- Burden, Stanley W., and F. W. Meredith, to Smiths America Corp. Navigational instruments for aircraft. 2,906,127, 9-29-59, Cl. 74-5.4.
- Burdett, Henry S., to G. Stibbe & Co., Ltd. Circular knitting machines. 2,871,684, 2-3-59, Cl. 66-14.
- Burdge, Samuel W.; *See*—Nichols, Charles E., and Burdge. 2,878,704.
- Burdick Corp., The; *See*—Rasmussen, Sherrill K. 2,882,904.
- Burdick, Glenn A., to Sylvania Electric Products Inc. Method and apparatus for controlling electron beams. 2,898,493, 8-4-59, Cl. 313-77.
- Burdick, Ralph V. Jr. Combination drawer-pull and bottle opening device. 2,892,367, 6-30-59, Cl. 81-3.1.
- Burdine, Nathan T., to Socony Mobil Oil Co., Inc. Measurement of physical conditions of porous material. 2,913,658, 11-17-59, Cl. 324-5.
- Burdorf, Donald L.; *See*—Heath, Roy T., and Burdorf. 2,894,702.
- Bureau van Tongeren N. V.; *See*—Van der Kolk, Hendrik. 2,874,799.
- Van der Kolk, Hendrik. 2,874,800.
- Van der Kolk, Hendrik. 2,874,801.
- Bureau, William H.; *See*—Altmann, Norman A., and Bureau. 2,916,216.
- Altmann, Norman A., and Bureau. 2,916,412.
- Bured, Inc.; *See*—Marsh, Charles W. 2,896,386.
- Buresh, Francis M.; *See*—Langdon, Howard H., Buresh, Castor, and Marks. 2,890,497.
- Buresh, Francis M., and H. H. Langdon, to Curlator Corp. Machine for fiber cleaning. 2,876,500, 3-10-59, Cl. 19-89.
- Burg, Anton B., and P. J. Slota, Jr., to American Potash & Chemical Corp. Manufacturing phosphinoborines. 2,877,272, 3-10-59, Cl. 260-606.5.
- Burg, Anton B., and R. I. Wagner, to The University of Southern California. Phosphine borine compounds and their preparation. 2,916,518, 12-8-59, Cl. 260-606.5.
- Burg, Fred G. Machine tool having a turret head. 2,870,659, 1-27-59, Cl. 77-25.
- Burg, Fred G. Valve structure. 2,912,011, 11-10-59, Cl. 137-625.3.
- Burg, Fred G. Power feed mechanism for machine tools. 2,915,923, 12-8-59, Cl. 77-25.
- Burg, Robert J. Apparatus for making plastic bags. 2,867,156, 1-6-59, Cl. 93-8.
- Burgardt, Lothar; *See*—Pelz, Willibald, Burgardt, and Wahl. 2,895,825.
- Burgardt, Lothar, E. Reckziegel, and O. Wahl, to AGFA Akt. Process for the production of a yellow mask image in magenta-colored photographic images. 2,884,325, 4-28-59, Cl. 96-9.
- Burgdorff, Henry. Knee-action street sweeper broom. 2,875,459, 3-3-59, Cl. 15-84.
- Burgdorff, Henry. Street sweeper hopper and lift mechanism. 2,917,761, 12-22-59, Cl. 15-84.
- Burge, Richard A.; *See*—Brown, Ernest K., Dobbins, and Burge. 2,886,506.
- Burgeni, Alfred A., to Personal Products Corp. Method and apparatus for manufacturing an absorbent product. 2,905,568, 9-22-59, Cl. 117-11.
- Burger, Albert. Tape dispensers. 2,891,691, 6-23-59, Cl. 216-33.
- Burger, Alfred, to Virginia-Carolina Chemical Corp. Dialkylaminoalkyl esters of phosphonic acid and method of preparing same. 2,917,533, 12-15-59, Cl. 260-461.
- Burger Eisenwerke G.m.b.H.; *See*—Jung, Anton L. 2,906,620.
- Burger, Erich; *See*—Burger, Michael and E. 2,894,439.
- Burger, Erich. Photographic lens shutter. 2,900,888, 8-25-59, Cl. 95-63.
- Burger, Gustav F., to Radio Corp. of America. Pressure-tight seal. 2,885,227, 5-5-59, Cl. 286-1.
- Burger, Herbert. Trailer with steerable tandem axles. 2,869,888, 1-20-59, Cl. 280-81.
- Burger, John C.; *See*—Morawitz, John H., and Burger. 2,882,349.
- Burger, Joseph. Method of making a cast preparatory to making a shoe. 2,907,067, 10-6-59, Cl. 18-5.1.
- Burger, Le Roy, to Gadget-Of-The-Month Club, Inc. Adjustable drafting sectioning instrument. 2,879,597, 3-31-59, Cl. 33-81.
- Burger, Michael and E. Tractive indicator for automatic aperture controllers. 2,894,439, 7-14-59, Cl. 95-64.
- Burger, Mikulas, K. Beran, and Z. Fencel. Process for utilizing mycellium waste from the production of citric acid and for the saccharification of amylaceous raw material. 2,890,988, 6-16-59, Cl. 195-67.
- Burgert, Bill E., and H. Tolkmith, to The Dow Chemical Co. Phosphonate compounds. 2,870,190, 1-20-59, Cl. 260-461.
- Burgert, Frederick L., to Ideal Plating Co. Sewing and trimming mechanism. 2,917,013, 12-15-59, Cl. 112-127.
- Burgert, Harold E., small percentages to various assignees. Meat tester. 2,916,915, 12-15-59, Cl. 73-352.
- Burgert, Herbert A., to I G M A. G. Spring frame for the upholstery of seats and/or back rests more particularly for the seats in motor vehicles. 2,877,831, 3-17-59, Cl. 155-179.
- Burgess, Arthur A., Jr.; *See*—Jones, Herbert O., and Burgess. 2,911,816.
- Burgess, Bernard L. Tool for supporting and upsetting rivets. 2,899,852, 8-18-59, Cl. 78-53.5.
- Burgess Cellulose Co.; *See*—Eichmeier, Russell R. 2,918,399.
- Burgess, Charles R., deceased; The Royal Trust Co., and E. K. and R. E. Burgess, executors. Ignition safety system cut-out switch. 2,868,309, 1-13-59, Cl. 180-82.
- Burgess, Charles R., deceased; The Royal Trust Co., E. K. and R. E. Burgess, executors of said C. R. Burgess. Collision safety switch. 2,872,495, 2-3-59, Cl. 123-146.5.
- Burgess, Cyril A., to British Telecommunications Research Ltd. Bridge networks. 2,880,396, 3-31-59, Cl. 333-11.
- Burgess, Edward G., Jr.; *See*—Newell, William H., Burgess, Zabb, and Frangoulis. 2,888,195.
- Newell, William H., Burgess, Zabb, and Frangoulis. 2,888,203.
- Burgess, Edward S. Coaxial cable switch. 2,897,313, 7-28-59, Cl. 200-87.
- Burgess, Elizabeth K.; *See*—Burgess, Charles R. 2,868,309.
- Burgess, Charles R. 2,872,495.
- Burgess, Emory C. Roll-carrying typewriter attachment. 2,908,371, 10-13-59, Cl. 197-133.
- Burgess, Leslie G., and W. H. Gee, to General Motors Corp. Silencer for pulsating gaseous currents. 2,902,109, 9-1-59, Cl. 181-53.
- Burgess, Leslie M. Evaporative cooling system. 2,913,883, 11-24-59, Cl. 62-121.
- Burgess, Louis; *See*—Tour, Sam. 2,907,637.
- Burgess, Louis, deceased; S. Tour, M. Burgess, and E. B. Beitler, executors. Process of producing carbides. 2,869,990, 1-20-59, Cl. 23-208.
- Burgess, Louis, deceased; M. Burgess and E. B. Beitler, executors, to S. Tour and himself. Process of winning elemental phosphorus. 2,897,057, 7-28-55, Cl. 23-223.
- Burgess-Manning Co.; *See*—Baran, Joseph G. 2,887,564.
- Baran, Joseph G. 2,887,565.
- Melas, Adalbert. 2,876,740.
- Melas, Adalbert. 2,877,336.



- Burgess, Murray: *See*—  
 Burgess, Louis. 2,869,990.  
 Burgess, Louis. 2,897,057.  
 Tour. Sam. 2,907,637.
- Burgess Products Co. Ltd.: *See*—  
 Holden, Brian A. 2,898,428.
- Burgess, Ralph E.: *See*—  
 Burgess, Charles R. 2,868,309.  
 Burgess, Charles R. 2,872,495.
- Burgess, Robert W., C. G. Baehr, and C. Curello, to The Greist Mfg. Co. Decorative stitchers. 2,907,290, 10-6-59, Cl. 112-160.
- Burgess, Thomas J., and F. G. Ridgers, to N. Slater Co. Ltd. Hangers for transmission cables. 2,879,963, 3-31-59, Cl. 248-63.
- Burgess-Manning Co.: *See*—  
 Hoyle, Robert L. 2,912,062.
- Burgett, Monte I., Jr., to Philco Corp. Multiple-signal modulation system. 2,908,749, 10-13-59, Cl. 178-54.
- Burgher, Maurice W., to Bendix Aviation Corp. Electrical apparatus. 2,913,696, 11-17-59, Cl. 339-26.
- Burgin, Albert E. Toy for simulating the ejection of a pilot parachuting from a jet airship. 2,878,615, 3-24-59, Cl. 46-86.
- Burin, Kermit H. Two piece garage door. 2,893,482, 7-7-59, Cl. 160-191.
- Burgiss, Walter F., to Chatham Mfg. Co. Stop motion system for looms and the like. 2,906,298, 9-29-59, Cl. 139-353.
- Burgman, Leo C. Track pin and bushing seal. 2,906,562, 9-29-59, Cl. 305-10.
- Burgmer, Josef. Apparatus for the assembly and finishing of sets of duplicating forms. 2,869,864, 1-20-59, Cl. 270-52.
- Burgon, George A.: *See*—  
 Mitchell, Curtis C., and Burgon. 2,915,919.
- Burgon, William J., and P. Zenczak. Process of separating a crude composition obtained from bark into its component parts. 2,880,216, 3-31-59, Cl. 260-397.25.
- Burgon, William J., and P. Zenczak. Methods of processing and refining crude chemical fractions obtained from bark. 2,891,046, 6-16-59, Cl. 260-124.
- Burgoyne, Harris G. Machine for dispensing beverages. 2,878,968, 3-24-59, Cl. 222-129.1.
- Burgus, Warren H., to United States of America, Atomic Energy Commission. Recovery of cesium from waste solutions. 2,892,880, 6-30-59, Cl. 23-25.
- Burgy, Raymond A.: *See*—  
 Borden, Joseph H., and Burgy. 2,875,853.  
 Borden, Joseph H., and Burgy. 2,889,010.
- Burhans, Ralph W., to The Standard Oil Co. Fuel testing apparatus. 2,888,822, 6-2-59, Cl. 73-35.
- Buri, Alfred, to Sulzer Freres, Societe Anonyme. Forced flow steam generating system. 2,881,741, 4-14-59, Cl. 122-33.
- Buri, Alfred, to Sulzer Freres, Societe Anonyme. Steam power plant. 2,884,760, 5-5-59, Cl. 60-73.
- Buri, Alfred, to Sulzer Freres S. A. Steam power plant having a forced flow steam generator. 2,900,792, 8-25-59, Cl. 60-67.
- Buri, Alfred, to Sulzer Freres, Societe Anonyme. Condensing steam heated boiler feed water heating system including a condensate operated turbine. 2,900,793, 8-25-59, Cl. 60-107.
- Buri, Alfred, to Sulzer Freres, Societe Anonyme. System for starting and temporarily taking the load off a steam power plant having multistage reheating. 2,901,887, 9-1-59, Cl. 60-73.
- Buri, Alfred, to Sulzer Freres, Societe Anonyme. Valve mechanism. 2,908,477, 10-13-59, Cl. 251-14.
- Buri, Alfred, to Sulzer Freres, Societe Anonyme. Plunger pump for hot liquids. 2,910,007, 10-27-59, Cl. 103-153.
- Burion, Etienne P. Twin-piston machine working according to a two-stroke cycle for producing compressed fluids. 2,902,207, 9-1-59, Cl. 230-56.
- Burk, Earl E. Mattress extension. 2,883,683, 4-28-59, Cl. 5-345.
- Burk, Marvin C.: *See*—  
 Fluegel, Dale A., and Burk. 2,886,710.
- Burk, Marvin C., and D. A. Fluegel, to Phillips Petroleum Co. Noise thermometers. 2,884,786, 5-5-59, Cl. 73-359.
- Burkard, Ralph F.: *See*—  
 Lilienfeld, Julius E. 2,884,575.
- Burkart, F., Mfg. Co.: *See*—  
 Burkart, Harry J. 2,882,939.
- Burkart, Harry J., to F. Burkart Mfg. Co. Embedded spring cushion construction. 2,882,939, 4-21-59, Cl. 155-179.
- Burke, Ambrose. Sound reproducer. 2,897,291, 7-28-59, Cl. 179-115.5.
- Burke, Donald J., to Erico Products, Inc. Exothermic reaction mixture and method of cast welding a copper base alloy utilizing same. 2,870,499, 1-27-59, Cl. 22-205.
- Burke, Donald J., to Erico Products, Inc. Cast welding apparatus. 2,887,743, 5-26-59, Cl. 22-116.
- Burke, Donald J., to Erico Products, Inc. Cast welding apparatus. 2,904,862, 9-22-59, Cl. 22-116.
- Burke, Donald J., to Erico Products, Inc. Plastic molding machine. 2,917,773, 12-22-59, Cl. 18-5.
- Burke, Earl J., to Sprague Electric Co. Non-slip friction drive. 2,896,572, 7-28-59, Cl. 118-420.
- Burke, Edward A.: *See*—  
 Thomas, Robert D., and Burke. 2,916,626.
- Burke, George F. C.: *See*—  
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- Burke, George F. C., to United Shoe Machinery Corp. Mechanisms for applying rod cement. 2,905,142, 9-22-59, Cl. 118-411.
- Burke, George F. C., to United Shoe Machinery Corp. String tag attaching devices. 2,911,928, 11-10-59, Cl. 112-104.
- Burke, George K., to R. K. Laros. Venoclysis equipment. 2,907,325, 10-6-59, Cl. 128-214.
- Burke, Gus V., to Gus' Tackle Co., Inc. Triggered fish pole holder. 2,908,099, 10-13-59, Cl. 43-16.
- Burke, J. E., Co. The: *See*—  
 Burke, John E. 2,911,687.
- Burke, Jeanette E. Stitching guide and holding attachment for sewing machines. 2,876,721, 3-10-59, Cl. 112-148.
- Burke, Jerry A., Jr., to Experiment Inc. Drafting instrument. 2,908,081, 10-13-59, Cl. 33-107.
- Burke, John E., to The J. E. Burke Co. Pre-fabricated metal stage. 2,911,687, 11-10-59, Cl. 20-123.
- Burke, John T., Jr., to National Aluminate Corp. Corrosion reduction. 2,901,439, 8-25-59, Cl. 252-389.
- Burke, Joseph M., to General Motors Corp. Coupler operating device. 2,885,095, 5-5-59, Cl. 213-166.
- Burke, Kenneth R., to Koppers Co., Inc. Process for the prevention of tar still corrosion. 2,901,424, 8-25-59, Cl. 208-348.
- Burke, Peter F. C.: *See*—  
 Rogers, Douglas C., and Burke. 2,890,371.
- Burke, Robert E. Detachable flag pole bracket. 2,914,278, 11-24-59, Cl. 248-42.
- Burke, William J. Safety latch for hinges. 2,878,510, 3-24-59, Cl. 16-144.
- Burke, William O., to National Lock Co. Hinge assembly for cabinets and the like. 2,911,667, 11-10-59, Cl. 16-190.
- Burkhalter, Robert R., and P. J. Mazziotti, to Dana Corp. Midship bearing support. 2,897,023, 7-28-59, Cl. 308-184.
- Burkhard, Charles A., to General Electric Co. Synthetic resin and insulated electrical conductor. 2,894,934, 7-14-59, Cl. 260-75.
- Burkhard, Charles A., to General Electric Co. Resinous materials plasticized with a methoxybenzene dicarboxylic acid ester. 2,902,382, 9-1-59, Cl. 106-181.
- Burkhard, Charles A., to General Electric Co. Linear polyesters. 2,902,469, 9-1-59, Cl. 260-47.
- Burkhard, Charles A., to General Electric Co. Linear polyamide resins. 2,902,475, 9-1-59, Cl. 260-78.
- Burkhard, Charles A. and J. F. Brown, Jr., to General Electric Co. Method of forming mononitro hydrocarbons. 2,867,669, 1-6-59, Cl. 260-644.
- Burkhardt, George C., C. Eastwood, and J. P. Hamilton, to Container Corp. of America. Stacking tray and handle therefor. 2,896,835, 7-28-59, Cl. 229-34.
- Burkhardt, Lawrence E.: *See*—  
 Donahue, William J., Jr., and Burkhardt. 2,872,868.
- Burkhardt, Max, E. Grafried, and G. Raunecker, to W. C. Heraeus G.m.b.H. Manufacture of spinning nozzles. 2,879,676, 3-31-59, Cl. 76-107.
- Burkhardt, William H., to Monroe Calculating Machine Co. Electronic computer. 2,872,107, 2-3-59, Cl. 235-61.
- Burkhardt, William H., to Monroe Calculating Machine Co. Magnetic recording system. 2,890,440, 6-9-59, Cl. 340-174.
- Burkland, Richard L., and J. W. Graves, Jr. Additive control device. 2,891,579, 6-23-59, Cl. 138-45.
- Burkland, Theodore L., to Deere & Co. Shell molding apparatus. 2,871,531, 2-3-59, Cl. 22-90.
- Burkus, John, to United States Rubber Co. Polyurethane polymer containing a metallic dicyanamide. 2,877,192, 3-10-59, Cl. 260-25.
- Burland, Peter D., and R. G. Roth, to Monsanto Chemical Co. Telomers. 2,868,837, 1-13-59, Cl. 260-537.
- Burland, Peter D., and R. G. Roth, to Monsanto Chemical Co. Drilling mud containing a telomer. 2,911,365, 11-3-59, Cl. 252-85.
- Burleigh Brooks Inc.: *See*—  
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- Burleson, Howard A. Lock seam tubing with multiple independent plies. 2,872,945, 2-10-59, Cl. 138-62.
- Burleson, James C., to Monsanto Chemical Co. Polymers of hydrocyanic acid. 2,894,916, 7-14-59, Cl. 260-2.
- Burley, Chester F., to Machlett Laboratories, Inc. X-ray tubes. 2,886,723, 5-12-59, Cl. 313-32.
- Burley, Robert M., to Bendix Aviation Corp. Navigation device. 2,867,393, 1-6-59, Cl. 244-77.
- Burlington Industries, Inc.: *See*—  
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- Burman, Harry G.: *See*—  
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- Burman, Joseph O., to Progressive Machinery Corp. Machine to crimp rims to boxes. 2,876,820, 3-10-59, Cl. 153-1.
- Burman & Sons Ltd.: *See*—  
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- Burmeister, Earl R., and H. H. Schott, to General Mills, Inc. Steam iron with partitioned tank. 2,878,600, 3-24-59, Cl. 38-77.
- Burmeister, Earl R., and H. H. Schott, to General Mills, Inc. Push button steam iron. 2,878,601, 3-24-59, Cl. 38-77.



- Burmeister, Herman R., to The Adams & Westlake Co. Luggage rack with illuminated seat numbers. 2,887,802, 5-26-59, Cl. 40—130.
- Burmeister, Lloyd G.: *See—*  
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- Burmeister, Toiro U. L.: *See—*  
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- Burmister, Clarence A.: *See—*  
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- Burnard, John W.: *See—*  
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- Burnbaum, Jack, to Bradford Novelty Co., Inc. Ornament for Christmas trees and other decorative purposes. 2,907,130, 10-6-59, Cl. 41—10.
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Dupre, Henry P., Reischer, and Wallenborst. 2,868,051.  
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- Burnell, John B.: *See—*  
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- Burnell, John B., and R. R. Roberts, to General Motors Corp. Idle speed control device. 2,915,914, 12-8-59, Cl. 74—472.
- Burner, Bingham F. Hydraulic power transmitting mechanism. 2,907,231, 10-6-59, Cl. 74—701.
- Burnet, George, Jr.: *See—*  
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- Burnet, William B., and C. R. Anderson, to Superior Separator Co. Apparatus for grading grain. 2,915,182, 12-1-59, Cl. 209—294.
- Burnett, Albert L., and J. H. Showell. Means for automatically switching on the parking lights of vehicles. 2,897,301, 7-28-59, Cl. 200—35.
- Burnett, Alexander H., to Swift & Co. Meat slicing machine control apparatus. 2,898,962, 8-11-59, Cl. 146—94.
- Burnett, Barrie S., and G. F. Taylor, to Submarine Cables Ltd. Water-tight cable entry. 2,886,626, 5-12-59, Cl. 174—18.
- Burnett, Henry J. Pick-up device. 2,900,039, 8-18-59, Cl. 181—24.
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- Burnett, Peter P. A., to United States Rubber Co. Method of making decorated plastic sheet material. 2,874,416, 2-24-59, Cl. 18—47.5.
- Burnett, Richard T., to Bendix Aviation Corp. Hydraulic torque converter. 2,871,661, 2-3-59, Cl. 60—54.
- Burnett, Richard T., to Bendix Aviation Corp. Combination disc and transverse type wheel brake. 2,871,990, 2-3-59, Cl. 188—70.
- Burnette, Richard T., to Bendix Aviation Corp. Brake. 2,871,991, 2-3-59, Cl. 188—70.
- Burnett, Richard T., to Bendix Aviation Corp. Axially and transversely movable brake. 2,871,992, 2-3-59, Cl. 188—70.
- Burnett, Richard T., to Bendix Aviation Corp. Composite disk and shoe brake. 2,888,105, 5-26-59, Cl. 188—74.
- Burnett, Richard T., to Bendix Aviation Corp. Brake. 2,897,921, 8-4-59, Cl. 188—70.
- Burnett, Richard T., to Bendix Aviation Corp. Combination shoe and disk brake. 2,910,144, 10-27-59, Cl. 188—70.
- Burnette, Llewellyn W., and M. E. Chiddix, to General Aniline & Film Corp. Production of N-acyl taurides. 2,880,219, 3-31-59, Cl. 260—401.
- Burnette, Thaddeus C., Jr., to United States of America, Air Force. Universal drive coupling. 2,885,872, 5-12-59, Cl. 64—23.
- Burnette, Wayne B. Double ended wrench with adjustable sockets. 2,900,857, 8-25-59, Cl. 81—185.
- Burney, Harold W.: *See—*  
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- Burnham, Charles S.: *See—*  
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- Burnham, John, to Fansteel Metallurgical Corp. Capacitor. 2,871,425, 1-27-59, Cl. 317—230.
- Burnham, Philip A. Cable gripping and pulling device. 2,888,295, 5-26-59, Cl. 294—86.
- Burnham, Robert R., to Union Carbide Corp. Corrosive resistant polyethylene emulsions. 2,868,742, 1-13-59, Cl. 260—17.
- Burnight, Thomas R., and R. A. Emmett, Jr. Blind landing system. 2,901,742, 8-25-59, Cl. 343—6.
- Burnley, Edward G. Car cabana anchor and placement guide. 2,914,277, 11-24-59, Cl. 248—39.
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- Burns, Bernard L., to Morgan Construction Co. Coupling. 2,909,045, 10-20-59, Cl. 64—9.
- Burns, Cecil H., Jr., and M. J. Mendelson, to The National Cash Register Co. Data retrieval system. 2,900,132, 8-18-59, Cl. 235—61.7.
- Burns, Claude A., to Morton Salt Co. Preparation of pure sodium chloride brines. 2,902,418, 9-1-59, Cl. 204—128.
- Burns, Claude H., to Westinghouse Electric Corp. Apparatus for operating gaseous discharge devices. 2,877,382, 3-10-59, Cl. 315—138.
- Burns, David H., to Paramount Pictures Corp. Coin operated means incorporating credit storage. 2,914,159, 11-24-59, Cl. 194—1.
- Burns, Edward M. Blower. 2,904,847, 9-22-59, Cl. 19—72.
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- Burns, Erwin. Liner hanger and packer. 2,877,850, 3-17-59, Cl. 166—124.
- Burns, Erwin. By-pass liner hanging apparatus. 2,916,092, 12-8-59, Cl. 166—124.
- Burns, Fred P., to Bell Telephone Laboratories, Inc. Piezoresistive semiconductor microphone. 2,905,771, 9-22-59, Cl. 179—110.
- Burns, Harold S., and P. A. de Mars, to Pickard & Burns, Inc. Loudspeaker system. 2,880,817, 4-7-59, Cl. 181—31.
- Burns, Harold W., to E. I. du Pont de Nemours and Co. Preparation of meta-sulfisophthalic acid. 2,895,986, 7-21-59, Cl. 260—57.
- Burns, Henry L., and R. L. Roloffson, to Alar Products, Inc. Valve seal. 2,872,221, 2-3-59, Cl. 286—26.
- Burns, Jabez, & Sons, Inc.: *See—*  
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- Burns, James T. Combination container and broiler pan. 2,875,683, 3-3-59, Cl. 99—425.
- Burns, John H., R. L. Dittmer, and D. L. Weeks, to The National Cash Register Co. Data recording apparatus. 2,878,872, 3-24-59, Cl. 164—113.
- Burns, Joseph C., and A. E. Beckers, to Allen B. Du Mont Laboratories, Inc. Storage tube. 2,896,106, 7-21-59, Cl. 313—68.
- Burns, Leslie L., Jr., to Radio Corp. of America. Electron beam controlling apparatus. 2,900,562, 8-18-59, Cl. 315—18.
- Burns, Leslie L., Jr., and E. O. Kelzer, to Radio Corp. of America. Magnetic recording system. 2,915,594, 12-1-59, Cl. 179—100.2.
- Burns, Loren D. Television antenna support device. 2,882,080, 4-14-59, Cl. 287—99.
- Burns, Maurice P. Venetian blind rack. 2,875,971, 3-3-59, Cl. 248—161.
- Burns, Meryl C., G. J. Giel, Jr., and R. J. Stahl, to Marchant Calculators, Inc. Magnetic decimal accumulator. 2,867,379, 1-6-59, Cl. 235—61.
- Burns, Meryl C., G. J. Giel, Jr., and R. J. Stahl, to Smith-Corona Marchant Inc. Calculating machines. 2,895,674, 7-21-59, Cl. 235—167.
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- Burr, Alfred E. Single pedal control for automobiles. 2,867,308, 1-6-59, Cl. 192—3.
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- Burr, Myrtice C., to Pure Carbon Co., Inc. Controlled clearance carbon bearings. 2,901,300, 8-25-59, Cl. 308—238.
- Burr, Robert P., and R. J. Keogh, to Hazeltine Research, Inc. Color-image-reproducing apparatus. 2,874,211, 2-17-59, Cl. 178—5.4.
- Burrage, Albert E., to Burrage & Boyde Ltd. Non-electric vacuum cleaners and like cleaning appliances. 2,874,400, 2-24-59, Cl. 15—359.
- Burrage, Albert E., to Burrage & Boyde Ltd. Non-electric vacuum cleaning machines. 2,910,721, 11-3-59, Cl. 15—342.
- Burrage & Boyde Ltd.: *See—*  
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- Burrell, Gilbert, to General Motors Corp. Frusto conical combustion chamber and method of making same. 2,878,800, 3-24-59, Cl. 123—191.
- Burris, Andrew H., to Admiral Corp. Motor mounts and clips. 2,868,484, 1-13-59, Cl. 248—22.
- Burroughs, Carl E. Folding spray leader. 2,910,245, 10-27-59, Cl. 239—167.
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 Burrows, Mrs. Naomi: See—  
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 Burry Biscuit Corp.: See—  
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 Bursaux, Jacques, H. Ancelle, and H. de Saint Chamant, to Comptoir des Phosphates de l'Afrique du Nord. Process of preparing a phosphated product. 2,875,032, 2-24-59, Cl. 71-41.  
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 Burski, Leonard J. G., to The Superior Electric Co. Lighting control system. 2,910,610, 10-27-59, Cl. 313-276.  
 Burst, Francis J.: See—  
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 Burst, Francis J., to Hill-Rom Co., Inc. Hospital bed. 2,912,704, 11-17-59, Cl. 5-60.  
 Burstlein, Eugene M., 1/4 to Societe des Acieries de Longwy (Societe Anonyme). Electrically heated screens. 2,868,378, 1-13-59, Cl. 209-238.  
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 Morrison, Charles C. 2,867,348.  
 Burt, Farlow B., to Bendix Aviation Corp. Gasketed piston ring seal. 2,876,052, 3-3-59, Cl. 309-45.  
 Burt, Howard J., and L. F. Janesek, to Continental Can Co., Inc. Bulk storage of cans for delivery to an operating unit. 2,893,594, 7-7-59, Cl. 221-1.  
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 Burt, Robert V., to The Procter & Gamble Co. Liquid metering dispenser. 2,889,966, 6-9-59, Cl. 222-445.  
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 Burtchael, Clarence S. Luggage handle. 2,908,362, 10-13-59, Cl. 190-57.  
 Burtenshaw, Ordeen L., to Kaiser Aluminum & Chemical Corp. Article holder. 2,913,125, 11-17-59, Cl. 211-60.  
 Burnett, Everett R., to Borg-Warner Corp. Power transmitting mechanism. 2,893,265, 7-7-59, Cl. 74-677.  
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 Burton, Everett T., A. L. Robinson, and E. L. Younker, to Bell Telephone Laboratories, Inc. Time separation communication system. 2,917,583, 12-15-59, Cl. 179-15.  
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- Burton, Joe M., to Phillips Petroleum Co. Hypergolic fuel and its method of use in developing thrust. 2,869,320, 1-20-59, Cl. 60—35.4.
- Burton, John A., F. D. Helversen, and J. B. Hyde, to Crown Zellerbach Corp. Supporting and coupling means for supply rolls. 2,905,403, 9-22-59, Cl. 242—55.53.
- Burton, Lester W., J. R. Thurell, Jr., to General Electric Co. Encapsulated selenium rectifiers. 2,883,592, 4-21-59, Cl. 317—234.
- Burton Mfg. Co.: *See*—  
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- Burton, Milton, to United States of America, Atomic Energy Commission. Canned slug. 2,873,853, 2-17-59, Cl. 206—84.
- Burton, Milton, L. T. McClinton, and W. M. Garrison, to United States of America, Atomic Energy Commission. Means for shielding reactors. 2,877,171, 3-10-59, Cl. 204—193.2.
- Burton, Ralph M.: *See*—  
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- Burton, Robert E. Bark peeler having pivoted jaws spread by fluid pressure. 2,888,051, 5-26-59, Cl. 144—208.
- Burton, Robert W., and R. L. Nance, to General Motors Corp. Fluid power steering valve. 2,867,129, 1-6-59, Cl. 74—388.
- Burton, Samuel D.: *See*—  
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- Burton, Stanley A. C.: *See*—  
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- Burton, Stuart W., to Thornton Knitting Co., Inc. Hosiery package. 2,911,093, 11-3-59, Cl. 206—45.33.
- Burton, Thomas H., to Hordern, Mason and Edwards Ltd. Driving units for rotary members. 2,880,622, 4-7-59, Cl. 74—157.
- Burton, William P.: *See*—  
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Patton, James L., Stanford, and Burton. 2,900,323.  
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- Burton, William P., and C. E. Slyngstad, to The M. W. Kellogg Co. Method of starting up a reforming process. 2,902,434, 9-1-59, Cl. 208—134.
- Burton, William P., P. A. Lefrancois, and E. W. Riblett, to The M. W. Kellogg Co. Chemical conversion processes using a specially prepared molybdenum oxide catalyst. 2,913,400, 11-17-59, Cl. 208—136.
- Burton, William P., P. A. Lefrancois, and E. W. Riblett, to The M. W. Kellogg Co. Hydrocarbon conversion process with platinum or palladium containing composite catalyst. 2,914,464, 11-24-59, Cl. 208—138.
- Burt, Horatio H., and D. R. De Tar: said De Tar assor. to said Burt. Electrical connector with double-ended socket contacts. 2,904,771, 9-15-59, Cl. 339—184.
- Burt, Horatio H., D. R. De Tar, and R. A. Fowler. Printed circuit card connector. 2,911,609, 11-3-59, Cl. 339—17.
- Burt, Jack R., to Stewart-Warner Corp. Pneumatic jacket for aircraft combustion apparatus. 2,878,837, 3-24-59, Cl. 138—63.
- Burtzloff, Fred A. Convertible attachment for load carrying body. 2,909,387, 10-20-59, Cl. 296—10.
- Burwell, John T., Jr., and Q. H. McKenna, to Horizons Titanium Corp. Fused salt bath for the electrodeposition of transition metals. 2,876,180, 3-3-59, Cl. 204—64.
- Burzlaff, Karl H.: *See*—  
McDonald, Robert L., and Burzlaff. 2,895,775.
- Busanovich, Charles J., to Radio Corp. of America. Thermo-electric materials and elements utilizing them. 2,902,529, 9-1-59, Cl. 136—5.
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- Busch, Charles R., to Buffalo Brake Beam Co. Railway brake discs. 2,869,688, 1-20-59, Cl. 188—218.
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- Busch, Georg L. Method for ensiling forage material and the resulting product. 2,885,289, 5-5-59, Cl. 99—8.
- Busch, Kenneth J., to Bell Telephone Laboratories, Inc. Magnetic radar pulse duration-clipper and damper. 2,898,482, 8-4-59, Cl. 307—108.
- Busch, Lee S., and G. W. Bauer, to Mallory-Sharon Titanium Corp. Alpha titanium alloys containing aluminum and columbium. 2,899,303, 8-11-59, Cl. 75—175.5.
- Busch, Richard E.: *See*—  
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- Busch, Thomas J., to Maxwell Industries, Inc. Tool holder for boring bars. 2,878,695, 3-24-59, Cl. 77—58.
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- Buschhom, Floyd E., to Van Dale, Inc. Apparatus for unloading silos. 2,877,907, 3-17-59, Cl. 214—17.
- Buschmann, Oskar H., to Copeland Refrigeration Corp. Lubricating system for refrigerant compressors. 2,898,072, 8-4-59, Cl. 230—206.
- Buschmann, Walter, and W. Bühren, to J. P. Bemberg Akt. Process for drying sheet material with air. 2,869,246, 1-20-59, Cl. 34—23.
- Busch-Petersen, Bent, J. J. Cicalese, and R. G. Craig, to Houdry Process Corp. Regeneration of butadiene catalyst. 2,915,570, 12-1-59, Cl. 260—680.
- Buserus, Hans K., to Braunschweigische Maschinenbauanstalt. Roller mill bearing. 2,890,647, 6-16-59, Cl. 100—170.
- Busey, Harold M.: *See*—  
Hammond, R. Philip, and Busey. 2,874,106.
- Bush, A. G.: *See*—  
Criner, Harry J. 2,906,309.
- Bush, Frederick J., to Johnson & Johnson. Adhesive bandage. 2,897,961, 8-4-59, Cl. 206—63.2.
- Bush, Freeman: *See*—  
Lachmann, Alfred, and Bush. 2,910,388.
- Bush, George L., to The Teleregister Corp. Electromagnetic indicator unit. 2,886,806, 5-12-59, Cl. 340—379.
- Bush, Glenn W.: *See*—  
Lena, Adolph J., and Bush. 2,874,082.
- Bush, Jack D., to Callery Chemical Co. Azeotropic extractive distillation of trimethyl borate. 2,880,144, 3-31-59, Cl. 202—42.
- Bush, Jess A., L. D. Freeman, and E. B. Hagerty, to Southern California Gland Co. Process for preparing crude heparin. 2,884,358, 4-28-59, Cl. 167—74.
- Bush, Louis F.: *See*—  
Allegrina, Louis A., and Bush. 2,889,545.
- Bush, Rankin J.: *See*—  
Hewitt, Ellis E., Bush, and Jeffrey. Re. 24,636.
- Bush, Robert G., to U. S. Slicing Machine Co., Inc. Method of interleaving sheets of material between slices of food and apparatus therefor. 2,877,120, 3-10-59, Cl. 99—171.
- Bush, Robert M., R. W. Jensen, and L. T. King, to The Garrett Corp. Fluid motor. 2,896,590, 7-28-59, Cl. 121—119.
- Bush, Russell J., to General Motors Corp. Sealing strip. 2,878,535, 3-24-59, Cl. 20—56.4.
- Bush, Russell J., to General Motors Corp. Bell and spigot joint with plural flexible lip type seal. 2,896,974, 7-28-59, Cl. 285—110.
- Bush, Russell J., and R. E. Sayre, to General Motors Corp. Window frame. 2,898,643, 8-11-59, Cl. 20—11.
- Bush, Russell J., and R. E. Sayre, to General Motors Corp. Window frame. 2,898,647, 8-11-59, Cl. 20—56.4.
- Bush, Thomas F., to The B. F. Goodrich Co. Method for making cellular vinyl chloride resins. 2,909,493, 10-20-59, Cl. 260—2.5.
- Bush, Vannevar, to United States of America, Navy. Electronic comparator. 2,873,912, 2-17-59, Cl. 235—61.7.
- Bush, Walter M., I. F. Salminen, and J. R. Thirtle, to Eastman Kodak Co. Photographic color couplers containing mono-*n*-alkyl groups. 2,908,573, 10-13-59, Cl. 96—100.
- Bushey, Theodore J.: *See*—  
Nielsen, Carl A., Bushey, and Currens. 2,888,921.
- Bushi, Michael: *See*—  
Behm, Carl M., and M. and S. Bushi. 2,871,061.
- Bushi, Steve: *See*—  
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- Bushmeyer, Richard W., to J. I. Case Co. Draft-propelled implement. 2,897,903, 8-4-59, Cl. 172—263.
- Bushnell, Clifford B., and W. A. Lawson, Jr., to Eastman Kodak Co. Tension control apparatus. 2,917,252, 12-15-59, Cl. 242—75.47.
- Bushnell, David P.: *See*—  
Oswald, Richard L. Re. 24,692.
- Bushnell, James D., to Esso Research and Engineering Co. Solvent dewaxing plant with unitary compressor. 2,909,475, 10-20-59, Cl. 208—35.
- Bushnell, James D., and F. F. Doering, Jr., to Esso Research and Engineering Co. Use of butane diluent in recovery of spent phenol from solvent extract by crystallization. 2,912,376, 11-10-59, Cl. 208—321.
- Bushnell, William L. Decorative star. 2,894,345, 7-14-59, Cl. 41—10.
- Bushong, Raymond M., C. W. Clark, and F. P. Holloway, to Union Carbide Corp. Carbonaceous cement. 2,890,128, 6-9-59, Cl. 106—80.
- Bushway, George H. Cooking machine. 2,868,112, 1-13-59, Cl. 99—410.
- Bushway, George H., to Shu-Conditioner Inc. Box toe blank conditioning machine. 2,903,999, 9-15-59, Cl. 118—426.
- Bushway, George H. Corn popping machine. 2,907,264, 10-6-59, Cl. 99—238.3.
- Busignies, Henri G., to International Telephone and Telegraph Corp. Channeling system for frequency spectrum transmission. 2,895,009, 7-14-59, Cl. 179—15.
- Busignies, Henri G., to International Telephone and Telegraph Corp. Long distance communication system. 2,871,344, 1-27-59, Cl. 250—15.
- Busignies, Henri G., to International Telephone and Telegraph Corp. Direction finder. 2,871,476, 1-27-59, Cl. 343—120.
- Buske, Gilbert E.: *See*—  
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- Buske, Gilbert E., and R. L. Morden, to Motor Wheel Corp. Power take-off for lawn mowers. 2,896,603, 7-28-59, Cl. 123-195.
- Buskirk, John E., to General Motors Corp. Vent cap. 2,896,007, 7-21-59, Cl. 136-177.
- Buskirk, John E., to General Motors Corp. Nonoverfill device. 2,883,444, 4-21-59, Cl. 136-178.
- Buslik, Walter S., and T. L. Vinson, to International Business Machines Corp. Tape feeding machine. 2,919,076, 12-29-59, Cl. 242-55.12.
- Busquet, Herman Th. J. A., to "Hala" Nederlandsche Lampenfabriek N.V. Lamp shade. 2,898,451, 8-4-59, Cl. 240-108.
- Buss, Benjamin A., to American Machine and Metals, Inc. Ironing machine. 2,906,042, 9-29-59, Cl. 38-48.
- Buss, Benjamin A., to American Machine and Metals, Inc. Washing machine. 2,909,052, 10-20-59, Cl. 68-58.
- Bussard, Emmery J. H., to Avco Mfg. Corp. Stable transistor oscillator system. 2,894,211, 7-7-59, Cl. 331-117.
- Bussard, Emmery J. H., to Avco Mfg. Corp. Automatic overload protection system. 2,918,629, 12-22-59, Cl. 330-51.
- Busse, Floyd E., to Consolidated Foundries and Mfg. Corp. Receptacle filler. 2,867,246, 1-6-59, Cl. 141-34.
- Busser, Kay: See—
- Coover, Richard E. 2,898,616.
- Busseuil, Henri, to Societe a Responsabilite Limitee dite: G.O.L. Tooth-brush. 2,917,057, 12-15-59, Cl. 132-84.
- Bussey, Vincent M. Snag dislodger or lure retriever. 2,914,880, 12-1-59, Cl. 43-17.2.
- Bussiere, Lawrence S.: See—
- Rancourt, Alphonse, and Bussiere. 2,910,824.
- Bussmann, Frank H., to McGraw-Edison Co. Protectors for electric circuits. 2,880,291, 3-31-59, Cl. 200-154.
- Bussmann, Frank H., to McGraw-Edison Co. Protectors for electric circuits. 2,910,562, 10-27-59, Cl. 200-119.
- Butcher, Charles H., Jr., to General Motors Corp. Hollow stem poppet valve. 2,882,886, 4-21-59, Cl. 123-188.
- Butcher, Kenneth L. Automatic regulation of the rate of flow of a fluid through a pipe or the like. 2,916,047, 12-8-59, Cl. 137-501.
- Butcher, Oswald E., to William Kenyon & Sons Inc. Spindle idler mechanism. 2,879,639, 3-31-59, Cl. 57-88.
- Butcosk, Arthur F. Railroad rolling stock cleaners. 2,901,434, 8-25-59, Cl. 252-136.
- Butcosk, Richard A., to Socony Mobil Oil Co., Inc. Lithium base grease. Re. 2,64,681, 8-18-59, Cl. 252-37.
- Butera, Sam A. Visual aid for dial type measuring instrument. 2,885,994, 5-12-59, Cl. 116-133.
- Butkevich, Stanley J., to Admiral Photo Products Co. Photographic slide protector. 2,874,498, 2-24-59, Cl. 40-152.
- Butkus, Walter A., to General Motors Corp. Flexible seal. 2,891,827, 6-23-59, Cl. 308-180.
- Butler, Adolf G., to American Pipe and Construction Co. Continuous cage-making machine. 2,903,553, 9-8-59, Cl. 219-56.
- Butler, Arthur N., and J. Graves, said Butler assor. to said Graves. Tubeless tire moulder. 2,871,929, 2-3-59, Cl. 157-121.
- Butler, Caroline, to American Cyanamid Co. Oxidizing and optical bleach. 2,903,430, 9-8-59, Cl. 252-99.
- Butler, Charles W.: See—
- Parker, Warren H. 2,902,118.
- Butler, Chester J. L. D. Ermish, J. W. Linsley, Jr., and D. F. Thomas, to Western Electric Co., Inc. Method of preparing and presenting assembling instructions by pictorial representations. 2,917,834, 12-22-59, Cl. 35-8.
- Butler Co.: See—
- Altmann, Norman A., and Bureau. 2,916,216.
- Altmann, Norman A., and Bureau. 2,916,412.
- Butler, Donald H. Water hardening mixtures. 2,899,326, 8-11-59, Cl. 106-97.
- Butler, Edward J. Automatic timer and control unit. 2,871,938, 2-3-59, Cl. 161-1.
- Butler, Edward J. Time switch. 2,887,543, 5-19-59, Cl. 200-37.
- Butler, Ernest M. Peg charts. 2,902,776, 9-8-59, Cl. 35-27.
- Butler, Fay J. and H. L. Illuminated fishing float. 2,908,101, 10-13-59, Cl. 43-17.5.
- Butler, Francis E.: See—
- Mattingly, Robert D., and Butler. 2,912,929.
- Butler, Frank A.: See—
- Griggs, William H., and Butler. 2,875,055.
- Butler, Frank D. Multiple drive gear and pinion geared, multiple pressure stage compounded, elastic fluid compressor, applicable to a combustion turbine. 2,876,947, 3-10-59, Cl. 230-141.
- Butler, Frank D. Axially opposed dual row jet reaction turbine. 2,915,876, 12-8-59, Cl. 60-39.35.
- Butler, George A.: See—
- Eichenberg, Robert, and Burns. 2,868,221.
- Butler, Gordon L. Striking device for golfers. 2,911,221, 11-3-59, Cl. 273-196.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Disc brake for vehicles. 2,867,295, 1-6-59, Cl. 188-73.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Disc brake for vehicles. 2,873,005, 2-10-59, Cl. 188-73.
- Butler, Henry J., to Dunlop Rubber Co. Ltd. Disc brakes. 2,894,607, 7-14-59, Cl. 188-73.
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- Butler, Hildred L.: See—
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- Butler, Homer H., Jr.: See—
- Curl, Robert B., and Butler. 2,900,068.
- Butler, Howard E.: See—
- Sabo, Julius J., and Butler. 2,908,941.
- Butler, James M., to The British Non-Ferrous Metals Research Assn. Titanium alloys. 2,868,640, 1-13-59, Cl. 75-175.5.
- Butler, James P.: See—
- Favre, John A., Butler, and Mitacek. 2,883,343.
- Butler, Jesse L., to Sanders Associates, Inc. Conical scanning antenna systems as used in radar. 2,870,440, 1-20-59, Cl. 343-755.
- Butler, Jesse L., to Sanders Associates, Inc. Parallel transmission line circuit. 2,877,427, 3-10-59, Cl. 333-9.
- Butler, Jesse L., to Sanders Associates, Inc. Conical beam antenna system. 2,878,470, 3-17-59, Cl. 343-763.
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- Butler, Jesse L., to Raytheon Co. Microwave scanning antennas. 2,895,131, 7-14-59, Cl. 343-754.
- Butler, Jesse L., to Sanders Associates, Inc. Three conductor planar antenna. 2,914,766, 11-24-59, Cl. 343-771.
- Butler, John F.: See—
- Hausman, Albert F., and Butler. 2,888,169.
- Butler, Juanita S.: See—
- Butler, Judson C., Lum, and Carlston. 2,878,235.
- Butler, Judson C., deceased (by J. S. Butler, administratrix), F. G. Lum, and E. F. Carlston, to California Research Corp. Polyamide of meta-xylylene diamine and 8 to 10 carbon atom aliphatic dicarboxylic acids. 2,878,235, 3-17-59, Cl. 260-78.
- Butler, Keith H.: See—
- Thomas, Martha J., and Butler. 2,901,647.
- Butler, Keith H., to Sylvania Electric Products Inc. Indium-activated phosphor. 2,898,302, 8-4-59, Cl. 252-301.4.
- Butler, Keith H., H. H. Homer, and M. J. Thomas, to Sylvania Electric Products Inc. Method of coating electric lamp envelopes. 2,878,137, 3-17-59, Cl. 117-17.
- Butler, Keith H., H. H. Homer, and R. M. Rulon, to Sylvania Electric Products Inc. Electroluminescent phosphors. 2,919,249, 12-29-59, Cl. 252-301.6.
- Butler, Keith H., and R. M. Rulon, to Sylvania Electric Products Inc. Method of making electroluminescent phosphors. 2,919,250, 12-29-59, Cl. 252-301.6.
- Butler, Keith H., and M. J. Thomas, to Sylvania Electric Products Inc. High pressure mercury vapor lamp. 2,919,365, 12-29-59, Cl. 313-108.
- Butler, Kenneth: See—
- Howlett, Frank, Butler, and Low. 2,907,754.
- Butler Mfg. Co.: See—
- Botkin, Lawrence A. 2,874,973.
- Callison, Richard P. 2,901,849.
- Forman, George W., and George. 2,896,444.
- Simpson, Harold G., and Rimmer. 2,871,997.
- Victor, Irving. 2,893,925.
- Butler, Robert E. Decorative outside framed awning. 2,871,525, 2-3-59, Cl. 20-57.5.
- Butler, Robert W., to Hercules Powder Co. Stabilized icings and preparation. 2,914,410, 11-24-59, Cl. 99-139.
- Butler, Stanley C.: See—
- Marsh, De Loss L., and Butler. 2,900,972.
- Butler, Stanley C. Inhalator gauge device. 2,889,828, 6-9-59, Cl. 128-142.
- Butler, Stanley M., to Alan Muntz & Co., Ltd. Fuel injection pumps for internal combustion engines. 2,884,919, 5-5-59, Cl. 123-139.
- Butler, Thomas A.: See—
- Spedding, Frank H., Butler and Johns. 2,877,109.
- Butler, Thomas J., to United States Steel Corp. Method for determining the permeability of steel to hydrogen. 2,886,497, 5-12-59, Cl. 204-1.
- Butler, Vaughn H., to Burlington Industries, Inc. Yarn handling and severing mechanism for circular knitting machines and method. 2,908,154, 10-13-59, Cl. 66-140.
- Butler, Wallace B., to Olin Mathieson Chemical Corp. Multi-part breech bolt mechanism. 2,881,547, 4-14-59, Cl. 42-16.
- Butler, Wallace B., F. A. Prybyla, and J. J. Reardon, to Olin Mathieson Chemical Corp. Sear safety operated by loading cover and breech bolt. 2,871,606, 2-3-59, Cl. 42-70.
- Butler, Wilfred, to Garrard Engineering and Mfg. Co. Ltd. Speed control for gramophones and the like. 2,888,108, 5-26-59, Cl. 188-187.
- Butler, William F.: See—
- Beacham, Robert C., and Butler. 2,912,980.
- Butler, William F., and R. H. Willet, to Cutter Laboratories, Inc. Blood donor assembly. 2,915,062, 12-1-59, Cl. 128-214.
- Butlin, Charles E., to Perry Plastics, Inc. Valve for fuel pumps and the like. 2,904,065, 9-15-59, Cl. 137-454.4.
- Butman, Robert C. Sector selector. 2,890,448, 6-9-59, Cl. 343-5.
- Butner, Robert E., and O. M. Young. Dispensing pill box. 2,899,047, 8-11-59, Cl. 206-42.
- Butt, Alan G., to The Trane Co. Heat exchanger. 2,869,835, 1-20-59, Cl. 257-245.



- Butt, Kenneth S., to Westinghouse Brake and Signal Co., Ltd. Rectifier assembly. 2,897,420, 7-28-59, Cl. 317-234.
- Butter, George N., to Commercial Solvents Corp. Anticorrosion agent. 2,905,644, 9-22-59, Cl. 252-392.
- Butterfield, Harry E., Jr.: *See*—  
De Angelis, Angelo C., and Butterfield. 2,896,867.  
De Angelis, Angelo C., and Butterfield. 2,905,397.  
De Angelis, Angelo C., and Butterfield. 2,905,398.
- Butterfield, John L., and C. F. Renner, to General Electric Co. Disconnectable clutch. 2,910,846, 11-3-59, Cl. 64-28.
- Butterfield, John P., to Chrysler Corp. Link supported axle suspension. 2,888,271, 5-26-59, Cl. 280-124.
- Butterfield, Louis M. Display carton for fruit and vegetables. 2,918,204, 12-22-59, Cl. 229-25.
- Butterfield, Peter H., and C. A. Carter, to Union Carbide Corp. Process for the production of 2-alkyl-1-chloroalkanes. 2,908,725, 10-13-59, Cl. 260-657.
- Butterfield, William C., and J. D. Madden, to Boeing Airplane Co. Welding apparatus. 2,892,925, 6-30-59, Cl. 219-127.
- Buttermore, Provance H., and R. S. Field. Ladder. 2,875,935, 3-3-59, Cl. 228-36.
- Butters, Robert A.: *See*—  
Rohrman, Henry F., and Butters. 2,895,234.
- Butterweid, Abraham S. Decorative sheeting with multi-color sparkle effect. 2,880,542, 4-7-59, Cl. 41-22.
- Butterworth British Automatic Machine Tool Co. Ltd.: *See*—  
Butterworth, Harold, and Bolingbroke. 2,906,540.
- Butterworth, Charles F. Metering valve for carburetors and the like. 2,881,063, 4-7-59, Cl. 48-180.
- Butterworth, Gilbert J., and E. T. Young, to Sperry-Sun Well Surveying Co. Well surveying instruments. 2,886,397, 5-12-59, Cl. 346-74.
- Butterworth, Harold, and F. Bolingbroke, to Butterworth British Automatic Machine Tool Co. Ltd. Hydraulically operated chucks. 2,906,540, 9-29-59, Cl. 279-4.
- Butterworth, John W., to Mackay Radio and Telegraph Co. Automatic keyer for lifeboat radio equipment. 2,869,116, 1-13-59, Cl. 340-356.
- Butterworth, John W., to Mackay Radio and Telegraph Co. Piezoelectric resonator. 2,878,451, 3-17-59, Cl. 332-2.
- Butterworth System, Inc.: *See*—  
Lione, Leonard V. 2,917,243.
- Buttery, Kenneth T., to Sutherland Paper Co. Dispensing carton. 2,889,977, 6-9-59, Cl. 229-17.
- Buttery, Kenneth T., to Sutherland Paper Co. Collapsible advertising or display device. 2,897,977, 8-4-59, Cl. 211-135.
- Buttery, Kenneth T., to Sutherland Paper Co. Container. 2,902,203, 9-1-59, Cl. 229-31.
- Buttironi, Giovanni, and A. Giavarini. Reversible conveyor system. 2,893,538, 7-7-59, Cl. 198-110.
- Buttke, Richard A., to Rockwell Mfg. Co. Planer and attachments therefor. 2,873,776, 2-17-59, Cl. 144-252.
- Buttles, Robert F., to Northron Aircraft Inc. Collapsible cargo carrying dolly. 2,886,339, 5-12-59, Cl. 280-42.
- Büttner, Artur, to Schnellpressenfabrik Akt. Heidelberg. Driving arrangement for the impression cylinder of a cylinder printing press. 2,868,119, 1-13-59, Cl. 101-283.
- Büttner, Artur, to Schnellpressenfabrik Akt. Heidelberg. Sheet guard arrangement for cylinder printing presses. 2,871,782, 2-3-59, Cl. 101-279.
- Büttner, Artur, to Schnellpressenfabrik Akt. Single-revolution high-speed cylinder press. 2,895,414, 7-21-59, Cl. 101-173.
- Büttner, Artur, to Schnellpressenfabrik Akt. Machine for heating embossing moulds of high-speed cylinder presses. 2,896,532, 7-28-59, Cl. 101-25.
- Büttner, Artur, to Schnellpressenfabrik Akt. Heidelberg. Sheet feeding mechanism for sheet handling apparatus. 2,899,203, 8-11-59, Cl. 271-53.
- Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Arrangement for printing with a numbering frame in a high-speed cylinder press. 2,900,898, 8-25-59, Cl. 101-76.
- Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Printing press. 2,901,179, 8-25-59, Cl. 239-67.
- Buttner, Franz, and E. Enk, to Wacker-Chemie G. m. b. H. Production of isopropenylacetate. 2,867,653, 1-6-59, Cl. 260-488.
- Buttner-Werke Akt.: *See*—  
Kamp, Heinrich. 2,869,249.
- Buttolph, Doyle D., to Phillips Petroleum Co. Continuous rotary filter. 2,889,931, 6-9-59, Cl. 210-404.
- Buttolph, Ralph Q. Method and apparatus for providing a well bore with a deflected extension. 2,894,722, 7-14-59, Cl. 255-1.6.
- Buttrey, John W.: *See*—  
Brophy, James J., and Buttrey. 2,914,728.
- Butts, Joseph R. Pickup. 2,892,371, 6-30-59, Cl. 84-1.16.
- Butts, Maurice J. Universally mounted adjustably positionable mirror. 2,915,944, 12-8-59, Cl. 88-97.
- Butts, Richard R. Flush valve construction. 2,916,251, 12-8-59, Cl. 251-40.
- Butz, James N., to Continental Can Co., Inc. Corner packing. 2,867,367, 1-6-59, Cl. 229-14.
- Butzko, Robert L., to National Cleveland Corp. Vacuum molding machine. 2,907,069, 10-6-59, Cl. 18-19.
- Butzow, George M. Sand conditioning apparatus. 2,898,651, 8-11-59, Cl. 22-89.
- Buvelot, John A., to American Steel Foundries. Slack adjuster. 2,869,904, 1-20-59, Cl. 287-58.
- Buvelot, John A., to American Steel Foundries. Tread brake arrangement. 2,917,134, 12-15-59, Cl. 188-56.
- Buxbaum, Joseph. Device for positioning water hose. 2,887,288, 5-19-59, Cl. 248-88.
- Buxton, Elliott R., to North American Aviation, Inc. Acceleration anticipation switch. 2,879,958, 3-31-59, Cl. 244-76.
- Buxton, James E., and J. J. Digby, to Bendix Aviation Corp. Engine starter gearing. 2,903,892, 9-15-59, Cl. 74-9.
- Buxton, Inc.: *See*—  
Mageau, George J., Jr. 2,874,740.
- Buyens, Harold J.: *See*—  
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- Buyers, Archie G., to United States of America, Atomic Energy Commission. Pyrochemical decontamination method for reactor fuel. 2,892,701, 6-30-59, Cl. 75-84.1.
- Buyers, Archie G., E. E. Motta, and F. D. Rosen, to United States of America, Atomic Energy Commission. Decontamination of neutron-irradiated reactor fuel. 2,918,366, 12-22-59, Cl. 75-84.1.
- Buyze, Edwin K.: *See*—  
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- Buzard, Fred L. Fish bait. 2,914,408, 11-24-59, Cl. 99-3.
- Buzas, August J.: *See*—  
Schenck, Remsen T., S. K. Schenck, and Buzas. 2,918,485.
- Buzbee, Lloyd R.: *See*—  
Closson, Rex D., Ecke, and Buzbee. 2,880,066.  
Closson, Rex D., Ecke, and Buzbee. 2,880,067.  
Ecke, George G., and Buzbee. 2,892,857.  
Filbey, Allen H., and Buzbee. 2,892,871.
- Buzick, John W., Jr. Lint slide. 2,914,809, 12-1-59, Cl. 19-66.
- Buzicky, Edmund J., to Whirlpool Corp. Freezer package rack and improved arrangements thereof. 2,891,833, 6-23-59, Cl. 312-304.
- Byam, Erwin B.: *See*—  
Hoyt, Herbert L., and Byam. 2,891,263.
- Byam, Peter M., to Fasco Industries, Inc. Fluid operated electric switch. 2,898,418, 8-4-59, Cl. 200-83.
- Byars, Glen H. Water measuring device for fuel system or the like. 2,884,785, 5-5-59, Cl. 73-304.
- Byatt, Dennis W. G.: *See*—  
Jolliffe, Sidney A. W., Byatt, Watson, Hatch, and French. 2,917,741.
- Byatt, Dennis W. G., to Marconi's Wireless Telegraph Co. Ltd. Radio direction finders. 2,879,506, 3-24-59, Cl. 343-118.
- Bybee, Genoris R. Combined clothesline and rack and awning frame. 2,887,233, 5-19-59, Cl. 211-87.
- Byer, Bernard B., to Tele-Dynamics Inc. Modulator-oscillator circuit. 2,869,080, 1-13-59, Cl. 332-28.
- Bychinsky, Wilfred A., to General Motors Corp. Low tension spark plug. 2,874,322, 2-17-59, Cl. 313-131.
- Bychinsky, Wilfred A., and A. Candelise, to General Motors Corp. Spark plug. 2,874,323, 2-17-59, Cl. 313-144.
- Byerlein, Arthur A., to Baldwin-Lima-Hamilton Corp. Press. 2,888,894, 6-2-59, Cl. 113-46.
- Byerly, Lawrence C.: *See*—  
Taylor, James L., and Byerly. 2,890,567.
- Byers, Charles L., 1/4, to Floyd R. Blume. Eye-shank button holder attachment. 2,900,935, 8-25-59, Cl. 112-109.
- Byers, Everett J.: *See*—  
Hinders, Henry R., and W. C. and E. J. Byers. 2,908,409.
- Byers, Ralph J.: *See*—  
Whitton, Arthur L., and Byers. 2,867,366.
- Byers, William C.: *See*—  
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- Byers, Whitman, Jr. Floor and car mat. 2,897,963, 8-4-59, Cl. 206-72.
- Byford Labs., Inc.: *See*—  
Powell, Albert E. 2,914,672.
- Byington, James A., to Citrus Machinery Co., Inc. Can unscrambler. 2,910,165, 10-27-59, Cl. 198-30.
- Byland, Henry L., and P. H. Mever, to U.S. Slicing Machine Co., Inc. Meat tenderizer. 2,886,845, 5-19-59, Cl. 17-26.
- Byloff, Robert C., and J. K. Jackson, to The Garrett Corp. Fine speed control. 2,909,706, 10-20-59, Cl. 317-5.
- Bylund, Eric, to Schick Inc. Tuning means for vibrator motor. 2,867,737, 1-6-59, Cl. 310-19.
- Bynum, Frank A., to Halliburton Oil Well Cementing Co. Heavy duty pump. 2,883,874, 4-28-59, Cl. 74-411.
- Byquist, Stanley H., 9/16, to E. W. Freeman. Beam antenna. 2,897,498, 7-28-59, Cl. 343-834.
- Byrd, Carl, to Standard Packaging Corp. Apparatus for applying closures to flexible containers. 2,897,643, 8-4-59, Cl. 53-59.
- Byrd, Gerald J.: *See*—  
Russell, John K., and Byrd. 2,901,429.
- Byrd, Raymond and W. Fruit peeler. 2,900,717, 8-25-59, Cl. 30-24.
- Byrd, Wade: *See*—  
Byrd, Raymond and W. 2,900,717.
- Byrd, Walter L.: *See*—  
Chaney, William A., Garrett, and Byrd. 2,878,962.
- Byrkett, Elwood L., to The Sheffield Corp. Gaging device. 2,914,860, 12-1-59, Cl. 33-178.



- Byrkett, Elwood L., and N. Emmons, III, to The Sheffield Corp., Apparatus for gaging fiber characteristics. 2,880,609, 4-7-59, Cl. 73-38.
- Byrkett, Elwood L., and H. D. Kiefaber, to The Sheffield Corp. Gaging apparatus. 2,869,243, 1-20-59, Cl. 33-178.
- Byrne Doors, Inc.: See—
- Colburn, Norman E., Jr. 2,896,558.
- Urbart Thornton L. 2,869,862.
- Byrne, Harold J., to International Minerals & Chemical Corp. Oral prophylactic compositions comprising a betaine derivative. 2,888,383, 5-26-59, Cl. 167-93.
- Byrne, John F., to Haloid Xerox Inc. Reflex xerography. 2,917,385, 12-15-59, Cl. 96-1.
- Byrnes, James H., to Westoak Machine Corp. Equipment for oiling metal surfaces. 2,870,737, 1-27-59, Cl. 118-227.
- Byron, John K., to Renold Chains Ltd. Flexible couplings. 2,902,842, 9-8-59, Cl. 64-14.
- Byrum, Ely G., Jr., to The Bahnsen Co. Apparatus for doffing lint collection chambers. 2,901,881, 9-1-59, Cl. 57-56.
- Byssing, George J. Suspended ceiling. 2,895,180, 7-21-59, Cl. 20-4.
- Bythrow, Ellsworth P. Vacuum hot top for ingot mold. 2,869,192, 1-20-59, Cl. 22-147.
- Bywater, James E., to Ford Motor Co. Ltd. Linkage mechanism for attachment of mounted implements to tractors and the like. 2,873,125, 2-10-59, Cl. 280-461.
- Bywater, William, Ltd.: See—
- O'Byrne, Brendan. 2,915,804.
- C.A.V. Ltd.: See—
- Clegg, John W. 2,891,533.
- Curzon, Thomas. 2,883,488.
- Evans, Fraser M. 2,877,711.
- Evans, Fraser M. 2,891,415.
- Evans, Fraser M. 2,901,974.
- Evans, Fraser M. 2,910,975.
- Kemp, Kenneth A. W. 2,902,017.
- Kemp, Kenneth A. W. 2,916,029.
- Knight, Basil E. 2,891,631.
- Nicolls, Wilfrid E. W. 2,868,383.
- Nicolls, Wilfrid E. W. 2,891,530.
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- Nicolls, Wilfrid E. W., and Howes. 2,878,064.
- Pettitt, Leslie E., and Peasey. 2,882,801.
- Sutherland, William D. 2,901,915.
- Sutherland, William D., and Wheatley. 2,891,411.
- CBS-Hytron, a Division of Columbia Broadcasting System, Inc.: See—
- Fyler, Norman F. 2,890,377.
- CDC Control Services, Inc.: See—
- Close, Charles D., Rossi, and Williams. 2,882,037.
- CEDEL, Centre d'Etudes et de Developpements de l'Electronique: See—
- Hanlet, Jacques M. N., Heinisch, and Loyer. 2,919,402.
- C.E.M. Co.: See—
- Koehl, Herman. 2,881,495.
- Koehl, Herman. 2,901,800.
- C.G.S. Laboratories, Inc.: See—
- Dewitz, Gerhard H. 2,886,789.
- Dewitz, Gerhard H. 2,907,957.
- Dewitz, Gerhard H., and Sontheimer. 2,884,632.
- Gabor, William D. 2,891,158.
- Gabor, William D. 2,906,967.
- Gabor, William D., and Stahovec. 2,868,896.
- Smith-Vaniz, William R., Jr. 2,897,352.
- Smith-Vaniz, William R., Jr. 2,907,876.
- Snyder, Ellery P. 2,911,529.
- Sontheimer, Carl G. 2,869,087.
- Sontheimer, Carl G. 2,880,321.
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- Sontheimer, Carl G. 2,911,527.
- CKD Ceska Lipa narodni podnik: See—
- Vitavsky, Milan. 2,881,403.
- CKD Stalingrad narodni podnik: See—
- Wergner, Frantisek. 2,897,659.
- C.P.S. Mfg. Co.: See—
- Cummings, Thomas N., Peterson, and Shiu. 2,909,877.
- CS-13 Corp.: See—
- Vance, Glenn, Powers, Stokesberry, Colman, and Klipstein. 2,877,286.
- Cabanban, Severino J. Padlock dispenser. 2,902,187, 9-1-59, Cl. 221-240.
- Cabaniss, Edward H., to General Electric Co. Function generating circuit for obtaining squares of inputs. 2,875,400, 2-24-59, Cl. 323-74.
- Cabbage, John T., to Phillips Petroleum Co. Prevention of caustic embrittlement in fractionators. 2,907,711, 10-6-59, Cl. 208-370.
- Cabbage, John T., to Phillips Petroleum Co. Coking of hydrocarbon oils. 2,910,425, 10-27-59, Cl. 208-53.
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- Cabell, Roger W. Fuses for electric circuits. 2,894,099, 7-7-59, Cl. 200-117.
- Cabin Crafts, Inc.: See—
- Fesperman, James L., and Hackney. 2,895,326.
- Cabinet Top Industries: See—
- Githens, Earl B. 2,867,864.
- Cable Belt Ltd.: See—
- Walker, John R. 2,893,541.
- Cable, Clair A.: See—
- Graves, Loinel R., Knapp, Guerreiro, Cable and Wheeler. 2,871,756.
- Cabot, Godfrey L., Inc.: See—
- Collins, Arthur S. 2,903,340.
- Edminster, James W., Beck and Friauf. 2,917,370.
- Jackson, William M., II. 2,910,760.
- MacKenzie, James C. 2,898,295.
- Reintjes, Harold. 2,914,448.
- Rogers, Joe Y., Jr. 2,874,839.
- Secord, Robert N. 2,886,414.
- Stoddard, Stuart V. 2,911,287.
- Stokes, Charles A. 2,902,351.
- Cabot Shops, Inc.: See—
- Jones, Marvin L. 2,887,093.
- Scott, Merl G. 2,874,808.
- Cacheris, John C.: See—
- Jones, George R., Cacheris, and Morrison. 2,897,455.
- Cacheris, John C., and H. A. Dropkin, to United States of America, Army. Microwave modulator. 2,896,172, 7-21-59, Cl. 332-45.
- Caddock, Richard E.: See—
- Bourns, Marlan E., and Caddock. 2,898,568.
- Cade, Phillip J., L. H. Gallagher, and W. C. Sibley, to Electronics Corp. of America. Iris diaphragm. 2,913,972, 11-24-59, Cl. 95-64.
- Cadillac Creations, Inc.: See—
- Ebert, Moe M. 2,876,779.
- Cadillac Gage Co.: See—
- Bauer, Russell E. 2,893,355.
- Cadillac, John G. and R. T., to Aacon Contracting Co., Inc. Shipping box structure with internal securing means for the box contents. 2,884,125, 4-28-59, Cl. 206-46.
- Cadillac, John G. and R. T. Vehicle cab box. 2,917,165, 12-15-59, Cl. 206-47.
- Cadillac, Robert T.: See—
- Cadillac, John G. and R. T. 2,884,125.
- Cadillac, John G. and R. T. 2,917,165.
- Cadle, Richard D., and R. W. Mosher. Aromatic amine aldehyde perchlorate resins. 2,871,224, 1-27-59, Cl. 260-72.5.
- Cadle, Richard D., and R. W. Mosher. Perchlorate salts of alkanol amines. 2,899,468, 8-11-59, Cl. 260-584.
- Cadotte, John E.: See—
- Rohwer, Robert G., and Cadotte. 2,892,737.
- Rohwer, Robert G., Reter, and Cadotte. 2,901,882.
- Cadwell, Sidney M., L. M. White, S. A. Black, and H. R. Varvaro, to United States Rubber Co. Method of making pneumatic tires by casting a liquid polyester-diisocyanate composition. 2,873,790, 2-17-59, Cl. 154-14.
- Cady, George H., and F. B. Dudley. Fluorine fluorosulfonate and process for producing same. 2,876,075, 3-3-59, Cl. 23-203.
- Cady, Paul C.: See—
- Walker, Frederick W., Cady, and Johnston. 2,881,110.
- Cady, Robert S.: See—
- Blake, Charles B., and Cady. 2,900,073.
- Caesar, Cameron H.: See—
- Lukk, Georges G., Caesar, and Ilnyckij. 2,908,637.
- Caesar, Orville S., and J. G. Stieber. Roller shade. 2,894,578, 7-14-59, Cl. 160-308.
- Cafcas, Thomas H., and J. J. Plemich, to Standard Oil Co. Emulsifiable oil. 2,914,477, 11-24-59, Cl. 252-33.4.
- Cafferata, Gerald W., to The British Plaster Board Ltd., and Gyproc Product Ltd. Wire tying device. 2,913,015, 11-17-59, Cl. 140-118.
- Caffrey, James M., Jr., to Texaco Inc. Mixtures of metal salts of organic hydroxy compounds. 2,892,782, 6-30-59, Cl. 252-42.7.
- Cafiero, Michael J. Expansion and deflection conduit coupling. 2,885,461, 5-5-59, Cl. 174-84.
- Cafolla, Constantine F.: See—
- Smith, Edwin R., and Cafolla. 2,916,949.
- Cafolla, Constantine F., to Seneca Falls Machine Co. Tool carriage feeding and positioning mechanism. 2,907,224, 10-6-59, Cl. 74-424.8.
- Cagle, Edward M.: See—
- Campbell, John F., and Cagle. 2,889,235.
- Cagle, Toby T., to Airheart Products, Inc. Vehicle braking operation with slack adjuster. 2,905,277, 9-22-59, Cl. 188-152.
- Cagle, William B., to Bell Telephone Laboratories, Inc. Electrical pulse circuit. 2,915,649, 12-1-59, Cl. 307-88.5.
- Cagle, William B., and W. Ulrich, to Bell Telephone Laboratories, Inc. Logic circuit. 2,873,389, 2-10-59, Cl. 307-88.5.
- Cagnolatti, Lloyd: See—
- Hanson, Elwood W., Drew, and Cagnolatti. 2,886,492.
- Cahen, Gilbert M., P. Bonnet, and P. Treille, to Etat Francais, represented by Secretariat d'Etat à la Defense Nationale et aux Forces Armées (Direction des Etudes et Fabrications d'Armement). Apparatus for detecting radioactivity. 2,871,365, 1-27-59, Cl. 250-83.6.
- Cahen, Max. Optical apparatus for use in accurately positioning printing plates on a printing cylinder. 2,885,924, 5-12-59, Cl. 88-14.
- Cahill, Allen E., and V. P. McConnell, to General Electric Co. Autocatalytic copper plating process and solution. 2,874,072, 2-17-59, Cl. 117-130.
- Cahill, Harold G., and C. R. Rasmussen, to Western Electric Co., Inc. Apparatus for sizing and coalescing articles. 2,882,553, 4-21-59, Cl. 18-5.



- Cahill, Joseph J., Jr., to Colgate-Palmolive Co. Chromatographic purification of higher fatty alcohols. 2,913,501, 11-17-59, Cl. 260-643.
- Cahill, Richard H., C. A. De Fazio, and J. C. Lukman, to Celanese Corp. of America. Polyvinyl acetals. 2,909,507, 10-20-59, Cl. 260-73.
- Cahill, Starr W.: *See*—
- Jaxthelmer, Don C., Cahill, and Simon. 2,884,945.
- Cahn, Harold, and W. J. Theros, to General Cigar Co. Inc. Humidification chamber. 2,867,220, 1-6-59, Cl. 131-136.
- Cahn, Robert L. Double deck sandwich serving unit, having electric cold pan. 2,886,395, 5-12-59, Cl. 312-279.
- Cahoon, Nelson C., to Union Carbide Corp. Electrolytic fuse. 2,876,271, 3-3-59, Cl. 136-135.
- Cahoon, Nelson C., and M. P. Korver, to Union Carbide Corp. Barrier films for galvanic cells. 2,900,433, 8-18-59, Cl. 136-146.
- Cail, Roland A., to Electric & Musical Industries Ltd. Automatic machine tools. 2,917,693, 12-15-59, Cl. 318-162.
- Cail, Roland A., and E. M. Payne, to Electric & Musical Industries Ltd. Control system for automatic machine tools. 2,887,638, 5-19-59, Cl. 318-39.
- Cail, Roland A., and G. E. E. Warder, to Electric & Musical Industries Ltd. Automatic tools and other apparatus for shaping workpieces. 2,894,186, 7-7-59, Cl. 318-39.
- Cailliot, Serge: *See*—
- Appert, Didier, and Cailliot. 2,918,536.
- Cain, Cornelius K., to McNeil Laboratories, Inc. N,N,N',N'' tetraethyl guanidine and its acid addition salts. 2,898,369, 8-4-59, Cl. 260-501.
- Cain, Donald E., and F. E. Zimmerman, to Caterpillar Tractor Co. Fluid compartment drain plug. 2,877,867, 3-17-59, Cl. 184-15.
- Cain, Donald G., and T. P. Moote, to Pan American Petroleum Corp. Process for purification of hydrocarbon solutions of oxygenated organic compounds. 2,877,257, 3-10-59, Cl. 260-450.
- Cain, Francis M., Jr.: *See*—
- Jones, Wallace M., and Cain. 2,875,368.
- Cain, Harry W. Control circuits and apparatus for telephone answering and recording devices. 2,883,461, 4-21-59, Cl. 179-6.
- Cain, Harry W., and J. J. Shively. Electrical terminal structures. 2,906,990, 9-29-59, Cl. 339-205.
- Cain, Joe H.: *See*—
- Bull, Willard C., Cain, Spomer, Finkbeiner and Hill. 2,911,399.
- Bull, Willard C., Cain, Spomer, Finkbeiner and Hill. 2,911,400.
- Bull, Willard C., Cain, Spomer, Finkbeiner and Hill. 2,911,401.
- Cain, William J.: *See*—
- McGraw, Clarence T., and Cain. 2,909,794.
- Caine, Roland H., and G. S. Krohn, to R. R. Donnelley & Sons Co. Machine for exposing photosensitive material through photographic transparencies. 2,916,982, 12-15-59, Cl. 95-76.
- Caine, Thomas P., to National Steel Corp. Pivot mounted apparatus for handling coils of strip material. 2,911,164, 11-3-59, Cl. 242-79.
- Cairns, Edward F. Lawn edge trimmer. 2,902,097, 9-1-59, Cl. 172-15.
- Caisse, Paul G., to The Fuller Brush Co. Dustpan and handle. 2,899,699, 8-18-59, Cl. 15-257.4.
- Calabar Corp.: *See*—
- Mazzola, Ambrose, and Mappin. 2,884,871.
- Calabrese, David A. Tooth brush bristle clamp. 2,897,531, 8-4-59, Cl. 15-257.
- Calamai, Edward A., to General Precision Laboratory Inc. Television camera iris control mechanism. 2,871,776, 2-3-59, Cl. 95-64.
- Calamai, Edward A., to General Precision Laboratory Inc. Winding mechanism. 2,914,263, 11-24-59, Cl. 242-55.11.
- Calandra, Vincent. Budding implement. 2,908,075, 10-13-59, Cl. 30-121.
- Calbest Engineering & Electronics Co.: *See*—
- Fremont, Herbert, and Parker. 2,896,070.
- Calcott, William S., to United States of America, Atomic Energy Commission. Manufacture of UF<sub>4</sub>. 2,908,548, 10-13-59, Cl. 23-145.
- Calcut, Robert C., to Admiral Corp. Fastener assembly and clip therefor. 2,868,489, 1-13-59, Cl. 248-223.
- Caldas, Isidoro, Jr.: *See*—
- Murtaugh, Justin J., and Caldas. 2,882,270.
- Calder, Alexander W., to Joy Mfg. Co. Self-cleaning belt roller. 2,886,169, 5-12-59, Cl. 198-229.
- Calder, Alexander W., to Joy Mfg. Co. Hydraulic cylinder assembly. 2,910,049, 10-27-59, Cl. 121-46.
- Calder, Caesar A. Lay down collar support. 2,883,094, 4-21-59, Cl. 223-83.
- Calderhead, Henry J.: *See*—
- Bird, James R., Calderhead, and Heller. 2,891,221.
- Calderon, Albert, to Calderon Automation, Inc. Charging apparatus for steel making furnaces. 2,892,553, 6-30-59, Cl. 214-18.
- Calderon Automation, Inc.: *See*—
- Calderon, Albert. 2,892,553.
- Calderwood, David L.: *See*—
- Beresford, Hobart, and Calderwood. 2,913,188.
- Calderswood, Gene C., to General Electric Co. Bonding compositions. 2,916,403, 12-8-59, Cl. 117-232.
- Caldwell, Albert G., to Burroughs Wellcome & Co. (U.S.A.) Inc. Diquaternary ammonium compounds and the manufacture thereof. 2,918,464, 12-22-59, Cl. 260-243.
- Caldwell, Blake M., to Welex, Inc. Multiple shaped charge assembly. 2,873,676, 2-17-59, Cl. 102-20.
- Caldwell, Blake M., to Welex, Inc. Well perforating firing means. 2,883,932, 4-28-59, Cl. 102-20.
- Caldwell, Blake M., to Welex, Inc. Perforating assembly. 2,912,930, 11-17-59, Cl. 102-20.
- Caldwell, Carlyle G., and O. B. Wurzburg, to National Starch and Chemical Corp. Cold water soluble amino alkyl ethers of starch. 2,917,506, 12-15-59, Cl. 260-234.
- Caldwell, Charles W.: *See*—
- Herr, Theodore Z., and Caldwell. 2,869,695.
- Caldwell, Harry J., to Barnes Drill Co. Boring unit. 2,867,139, 1-6-59, Cl. 77-3.
- Caldwell, John R.: *See*—
- Coover, Harry W., Jr., and Caldwell. 2,879,254.
- Touey, George P., Kiefer, and Caldwell. 2,881,772.
- Caldwell, John R., and J. C. Martin, to Eastman Kodak Co. Polymers from 3,5-dimethyl-5-hydroxy-2-hexenoic acid, 5-lactone and polyhydroxy compounds. 2,879,260, 3-24-59, Cl. 260-78.3.
- Caldwell, John R. and R. Gilkey, to Eastman Kodak Co. Polyester composition and a vinyl comprising pyrrolidone polymer and method of preparing same. 2,882,255, 4-14-59, Cl. 260-45.4.
- Caldwell, John R., and J. C. Martin, to Eastman Kodak Co. Substituted phenonylidene diimino dibenzoic acids and polyesters therefrom. 2,882,294, 4-14-59, Cl. 260-471.
- Caldwell, John R., and J. W. Wellman, to Eastman Kodak Co. Copolymers of a glycol, a dicarboxylic acid and a hydroxy carboxylic acid. 2,887,468, 5-19-59, Cl. 260-47.
- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Polyesters of a glycol, a dicarboxylic acid and an amino acid. 2,891,929, 6-23-59, Cl. 260-75.
- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Fiber-forming polyesters from trans-1,4-cyclohexanedicarboxylic compounds and 1,1-cyclohexane dimethanol. 2,891,930, 6-23-59, Cl. 260-75.
- Caldwell, John R., R. Gilkey, and C. C. Dannelly, to Eastman Kodak Co. Melt-spun polymeric fibers containing pigments of cross-linked polymerized unsaturated amides and melt spinning composition therefor. 2,893,970, 7-7-59, Cl. 260-45.4.
- Caldwell, John R., and J. C. Martin, to Eastman Kodak Co. Esters of 4-(4'-tolylsulfonyl)-benzoic acid and resinous compositions plasticized therewith. 2,895,842, 7-21-59, Cl. 106-179.
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- Caldwell, John R., and E. H. Hill, to Eastman Kodak Co. Polysulfone resins from bicycloheptene derivatives and sulfur dioxide. 2,899,412, 8-11-59, Cl. 260-79.3.
- Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Polyamides of xylenediamine and an aliphatic dibasic acid ungraded with trans-1,4-cyclohexanedicarboxylic acid or orvalic acid. 2,916,475, 12-8-59, Cl. 260-78.
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- Caldwell, John R., and W. J. Jackson, Jr., to Eastman Kodak Co. Polyamides from norecamphaneaminocarboxylic acids. 2,917,490, 12-15-59, Cl. 260-78.
- Caldwell, Joseph A.: *See*—
- Priest, Gerald G., Morgan, Lytle, Caldwell, and Birdwell. 2,898,294.
- Caldwell, Joseph A., and C. Norman, to Jersey Production Research Co. Apparatus for use in corrosion inhibitor injection. 2,884,942, 5-5-59, Cl. 137-132.
- Caldwell, Joseph A., and M. L. Lytle, to Jersey Production Research Co. Prevention of corrosion. 2,906,708, 9-29-59, Cl. 252-8.55.
- Caldwell, Kenneth. Stone picker rake. 2,888,082, 5-26-59, Cl. 171-63.
- Caldwell, Lawrence G., to Kennedy Van Sann Mfg. & Eng. Corp. Means for controlling the operation of material conveying devices. 2,907,606, 10-6-59, Cl. 302-53.
- Caldwell Mfg. Co., The: *See*—
- Czubachowski, Zygmunt. 2,913,781.
- Decker, Frederick J., and Gregg. 2,871,506.
- Decker, Frederick J., and Gregg. 2,901,768.
- Gregg, Mahlon H., and Decker. 2,890,480.
- Caldwell, Paul N., to Vickers Inc. Power transmission. 2,881,371, 4-7-59, Cl. 317-241.
- Caldwell, Richard L.: *See*—
- Bonner, Tom W., and Caldwell. 2,905,826.
- Caldwell, Samuel P., to The Greist Mfg. Co. Trimming guides. 2,883,756, 4-28-59, Cl. 33-174.
- Caldwell, Samuel P., to The Greist Mfg. Co. Feed dog cover for zigzag and like attachments. 2,911,929, 11-10-59, Cl. 112-160.
- Caldwell, Vernon: *See*—
- Doyle, James A. 2,911,158.
- Doyle, James A. 2,911,159.
- Caldwell, Virginia B.: *See*—
- Bowman, Samuel G. 2,900,164.
- Caldwell, Washington J. Coil inserting machine for armatures. 2,876,896, 1-13-59, Cl. 29-205.



- Caldwell, Washington J. Wire brushing machine for coil leads. 2,916,751, 12-15-59, Cl. 15-21.
- Caldwell, William J., to T. F. Beaman. Method and apparatus for pressurized supply and high velocity air control. 2,872,858, 2-10-59, Cl. 98-33.
- Cale, Stanley A., to Colborne Mfg. Co. Removable scraper assembly for dough sheeting machine. 2,893,873, 8-11-59, Cl. 107-12.
- Caledonia Electronics and Transformer Corp.: *See*—
- Lawson, Harry W., Jr. 2,907,929.
- Calehuff, James M., and W. L. Reiter, to Sylvania Electric Products Inc. Transfer tube mechanism. 2,878,620, 3-24-59, Cl. 49-1.
- Calehuff, James M., W. L. Reiter, and S. L. Skowronski, to Sylvania Electric Products Inc. Suction transfer mechanism. 2,915,201, 12-1-59, Cl. 214-1.
- Calfee, John D., and L. E. Erbaugh, to Monsanto Chemical Co. Production of polyethylene. 2,887,445, 5-19-59, Cl. 204-162.
- Calgary Tent & Awning Ltd.: *See*—
- Birch, Norman E. 2,893,411.
- Cal-Gas Equipment Corp.: *See*—
- Rowles, Franklin M. 2,871,872.
- Calhoun, Ernest N., to Edwin L. Wiegand Co. Electric heating apparatus. 2,899,529, 8-11-59, Cl. 219-34.
- Call, Lloyd W., to Burroughs Corp. Conditional stop control apparatus. 2,907,524, 10-6-59, Cl. 235-151.
- Calfezi, Armin, to Ciba Ltd. Process for printing textile materials and dyestuff preparations thereof. 2,918,345, 12-22-59, Cl. 8-70.
- Calfezi, Armin, to Ciba Ltd. Dibenzacedianthrone. 2,919,284, 12-29-59, Cl. 260-351.
- California Computer Products, Inc.: *See*—
- Morton, Robert C. 2,896,125.
- California-Doran Heat Treating Co.: *See*—
- Sherwood, Robert C. and Lundquist. 2,872,364.
- California Ink Co., Inc. The: *See*—
- Erskine, Archibald M., and Lydon. 2,893,886.
- California Institute Research Foundation: *See*—
- Laue, Eric G. 2,909,059.
- Petracek, Francis J., and Zechmeister. 2,871,267.
- Wittry, David B. 2,916,621.
- California Packing Corp.: *See*—
- Bartlett Harold W. 2,881,919.
- Magnuson, Roy M. 2,910,392.
- Magnuson, Roy M., and Smith. 2,910,393.
- Richardson, Alan C. 2,894,446.
- Richardson, Alan C. 2,913,343.
- California Plasteck, Inc.: *See*—
- Dupree, James N. 2,877,584.
- California Reinforced Plastics Co.: *See*—
- Holland, Kenneth M. 2,887,425.
- California Research Corp.: *See*—
- Baker, Paul E. 2,910,591.
- Baker, Paul E., and Jones. 2,883,548.
- Besse, Celestine P. 2,915,879.
- Blake, Francis G., and Schurman. 2,888,663.
- Blickman, Johannes, and Weamer. 2,878,243.
- Brandt, Harry. 2,871,665.
- Brandt, Harry. 2,900,795.
- Butler, Judson C., Lum, and Carlston. 2,878,235.
- Carlston, Earl F., and Johnson. 2,904,533.
- Carter, Crawford F., and Dreher. 2,892,778.
- Casagrande, Arthur, Besse, and Bigham. 2,895,301.
- De Bolt, Richard R., and Powell. 2,884,365.
- De Priester, Coral L. 2,895,555.
- De Priester, Coral L. 2,905,245.
- De Priester, Coral L., and Simm. 2,887,160.
- Do, Robert E., Daniel, and Alvey. 2,871,970.
- Ellis, John R. B., Robbers, and Rossi. 2,904,592.
- Fatt, Irving, and Chittum. 2,910,436.
- Ferstandig, Louis L. 2,884,457.
- Fries, Bernard A. 2,899,555.
- Frisius, Edward N. 2,885,359.
- Green, Jack. 2,902,153.
- Griep, Elmer F. 2,911,958.
- Grossberg, Arnold L. 2,879,222.
- Harle, Oliver L., and Thomas. 2,892,784.
- Harle, Oliver L., and Thomas. 2,892,785.
- Heaton, Charles D., and Toland. 2,900,428.
- Herbert, Edward V. 2,900,724.
- Hotten, Bruce W. 2,874,121.
- Hotten, Bruce W., and Lowe. 2,868,728.
- Hudachek, Raymond J. 2,877,993.
- Jacobs, Frank C. 2,878,649.
- Johnson, Carl E., Jr. 2,874,779.
- Jones, Stanley B. 2,872,638.
- Jones, Stanley B. 2,888,569.
- Jones, Stanley B., and Meyerhoff. 2,888,568.
- Knudsen, William C. 2,877,859.
- Langlois, Gordon E., and Fischer. 2,902,523.
- Lew, Henry Y. 2,874,125.
- Lew, Henry Y., and Stayner. 2,874,127.
- Lewis, Allen H. 2,875,154.
- Lewis, Allen H. 2,897,156.
- Linn, William E. 2,901,220.
- Lowe, Warren. 2,883,412.
- Lowe, Warren. 2,898,299.
- Lowe, Warren. 2,900,339.
- Lowe, Warren. 2,902,450.
- Lowe, Warren, and Stayner. 2,892,690.
- Lowe, Warren, Stewart, and Stuart. 2,892,791.
- California Research Corp.: *See*—Continued
- Lowe, Warren, Stewart, Stuart, and Kavanagh. 2,892,816.
- Lowe, Warren, Stewart, Stuart, and Kavanagh. 2,892,818.
- Meiners, Edwin P., Jr. Re. 24,648.
- Meneley, William E. 2,870,716.
- Mulvany, Paul K., West, and Goldschmidt. 2,891,990.
- Neely, George L. 2,911,066.
- Nicolson, Kingsley M. 2,919,111.
- Rohrbach, Gilsen H., and Warren. 2,907,351.
- Schlatter, Maurice J., and Lum. 2,895,932.
- Schurman, Glenn A. 2,869,226.
- Scott, John W. 2,902,429.
- Scott, John W., Jr. 2,878,193.
- Scott, John W., Jr. 2,889,287.
- Scott, John W., Jr. 2,898,199.
- Scott, John W., Jr. 2,899,365.
- Scott, John W., Jr., Lavender, and Rossi. 2,870,230.
- Scott, John W., Jr., and Luthy. 2,910,514.
- Seevers, Delmar O. 2,912,164.
- Sieg, Robert P., and Barber. 2,870,082.
- Spurlock, Burwell. 2,889,264.
- Stewart, William T., Goldschmidt. 2,891,991.
- Stewart, William T., Stuart, and Lowe. 2,892,786.
- Stewart, William T., Stuart, and Lowe. 2,892,788.
- Stewart, William T., Stuart, and Lowe. 2,892,792.
- Stewart, William T., Stuart, and Lowe. 2,892,821.
- Stewart, William T., Stuart, Lowe, and Kavanagh. 2,892,819.
- Stewart, William T., Stuart, Lowe, and Kavanagh. 2,892,820.
- Stewart, William T., Wilgus, and Stuart. 2,892,793.
- Stuart, Frank A., Stewart, and Lowe. 2,892,790.
- Stuart, Frank A., Stewart, Lowe, and Kavanagh. 2,892,783.
- Tilley, Aubra E. 2,879,860.
- Toland, William G. 2,876,257.
- Toland, William G. 2,903,450.
- Toland, William G., Jr. 2,870,217.
- Toland, William G., Jr. 2,900,412.
- Toland, William G., and Icaton. 2,878,281.
- Valentine, Ralph S. 2,900,309.
- Weamer, George L. 2,878,185.
- Webster, Antone J., and Humphrey. 2,891,607.
- Wright, James R. 2,870,184.
- California Spray-Chemical Corp.: *See*—
- Kohn, Gustave K. 2,873,252.
- California Umbrella Co.: *See*—
- Russell, Roy A. 2,914,154.
- California Wheeling Machine Products Co.: *See*—
- Enos, Joseph, Jr. 2,901,873.
- Enos, Joseph, Jr. 2,908,121.
- Call-Ouilt Furniture Corp.: *See*—
- Repsich, Steve J. 2,893,472.
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- Repsich, Steve J. 2,903,046.
- Calliri, Vincent J., and L. S. Jolliffe. Cauterizing device. 2,917,614, 12-15-59, Cl. 219-31.
- Callizzano, Pierre, to Societe Rhovyl. Apparatus for the closed circuit dry spinning of artificial or synthetic macromolecular substances. 2,917,775, 12-22-59, Cl. 18-8.
- Calkins, Charles W., to Berrite Powder Co. Tilted axis miller. 2,875,959, 3-3-59, Cl. 241-103.
- Calkins, John C.: *See*—
- Sisson, Harry H., and Calkins. 2,880,510.
- Calkins, John C., to Tuboscope Co. Tubing caliper. 2,907,111, 10-6-59, Cl. 33-178.
- Call, Clinton B. Means for packaging multiple unit capacitor. 2,897,418, 7-28-59, Cl. 317-230.
- Callahan, John J. Devices for use in connection with the sharpening of chisels, plane irons and like tools. 2,902,801, 9-8-59, Cl. 51-220.
- Callahan, Allie, Combination mower, drier and baler. 2,909,881, 10-27-59, Cl. 56-1.
- Callahan, J. Russell: *See*—
- Hoban, Fairfield W. 2,875,877.
- Callahan, Jack D.: *See*—
- Rizzatti, Frank, and Callahan. 2,880,490.
- Callahan, James L.: *See*—
- Foreman, Robert W., Callahan, and Veatch. 2,874,191.
- Idol, James D., Jr., Callahan, and Foreman. 2,881,212.
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- Callahan, John C.: *See*—
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- Callahan, William A., to Detrex Chemical Industries, Inc. Safety glass cleaning. 2,878,188, 3-17-59, Cl. 252-136.
- Callan, Joseph M., and E. D. Spierer, to Magnetic Analysis Corp. Magnetic wire rope testing. 2,889,513, 6-2-59, Cl. 324-37.
- Callan, Joseph M., and C. T. Germann, to Magnetic Analysis Corp. Flaw detector for conducting materials. 2,918,621, 12-22-59, Cl. 324-37.
- Callan, William D. Knockdown sectional air conduits. 2,916,054, 12-8-59, Cl. 138-64.
- Callanen, Frederick B., and R. K. Thomas, to The Pure Oil Co. Mixing device. 2,905,451, 9-22-59, Cl. 259-102.
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- Priester, Amos U., Jr. 2,910,762.
- Ward, Marshall L., and Teal. 2,879,731.



- Callaway, William B., to Bell Telephone Laboratories, Inc. Multiline answering time recorder for use in telephone systems. 2,876,282, 3-3-59, Cl. 179-8.5.
- Callaway, William B., and A. A. Deltuvia, Jr., to Bell Telephone Laboratories, Inc. Telephone traffic data processor. 2,909,608, 10-20-59, Cl. 179-8.
- Callear, Thomas E., and A. S. O'Brien, to Eastman Kodak Co. Photographic paper base. 2,895,827, 7-21-59, Cl. 96-85.
- Callegari, Louis G. Door chain lock assembly. 2,881,611, 4-14-59, Cl. 70-93.
- Callen, Wallace I. Photographic album. 2,902,996, 9-8-59, Cl. 129-20.
- Callender, Bernard L., to GPE Controls, Inc. Relay regulator. 2,904,056, 9-15-59, Cl. 137-83.
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- Callender, Jack E.: *See—*
- Blashfield, William H., Callender, and Harris. 2,905,764.
- Callender, Jack E., and G. E. Bosler, to North Electric Co. Switching apparatus and arrangements for automatic telephone systems. 2,876,292, 3-3-59, Cl. 179-27.5.
- Callender, Russell J. Voltage multiplication systems. 2,880,385, 3-31-59, Cl. 321-2.
- Callery, Charles H., to American Anti Corrosion Corp. Apparatus for applying bitumen coating to metallic surfaces. 2,893,642, 7-7-59, Cl. 239-132.
- Callery Chemical Co.: *See—*
- Adams, Roy M. 2,888,327.
- Bush, Jack D. 2,880,144.
- Carpenter, Richard A. 2,895,985.
- Chamberlain, David L., Jr., and Schechter. 2,898,379.
- Cunningham, George L. 2,900,223.
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- Edwards, Lawrence J. 2,884,439.
- Girardot, Peter R., and Walters. 2,906,771.
- Huff, George F. 2,884,311.
- Joyner, Powell A., and Pressau. 2,882,414.
- Koblitz, Francis F. 2,919,177.
- Letsinger, Robert L., Skoog, and Remes. 2,872,479.
- McElroy, Albert D., and Nigon. 2,889,194.
- Pearson, Richard K., and Wartik. 2,872,474.
- Pressau, Jean P. 2,882,415.
- Schechter, William H. 2,889,370.
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- Schechter, William M. 2,913,306.
- Schechter, William H., and Shakely. 2,888,326.
- Callery, George L. Insert for a container. 2,904,205, 9-15-59, Cl. 215-100.
- Callis, Clayton F., and R. L. Moore, to United States of America, Atomic Energy Commission. Separation of ruthenium from aqueous solutions. 2,903,332, 9-8-59, Cl. 23-14.5.
- Callison, John F.: *See—*
- Samuels, Abe, and Callison. 2,899,758.
- Callison, Richard P., to Butler Mfg. Co. Advertising panel. 2,901,849, 9-1-59, Cl. 40-125.
- Calmonson, Benjamin. Dipstick. 2,917,832, 12-22-59, Cl. 33-126.7.
- Calmes André. Illuminating spectacles. 2,904,670, 9-15-59, Cl. 240-2.
- Calmes, Dallas L., 15% to Wilson Electrical Equipment Co., Inc., 20% to W. F. Wilson, 20% to B. Moore, 5% to G. M. Mathews, and 5% to J. G. Mullins. Wide beam floodlight. 2,907,870, 10-6-59, Cl. 240-3.
- Calor-Emag: *See—*
- Bruckner, Paul, Capeller, Erk, Gottwald, Heyser, Schmitz, and Vedder. 2,892,062.
- Calow, Th., & Co.: *See—*
- Lindemann, Hans. 2,893,275.
- Calsetta, Douglas R.: *See—*
- Starr, Donald F., and Calsetta. 2,884,356.
- Cal-Tronics Corp.: *See—*
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- Calumet & Hecla, Inc.: *See—*
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- Greene, Raymond H. 2,870,816.
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- Terwilliger, Henry L. 2,917,014.
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- Keller, Dan W. 2,877,700.
- Calvert, Gresham H. Heating element. 2,874,256, 2-17-59, Cl. 201-66.
- Calvert, Raymond, to The Wayne Kerr Laboratories Ltd. Apparatus for measuring small distances. 2,880,390, 3-31-59, Cl. 324-61.
- Calvert, Willard R.: *See—*
- Houdry, Eugene J., and Calvert. 2,867,497.
- Calvert, William C., to Borg-Warner Corp. Polymerization of acrylonitrile-alpha methyl styrene mixtures onto polybutadiene and products produced thereby. 2,908,661, 10-13-59, Cl. 260-45.5.
- Calvin, Melvin: *See—*
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- Calvo, Philip S., Jr., and W. C. Moser, to E. I. du Pont de Nemours and Co. Process for the production of regenerated cellulose filaments. 2,893,820, 7-7-59, Cl. 18-54.
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- Paxton, Harold D. 2,910,698.
- Smith, Arthur J. 2,918,675.
- Camarasa Monje, Antonio, to F. C. Jimenez. Apparatus for automatically orientating bodies of ovoid shape. 2,907,442, 10-6-59, Cl. 198-33.
- Cambanis, Louis. Clothes protector for ironing boards. 2,896,346, 7-28-59, Cl. 38-111.
- Cambeis, Walter, to Fried. Krupp Motoren- und Kraftwagenfabriken G.m.b.H. Dual brake systems for automotive vehicles. 2,874,002, 2-17-59, Cl. 303-2.
- Cambell, Lewis, Jr.: *See—*
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- Cambridge Filter Mfg. Corp.: *See—*
- Baldwin, William W. 2,884,091.
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- Engle, Paul M., and Swanton. 2,907,408.
- Cambridge Paper Box Co.: *See—*
- Perry, William H., and Olivier. 2,904,238.
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- Cambridge Thermionic Corp.: *See—*
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- Cambridge Tile Mfg. Co., The: *See—*
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- McGowen, Harold E., Jr., and Daffin. 2,887,163.
- Camco (Machinery) Ltd.: *See—*
- Fry, Stanley R., and McCormick. 2,896,942.
- Camenzind, Louis, Jr. Pneumatic pulley. 2,882,738, 4-21-59, Cl. 74-230.7.
- Camera Mart, Inc., The: *See—*
- Hyman, Samuel. 2,877,957.
- Camera Services, Inc.: *See—*
- Cohn, Nathan, and Emeritz. 2,897,721.
- Camera Vision Productions, Inc.: *See—*
- Robinson, Glen, and Davies. 2,883,903.
- Cameraflex Corp.: *See—*
- Henkel, Joseph F. 2,868,064.
- Camerino, Bruno, and A. Vercellone, to Società Farmaceutici Italia. Conversion of epoxy-ketones into hydroxy compounds by the action of fermenting yeast. 2,880,141, 3-31-59, Cl. 195-51.
- Cameron, Alasdair B., J. Christie, and T. R. Manley, to A. Reyrolle & Co. Ltd. and Moser-Glaser & Co. A.G. Voltage grading in high-voltage switchgear insulation. 2,894,054, 7-7-59, Cl. 174-21.
- Cameron, Donald D.: *See—*
- Brinker, Keith C., Cameron, and Robinson. 2,904,537.
- Cameron, Donald E., W. H. Chilson, C. C. Elisser, and R. Windmuller, to General Foods Corp. Powdered fat composition and process. 2,913,342, 11-17-59, Cl. 99-123.
- Cameron, Donald J., to General Motors Corp. Fluid pressure circuits. 2,913,879, 11-24-59, Cl. 60-97.
- Cameron, Donald P.: *See—*
- Bavley, Abraham, Brunings, and Cameron. 2,876,156.
- Bavley, Abraham, and Cameron. 2,883,319.
- Cameron, Frank L., to Westinghouse Electric Corp. Timing device. 2,891,637, 6-23-59, Cl. 188-96.
- Cameron, Frank L., and H. Brooks, to Westinghouse Electric Corp. Automatic recloser. 2,897,315, 7-28-59, Cl. 200-89.
- Cameron, Frank L., and A. R. Harm, to Westinghouse Electric Corp. Automatic recloser. 2,911,499, 11-3-59, Cl. 200-109.
- Cameron, Frank M. Seat divider. 2,914,115, 11-24-59, Cl. 155-133.
- Cameron, Fred M., Jr., and G. H. Hilton, to Raytheon Co. Voltage regulators. 2,907,921, 10-6-59, Cl. 315-205.
- Cameron, Harry M., and E. S. Wassel, to American Coldset Corp. Drill bit with driven auxiliary bit. 2,877,988, 3-17-59, Cl. 255-301.
- Cameron, Harry M., and B. K. Haffner, to American Coldset Corp. Diamond drill bit. 2,911,196, 11-3-59, Cl. 255-301.
- Cameron, Hugh J.: *See—*
- Rudd, Wallace C., Cameron, and Osterer. 2,898,440.
- Cameron Iron Works, Inc.: *See—*
- Allen, Herbert. 2,873,085.
- Allen, Herbert. 2,874,436.
- Allen, Herbert. 2,877,977.
- Allen, Herbert, Works, and Oliver. 2,912,214.
- Anderson, Clifford E. 2,874,437.
- Oliver, John P. 2,883,141.
- Cameron Machine Co.: *See—*
- Aaron, Charles, and Rockstrom. 2,877,959.
- De Gelleke, Gerrit. 2,895,553.
- De Gelleke, Gerrit. 2,911,071.
- Rockstrom, Leonard, and Aaron. 2,872,126.
- Rockstrom, Leonard, and Schmidt. 2,897,893.
- Schmidt, Leon A., and Rockstrom. 2,877,960.
- Cameron, Margaret D.: *See—*
- Bennett, George E., and Cameron. 2,889,356.
- Cameron, Margaret D., to Monsanto Chemical Co. Herbicidal method and composition employing bis(2-methyl-5-ethylpyridine) copper (II) chloride. 2,913,323, 11-17-59, Cl. 71-2.5.



- Cameron, Reid A.: *See*—  
Lichtenberger, Harold V., and Cameron. 2,880,155.
- Cameron, Robert T., to Westinghouse Electric Corp. Wire severing machines. 2,877,845, 3-17-59, Cl. 164-49.
- Cameron, Russell J.: *See*—  
Di Tirro, Domenic A., and Cameron. 2,906,246.
- Cameron, Warren B. S., to Kenney Mfg. Co. Curtain rod support bracket. 2,918,245, 12-22-59, Cl. 248-263.
- Cameron, William L. Pipe hanger. 2,900,155, 8-18-59, Cl. 248-71.
- Cameron-Johnson, Alan: *See*—  
Orloff, George, and Cameron-Johnson. 2,867,091.
- Cameto, Leon R., to Mistog Gen Equipment Co. Medicinal inhalant atomization. 2,869,188, 1-20-59, Cl. 21-117.
- Cameto, Leon R., to Mistog Gen Equipment Co. Patient treatment enclosure and frame. 2,915,074, 12-1-59, Cl. 135-1.
- Cametti, Benjamin, and W. M. Wepfer, to Westinghouse Electric Corp. Bearings. 2,874,007, 2-17-59, Cl. 308-160.
- Cametti, Benjamin, and A. C. Hagg, to Westinghouse Electric Corp. Totally enclosed canned motor pump. 2,887,061, 5-19-59, Cl. 103-87.
- Cametti, Benjamin, and W. M. Wepfer, to Westinghouse Electric Corp. Motor pump unit. 2,887,062, 5-19-59, Cl. 103-87.
- Camilli, Guglielmo, A. W. Galloway, and C. H. Tuttle, to General Electric Co. Clamping arrangement for cascade transformer. 2,789,488, 3-24-59, Cl. 336-90.
- Camin Laboratories, Inc.: *See*—  
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- Camloc Fasterner Corp.: *See*—  
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Newcomer, Jacob R., Jr., and Griffiths. 2,879,123.  
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Summers, J. Mills, and Newcomer. 2,881,499.
- Camm, William T., to Littleford Brothers, Inc. Bituminous mixer, mobile, complete with heated bitumen tank, and combined aggregate drier and mixer. 2,867,421, 1-6-59, Cl. 259-158.
- Cammack, Arthur R., to Associated Engineering & Equipment Co., Inc. Microphone. 2,900,453, 8-18-59, Cl. 179-115.5.
- Camp, Burton H., and R. G. Clarke. Ram air bomb ejector. 2,905,055, 9-22-59, Cl. 89-1.5.
- Camp, Daniel R.: *See*—  
Soldini, Robert B., and Camp. 2,867,336.
- Camp, Dempsey C., and C. T. Robinson, to The Cumberland Case Co. Double action automatic watering valve. 2,894,717, 7-14-59, Cl. 251-263.
- Camp, Elza G.: *See*—  
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- Camp, Henry R., to Westinghouse Electric Corp. Semiconductor rectifier device. 2,883,591, 4-21-59, Cl. 317-234.
- Camp, James B.: *See*—  
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- Camp, James B., to United States Steel Corp. Light carriage and strip guide mechanism for pin hole detector. 2,886,716, 5-12-59, Cl. 250-219.
- Camp, James B., and D. J. Reed, Jr., to United States Steel Corp. Control system for electrostatic precipitation. 2,897,914, 8-4-59, Cl. 183-7.
- Camp, John M.: *See*—  
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- Camp, Leon W., to Research Corp. Plastic cast ring stack transducer. 2,879,496, 3-24-59, Cl. 340-11.
- Camp, Leon W., to Bendix Aviation Corp. Transducer construction employing annular vibrators. 2,906,991, 9-29-59, Cl. 340-8.
- Camp, Leon W., to Bendix Aviation Corp. Pressure-release structure for transducer. 2,908,245, 10-13-59, Cl. 116-137.
- Camp and McInnes, Inc.: *See*—  
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- Camp, Richard L., and W. J. Paulson. Portable electric lanterns. 2,875,324, 2-24-59, Cl. 240-52.15.
- Camp, Robert W. Low current resistance measuring device. 2,891,219, 6-16-59, Cl. 324-62.
- Camp, S. H., & Co.: *See*—  
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- Camp, Samuel C., and D. R. Stevens, to Gulf Research & Development Co. Hexa-hydrocarbylphosphoramides solvents for halogenated aromatic insecticides. 2,880,131, 3-31-59, Cl. 167-42.
- Camp, William J. Dial control selective ringing apparatus. 2,897,276, 7-28-59, Cl. 179-17.
- Camp, William M., to Coats & Clark Inc. Bobbins. 2,918,886, 12-29-59, Cl. 112-251.
- Campagna, Michele, to Bristol Mfg. Corp. Heat insulated, gusset-type, waterproof footwear. 2,897,610, 8-4-59, Cl. 36-4.
- Campagnie Generale des Etablissements Michellin (Robert Puisseux & Cie): *See*—  
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- Campanell, Samuel, to Bowers Battery and Spark Plug Co. Safety light assembly. Re. 24,631, 4-14-59, Cl. 340-321.
- Campbell, Albert B., to Campbell Products Co. Dispensing valve structure for aerosol container. Re. 24,599, 2-10-59, Cl. 222-394.
- Campbell, Albert B., to Campbell Products Co. Dispensing assembly. 2,870,944, 1-27-59, Cl. 222-509.
- Campbell, Alexander, Jr.: *See*—  
Nettles, Forrest T., and Campbell. 2,892,150.
- Campbell, Alfred, and W. A. Jones, to Parke, Davis & Co. Oxazolidone compounds and means for producing the same. 2,915,527, 12-1-59, Cl. 260-307.
- Campbell, Andrew, Jr., to Houdry Process Corp. Preparation of piperazine. 2,873,274, 2-10-59, Cl. 260-268.
- Campbell, Arthur B., to General Time Corp. Illuminated electric clock. 2,875,320, 2-24-59, Cl. 240-2.1.
- Campbell, Barney P. Distributor for lawn sprinkling systems. 2,880,757, 4-7-59, Cl. 137-627.
- Campbell, Bert J. Sanding pad. 2,889,667, 6-9-59, Cl. 51-186.
- Campbell, Carol, Enterprises, Inc.: *See*—  
Charles, Malcolm J. 2,898,523.
- Campbell, Catherine T.: *See*—  
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- Campbell, Charles E. Rotisserie. 2,885,952, 5-12-59, Cl. 99-421.
- Campbell, Charles H.: *See*—  
Jenkins, Lloyd T., and Campbell. 2,878,229.
- Campbell, Charles H., and D. H. Chadwick, to Monsanto Chemical Co. Manufacture of  $\beta$ -halo-alkyl phosphites. 2,877,260, 3-10-59, Cl. 260-461.
- Campbell, Charles H., and L. T. Jenkins, to The Chemstrand Corp. Acrylonitrile polymer composition stabilized with formaldehyde, tris (hydroxymethyl) phosphonium oxide, and hydrochloric acid, and method of making same. 2,878,228, 3-17-59, Cl. 260-32.6.
- Campbell, Charles H., and L. T. Jenkins, to The Chemstrand Corp. Acrylonitrile polymer composition stabilized with metal formaldehyde sulfoxylate and phenol disulfonic acid and method of making same. 2,878,230, 3-17-59, Cl. 260-32.6.
- Campbell, Charles H., and L. T. Jenkins, to The Chemstrand Corp. Acrylonitrile polymer composition stabilized with metal formaldehyde sulfoxylate, phosphorus pentoxide, and sulfuric acid and method of making same. 2,878,231, 3-17-59, Cl. 260-32.6.
- Campbell, Charles R., to The Chemstrand Corp. Purification of hexamethylene diamine. 2,889,256, 6-2-59, Cl. 202-46.
- Campbell, Claude C., Jr., to General Dynamics Corp. Constant speed system. 2,890,604, 6-16-59, Cl. 74-752.
- Campbell, Claude N., Jr. Bulk dispensing container. 2,894,666, 7-14-59, Cl. 222-528.
- Campbell, Conrad J., to Hercules Powder Co. Air-drying resinous ester from partial allyl ether of pentaerythritol. 2,885,375, 5-5-59, Cl. 260-22.
- Campbell, Dan: *See*—  
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- Campbell, David S., to Cardwell Westinghouse Co. High capacity draft gear. 2,916,163, 12-8-59, Cl. 213-33.
- Campbell, Denis J., Jr.: *See*—  
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- Campbell, Donald A., to Eclipse Fuel Engineering Co. Air control apparatus for boiler. 2,877,834, 3-17-59, Cl. 158-1.
- Campbell, Donald A., and G. L. Anderson, to Eclipse Fuel Engineering Co. Insulated meter connecting pipe joint. 2,885,224, 5-5-59, Cl. 285-30.
- Campbell, Donald A., and J. V. Margason, to Eclipse Fuel Engineering Co. Pressure regulating valve construction and counterbalancing means therefor. 2,905,193, 9-22-59, Cl. 137-505.18.
- Campbell, Donald H.: *See*—  
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- Campbell, Donald K., Jr. Door check. 2,914,792, 12-1-59, Cl. 16-82.
- Campbell, Donald M., and M. M. Seeloff, to The Taylor-Winfield Corp. Rotary current transfer device. 2,879,490, 3-24-59, Cl. 339-5.
- Campbell, Donald N.: *See*—  
Spracklen, Stanford B., Campbell, and Fellows. 2,876,189.
- Campbell, Edward J. and C. T. Double loop sling for use by firemen. 2,884,173, 4-28-59, Cl. 224-6.
- Campbell, Ernest C., Jr., to Hallmark Cards Inc. Sheet material dispensing carton with notched circumscribing traveling cutter. 2,889,879, 6-9-59, Cl. 164-73.
- Campbell, Ernest C., Jr., to Hallmark Cards, Inc. Ribbon spool. 2,894,620, 7-14-59, Cl. 206-53.
- Campbell, Erwin A.: *See*—  
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- Campbell, Floyd A. Marking tool. 2,885,780, 5-12-59, Cl. 30-164.9.
- Campbell, Francis K.,  $\frac{1}{2}$  to The Moran Corp. Uranium detecting devices. 2,878,390, 3-17-59, Cl. 250-83.6.
- Campbell, Francis K.,  $\frac{1}{2}$  to The Moran Corp. Uranium detecting devices. 2,878,391, 3-17-59, Cl. 250-83.6.
- Campbell, Francis K.,  $\frac{1}{2}$  to F. K. Campbell and  $\frac{1}{2}$  to The Moran Corp. Refuse disposal devices. 2,885,975, 5-12-59, Cl. 110-18.
- Campbell, Frank D. Dual speed railroad ballast cleaner. 2,899,759, 8-18-59, Cl. 37-104.
- Campbell, Frank D. Sun visor sign. 2,916,838, 12-15-59, Cl. 40-129.
- Campbell, Frank G. Method of and means for converting diesel internal combustion engines to steam actuated engines. 2,884,908, 5-5-59, Cl. 121-179.



- Campbell, Harris S., to Autogiro Co. of America. Aircraft rotor blade control mechanism. 2,877,856, 3-17-59, Cl. 170-160.25.
- Campbell, Harris S., to Eastern Rotorcraft Corp. Power operated sling release construction. 2,904,369, 9-15-59, Cl. 294-83.
- Campbell, Henry H., to Borg-Warner Corp. Seal. 2,867,456, 1-6-59, Cl. 286-11.
- Campbell, Henry H., to Borg-Warner Corp. Fuel pump. 2,885,962, 5-12-59, Cl. 103-42.
- Campbell, Henry H., and F. C. Stanek, to Borg-Warner Corp. Three gear pressure loaded pump. 2,867,174, 1-6-59, Cl. 103-126.
- Campbell, Hollis O., and A. P. Lipski, to Continental Oil Co. Seisphone and cable assembly. 2,908,890, 10-13-59, Cl. 340-17.
- Campbell, Howard N., to Paramount Textile Machinery Co. Method of and apparatus for forming hosiery package. 2,896,380, 7-28-59, Cl. 53-3.
- Campbell, Hugh H., to The Kaydon Engineering Corp. Grinding wheel dresser. 2,882,887, 4-21-59, Cl. 125-11.
- Campbell, J. Allan: See—  
Babcock, John C., Campbell, and Hogg. 2,916,486.  
Pederson, Raymond L., Herr, Babcock, Campbell, and Hogg. 2,867,630.
- Campbell, J. Allan, J. C. Babcock, and J. A. Hogg, to The Upjohn Co. 6-fluoro-20-hydroxy-4-pregnen-3-ones and the 20-acylates thereof. 2,870,141, 1-20-59, Cl. 260-239.5.
- Campbell, J. Allan, J. C. Babcock, and J. A. Hogg, to The Upjohn Co. Organic compounds and process. 2,873,286, 2-10-59, Cl. 260-397.45.
- Campbell, J. Allan, J. C. Babcock, and J. A. Hogg, to The Upjohn Co. 6-fluoro-9a-halo-11-oxygenated-4-pregnenes and 6-fluoro-9a-halo-11-oxygenated-1,4-pregnadienes. 2,876,219, 3-3-59, Cl. 260-239.55.
- Campbell, J. Allan, R. L. Pederson, J. C. Babcock, and J. A. Hogg, to The Upjohn Co. 6-fluoro-17a-hydroxy-17a-lower aliphatic hydrocarbon-1,4-androstadienes and 6-fluoro-17a-lower aliphatic hydrocarbon estradiols. 2,877,240, 3-10-59, Cl. 260-397.4.
- Campbell, J. Allan, J. C. Babcock, and J. A. Hogg, to The Upjohn Co. 6-fluoroalloopregnaene-3,20-diones and 6-fluoropregnaene-3,20-diones. 2,878,268, 3-17-59, Cl. 260-397.3.
- Campbell, J. Allan, J. C. Babcock, and J. A. Hogg, to The Upjohn Co. 6-fluoro-9a-halo-11-oxygenated-4-pregnenes and 6-fluoro-9a-halo-11-oxygenated-1,4-pregnadienes. 2,880,205, 3-31-59, Cl. 260-239.55.
- Campbell, James H. Power and time board. 2,884,713, 5-5-59, Cl. 35-24.
- Campbell, James K.: See—  
Stilwell, Robert E., and Campbell. 2,892,466.
- Campbell, James R., to Fairchild Engine and Airplane Corp. Resistance welding. 2,880,304, 3-31-59, Cl. 219-107.
- Campbell, James R. Structural panel of honeycomb type. 2,910,153, 10-27-59, Cl. 189-34.
- Campbell, James S., to Queen's University. Free piston machine. 2,912,965, 11-17-59, Cl. 123-46.
- Campbell, John D., to Borg-Warner Corp. Fixed flow pump. 2,915,977, 12-8-59, Cl. 103-42.
- Campbell, John F. Variable area metering valve. 2,875,779, 3-3-59, Cl. 137-529.
- Campbell, John F. Apparatus for vulcanizing V-belts and the like. 2,885,728, 5-12-59, Cl. 18-7.
- Campbell, John F., and E. M. Cagle. Fire-retardant decorative insulating board. 2,889,235, 6-2-59, Cl. 117-72.
- Campbell, John P. External-flow jet flap. 2,891,740, 6-23-59, Cl. 244-15.
- Campbell, John R.: See—  
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- Eaker, Charles M., and Campbell. 2,887,513.
- Schenker, Bernard, Lord, and Campbell. 2,918,633.
- Siefen, Howard T., and Campbell. 2,872,361.
- Campbell, John R., C. M. Eaker, and E. H. Kimball, to Monsanto Chemical Co. Purification of salicylic acid derivatives. 2,891,090, 6-16-59, Cl. 260-474.
- Campbell, John S.: See—  
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Canton, Sidney M., Faller, and Wolnak. 2,890,118.
- Campbell, Kenneth E. Signal device. 2,907,841, 10-6-59, Cl. 200-61.05.
- Campbell, Kenneth N., to Mead Johnson & Co. 1,1-diaryl-2-aminoalkanol. 2,879,294, 3-24-59, Cl. 260-570.
- Campbell, Kenneth N., to Mead Johnson & Co. N-substituted-1-aminoalkyl-3-arylindenes and indanes. 2,884,456, 4-28-59, Cl. 260-570.8.
- Campbell, Lee R. Control valve construction for pneumatic power tools. 2,896,579, 7-28-59, Cl. 121-21.
- Cambell-Lurie Plastics, Inc.: See—  
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- Campbell, Neva L., and R. C. Vickery, to Horizons Inc. Separation of niobium and tantalum values. 2,880,060, 3-31-59, Cl. 23-16.
- Campbell, Oliver, and N. E. Pennels, to Sinclair Refining Co. Heater. 2,898,892, 8-11-59, Cl. 122-356.
- Campbell, Paul E., to Phillips Petroleum Co. Process for decolorizing hydrogenated butadiene polymers with a saturated carboxylic acid. 2,893,982, 7-7-59, Cl. 260-85.1.
- Campbell Pharmaceuticals, Inc.: See—  
Fitch, Howard M. 2,895,981.  
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Fitch, Howard M. 2,911,430.
- Campbell Products Co.: See—  
Campbell, Albert B. Re. 24,599.  
Campbell, Albert B. 2,870,944.
- Campbell, Richard D., to Westinghouse Air Brake Co. Differentiator. 2,901,609, 8-25-59, Cl. 250-27.
- Campbell, Richard D., to Westinghouse Air Brake Co. Frequency measuring apparatus. 2,908,865, 10-13-59, Cl. 324-78.
- Campbell, Robert A.,  $\frac{1}{10}$  to Gadget-Of-The-Month Club, Inc. Ash-retaining jacket for a cigarette. 2,900,987, 8-25-59, Cl. 131-174.
- Campbell, Robert B., to The Franklin Institute of the State of Pennsylvania. Acicular metal particles and method of making the same. 2,879,154, 3-24-59, Cl. 75-5.
- Campbell, Robert E., to Sloan Valve Co. Vacuum breakers. 2,877,789, 3-17-59, Cl. 137-218.
- Campbell, Robyn M. Quick-change cable clamp. 2,890,511, 6-16-59, Cl. 24-134.
- Campbell, Rollin E., and H. D. Forse; said Campbell assor. to said Forse. Method of and device for folding shirts and similar garments. 2,894,667, 7-14-59, Cl. 223-37.
- Campbell, Rouel R. Garment hanger. 2,908,431, 10-13-59, Cl. 223-96.
- Campbell, Rufus M. Variable speed cone pulley drive. 2,898,772, 8-11-59, Cl. 74-217.
- Campbell, Samuel J.: See—  
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- Campbell, Samuel J., to Food Machinery and Chemical Corp. Heat sealing packaging machine. 2,882,662, 4-21-59, Cl. 53-182.
- Campbell, Shirley P., to The Coleman Co., Inc. Blower structure and method of fabrication. 2,910,224, 10-27-59, Cl. 230-134.
- Campbell Soup Co.: See—  
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- Campbell, Sylvester J.: See—  
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- Campbell, Thaddeus C., to Putnam Rolling Ladder Co., Inc. Ladder. 2,885,132, 5-5-59, Cl. 228-58.
- Campbell, Tod W., to E. I. du Pont de Nemours and Co. Process for forming continuous shaped structure by direct chemical spinning. 2,891,837, 6-23-59, Cl. 18-54.
- Campbell, William D. Fluid cooled electrical apparatus. 2,915,729, 12-1-59, Cl. 338-231.
- Campbell, William G., and P. W. Kelly, to Barber-Colman Co. Automatic hobbing machine. 2,918,849, 12-29-59, Cl. 90-1.
- Campbell, William M., to The Atlantic Refining Co. Well logging recording apparatus. 2,884,589, 4-28-59, Cl. 324-1.
- Campbell, William M., H. H. Arnold, and B. Petrich, to Chrysler Corp. Car loading apparatus. 2,901,987, 9-1-59, Cl. 105-369.
- Campdera Sala, Luis. Dancing toy provided with vibrating acoustic devices. 2,894,356, 7-14-59, Cl. 46-118.
- Campe, William T., to Minneapolis-Honeywell Regulator Co. Seal. 2,916,592, 12-8-59, Cl. 200-168.
- Campton, Frank E., E. D. Glass, and R. A. Morse, to Pan American Petroleum Corp. Heavy oil recovery. 2,901,043, 8-25-59, Cl. 166-11.
- Campione, Saverio J. Presses. 2,874,392, 2-24-59, Cl. 12-36.
- Campo, Alfred. Desoldering tool. 2,882,380, 4-14-59, Cl. 219-26.
- Campo, Peter J. Doorway saddles. 2,909,815, 10-27-59, Cl. 20-64.
- Camps, David C.: See—  
Knops, Ivan P., and Camps. 2,887,046.  
Knops, Ivan P., and Camps. 2,901,970.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Magnetic record duplicating device for producing magnetic records. 2,867,692, 1-6-59, Cl. 179-100.2.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Non-linear magnetic recording compensation. 2,868,890, 1-13-59, Cl. 179-100.2.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Sound motion picture film. 2,869,878, 1-20-59, Cl. 274-41.4.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Magnetic recorder and reproducer for video. 2,900,443, 8-18-59, Cl. 178-6.6.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Means for recording and reproducing video signals. 2,900,444, 8-18-59, Cl. 178-6.6.
- Camras, Marvin, to Armour Research Foundation of Illinois Institute of Technology. Apparatus for making duplicate magnetic records. 2,918,537, 12-22-59, Cl. 179-100.2.
- Camus, Jean C. P. Filing case. 2,884,727, 5-5-59, Cl. 40-156.
- Canada, Alfred H., to General Electric Co. Indicating turbidimeter. 2,892,378, 6-30-59, Cl. 88-14.
- Canada Cycle and Motor Co. Ltd.: See—  
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- Canada, Her Majesty the Queen In The Right of, as represented by the Minister of Mines and Technical Surveys: See—  
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- Canada, Her Majesty the Queen in The Right of, as represented by the Minister of National Defence: *See—*  
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- Canada Packers, Ltd.: *See—*  
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 Barnett, Hugh W., and Perrin. 2,905,561.  
 Bharrucha, Kekhusroo R. 2,868,810.  
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- Canada Paper Co.: *See—*  
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- Canada Wire and Cable Co. Ltd.: *See—*  
 Short, Herbert D. 2,909,336.  
 Short, Herbert D. 2,913,514.
- Canadair Ltd.: *See—*  
 McKenzie, William W. 2,903,101.  
 Parker, Arnold G. 2,886,946.
- Canadian Car Co. Ltd.: *See—*  
 Walker, Lloyd B. 2,902,291.
- Canadian Copper Refiners Ltd.: *See—*  
 Barabas, Silvio. 2,875,040.
- Canadian Forest Products Ltd.: *See—*  
 Zilm, Dwight M. 2,884,966.
- Canadian General Electric Co., Ltd.: *See—*  
 Brooke, Arthur A. 2,906,299.  
 Cass, Samuel, and Hewton. 2,908,891.  
 De Buda, Rudolf G. 2,883,612.  
 Wray, Edward J. 2,912,260.
- Canadian Hanson and Van Winkle Co. Ltd.: *See—*  
 Vaughan, James L. B., Hislop, and Hanna. 2,890,136.  
 Vaughan, James L. B., Hislop, and Hanna. 2,890,137.
- Canadian Ingersoll-Rand Co. Ltd.: *See—*  
 Braatz, Willi. 2,917,809.
- Canadian International Paper Co.: *See—*  
 Saxton, William R., and Mithel. 2,898,222.
- Canadian Lift Truck Co. Ltd.: *See—*  
 Harvey, Frank G. 2,886,919.
- Canadian Patents and Development Ltd.: *See—*  
 Darrach, Marvin, and Polglase. 2,891,091.  
 Halpern, Jack. 2,879,134.  
 Parsons James S. 2,916,825.
- Canadian Westinghouse Co., Ltd.: *See—*  
 Brouwer, Frans. 2,913,648.  
 Flett, Lester C. 2,887,559.  
 Hulls, Leonard R., and Duke. 2,909,717.  
 Lipinski, Jedrzej, and Cheston. 2,875,434.
- Canady, Buel H., and R. C. Hutchison. Dual wheel mounting. 2,911,256, 11-3-59, Cl. 301-36.
- Canady, Florence. Umbrella. 2,875,772, 3-3-59, Cl. 135-35.
- Canady, William P. Hobby horse foot step and stirrup. 2,919,132, 12-29-59, Cl. 272-52.5.
- Canal Industrial Corp.: *See—*  
 Cochran, Lee D. 2,897,366.
- Canalizo, Carlos R., to Otis Engineering Corp. Control valve. 2,886,281, 5-12-59, Cl. 251-57.
- Canalizo, Carlos R., to Otis Engineering Corp. Cut-off device. 2,896,903, 7-28-59, Cl. 251-63.
- Can-Amara Oil Sands Development Ltd.: *See—*  
 Coulson, Gordon R. 2,911,349.  
 Coulson, Gordon R., and Clark. 2,885,339.
- Canarios, Chrysosthenis M., to The Harshaw Chemical Co. Vinyl chloride resin stabilized with three component stabilizer. 2,868,745, 1-13-59, Cl. 260-23.
- Canazzi, Henry D. Unitary engine and supercharger. 2,874,534, 2-24-59, Cl. 60-31.
- Canazzi, Henry D. Speed boat hulls. 2,900,945, 8-25-59, Cl. 114-66.5.
- Candee, Ellsworth T.: *See—*  
 Couch, Earle W., and Candee. 2,904,419.
- Candellise Alfred: *See—*  
 Brehinsky, Wilfred A., and Candellise. 2,874,323.
- Candellise, Alfred, to General Motors Corp. Spark plug and method of making same. 2,894,315, 7-14-59, Cl. 29-25.12.
- Candell, Earl B., to General Electric Co. Lamp package. 2,883,047, 4-21-59, Cl. 206-65.
- Candido, Gaspare R., to National Surgical and Chemical Co., Inc. Colostomy belt. 2,896,624, 7-28-59, Cl. 128-283.
- Candido, Michael, Jr., and J. J. Miskel, to Chas. Pfizer & Co., Inc. Peller implant. 2,883,984, 4-28-59, Cl. 128-217.
- Candidus, Edward S.: *See—*  
 Steinherz, Hans A., and Candidus. 2,890,878.
- Candler, Arden V. Feed mechanism for radial saw. 2,873,508, 2-17-59, Cl. 29-69.
- Candlestick Flower Arranger, Inc.: *See—*  
 Saks, David and E. 2,876,587.
- Candlin, James E., Jr., to Pullman-Standard Car Mfg. Co. Lateral movement control. 2,874,647, 2-24-59, Cl. 105-171.
- Candlin, James E., Jr., to Pullman-Standard Car Mfg. Co. Duplex coach. 2,884,873, 5-5-59, Cl. 105-315.
- Candlin, James E., Jr., to Pullman Inc. Suspension system air spring. 2,912,234, 11-10-59, Cl. 267-3.
- Candlin, James E., Jr., and J. L. Swarner, to Pullman-Standard Car Mfg. Co. Automatic power trainline connector. 2,883,069, 4-21-59, Cl. 213-1.3.
- Candlin, James E., Jr., R. W. Lanman, and W. Van Der Sluys, to Pullman-Standard Car Mfg. Co. Suspension system saddle support. 2,910,014, 10-27-59, Cl. 105-218.
- Candrea, Peter J.: *See—*  
 Vaughan, Wayne W., Spotts, Candrea, and Jarrett. 2,904,991.
- Candy Crafts, Inc.: *See—*  
 Wenger, Abraham. 2,911,304.
- Canepa, Michele, to Olivetti Corp. of America. Decoding and printing apparatus. 2,885,475, 5-5-59, Cl. 178-34.
- Canepa, Michele, to Olivetti Corp. of America. Non-resetting decoding and printing apparatus. 2,901,540, 8-25-59, Cl. 178-34.
- Canepa, Michele, to Olivetti Corp. of America. Magnetic drum storage unit. 2,905,933, 9-22-59, Cl. 340-174.
- Canepa, William P., 1/4 to M. Martin. Double lined brakes for vehicles. 2,897,922, 8-4-59, Cl. 188-70.
- Canfield, Albert V. H.: *See—*  
 Churchill, Alan W., and Canfield. 2,882,929.
- Canfield, Robert W., to Plax Corp. Plastic bottle blowing apparatus. 2,914,799, 12-1-59, Cl. 18-5.
- Canfield, Virgil D. Folding frame Swedish type buck saw. 2,910,101, 10-27-59, Cl. 145-33.
- Canfield, William G., 1/2 to F. J. Lipski. Instrument for and method of measuring and obtaining averages of measurements. 2,879,601, 3-31-59, Cl. 33-147.
- Canfora, Arthur E.: *See—*  
 Di Santi, Nicholas, Canfora, and Liguori. 2,868,875.  
 Phelps, James C., Canfora, Liguori and Mandaot. 2,903,513.
- Caniglia, Ferrante. Milk boiling container. 2,909,172, 10-20-59, Cl. 126-386.
- Cann, Alfred J., to Sanders Associates, Inc. Ionic time-delay apparatus. 2,876,351, 3-3-59, Cl. 250-27.
- Cann, Alfred J., to Sanders Associates, Inc. Peak amplitude discriminator. 2,876,411, 3-3-59, Cl. 321-43.
- Cann, Arthur F., to Stevens-Arnold Inc. Frequency doubling choppers. 2,902,562, 9-1-59, Cl. 200-90.
- Cann, Harry E., Sr., to Esco Cabinet Co. Milking system for domestic animals. 2,910,965, 11-3-59, Cl. 119-14.11.
- Canaday, William R., to Dresser Industries, Inc. Through-tubing perforating systems. 2,896,721, 7-28-59, Cl. 166-55.5.
- Canniff, Thomas L., to American Can Co. Method of applying pigmented coating to sheet metal. 2,878,141, 3-17-59, Cl. 117-71.
- Canniff, Thomas L., and A. E. Balocca, to American Can Co. Organic coating composition. 2,917,391, 12-15-59, Cl. 99-181.
- Canning Equipment Co.: *See—*  
 Keesling, Thomas B. 2,918,098.
- Canning, James R. Football dummy. 2,904,337, 9-15-59, Cl. 273-55.
- Canning, Maurice D., to Western Electric Co., Inc. Conveyor. 2,873,011, 2-10-59, Cl. 193-35.
- Canning, Richard G., to The Regents of The University of California. Electronic sorter. 2,901,732, 8-25-59, Cl. 340-174.
- Canning, William P., and N. Slater, to Benrus Watch Co., Inc. Dial telephone watch. 2,876,617, 3-10-59, Cl. 58-46.
- Cannon, Charles E., Jr., and J. D. Roberge. Method for assembling components. 2,906,016, 9-29-59, Cl. 29-407.
- Cannon, Edward S., and D. B. Lash, to The Berkshire Mfg. Co. Pressure leaf filter with pneumatic vibrator for residue removal. 2,874,848, 2-24-59, Cl. 210-332.
- Cannon Electric Co.: *See—*  
 Arson, Samuel L. 2,869,095.  
 Arson, Samuel L. 2,881,406.
- Cannon, Harry B. Structure for a separating apparatus. 2,902,154, 9-1-59, Cl. 209-444.
- Cannon, Harry B. Method and apparatus for separating and concentrating reagentized granular mixtures. 2,905,322, 9-22-59, Cl. 209-170.
- Cannon, Madison M., to Bird Machine Co. Separator. 2,897,972, 8-4-59, Cl. 210-512.
- Cannon, R. W., & Co., Inc.: *See—*  
 Cannon, Robert W. 2,887,090.
- Cannon, Robert W., to R. W. Cannon & Co., Inc. Method for treating hatching eggs. 2,887,090, 5-19-59, Cl. 119-1.
- Cannon Shoe Co.: *See—*  
 Kallmeyer, Stanley R. 2,876,544.
- Cannon, William A., and C. E. Welling, to Ford Motor Co. Method of selectively oxidizing hydrocarbons in exhaust gases of internal combustion engines. 2,912,300, 11-10-59, Cl. 23-2.
- Cannon, William N., to Eli Lilly and Co. Trichloromethylmercaptopyrazoles. 2,883,462, 5-26-59, Cl. 260-310.
- Canon Camera Co., Inc.: *See—*  
 Kakunodate, Masamichi. 2,896,500.  
 Mizui, Seichiro. 2,874,558.  
 Nojiri, Tatuo. 2,906,469.  
 Nojiri, Tatuo. 2,911,809.  
 Nojiri, Tatuo. 2,917,968.  
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- Cansi Electronics, Inc.: *See—*  
 Catanzaro, Frank C. 2,907,324.
- Cantele, Carlo, and A. Vavassori, to Montecatini, Società Generale per l'Industria Minerarie e Chimica. Expandable structure providing a vehicular enclosure both when compacted and extended. 2,906,556, 9-29-59, Cl. 296-26.
- Canterbury, Wallace D., to U.S. Industries, Inc. Heat exchanger apparatus. 2,892,617, 6-30-59, Cl. 257-202.



- Canterino, Peter J., to Phillips Petroleum Co. Preparation of *p*-xylylene glycol polymers. 2,877,190, 3-10-59, Cl. 260-20.
- Canterino, Peter J., to Phillips Petroleum Co. Composition comprising rubber and halogenated poly-1-olefins. 2,919,252, 12-29-59, Cl. 260-4.
- Cantieri, William F.: *See—*
- Schueler, Lyle B., Cantieri, and Stout. 2,904,260.
- Cantieri, William F., to Diamond Power Specialty Corp. Retractable soot blower of the long travel type. 2,897,532, 8-4-59, Cl. 15-317.
- Canto, Louis, H. F. Mohr, and K. L. Neumann, to Radio Corp. of America. Radio alarm system. 2,912,676, 11-10-59, Cl. 340-164.
- Cantor, Edward B. Vaginal applicator. 2,869,546, 1-20-59, Cl. 128-261.
- Cantor, Sidney M., L. Faller, and B. Wolnak, to J. S. Campbell. Quick cooking cereal and method of forming same. 2,890,117, 6-9-59, Cl. 99-83.
- Cantor, Sidney M., L. Faller, and B. Wolnak, to J. S. Campbell. Quick-cooking cereal product and process of producing same. 2,890,118, 6-9-59, Cl. 99-83.
- Cantor, Theodore: *See—*
- Redniss, Alexander, Goodman, and Cantor. 2,871,098.
- Cantrel, Kenneth E.: *See—*
- Goodhue, Lyle D., and Cantrel. 2,884,355.
- Goodhue, Lyle D., and Cantrel. 2,919,227.
- Cantrell, Troy L., and J. G. Peters, to Gulf Oil Corp. Compounded lubricant compositions, and composite addition agents therefor. 2,915,464, 12-1-59, Cl. 252-32.5.
- Cantwell, Kenneth R., to Phillips Petroleum Co. Blending polymers of 1-olefins with synthetic rubber. 2,910,451, 10-27-59, Cl. 260-45.5.
- Canty, John M., and P. M. Riede, to Union Carbide Corp. Double-walled container with base. 2,874,865, 2-24-59, Cl. 220-15.
- Canzier, Michael. Automobile foot and leg rest. 2,908,323, 10-13-59, Cl. 155-165.
- Cape, Arthur T., to Coast Metals, Inc. Method of increasing the carbon content of deposits of iron-base alloys made from filled tubes. 2,868,957, 1-13-58, Cl. 219-146.
- Cape, Arthur T., to Coast Metals, Inc. Low melting point nickel-iron alloys. 2,880,086, 3-31-59, Cl. 75-171.
- Cape, Arthur T., and C. V. Foerster, to Coast Metals, Inc. Nickel-silicon-boron alloys. 2,899,302, 8-11-59, Cl. 75-170.
- Capek, Louis E., and R. T. Van Campen. Retractable tap feed mechanism operative upon undue axial force on the spindle. 2,869,153, 1-20-59, Cl. 10-135.
- Capell, Robert G., J. H. Wright, and W. A. Gruse, to Gulf Research & Development Co. Recovery of elemental sulfur from sulfur bearing solid mineral matter. 2,897,065, 7-28-59, Cl. 23-312.
- Capell, Robert G., and P. R. Templin, to Gulf Research & Development Co. Wax sized paper. 2,898,293, 8-4-59, Cl. 210-502.
- Capellaro, Natale, to Ing. C. Olivetti & C., S.p.A. Operating mechanism for power driven business machines. 2,902,124, 9-1-59, Cl. 192-33.
- Capellaro, Natale, and T. Gassino, to Ing. C. Olivetti & C., S.p.A. Carriage feed mechanism for combined type-writing and computing machines. 2,875,882, 3-3-59, Cl. 197-82.
- Capelle, Arthur C. Television alignment tool. Re. 24,623, 3-24-59, Cl. 81-3.
- Capelle, Arthur C. Alignment tool. 2,917,954, 12-22-59, Cl. 81-3.
- Capeller, Wolfgang: *See—*
- Bruckner, Paul, Capeller, Erk, Gottwald, Heyser, Schmitz, and Vedder. 2,892,062.
- Capen, Harold N., C. R. Brown, and L. F. Evans, to International Telephone and Telegraph Corp. Method for manufacturing a coaxial filter. 2,911,333, 11-3-59, Cl. 154-225.
- Capener, Erwin L.: *See—*
- Mohr, Robert A., and Capener. 2,878,199.
- Capers, John D.: *See—*
- Cook, Ross, Capers, and Martens. 2,893,660.
- Capewell Mfg. Co., The: *See—*
- Craven, Wilbur J. 2,890,728.
- Capita, Emil R. Zone purification device. 2,870,309, 1-20-59, Cl. 219-10.43.
- Capital Plating & Machine Co.: *See—*
- Rosten, Randolph T. and P. W. 2,906,285.
- Rosten, Randolph T. and P. W. 2,906,332.
- Capital Products Corp.: *See—*
- Royer, Wayne H. 2,864,650.
- Capitani, Arnold P. Folding closet doors. 2,915,118, 12-1-59, Cl. 160-118.
- Capitani, Clito, and E. Mugnaini, to Societa Rhodiatoce S. p. A. Process for obtaining olefines directly from alpha, beta-unsaturated aldehydes. 2,868,858, 1-13-59, Cl. 260-682.
- Capito & Klein Akt.: *See—*
- Engelhardt, Erwin A. 2,894,860.
- Capitol Products Corp.: *See—*
- Temple, Hiram E. 2,902,159.
- Caplan, Alexander. Hair cutting device. 2,896,320, 7-28-59, Cl. 30-30.
- Caplan, Joseph, to Shelly's Mfg. Co. Pillow construction and method of producing same. 2,883,681, 4-28-59, Cl. 5-341.
- Caplan, Max: *See—*
- Suben, Morten. 2,873,155.
- Caplis, George W., and H. F. Fox, Jr., to Westinghouse Electric Corp. Electric lamp base. 2,913,697, 11-17-59, Cl. 339-146.
- Caporali, Arrigo: *See—*
- Weitnauer, Gustavo A., Gioia, and Caporali. 2,872,375.
- Caporicci, Antonio G. Toilet utility bracket. 2,894,639, 7-14-59, Cl. 211-60.
- Capp, Clifford W., H. P. Crocker, and F. J. Bellringer, to The Distillers Co. Ltd. Chlorination of butadiene. 2,912,471, 11-10-59, Cl. 260-654.
- Cappello, John: *See—*
- Yoder, Joe B., and Cappello. 2,901,521.
- Cappio, Peter. Hose support. 2,894,706, 7-14-59, Cl. 248-87.
- Capps, David B., to The Chemstrand Corp. Linear polycyclospiroacetals and method for preparing them. 2,889,290, 6-2-59, Cl. 260-2.
- Capps, Samuel H.: *See—*
- Perry, Mark J., and Capps. 2,868,560.
- Caprarola, Leroy J.: *See—*
- Ammenwerth, Martin F., and Caprarola. 2,913,616.
- Caprino, Joseph C., to General Electric Co. Process for compounding alkyl aryl vinyl silicone elastomer with filler and silanediol, and product obtained thereby. 2,875,172, 2-24-59, Cl. 260-37.
- Caprio, Gerald L., to Motorola, Inc. Cathode ray tube apparatus. 2,880,367, 3-31-59, Cl. 315-27.
- Capron, Adin B., D. A. Edgecombe, and S. O. Evans, to The Babcock & Wilcox Co. Method of applying a particulate lubricant to a tubular extrusion billet. 2,908,384, 10-13-59, Cl. 207-10.
- Capron, Michel V. F., and E. Uher. Variable speed multi-belt transmission. 2,873,690, 3-24-59, Cl. 74-665.
- Capron, Nicholas J., to Pennsalt Chemicals Corp. Isopropyl amine process for rosin acids. 2,878,242, 3-17-59, Cl. 260-97.6.
- Capron, Robert W., to Bendix Aviation Corp. Transducer. 2,899,653, 8-11-59, Cl. 336-30.
- Caps, Arthur W., to Photostat Corp. Copying camera. 2,905,052, 9-22-59, Cl. 88-24.
- Capuder, Fred C., and J. R. Dearwater, to United States of America, Atomic Energy Commission. Reactor nozzle assembly. 2,873,174, 2-10-59, Cl. 23-284.
- Caputa, John S., and P. J. Kask; said Kask assor. to said Caputa. Woven mat. 2,916,798, 12-15-59, Cl. 28-78.
- Caracciola, Nuncio, and N. De Chiara. Sectional door sill. 2,892,222, 6-30-59, Cl. 20-64.
- Caracristi, Virginio Z.: *See—*
- Bogot, Alexander, and Caracristi. 2,895,435.
- Carado Inc.: *See—*
- Glab, William T. 2,872,330.
- Sitterly, Charles K., and Stecher. 2,918,710.
- Caramella, Vittorio: *See—*
- Oglietti, Giovanni, and Caramella. 2,889,404.
- Carando Machine Works: *See—*
- McCoy, Thomas A. 2,880,610.
- McCoy, Thomas A. 2,901,085.
- Carasso, John I., and E. A. Speight. Methods for the treatment of semi-conductor junction devices. 2,902,419, 9-1-59, Cl. 204-141.
- Carbauh, Robert E., to Petcar Research Corp. Clothespin. 2,910,753, 11-3-59, Cl. 24-138.
- Carbon, John A., to Abbott Laboratories. Pyridazines. 2,918,469, 12-22-59, Cl. 260-250.
- Carbonara, Victor E., to Kollsman Instrument Corp. Astro-compass. 2,894,330, 7-14-59, Cl. 33-61.
- Carbone, Frank B.: *See—*
- Laube, Hans. 2,905,049.
- Carboni, Rudolph A., to E. I. du Pont de Nemours and Co. Polynuclear nitrogen containing compounds and process of making same. 2,904,544, 9-15-59, Cl. 260-205.
- Carbonic Development Corp.: *See—*
- Hasche, Rudolph L. 2,909,904.
- Carbonic Dispenser, Inc.: *See—*
- Welty, Frank. 2,913,003.
- Carbonneau, Gordon S. Spark plug testing and setting apparatus. 2,899,634, 8-11-59, Cl. 324-15.
- Carbonneau, Gordon S. Voice coil connection for loud-speakers. 2,906,828, 9-29-59, Cl. 179-115.5.
- Carborundum Co., The: *See—*
- Hanford, Carlton M. 2,873,181.
- Hansen, George R. 2,897,572.
- McCord, Andrew T., and Spink. 2,904,479.
- McMullen, John C. 2,873,197.
- Sandmeyer, Karl H. 2,903,373.
- Sandmeyer, Karl H. 2,911,313.
- Schildhauer, Walter E., and Skuza. 2,907,972.
- Taylor, Kenneth M. 2,872,327.
- Taylor, Kenneth M. 2,887,393.
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- Taylor, Kenneth M. 2,888,355.
- Taylor, Kenneth M. 2,888,738.
- Van Der Beck, Roland R., Jr. 2,916,460.
- Carbrey, Robert L., to Bell Telephone Laboratories, Inc. Volume compression and expansion in pulse code transmission. 2,889,409, 6-2-59, Cl. 179-15.6.
- Carbrey, Robert L., to Bell Telephone Laboratories, Inc. Time assignment signal interpolation system. 2,907,829, 10-6-59, Cl. 179-15.



- Carbrey, Robert L., to Bell Telephone Laboratories, Inc. Code translator. 2,917,734, 12-15-59, Cl. 340-347.
- Carcasson, George V.: *See*—
- Archer, John, and Carcasson. 2,890,378.
- Cardaciotto, Paul S., and E. A. Vitalis, to American Cyanamid Co. Laxative powders containing di- $\gamma$ -octyl sulfosuccinates. 2,871,157, 1-27-59, Cl. 167-56.
- Cardaciotto, Paul S., and E. A. Vitalis, to American Cyanamid Co. Laxative syrups containing di- $\gamma$ -octyl sulfosuccinate salts. 2,871,158, 1-27-59, Cl. 167-56.
- Cardani, Charles P.: *See*—
- Alderman, Leon D., Cardani, Kant, and Kimball. 2,896,213.
- Stolecki, William, Romeo, Cardani, and Woodman. 2,903,698.
- Stolecki, William E., Romeo, Cardani, and Woodman. 2,908,909.
- Cardel Electric Co. Inc.: *See*—
- Maescher, Albert. 2,907,118.
- Cardell, James, and F. T. Hill, to Raytheon Co. Control of electron emission in cathode assemblies. 2,916,652, 12-8-59, Cl. 313-346.
- Carden, Haywood S. Lap split preventing means for attachment to a comb. 2,896,268, 7-28-59, Cl. 19-115.
- Cardiff, George H., to Fraser & Johnston Co. Aimable bomb cluster assembly and adaptor and release mechanism therefor. 2,874,639, 2-24-59, Cl. 102-72.
- Cardinal, Oliver V. Radius and chamfer cutter assembly. 2,874,616, 2-24-59, Cl. 90-12.
- Cardno, John, to Diamond Power specialty Corp. Liquid level gauge. 2,912,860, 11-17-59, Cl. 73-293.
- Cardona, Carlos J. Variable drive. 2,881,624, 4-14-59, Cl. 74-230.17.
- Cardox Corp.: *See*—
- Hesson, James C. 2,880,594.
- Cardwell Westinghouse Co.: *See*—
- Campbell, David S. 2,916,163.
- Johnson, Norman M. 2,907,474.
- Peat, James. 2,893,761.
- Care, Richard L.: *See*—
- Grant, Gardner L., and Care. 2,896,761.
- Care, Richard L., to Grant Development Co. Throughway fare collection device. 2,869,776, 1-20-59, Cl. 232-7.
- Care, Richard L., to Grant Development Co. Dispensing machine. 2,894,612, 7-14-59, Cl. 194-2.
- Carew, Arthur W., to General Electric Co. Ice ejecting and storage means. 2,899,804, 8-18-59, Cl. 62-344.
- Carew, Herman, to American Can Co. Cup carrying package. 2,889,923, 6-9-59, Cl. 206-56.
- Carey, Earle H. Plastic rug cover. 2,894,553, 7-14-59, Cl. 150-52.
- Carey, James E.: *See*—
- Parry, Harvey L., and Carey. 2,909,494.
- Carey, Philip, Mfg. Co., The: *See*—
- Cook, Henry A., Fleming, and Heilman. 2,884,380.
- Fasold, George A., and Blough. 2,871,817.
- Carey, Wesley G., Jr. Rotating valve for internal combustion engines. 2,874,686, 2-24-59, Cl. 123-190.
- Carfagni, Arthur B. Amalgam carrier and dispenser. 2,903,794, 9-15-59, Cl. 32-60.
- Cargill, Allan C., to International Business Machines Corp. Marine time system. 2,897,648, 8-4-59, Cl. 53-26.
- Cargill, Sylvester H., and W. L. Harkess; said Harkess assor. to said Cargill. Wrapping machine. 2,894,362, 7-14-59, Cl. 53-182.
- Cargille, R. P., Laboratories, Inc.: *See*—
- Allen, Roy M. 2,869,417.
- Caribonum Ltd.: *See*—
- Francis, Frederick G., and Neale. 2,915,415.
- Phillipotts, George C. 2,885,302.
- Carignan, Charles J., to E. I. du Pont de Nemours and Co. Production of metal compositions. 2,917,393, 12-15-59, Cl. 106-39.
- Caris, Carl F., to General Motors Corp. Speed responsive control device. 2,910,974, 11-3-59, Cl. 123-103.
- Carissini, Louis C., to Sperry Rand Corp. Shaver with rolling combs. 2,880,503, 4-7-59, Cl. 30-34.
- Carkhuff, Donald W.: *See*—
- Acorn, Byron H., Pennstrom, and Carkhuff. 2,878,075.
- Carkhuff, Le Roy F., to Diamond Gardner Corp. Printing attachment for machine. 2,915,963, 12-8-59, Cl. 101-35.
- Carkhuff, Le Roy F., and R. J. Fahey, to Diamond Gardner Corp. Carton closing and sealing apparatus. 2,881,938, 4-14-59, Cl. 216-29.
- Carl, Wendel. Violin breaking-in apparatus. 2,911,872, 11-10-59, Cl. 84-173.
- Carl, William P., and R. R. Gilruth, to Dynamic Developments, Inc. Hydrofoil craft. 2,914,014, 11-24-59, Cl. 114-66.5.
- Carlberg, Erik R., to Aktiebolaget Elektrolux. Locking device for telescopically fitted parts. 2,884,270, 4-28-59, Cl. 287-58.
- Carle, Amos E. Variable speed transmission. 2,894,405, 7-14-59, Cl. 74-230.17.
- Carle, Don W., and W. Van Wormer, to Beckman Instruments, Inc. Fluid sampling device. 2,916,057, 12-8-59, Cl. 141-27.
- Carlen Corp.: *See*—
- Davis, Carl H., and Grand. 2,904,468.
- Carlén, Solve, and S. A. Lundquist, to Bolidens Gruvaktiebolag. Annealing properties of copper. 2,897,107, 7-28-59, Cl. 148-13.2.
- Carleo, Vincent A., 50% to G. H. Loeb, Jr. Combination storage and dispensing device for wound material. 2,871,078, 1-27-59, Cl. 312-39.
- Carleton, Emile J., to Hydraulic Engineering Co., Inc. Variable capacity pump. 2,907,279, 10-6-59, Cl. 103-120.
- Carleton, Granville E., J. W. Harrison, A. M. Heitman, and P. Dantowitz, to General Electric Co. Control system for turbine drives. 2,894,521, 7-14-59, Cl. 137-17.
- Carleton, Henry. Impact accelerometer. 2,868,611, 1-13-59, Cl. 34-67.
- Carleton, James T., to Westinghouse Electric Corp. Generator power factor, voltage and current control apparatus. 2,879,464, 3-24-59, Cl. 322-24.
- Carletti, Aristide. Folding bed. 2,897,519, 8-4-59, Cl. 5-177.
- Carley, Edmond G., and J. M. Wainscott, to E. I. du Pont de Nemours and Co. Production of chlorinated ethylene. 2,894,045, 7-7-59, Cl. 260-654.
- Carlforfs Bruk, E. Bjorklund & Co. Kommanditbolag: *See*—
- Ek, Stig Y., and Eldh. 2,894,864.
- Carlile, Alfred E., to Talon, Inc. Method of making adjust-Carlín, Benson, to Alcar Instruments, Inc. Transducers used in ultrasonic equipment. 2,896,099, 7-21-59, Cl. 310-26.
- able fastener track. 2,895,170, 7-21-59, Cl. 18-47.5.
- Carlín, Charles P. Fish lure. 2,912,784, 11-17-59, Cl. 43-42.17.
- Carlín, Herbert J., to Polytechnic Institute of Brooklyn. Broadband power meter. 2,899,640, 8-11-59, Cl. 324-95.
- Carlín, Herbert J., to Polytechnic Institute of Brooklyn. Multiplex signalling system. 2,899,650, 8-11-59, Cl. 333-9.
- Carlino, Anthony J.: *See*—
- Mecco, Jerry M., Carlino, and Zimmerman. 2,881,045.
- Carlisle, A. D. and E. A. Combined bib and apron. 2,905,943, 9-29-59, Cl. 2-49.
- Carlisle, Charles H.: *See*—
- Flatow, Tobias, and Carlisle. 2,894,596.
- Carlisle, Charles H., and T. Flatow, to Jersey Production Research Co. Method of determining the dip of geologic formations in the vicinity of a borehole. 2,902,106, 9-1-59, Cl. 181-55.
- Carlisle Chemical Works, Inc.: *See*—
- Mack, Gerry P., and Parker. 2,914,506.
- Carlisle Corp.: *See*—
- Olson, Frank R. 2,911,237.
- Carlisle, Elizabeth A.: *See*—
- Carlisle, A. D. and E. A. 2,905,943.
- Carlisle, James V., and T. M. Arnold, to Ethyl Corp. Apparatus for cell constructions. 2,912,750, 11-17-59, Cl. 29-256.
- Carlisle, Willis C.: *See*—
- McCarvell, John H., and Carlisle. 2,869,568.
- Carlisle, Willis C., J. H. McCarvell, and T. R. Stalder, to Macco Oil Tool Co., Inc. Multiple gas lift production. 2,876,703, 3-10-59, Cl. 103-4.
- Carlo Erba S.p.A.: *See*—
- Giraldi, Pier N., and Logemann. 2,892,865.
- Logemann, Willy, and F. Lauria. 2,873,278.
- Carls, William. Control valve for fluid circuits. 2,902,050, 9-1-59, Cl. 137-599.
- Carlsen, Earl W., and A. Baum. Automatic box filler. 2,896,384, 7-28-59, Cl. 53-59.
- Carlsen, Leonard O.: *See*—
- Baxter, Meriwether L., Jr., and Carlsen. 2,895,384.
- Carlsen, Leonard O., to The Gleason Works. Feed mechanism for a machine for cutting gears and the like. 2,895,385, 7-21-59, Cl. 90-6.
- Carlsen, Leonard O., to The Gleason Works. Backlash-free spindle drive gearing. 2,905,007, 9-22-59, Cl. 74-409.
- Carlsen, Leonard O., to The Gleason Works. Bevel gear generating machine. 2,917,974, 12-22-59, Cl. 90-3.
- Carlsen, Leonard O., W. C. Critchley, and C. F. Magee, to The Gleason Works. Machine and method for producing tapered gears. 2,869,427, 1-20-59, Cl. 90-3.
- Carlsen, Leonard O., A. H. Krastel, and E. Quincey, to The Gleason Works. Hydraulic motion transmitting system. 2,882,635, 4-21-59, Cl. 60-54.5.
- Carlsen, Leonard O., and A. H. Krastel, to The Gleason Works. Index mechanism for a gear machine or the like. 2,898,780, 8-11-59, Cl. 74-816.
- Carlsen, Leonard O., and H. A. Male, to The Gleason Works. Chamfering machine. 2,898,813, 8-11-59, Cl. 90-1.4.
- Carlsen, Leonard O., and R. F. Pigage, to The Gleason Works. Gear cutting machine and method and cutter therefor. 2,913,962, 11-24-59, Cl. 90-5.
- Carlsen, Victor, to Molon Motors and Coil Corp. Induction motor armature control. 2,869,008, 1-13-59, Cl. 310-209.
- Carlsmith, Lawrence A., and J. P. Rich, to Improved Machinery, Inc. Particle advancing apparatus. 2,878,116, 3-17-59, Cl. 92-7.
- Carlsmith, Lawrence A., and J. P. Rich, to Improved Machinery, Inc. Particle advancing apparatus. 2,878,117, 3-17-59, Cl. 92-7.
- Carlson, Arthur E. Apparatus for the production of reinforced sheet materials. 2,880,781, 4-7-59, Cl. 154-1.7.
- Carlson, Arthur G. Combined spectacles and hearing-aid with automatic self-seating earphone. 2,874,230, 2-17-59, Cl. 179-107.
- Carlson, Arthur H., to Holland Co. Ride stabilizer for lateral motion truck. 2,905,106, 9-22-59, Cl. 105-197.



- Carlson, Arthur W., to United States of America, Air Force. Non-saturating transistor ring counter. 2,910,596, 10-27-59, Cl. 307—88.5.
- Carlson, Axel S. Cemetery vase. 2,898,705, 8-11-59, Cl. 47—41.
- Carlson, Barber C., to Dow Corning Corp. Concrete of improved strength. 2,898,221, 8-4-59, Cl. 106—90.
- Carlson, Bernard E., and A. D. Nathan, to E. & J. Mfg. Co. Anesthetic gas machine. 2,870,764, 1-27-59, Cl. 128—188.
- Carlson, Byron, and J. H. Klancke, to McCulloch Corp. Combination bailing and cooling water pump. 2,903,991, 9-15-59, Cl. 115—17.
- Carlson, Carl A., D. L. Pommer, and L. H. Reiten, to General Tool & Engineering Inc. Bottle handling machine. 2,900,775, 8-25-59, Cl. 53—160.
- Carlson, Carl H., and W. L. Russell. Adjustable telescopic handles for broom head stubs and the like. 2,881,018, 4-7-59, Cl. 287—138.
- Carlson, Chesley F., and F. L. Remmele. Work holding pliers. 2,913,943, 11-24-59, Cl. 81—412.
- Carlson, Chester F., to The Battelle Development Corp. Apparatus for developing electrostatic images on sheet material. 2,876,737, 3-10-59, Cl. 118—637.
- Carlson, Chester F., to Haloid Xerox Inc. Apparatus for xerographic development. 2,918,900, 12-29-59, Cl. 118—637.
- Carlson, David J.: *See*—  
Fogarty, Charles F., and Carlson. 2,890,849.
- Carlson, David J., to Radio Corp. of America. U.H.F.-V.H.F. R.F. amplifier for use in tuners. 2,880,282, 3-31-59, Cl. 179—171.
- Carlson, David J., and G. J. Geyer. Self-loading truck. 2,897,985, 8-4-59, Cl. 214—75.
- Carlson, Donald F., to Joslyn Mfg. & Supply Co. Adjustable support for transmission lines. 2,886,269, 5-12-59, Cl. 248—70.
- Carlson, Edmond W.: *See*—  
Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,698.  
Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,699.
- Carlson, Edward C. Bouquet holder. 2,906,061, 9-29-59, Cl. 47—41.
- Carlson, Elliott C. B., to W. F. & John Barnes Co. Can cover feed. 2,906,072, 9-29-59, Cl. 53—67.
- Carlson, Elmer T., and A. R. Constantine, to Electric Distribution Products, Inc. Bus duct system. 2,879,319, 3-24-59, Cl. 174—70.
- Carlson, Elmer T., and A. R. Constantine, to Electric Machinery Mfg. Co. Electrical distribution system. 2,903,503, 9-8-59, Cl. 174—99.
- Carlson, Elmer T., and A. R. Constantine, to Electric Distribution Products, Inc. Electrical distribution system. 2,907,839, 10-6-59, Cl. 200—50.
- Carlson, Emery J., to Allied Chemical Corp. Method for combating fungus employing  $\text{CoCl}_2$ . 2,906,662, 9-29-59, Cl. 167—22.
- Carlson, Emil, to Pioneer Specialty Co. Driving mechanism for retractable antennae. 2,870,973, 1-27-59, Cl. 242—54.
- Carlson, Ernest A., and C. J. Pryor, to The Olofsson Corp. Hydraulic mechanism for retracting diamond boring tool. 2,916,951, 12-15-59, Cl. 77—3.
- Carlson, Ernest C., to International Harvester Co. Reciprocating conveyor hay crusher. 2,909,988, 10-27-59, Cl. 100—98.
- Carlson, Floyd E., to Sundstrand Machine Tool Co. Flow controller unit for stack valve. 2,869,567, 1-20-59, Cl. 137—117.
- Carlson, Frank A., Jr.: *See*—  
Aykanian, Ardashus A., and Carlson. 2,905,972.
- Carlson, Frederick L.: *See*—  
Facchini, Rigo R. 2,895,627.
- Carlson, Frederick O., to H. K. Porter Co., Inc. Tape reel. 2,893,655, 7-7-59, Cl. 242—84.8.
- Carlson, Frederick O., to H. K. Porter Co., Inc. Ruler constructions. 2,893,656, 7-7-59, Cl. 242—84.8.
- Carlson, George R. Rotary work supporting and indexing apparatus. 2,900,770, 8-25-59, Cl. 51—237.
- Carlson, Gilbert F., to Bell & Gossett Co. Vacuum breaker. 2,898,931, 8-11-59, Cl. 137—207.
- Carlson, Gilbert F., to Bell & Gossett Co. Pressure reducing valve. 2,899,973, 8-18-59, Cl. 137—505.41.
- Carlson, Gordon A., S. W. Brown, and J. E. Zettel, to Columbia-Southern Chemical Corp. Purifying alkali metal hydroxide solutions. 2,884,309, 4-28-59, Cl. 23—184.
- Carlson, Harold. Apparatus for electrical recording in telephoto systems. 2,879,127, 3-24-59, Cl. 346—74.
- Carlson, Harold A., A. W. Zub, and O. J. Eickmann, to ACF Industries, Inc. Secondary fuel control for two-stage carburetor. 2,890,031, 6-9-59, Cl. 261—23.
- Carlson, Harry A., deceased; J. R. Nelson, administrator. Bookbinding strips. 2,918,066, 12-22-59, Cl. 129—19.
- Carlson, Harry N., and R. L. Pitchford, to Standard Gage Co., Inc. Adjustable setting master for dial bore gages. 2,893,128, 7-7-59, Cl. 33—143.
- Carlson, John A.: *See*—  
Larson, Harry I. 2,870,991.
- Carlson, John A. Preformed and bonded masonry wall structure. 2,882,712, 4-21-59, Cl. 72—16.
- Carlson, Martin. Automatic door operator. 2,869,861, 1-20-59, Cl. 268—66.
- Carlson, Martin, to G. W. Housby, Jr. Safety door stop. 2,890,475, 6-16-59, Cl. 16—82.
- Carlson, Morris W., to General Motors Corp. Tool. 2,885,919, 5-12-59, Cl. 81—56.
- Carlson, Norman G., to Minnesota Mining and Mfg. Co. Polymerization of fluoroethylene monomers. 2,912,373, 11-10-59, Cl. 204—163.
- Carlson, Oliver. Flexible stabilizer bar for the track roller and meat hook unit on overhead conveyor tracks. 2,907,280, 10-6-59, Cl. 104—89.
- Carlson, Paul G., to Solar Aircraft Co. Variable speed gas turbine. 2,895,295, 7-21-59, Cl. 60—39.16.
- Carlson, Raymond E. Truck wheel and tire dismounter and changer. 2,903,049, 9-8-59, Cl. 157—1.
- Carlson, Reuben C.: *See*—  
De Cola, Rinaldo E., Carlson, and Adel. 2,868,156.  
De Cola, Rinaldo E., Carlson, and Schrot. 2,898,563.  
Honeywell, Charles E., Carlson, and Wolf. 2,898,463.
- Carlson, Reuben C., to Admiral Corp. Very high frequency tuner. 2,868,982, 1-13-59, Cl. 250—40.
- Carlson, Reuben C., to Admiral Corp. Dial disc turret tuner with chassis centrally disposed between discs. 2,868,985, 1-13-59, Cl. 250—40.
- Carlson, Reuben C., to Admiral Corp. Cabinet support. 2,877,973, 3-17-59, Cl. 248—163.
- Carlson, Reuben C., to Admiral Corp. Chassis assembly for TV tuner. 2,878,378, 3-17-59, Cl. 250—20.
- Carlson, Reuben C. Tuner having wafer switch discs shielded from turret switch discs by chassis. 2,898,465, 8-4-59, Cl. 250—40.
- Carlson, Richard G., to Hoffman Electronics Corp. Conductor insulator combinations or the like. 2,919,300, 12-29-59, Cl. 174—153.
- Carlson, Roy H., and W. W. Anderson. Brush with detachable bristles. 2,912,709, 11-17-59, Cl. 15—178.
- Carlson, Theodore F. Ball suspension joints. 2,885,236, 5-5-59, Cl. 287—90.
- Carlson, Wilbur L., to General Motors Corp. Pole pieces. 2,913,603, 11-17-59, Cl. 310—42.
- Carlson, William L., Jr., and R. C. Erickson, to Minneapolis-Honeywell Regulator Co. Fluid actuator. 2,897,650, 8-4-59, Cl. 60—52.
- Carlson, William L., Jr., and W. J. Robinson, to Minneapolis-Honeywell Regulator Co. Relay. 2,890,810, 6-9-59, Cl. 200—112.
- Carlsson, Alvar. Liquid sprayers. 2,908,297, 10-13-59, Cl. 141—20.
- Carlsson, Hans T. H. Alternating current generators, especially for automotive vehicles. 2,902,006, 9-1-59, Cl. 307—10.
- Carlsson, Sven, and K. R. Larsen, to AB Svenska Flaktfabriken. Apparatus for treating boards of dehydrated wood or similar materials in sheet form. 2,881,534, 4-14-59, Cl. 34—163.
- Carlstedt, Ragnar L., to DHB Corp. Boring machines. 2,878,693, 3-24-59, Cl. 77—3.
- Carlstedt, Ragnar L., to The R. K. Le Blond Machine Tool Co. Depth gage for boring machines. 2,891,424, 6-23-59, Cl. 77—3.
- Carlstedt, Ragnar L., to The R. K. LeBlond Machine Tool Co. Tangential supply of oil through the work clamp. 2,903,915, 9-15-59, Cl. 77—3.
- Carlstedt, Ragnar L., to The R. K. LeBlond Machine Tool Co. Apparatus for preventing vibration of boring bars. 2,903,916, 9-15-59, Cl. 77—3.
- Carlstedt, Ragnar L., to The R. K. LeBlond Machine Tool Co. Steady rest structure. 2,903,917, 9-15-59, Cl. 77—3.
- Carlstedt, Ragnar L., to DHB Corp. Deep hole boring machine. 2,909,946, 10-27-59, Cl. 77—3.
- Carlstedt, Ragnar L., to DHB Corp. Coolant pump and spindle motor controls. 2,909,947, 10-27-59, Cl. 77—3.
- Carlstedt, Ragnar L., and W. Brandt, to D H B Corp. Depth indicator. 2,876,662, 3-10-59, Cl. 77—3.
- Carlston, Earl F.: *See*—  
Butler, Judson C., Lum, and Carlston. 2,878,235.
- Carlston, Earl F., and G. B. Johnson, to California Research Corp. Preparation of unsaturated polyesters by the reaction of, first, isophthalic acid and a glycol, followed by reaction with unsaturated aliphatic polybasic acid. 2,904,533, 9-15-59, Cl. 260—75.
- Carlston, Herald L. Filing unit. 2,918,921, 12-29-59, Cl. 129—16.1.
- Carlstrom, Ture H., to Sylvania Electric Products Inc. Insulating heater within cathode sleeves. 2,915,355, 12-1-59, Cl. 316—1.
- Carlton, Earl. Buffing wheel. 2,913,856, 11-24-59, Cl. 51—193.
- Carlton, Jean. Measuring and detecting apparatus. 2,878,674, 3-24-59, Cl. 73—432.
- Carlton, Lawrence W.: *See*—  
Kramer, Vance M., and Carlton. 2,879,953.  
Kramer, Vance M., and Carlton. 2,888,712.  
Kramer, Vance M., and Carlton. 2,909,198.
- Carlton, Lynn R., to Erie Foundry Co. Control for a fluid operated hammer. 2,892,449, 6-30-59, Cl. 121—30.
- Carlton, Raymond R., to Omak Industries, Inc. Saw bar with nose insert. 2,897,856, 8-4-59, Cl. 143—32.
- Carlton, Raymond R., to Omak Industries, Inc. Saw chain cutters with thin cutting portion and thick base. 2,897,857, 8-4-59, Cl. 143—135.



- Carlton, Raymond R., and P. E. Mortensen, to Omark Industries, Inc. Automatic cutter grinder. 2,898,708, 8-11-59, Cl. 51-98.
- Carlton, Stuart S., to Horizons Titanium Corp. Production of lower valent halides of Ta, Nb, Ti and V. 2,868,704, 1-13-59, Cl. 204-64.
- Carlton, Stuart S., and B. C. Raynes, to Horizons Titanium Corp. Electrolytic process. 2,880,149, 3-31-59, Cl. 204-64.
- Carlton, Vida M.,  $\frac{1}{2}$  to D. Howerton. Stand for reading instruction and the like. 2,867,917, 1-13-59, Cl. 35-35.
- Carlyle, Robert L., to The Dow Chemical Co. Process for the production of acrylic acid esters. 2,917,538, 12-15-59, Cl. 260-186.
- Carlyle, Robert L., and E. F. Morris, to Continental Oil Co. Metal-containing organic compositions and method of preparing same. 2,889,279, 6-2-59, Cl. 252-18.
- Carlyle, Robert L., and E. F. Morris, to Continental Oil Co. Magnesium containing organic compositions and method of preparing the same. 2,895,913, 7-21-59, Cl. 252-18.
- Carlzen, Carl F., to Sylvania Electric Products, Inc. Hopper construction for automatic assembly apparatus. 2,893,597, 7-7-59, Cl. 221-238.
- Carlzen, Carl F., and W. L. Lehner, to Sylvania Electric Products, Inc. Automatic assembly apparatus. 2,873,513, 2-17-59, Cl. 29-203.
- Carlzen, Carl F., and W. L. Lehner, to Sylvania Electric Products, Inc. Automatic assembly apparatus. 2,903,697, 9-15-59, Cl. 1-2.
- Carman, Alga L., to Metropolis Bending Co. Crib and play pen unit. 2,889,560, 6-9-59, Cl. 5-100.
- Carman, Justice N., Jr., to Pacific Semiconductors, Inc. Glass sealed crystal rectifier. 2,881,369, 4-7-59, Cl. 317-234.
- Carman, William R.: See—  
Brown, Joseph M., Carman, and Zwirn. 2,877,459.
- Carmen, Lloyd H.: See—  
Clay, Burton R., and Carmen. 2,898,509.
- Carmichael, Joel. Compost making device. 2,880,074, 3-31-59, Cl. 23-259.1.
- Carmichael, Mead S., Jr., and R. A. Stark, to The Scott Viner Co. Leveling device for mobile viner. 2,918,292, 12-22-59, Cl. 280-6.
- Carmichael, Robert: See—  
Huntley Alton K., and Carmichael. 2,901,526.
- Carmichael, Robert, and L. G. Coon, to Union Carbide Corp. Microswitch structure. 2,885,517, 5-5-59, Cl. 200-168.
- Carmichael, Robert D., to Southern States Equipment Corp. Silver coiler. 2,908,945, 10-20-59, Cl. 19-159.
- Carmichael, Robert D., and J. S. Meek, to Southern States Equipment Corp. Sliver guide for textile coiler. 2,897,550, 8-4-59, Cl. 19-159.
- Carmichael, Robert L., to Bell Telephone Laboratories, Inc. Two terminal monostable transistor switch. 2,889,510, 6-2-59, Cl. 320-1.
- Carmichael, Thomas F., to Synco Corp. Electromagnetic device. 2,878,404, 3-17-59, Cl. 310-38.
- Carmichael, Walter C., to American Optical Co. Spectacle cases. 2,913,100, 11-17-59, Cl. 206-5.
- Carmody, Don R.: See—  
Zletz, Alex, and Carmody. 2,892,305.  
Zletz, Alex, and Carmody. 2,893,202.  
Zletz, Alex, and Carmody. 2,896,400-407.
- Carmody, Don R., E. A. Mayerle, and A. Zletz, to Standard Oil Co. Rocket propulsion method. 2,893,203, 7-7-59, Cl. 60-35.4.
- Carmody, Don R., and A. Zletz, to Standard Oil Co. Rocket propulsion method using phosphorus triamide rocket fuel. 2,898,732, 8-11-59, Cl. 60-35.4.
- Carmody, Don R., E. A. Mayerle, and A. Zletz, to Standard Oil Co. Rocket propulsion method. 2,898,733, 8-11-59, Cl. 60-35.4.
- Carmody, Don R., E. A. Mayerle, and A. Zletz, to Standard Oil Co. Rocket propulsion method. 2,898,734, 8-11-59, Cl. 60-35.4.
- Carmody, Don R., and E. A. Mayerle, to Standard Oil Co. Rocket propulsion method. 2,898,735, 8-11-59, Cl. 60-35.4.
- Carmody, Raymond F., to Socony Mobil Oil Co., Inc. Alkyd resin manufacture with isophthalic acid. 2,884,390, 4-28-59, Cl. 260-22.
- Carmody, Raymond F., to Socony Mobil Oil Co., Inc. Mixed resinous esters of oil-modified alkyd resins and of partially-esterified epoxide resins. 2,887,459, 5-19-59, Cl. 260-22.
- Carnacina, Guido. Ten-key printing multiplying and dividing machine. 2,905,382, 9-22-59, Cl. 235-60.
- Carnagua, Harold E.: See—  
Simpson, John M., and Carnagua. 2,911,856.
- Carnagua, Harold E., to Borg-Warner Corp. Automatic transmission and control system therefor. 2,911,848, 11-10-59, Cl. 74-472.
- Carnahan, Robert E.: See—  
Bloom, Barry M., and Carnahan. 2,894,972.
- Carnarius, Edwin H., and D. Kaufman, to American Cyanamid Co. Method of sterile packing. 2,917,878, 12-22-59, Cl. 53-22.
- Carnation Co.: See—  
Loo, Ching C. 2,882,025.
- Carnegie, William L., to General Motors Corp. Transmission and control system. 2,903,910, 9-15-59, Cl. 74-645.
- Carnes, Joseph J., and E. A. Vitalis, to American Cyanamid Co. Dialkyl esters of sulfodicarboxylic acids. 2,887,504, 5-19-59, Cl. 260-481.
- Carnes, Wilbur R., to Caveco Corp. Convertible diffuser. 2,901,958, 9-1-59, Cl. 98-40.
- Carney, Charles S., to Collins Radio Co. Amplitude distribution analyzer. 2,905,888, 9-22-59, Cl. 324-68.
- Carney Co., Inc. The: See—  
Downey, Richard M. 2,882,552.  
Duane, William C. 2,870,839.
- Carney, Dennis J., to United States Steel Corp. Method of producing a fully-killed steel with rimming characteristic. 2,885,752, 5-12-59, Cl. 22-216.
- Carney, Kenneth R., to Northrop Aircraft, Inc. Umbrella clamp. 2,897,694, 8-4-59, Cl. 77-62.
- Carney, Kreigh G., Jr., to United States of America, Atomic Energy Commission. Fuel element for nuclear reactor. 2,894,893, 7-14-59, Cl. 204-193.2.
- Carno, Samson Z. Blind rivet with sealing means. 2,898,798, 8-11-59, Cl. 85-40.
- Carozina, Anthony, G. Levy, and F. Zarel, to American Photographic Instrument Co., Inc. Adjustable stand. 2,873,079, 2-10-59, Cl. 248-125.
- Carolina Knitting Machine Corp.: See—  
Hart, Gene E., and Metcalf. Re. 24,616.
- Carolina Textile Engraving Co.: See—  
Schreiber, Louis. 2,898,834.
- Carolanza, Joseph C. Scrubbing brush with cleaning detergent. 2,887,709, 5-26-59, Cl. 15-136.
- Caron, Maurice, and R. E. Etheridge, to W. B. Jamieson. Paint base. 2,877,130, 3-10-59, Cl. 106-228.
- Caronelle, Inc.: See—  
Otto, Carl L. and L. B., and Briton. 2,867,222.
- Carosella, Michael C., J. H. Jacobs, and T. R. McNeill, to Union Carbide Corp. Lead removal in the electrowinning of chromium. 2,872,395, 2-3-59, Cl. 204-105.
- Caroselli, Frank, to Bell Telephone Laboratories, Inc. Micro-wave impedance branch. 2,910,659, 10-27-59, Cl. 333-98.
- Caroselli, Remus F.: See—  
Kingsbury, Ralph N., and Caroselli. 2,900,275.  
Marzocchi, Alfred, Caroselli, and Rammel. 2,868,669.
- Caroselli, Remus F., and R. K. Gagnon, to Owens-Corning Fiberglass Corp. Method of finishing a glass fiber textile cloth and article produced thereby. 2,868,668, 1-13-58, Cl. 117-46.
- Carp, Arthur. Can opener. 2,891,310, 6-23-59, Cl. 30-15.5.
- Carpenter, Arthur H., deceased; V. C. Carpenter, executrix. Testing device. 2,888,331, 5-26-59, Cl. 23-253.
- Carpenter, Catherine E.: See—  
Rigney, Daniel K., and Carpenter. 2,897,488.
- Carpenter, Clifford L., and S. J. Silvis, to Colgate-Palmolive Co. Concentrating detergent solution. 2,879,839, 3-31-59, Cl. 159-47.
- Carpenter, David L., and L. E. Clements, to International Telephone and Telegraph Corp. Automatic automotive headlight dimming circuit. 2,917,665, 12-15-59, Cl. 315-83.
- Carpenter, Edward F. Cable puller. 2,896,911, 7-28-59, Cl. 254-134.3.
- Carpenter, Edward L., W. H. Wieber, and S. S. Wisotsky, to American Radiator & Standard Sanitary Corp. Method for twisting tubing. 2,881,517, 4-14-59, Cl. 29-423.
- Carpenter, Ernest L. Self-propelled dispensing and spreading unit and compacter. 2,906,438, 9-29-59, Cl. 222-177.
- Carpenter, Herbert L., to The Greif Bros. Co. Cooperation Corp. Method and apparatus for contracting and compressing fibre shells. 2,892,749, 6-30-59, Cl. 154-83.
- Carpenter, Herbert L., and Herbert L. Carpenter, Jr., to The Greif Bros. Co. Cooperation Corp. Closure assembly for fibre containers and method of making the same. 2,884,176, 4-28-59, Cl. 229-5.6.
- Carpenter, Herbert L., Jr.: See—  
Carpenter, Herbert L., and Herbert L. Carpenter, Jr. 2,884,176.
- Carpenter, Irvin M.: See—  
Melton, James O., and Carpenter. 2,884,002.
- Carpenter, James H.: See—  
Spencer, Robert V. 2,875,898.
- Carpenter, James R.: See—  
Welter, George L., and Carpenter. 2,918,741.
- Carpenter, Keith H., and F. W. Reinhold, to United Shoe Machinery Corp. Fastener inserting devices. 2,875,730, 3-3-59, Cl. 121-11.
- Carpenter, Kenneth L., to The Hoover Co. Capacitor run motors. 2,907,904, 10-6-59, Cl. 310-166.
- Carpenter, L. E., & Co., Inc.: See—  
Sylvester, Arthur D., and Scheiding. 2,875,543.
- Carpenter, Louis M. Wire stripping apparatus. 2,902,797, 9-8-59, Cl. 51-80.
- Carpenter, Marion S., and W. M. Easter, Jr., to The Givaudan Corp. 4-tert-butyl  $\alpha$ -methyl hydrocinnamic aldehyde. 2,875,131, 2-24-59, Cl. 167-94.
- Carpenter, Marion S., W. M. Easter, Jr., and T. F. Wood, to The Givaudan Corp. Substituted tetrahydronaphthalenes. 2,897,237, 7-28-59, Cl. 260-592.
- Carpenter, Marion S., W. M. Easter, Jr., and T. F. Wood, to The Givaudan Corp. Process for making substituted 2,3-hexanediois. 2,915,561, 12-1-59, Cl. 260-618.
- Carpenter, Marshall M., Jr., to United States of America, Army. System for increasing signal to noise ratio of pick-up tubes. 2,892,027, 6-23-59, Cl. 178-7.2.
- Carpenter, Paul G.: See—  
Reynolds, William B., and Carpenter. 2,870,107.



- Carpenter, Paul G., to Phillips Petroleum Co. Process of plasticizing high mooney synthetic rubber with a low mooney synthetic rubber. 2,877,200, 3-10-59, Cl. 260—33.6.
- Carpenter, Paul G., to Phillips Petroleum Co. Recovery of hydrocarbons from oil-bearing strata. 2,880,802, 4-7-59, Cl. 166—11.
- Carpenter, Paul G., to Phillips Petroleum Co. Disposable rubber products. 2,898,999, 8-11-59, Cl. 166—46.
- Carpenter, Paul G., to Phillips Petroleum Co. Kick-off for gas-lift wells. 2,913,931, 11-17-59, Cl. 102—20.
- Carpenter, Richard A., to Calvery Chemical Co. Process for the preparation of trialkoxyborohydrides. 2,895,985, 7-21-59, Cl. 260—462.
- Carpenter, Rupert E. H. Electromagnetic relays. 2,891,200, 6-16-59, Cl. 317—198.
- Carpenter, Rupert E. H. Pivotal supports. 2,901,298, 8-25-59, Cl. 308—159.
- Carpenter Steel Co. The: *See*—  
Kegerise, Wesley R. 2,891,859.  
Kegerise, Wesley R., and Heydt. 2,875,042.  
Kegerise, Wesley R., and Lanphier. 2,891,858.
- Carpenter, Thomas J., and A. A. Olsen, to General Electric Co. Lightning arrester improvements. 2,890,389, 6-9-59, Cl. 317—70.
- Carpenter, Tracy L., to Tracy Accessories, Inc. Automobile door lock mechanism. 2,893,774, 7-7-59, Cl. 292—280.
- Carpenter, Victor W., and J. M. Jackson, to Armco Steel Corp. Production of insulative coatings on silicon steel strip. 2,906,645, 9-29-59, Cl. 117—127.
- Carpenter, Virginia C.: *See*—  
Carpenter, Arthur H. 2,888,331.
- Carpenter, William P., to The Superior Electric Co. Attachment plug. 2,910,625, 10-27-59, Cl. 317—14.
- Carper, Harold R., 35 20/36% to C. F. Spickelmier, 32 8/36% to E. S. Greer, and 32 8/36% to B. S. Spickelmier. Apparatus for making composite slabs. 2,897,570, 8-4-59, Cl. 25—1.
- Carper, Royce E. Holder for fishing rod and reel. 2,902,237, 9-1-59, Cl. 248—42.
- Carpinella, Michael J., to Scovill Mfg Co. Prong ring fastener members. 2,916,788, 12-15-59, Cl. 24—216.
- Carpino, Frank. Box blank. 2,901,158, 8-25-59, Cl. 229—35.
- Carr, Aloysius J. Shaftless mill roll stand. 2,899,145, 8-11-59, Cl. 242—58.6.
- Carr, Barney J., and V. D. Peckham, to United States of America, Atomic Energy Commission. Precision time-delay generator. 2,891,155, 6-16-59, Cl. 250—27.
- Carr, Boyd H., R. E. Gunderman, and R. M. Karlinski, to The Dow Chemical Co. Synthetic fibers having a natural crimp and method for preparing the same. 2,880,056, 3-31-59, Cl. 18—54.
- Carr, Charles J., and E. Burns. Self-cleaning collapsible reamer. 2,882,019, 4-14-59, Cl. 255—73.
- Carr, Charles J., and E. Burns. Self-cleaning reamer. 2,882,020, 4-14-59, Cl. 255—73.
- Carr, Charles J., and J. B. Washburn. Directional well bore roller bit. 2,886,293, 5-12-59, Cl. 255—313.
- Carr, Donald E., to Phillips Petroleum Co. Fuel containing anti-cicing additives. 2,876,750, 3-10-59, Cl. 123—1.
- Carr, Donald E., to Phillips Petroleum Co. Asphaltic coating composition and method of application. 2,918,940, 12-29-59, Cl. 138—68.
- Carr, Dugald M., to The Chemical and Industrial Corp. Catalytic apparatus. 2,899,285, 8-11-59, Cl. 23—288.
- Carr, Edward W.: *See*—  
Hansen, George E., and Carr. 2,868,460.
- Carr, Edward W., and G. E. Hansen, to Crane Co. Calibrated relief valve. 2,908,288, 10-13-59, Cl. 137—540.
- Carr, John H., to Dura-Vent Corp. Vent pipe. 2,894,537, 7-14-59, Cl. 138—63.
- Carr, John H., to Dura-Vent Corp. Snap-in lug-in-groove type resilient conduit joint. 2,910,308, 10-27-59, Cl. 285—27.
- Carr, John H., to Dura-Vent Corp. Double wall pipe coupling with locking means. 2,910,311, 10-27-59, Cl. 285—133.
- Carr, John J., and J. N. Scheub. Belt construction. 2,885,685, 5-12-59, Cl. 2—321.
- Carr, Laurence H., to The Edward Valves, Inc. Method of providing a wear resistant surface. 2,903,564, 9-8-59, Cl. 219—107.
- Carr, Lawrence V.: *See*—  
Pidgeon, Elmer F., and Carr. 2,879,965.
- Carr, Norman L.: *See*—  
Folkins, Hillis O., and Carr. 2,888,501.
- Carr, Norman L., to The Pure Oil Co. Isomerization of paraffinic hydrocarbons and method of activating the isomerization catalyst. 2,917,565, 12-15-59, Cl. 260—683.65.
- Carr, Norman L., to The Pure Oil Co. Isomerization of N-paraffin hydrocarbons. 2,917,566, 12-15-59, Cl. 260—683.66.
- Carr, Norman L., V. Brozowski, and O. L. Beber, to The Pure Oil Co. Process for isomerizing saturated hydrocarbons. 2,918,510, 12-22-59, Cl. 260—683.65.
- Carr, Otis T. Amusement device. 2,912,244, 11-10-59, Cl. 272—18.
- Carr, Raymond M.: *See*—  
Pelzer, Harry L., and Carr. 2,877,847.
- Carr, Richard C.: *See*—  
Post, Robert G. 2,878,718.
- Carr, Robert W.: *See*—  
Beebe, Kenneth H., Carr, and Wilson. 2,874,474.
- Carr, Scott W.: *See*—  
Walker, James H., Carr, and Horn. 2,898,825.
- Carr, William F., to Lear, Inc. Permanent magnet rotor. 2,877,366, 3-10-59, Cl. 310—156.
- Carr, William, Jr. Apparatus for cleaning Venetian blinds. 2,878,820, 3-24-59, Cl. 134—122.
- Carrabino, Joseph D.: *See*—  
Ashe, William J. 2,905,259.
- Carrara, Gino, and E. Testa, to Lepetit S.p.A. Purified pyridoxine, analogs and process. 2,897,203, 7-28-59, Cl. 260—295.
- Carraway, William M. Illuminated fishing indicator. 2,871,607, 2-3-59, Cl. 43—17.
- Carrell, Ross M., to United States of America, Air Force. Ribbon-type magnetic armature transducer. 2,890,289, 6-9-59, Cl. 179—115.
- Carrie, William D., to Crane Co. Parts washer. 2,872,895, 2-10-59, Cl. 118—73.
- Carrie, William D., to Crane Co. Plastic fitting testing device. 2,885,886, 5-12-59, Cl. 73—37.5.
- Carrier Conveyor Corp.: *See*—  
Carrier, Robert M., Jr. 2,877,890.  
Carrier, Robert M., Jr. 2,918,070.  
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Morris, John M. 2,885,067.  
Morris, John M. 2,914,313.
- Carrier Corp.: *See*—  
Allen, William A. 2,873,041.  
Allingham, Walter F. 2,867,237.  
Antrim, William D. 2,868,278.  
Ashley, Carlyle M. 2,870,020.  
Ashley, Carlyle M. 2,896,850.  
Ayling, Robert W. 2,896,426.  
Bosworth, Cyrus M., Jr., and Divers. 2,902,834.  
English, Richard A., and Merrick. 2,912,170.  
Garland, Robert J. 2,868,515.  
Gerteis, Karl M. 2,903,004.  
Gerteis, Karl M. 2,905,094.  
Gerteis, Karl M. 2,907,348.  
Hanson, Lars, and Gerteis. 2,917,225.  
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Kessler, Vernon R., and La Grange. 2,869,505.  
Kuklinski, Henry W. 2,907,182.  
Leonard, Louis H., Jr. 2,870,613.  
Leonard, Louis H., Jr. 2,915,886.  
Leonard, Louis H., Jr. 2,918,807.  
MacLeod, David E., and Karb. 2,867,987.  
McGrath, William L. 2,889,690.  
McGrath, William L. 2,911,838.  
McGrath, William L. 2,912,833.  
McGrath, William L. 2,916,894.  
McGrath, William L., and Stevens. 2,889,764.  
McGrath, William L., and Stevens. 2,917,905.  
Merrick, Richard H. 2,873,140.  
Merrick, Richard H. 2,912,171.  
Misener, Walter S. 2,892,615.  
Palmatier, Everett P. 2,894,380.  
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Renner, William E., and Arzberger. 2,870,614.  
Rich, Donald G. 2,902,267.  
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Weller, Peter A. 2,896,920.
- Carrier, Robert M., Jr., to Carrier Conveyor Corp. Vibratory spiral conveyor. 2,877,890, 3-17-59, Cl. 198—220.
- Carrier, Robert M., Jr., to Carrier Conveyor Corp. Apparatus for material treatment. 2,918,070, 12-22-59, Cl. 134—132.
- Carriagan, Charles F. Pleat forming guide. 2,879,927, 3-31-59, Cl. 223—34.
- Carriagan, Carlton E., to Fairchild Engine and Airplane Corp. Passivation of stainless steel alloys. 2,890,974, 6-16-59, Cl. 148—6.14.
- Carriagan, Tracy, to Food Machinery and Chemical Corp. Adjustable support for an automobile jack. 2,892,513, 6-30-59, Cl. 187—8.43.
- Carriol, Louis A., to S. A. T. A. M., Societe Anonyme pour Tous Appareillages Mecaniques. Filling apparatus with an automatic stop. 2,871,894, 2-3-59, Cl. 141—209.
- Carriol, Louis A., to S.A.T.A.M. Societe Anonyme Pour Tous Appareillages Mecaniques. Liquid dispensing apparatus. 2,885,119, 5-5-59, Cl. 222—72.
- Carroll, Benjamin: *See*—  
Berliner, Abraham, and Carroll. 2,904,470.
- Carroll, Benjamin, and V. Kitter, to Heliogen Products, Inc. Diatomic iodine-forming composition and method of making the same. 2,902,405, 9-1-59, Cl. 167—70.
- Carroll, Bernard J.: *See*—  
Eder, George L. 2,869,143.
- Carroll, Burt H., and J. E. Jones, to Eastman Kodak Co. Supersensitization of photographic emulsions using triazines. 2,875,058, 2-24-59, Cl. 96—104.
- Carroll, Charles, to Duff-Norton Co. Worm drive mechanism. 2,884,800, 5-5-59, Cl. 74—425.
- Carroll, Earl J. Can hanger. 2,879,966, 3-31-59, Cl. 248—311.
- Carroll, Esther T. Sectional insert for unfitted ladies handbags. 2,899,998, 8-18-59, Cl. 150—30.
- Carroll, Francis E.: *See*—  
Henderson, Lloyd F., and Carroll. 2,868,731.



- Carroll, James H., and R. S. Hanmer, to Phillips Petroleum Co. Continuous polymerization process for production of high-solids latex. 2,872,438, 2-3-59, Cl. 260—83.7.
- Carroll, James H., and J. A. Runberg, to Phillips Petroleum Co. Production of colorless emulsion-polymerized polymers. 2,888,498, 5-26-59, Cl. 260—680.
- Carroll, James S.: *See*—  
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- Carroll, Jimmy L.: *See*—  
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- Carroll, John D.: *See*—  
Curtiss, George E., Jr., and Carroll. 2,877,040.
- Carroll, John E.: *See*—  
Landis, George G., and Carroll. 2,909,648.
- Carroll, John E., to General Railway Signal Co. Conveyor control system. 2,880,891, 4-7-59, Cl. 214—11.
- Carroll, John E., and J. G. Murray. Electric arc welding power supply. 2,873,356, 2-10-59, Cl. 219—131.
- Carroll, John L., and J. Ewels, to Electric & Musical Industries Ltd. Modulating circuits. 2,900,608, 8-18-59, Cl. 332—52.
- Carroll, John R., to Borg-Warner Corp. Baseboard diffuser. 2,912,917, 11-17-59, Cl. 98—108.
- Carroll, Joseph D. Gas operated safety warning device. 2,878,774, 3-24-59, Cl. 116—112.
- Carroll, Joseph J.: *See*—  
Harris, Lewis J., and Carroll. 2,898,935.
- Carroll, Murray N., and W. M. Kennedy, to Celanese Corp. of America. Textile treatment beam. 2,912,298, 11-10-59, Cl. 8—154.
- Carroll, Robert L. Checking device. 2,878,840, 3-24-59, Cl. 139—167.
- Carron, Maurice C. E., and A. F. Jullien, to Societe Anonyme des Laboratoires Robert & Carriere. 2-(2'-isopropyl-4'-chloro-5'-methyl)-phenoxy-ethyl-2-imidazole and its pharmaceutical uses. 2,915,431, 12-1-59, Cl. 167—52.
- Carruthers, Eben H. Artificial bait and method of activating bait. 2,895,249, 7-21-59, Cl. 43—4.
- Carruthers, Eben H. Automatic leveling mechanism for harvesting machine. 2,913,865, 11-24-59, Cl. 56—209.
- Carruthers, Walter W., and C. L. Kirkpatrick, to United States of America, Navy. Sonar trainer. 2,918,650, 12-22-59, Cl. 340—6.
- Carry, William J.: *See*—  
Gaines, Clarence F. and J. R., De Pew, and Carry. 2,896,962.
- Carshells, Ivan J.: *See*—  
Nichols, Victor L., and Carshells. 2,878,514.
- Carson, Frank J., to Libbey-Owens-Ford Glass Co. Method of bending and cutting glass sheets. 2,880,553, 4-7-59, Cl. 49—79.
- Carson, Frank J., and H. A. Lefset, Jr., to Libbey-Owens-Ford Glass Co. Method and apparatus for bending glass sheets. 2,893,170, 7-7-59, Cl. 49—67.
- Carson, Franklin D. Ball catapulting device. 2,911,758, 11-10-59, Cl. 46—145.
- Carson, Otto L. Brush holder for paint pot. 2,905,419, 9-22-59, Cl. 248—110.
- Carson, Raymond M. Towing bar with wide-range hitch. 2,918,310, 12-22-59, Cl. 280—478.
- Carson, Samuel R. Concrete block construction with a compartment having a knock-out panel. 2,900,814, 8-25-59, Cl. 72—41.
- Carson, Walter C.: *See*—  
Papy, Hugh R., Carson, and Rowley. 2,896,808.
- Carstensen, Harold K.: *See*—  
Smith, Vernon L., and Carstensen. 2,914,697.
- Carstensen, Palle. Flexible containers. 2,907,496, 10-6-59, Cl. 222—92.
- Carstensen, Sylke: *See*—  
Fanslau, Werner, and Carstensen. 2,914,404.
- Cart, Theodore S., to Atlantic Products Corp. Ventilated golf bag. 2,867,257, 1-6-59, Cl. 150—1.5.
- Cart, Theodore S. Bowling ball bag. 2,872,029, 2-3-59, Cl. 206—1.
- Carter, Alton L. Tire deflation signal. 2,882,362, 4-14-59, Cl. 200—61.24.
- Carter, Andrew G., to A. G. and H. T. Carter, d.b.a. Carter Engineering Co. Safety-belt buckle. 2,904,866, 9-22-59, Cl. 24—170.
- Carter, Arthur J. Ash receptacle. 2,903,172, 9-8-59, Cl. 224—28.
- Carter, Clare A.: *See*—  
Butterfield, Peter H., and Carter. 2,908,725.
- Carter, Clare A., to Union Carbide Corp. Production of nonionic surface active agents. 2,870,220, 1-20-59, Cl. 260—615.
- Carter, Clarence F. Machine for dispensing liquids into containers. 2,904,221, 9-15-59, Cl. 222—146.
- Carter, Crawford F., and J. L. Dreher, to California Research Corp. Low temperature method for preparing high temperature greases. 2,892,778, 6-30-59, Cl. 252—33.6.
- Carter, Daniel H., and O. R. Smith, to Welx, Inc. Drilling mud filter cake resistivity measurement. 2,914,725, 11-24-59, Cl. 324—30.
- Carter, Daniel H., and R. H. Huddleston, Jr., to Welx, Inc. Well fluids resistivity measurement apparatus. 2,871,445, 1-27-59, Cl. 324—30.
- Carter, Elbert P., and H. J. Stinger, to E. I. du Pont de Nemours and Co. Apparatus and method for testing electric blasting caps. 2,905,869, 9-22-59, Cl. 317—149.
- Carter Engineering Co.: *See*—  
Carter, Andrew G. 2,904,866.
- Carter, Harold. Game. 2,899,206, 8-11-59, Cl. 273—120.
- Carter, Harriett T.: *See*—  
Carter, Andrew G. 2,904,866.
- Carter, Harry V., to National Tank Co. Apparatus for recovery of petroleum vapors from run tanks. 2,899,013, 8-11-59, Cl. 183—2.7.
- Carter, Herman T., and S. A. Kelnhofer, to Bell Telephone Laboratories, Inc. Multistation telephone intercommunicating and conference system. 2,883,457, 4-21-59, Cl. 179—1.
- Carter, Hugh P.: *See*—  
Gray, Samuel A., and Carter. 2,885,787.
- Carter, Ivan P. V.: *See*—  
Bindon, Douglas G., Carter, and Friedman. 2,880,406.
- Carter, James C. Float for fishing rod and reel. 2,885,817, 5-12-59, Cl. 43—25.
- Carter, James P., to United Shoe Machinery Corp. Shoe machines. 2,885,980, 5-12-59, Cl. 112—52.
- Carter, James P., to United Shoe Machinery Corp. Shoe machines. 2,900,933, 8-25-59, Cl. 112—46.
- Carter, John L., and I. Reingold, to United States of America, Army. Broad band electronic switch. 2,879,485, 3-24-59, Cl. 333—13.
- Carter, John N., and D. N. Rosenblatt, to The Elmco Corp. Method for the isothermal treatment of alloys after casting. 2,875,109, 2-24-59, Cl. 148—3.
- Carter, Joseph H. Steering mechanism for toy vehicles. 2,888,778, 6-2-59, Cl. 46—201.
- Carter, Larry J., to Farnam Mfg. Co., Inc. Reconstituted mica heating element. 2,870,277, 1-20-59, Cl. 200—19.
- Carter, Leon S., 20% to D. S. Polk. Rib type ventilated garment construction. 2,897,506, 8-4-59, Cl. 2—87.
- Carter, Leslie F., to Sperry Rand Corp. Miniature gyro compass. 2,887,784, 5-26-59, Cl. 33—226.
- Carter Mfg. Co.: *See*—  
Graustein, Walter W., Jr. 2,884,506.
- Carter, Newell A., and V. E. Hemborg, to Food Machinery and Chemical Corp. Article diverter for roller conveyors. 2,874,818, 2-24-59, Cl. 193—36.
- Carter, Norman D., H. V. Hess, and M. D. Riordan, to Texaco Inc. Method for the regeneration of zeolite molecular sieve solid selective adsorbents. 2,908,639, 10-13-59, Cl. 208—310.
- Carter, Norman D., and H. V. Hess, to Texaco, Inc. Isomerizing a C<sub>6</sub> hydrocarbon fraction. 2,918,511, 12-22-59, Cl. 260—683.65.
- Carter Parts Co.: *See*—  
Frantz, Nicholas. 2,901,565.  
Frantz, Nicholas. 2,909,615.  
Gloviak, Stanley, and Frantz. 2,903,540.  
Raab, Andrew F. 2,901,574.
- Carter, Paul H., to The Maryland Cup Co. Resilient paper covers for containers and method of manufacture. 2,879,935, 3-31-59, Cl. 229—43.
- Carter Products, Inc.: *See*—  
Berger, Frank M. 2,872,370.  
Berger, Frank M., and Ludwig. 2,878,280.  
Berger, Frank M., and Ludwig. 2,884,444.  
Berger, Frank M., and Plechner. 2,889,253.  
Bondi, Henry S., and Spitzer. 2,916,384.  
Nasarevich, Leo S., and Spitzer. 2,916,383.
- Carter, Ralph B., Co.: *See*—  
Nemecsek, Louis J. 2,899,908.
- Carter, Ralph H.: *See*—  
Bley, Rudolph S., Carter, Edgar, Graybeal, and Schmidt. 2,898,627.
- Carter, Ralph H., and C. B. Kingsbury, to North American Rayon Corp. Method and apparatus for plying and cabling yarn. 2,881,584, 4-14-59, Cl. 57—61.
- Carter, Ralph H., C. B. Kingsbury, and D. J. Lamb, to North American Rayon Corp. Yarn crimping apparatus. 2,900,783, 8-25-59, Cl. 57—34.
- Carter, Richard H., to The Fostoria Pressed Steel Corp. Motor driven pumps. 2,875,694, 3-3-59, Cl. 103—87.
- Carter, Robert C., to Collins Radio Co. Voltage regulator with limited current drain. 2,888,633, 5-26-59, Cl. 323—9.
- Carter, Robert L., to Clark Equipment Co. Steering mechanism for motor vehicles. 2,900,195, 8-18-59, Cl. 280—95.
- Carter, Robert O.: *See*—  
Terlecki, Renat, and Carter. 2,910,535.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Spotting mechanism for use with article banding machines. 2,880,845, 4-7-59, Cl. 198—33.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Apparatus for arranging like articles in uniformly spaced relation. 2,890,787, 6-16-59, Cl. 198—34.
- Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Article-orienting means for use in conveyor apparatus having a rotary spacer screw. 2,911,089, 11-3-59, Cl. 198—33.
- Carter-Waters Corp.: *See*—  
Kulhavy, George W., and Coleman. 2,869,356.
- Carter, William A., to I-T-E Circuit Breaker Co. Measuring system for measuring magnetic flux as a function of exciting current. 2,911,589, 11-3-59, Cl. 324—43.
- Carter, William H., Jr. Sealed radioactivity sample chamber. 2,892,086, 6-23-59, Cl. 250—44.
- Carter, William H., Jr., to Nelson M. Brown. Electrically actuated speed control mechanism for engines. 2,911,077, 11-3-59, Cl. 192—3.



- Carter, Willis M.: *See*—  
 Clore, Thomas H., and Carter. 2,881,497.
- Carthay, Alexander F., to Channel Master Patent Corp. Foldable antenna structures. 2,897,493, 7-28-59, Cl. 343-803.
- Carthay, Alexander F., to Channel Master Corp. Reflector structures for antennas. 2,898,592, 8-4-59, Cl. 343-817.
- Cartledge, Frank, and J. Gonski, to Goodman Mfg. Co. Boring type mining machine having drum type cusp cutter. 2,868,528, 1-13-59, Cl. 262-7.
- Cartledge, Frank, and J. Gonski, to Goodman Mfg. Co. Boring type mining machine having cutter chain cusp removing means. 2,916,273, 12-8-59, Cl. 262-7.
- Cartledge, John R., and C. B. Krekeler, to The Cincinnati Mine Machinery Co. Fastening means for cutter chain pintles. 2,913,917, 11-24-59, Cl. 74-254.
- Cartmell, Thomas R., and J. F. Gifford, to United States of America, Atomic Energy Commission. Airborne radiation detector. 2,898,497, 8-4-59, Cl. 313-93.
- Carton Associates, Inc.: *See*—  
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 Currihan, John F. 2,918,765.
- Cartoux, Henri, and P. Freysinet, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Automatic feed device for industrial apparatus. 2,888,156, 5-26-59, Cl. 214-18.
- Cartoux, Henri, to H. C. Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Safety device for remotely controlled manipulators. 2,899,477, 8-11-59, Cl. 13-16.
- Cartwright, Charles R., to Hercules Powder Co. Saponification of toluic acid esters. 2,916,514, 12-8-59, Cl. 260-515.
- Cartwright, Conrad Y.: *See*—  
 Brown, George W., Cartwright, Hutter, McCann, Nyberg, Skeirik, and Krag. 2,909,968.
- Cartwright, Herbert K., to D. Napier & Son Ltd. Control apparatus for aircraft propulsion units embodying variable pitch constant speed airscrews. 2,872,986, 2-10-59, Cl. 170-135.74.
- Cartwright, Robert W., H. A. Field, F. H. Kruger, and L. W. Malzahn, to Western Electric Co., Inc. Control circuits. 2,878,890, 3-24-59, Cl. 183-4.1.
- Cartwright, Victor F.: *See*—  
 Albro, Paul W., and Cartwright. 2,885,553.
- Cartwright, Victor F. Test apparatus for measuring time delays. 2,915,700, 12-1-59, Cl. 324-57.
- Carty, John. Retractable hitch structure for house trailers or the like. 2,896,969, 7-28-59, Cl. 280-491.
- Carus Chemical Co.: *See*—  
 Carus, Milton B. 2,908,620.
- Carus, Milton B., to Carus Chemical Co. Production of potassium permanganate. 2,908,620, 10-13-59, Cl. 204-82.
- Caruso, Anthony M. Rotary container dispensers. 2,889,187, 6-2-59, Cl. 312-97.1.
- Caruso, Anthony M. Non-conductive coupling. 2,911,246, 11-3-59, Cl. 287-108.
- Carvajal, Fernando, to Schering Corp. Hydroxylated steroid intermediates and methods for their manufacture. 2,887,499, 5-19-59, Cl. 260-397.45.
- Carvalho, Jones N. Gyroscope motor. 2,899,945, 8-18-59, Cl. 123-18.
- Carver, August B., to United States of America, Navy. Missile protective package. 2,903,124, 9-8-59, Cl. 206-3.
- Carver, Fred S., deceased; W. S. Carver, P. H. Condit, and J. A. Shaines, executors; said F. S. Carver, assor. to Fred S. Carver, Inc. Multi-chamber press. 2,917,992, 12-22-59, Cl. 100-37.
- Carver, Fred S., Inc.: *See*—  
 Carver, Fred S. 2,917,992.
- Carver, Gordon M., Jr., and W. Barber, to American Cyanamid Co. Surgical ligature dispenser. 2,893,548, 7-7-59, Cl. 206-63.3.
- Carver, Robert W. Combined card mount and pocket and method of making same. 2,898,257, 8-4-59, Cl. 154-116.
- Carver, Russell H. Belt tighteners. 2,897,683, 8-4-59, Cl. 74-242.1.
- Carver, William S.: *See*—  
 Carver, Fred S. 2,917,992.
- Carwin Co., The: *See*—  
 Sayigh, Adnan A. R. 2,892,866.  
 Van Winckel, Carl E., and Click. 2,916,430.
- Carr, Henry H., and R. C. Hawes, to Applied Physics Corp. Wide-range spectrophotometer. 2,879,393, 3-24-59, Cl. 250-43.5.
- Cary, John E., R. E. Shafer, and V. Cary. Self propelled fibre harvesting and recortivating machine. 2,905,974, 9-29-59, Cl. 19-12.
- Cary, John E., R. E. Shafer, and V. Cary. Fibre stripping device. 2,906,394, 9-29-59, Cl. 198-185.
- Cary, John R., to The Garrett Corp. Spray type evaporative cooler. 2,867,990, 1-13-59, Cl. 62-171.
- Cary, Valerie: *See*—  
 Cary, John E., Shafer, and V. Cary. 2,905,974.  
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- Casablancas High Draft Co. Ltd.: *See*—  
 Noguera, Joseph. 2,893,035.  
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- Casabona, Anthony M., to International Telephone and Telegraph Corp. Landing and traffic control system. 2,878,469, 3-17-59, Cl. 343-112.
- Casacci, Severin X.: *See*—  
 Danel, Pierre F., Casacci, and Jarrian. 2,875,979.
- Casacci, Severin X., to Etablissements Neypric. Thrust bearing construction for rotatable spindles and the like. 2,906,571, 9-29-59, Cl. 308-160.
- Casagrande, Arthur, C. P. Besse, and J. H. Bigham, to California Research Corp. Stabilization of submarine raft foundations. 2,895,301, 7-21-59, Cl. 61-46.5.
- Casagrande, Robert M., R. L. Motard, and C. O. Reed, Jr., to Shell Development Co. Engaging finely-divided solids with a conveying gas. 2,912,284, 11-10-59, Cl. 302-53.
- Casale, Umberto. Machine for shaping already raised dough into bread sticks of the type called "grissini." 2,892,422, 6-30-59, Cl. 107-4.
- Casanov, Lou C.: *See*—  
 Miller, Arthur A. 2,881,572.  
 Miller, Arthur A. 2,887,832.
- Casanova, Gervasio G.: *See*—  
 Casanova, Juan D., and G. G. 2,915,245.
- Casanova, Juan D., and G. G. Payroll change calculating attachment. 2,915,245, 12-1-59, Cl. 235-146.
- Casas, Antonio L. Unlocking device for automobiles. 2,907,237, 10-6-59, Cl. 81-3.
- Casas-Robert, Ramon, and M. Fresard, to Mefina S. A. Device for the automatic fixing of control cams on their shaft in a zig-zag stitch sewing machine. 2,879,732, 3-31-59, Cl. 112-158.
- Cascadden, Lewis E.: *See*—  
 Casey, Walter P., Jr., Cascadden, and Lawson. 2,895,810.
- Cascade Mfg. Co.: *See*—  
 Farmer, Stanley E., and Derhalli. 2,914,368.  
 Farmer, Stanley E., and Faust. 2,874,862.
- Cascades Plywood Corp.: *See*—  
 Whiting, Herbert G. 2,899,991.
- Casco Products Corp.: *See*—  
 Sheahan, Robert E. 2,914,650.  
 Stahl, Gerald E. 2,871,814.
- Case, Everett N., to Sinclair Refining Co. Process for breaking petroleum emulsions employing certain oxyalkylated phenol-aldehyde resins. 2,885,367, 5-5-59, Cl. 252-331.
- Case, Everett N., to Sinclair Refining Co. Cast corrosion inhibitor particle for oil wells. 2,891,009, 6-16-59, Cl. 252-8.55.
- Case, Everett N., to Sinclair Refining Co. Composition of matter. 2,895,974, 7-21-59, Cl. 260-413.
- Case, Arthur W., to General Motors Corp. Atmospheric nozzle for fuel injection system. 2,913,235, 11-17-59, Cl. 261-78.
- Case, J. L. Co.: *See*—  
 Arnold, Bruce C. 2,893,249.  
 Arnold, Bruce C. 2,914,966.  
 Bushmeyer, Richard W. 2,897,903.  
 Christenson, Donald J. 2,916,189.  
 Christenson, Donald J., Hansen, and Richardson. 2,892,571.
- Cole, John M., and Henry. 2,918,307.
- Degenhardt, Wilmar W. 2,880,564.
- Downey, Wayne A. 2,878,035.
- Dumanowski, Ferdinand J. 2,916,330.
- Dutcher, Ival G. 2,888,085.
- Dwyer, William J. 2,871,779.
- Gewalt, Elmer H., and Jozwik. 2,877,616.
- Gordon, Edward D. 2,879,854.
- Heth, Sherman C. 2,892,245.
- Irvine, Houston N. 2,898,607.
- Kline, Harry E., and Vifot. 2,869,652.
- Krause, Norman R., Heth, and Naery. 2,887,761.
- Loizzo, John R., and Matthews. 2,876,639.
- Markel, John M. 2,876,014.
- Naery, John S. 2,882,671.
- Naery, John S. 2,882,672.
- Padrick, John R. 2,872,883.
- Redetzke, Emerv C. 2,873,149.
- Reeser, Esral M. 2,899,840.
- Rogers, Richard E. 2,887,990.
- Schwegler, Roy F. 2,868,207.
- Schwegler, Roy F. 2,897,904.
- Schwegler, Roy F. 2,906,354.
- Seale, William L. 2,913,150.
- Smith, Carlisle F. 2,891,418.
- Smith, Carlisle F., and Skromme. 2,872,860.
- Weiss, Webster J. 2,911,904.
- Wenzel, Philip D. 2,879,856.
- Yeske, Laurel R. 2,918,256.
- Case, George L., to General Electric Co. Support strap for electron gun structures. 2,909,689, 10-20-59, Cl. 313-82.
- Case, James W. Method of producing a glass-reinforced plastic article. 2,906,656, 9-29-59, Cl. 154-90.
- Case, John S. Universal joint. 2,867,101, 1-6-59, Cl. 64-9.
- Case, John S. Oscillating disc pump. 2,906,209, 9-29-59, Cl. 103-142.
- Case, Leslie C., to Gulf Oil Corp. Process for cleaning permeable formations. 2,877,848, 3-17-59, Cl. 166-42.
- Case, Morris A.: *See*—  
 Barton, Clarence D., and Case. 2,869,944.
- Case, Noel L., and J. L. Dohanic, to Louis Marx & Co., Inc. Toy. 2,890,887, 6-16-59, Cl. 274-1.
- Casella, Joseph, Jr., to National Research Corp. Separation of compounds. 2,916,517, 12-8-59, Cl. 260-586.



- Casella, Secondo L.: *See*—  
Morey, Sigmund M., and Casella. 2,893,269.
- Casey, Carl: *See*—  
Poole, Foster M. 2,901,830.
- Casey, Charles L., and J. B. Ryno, to Reliable Engineering Co. Vending machine. 2,885,051, 5-5-59, Cl. 194-71.
- Casey, Dennis A. Coffee maker. 2,875,681, 3-3-59, Cl. 99-287.
- Casey, Edward J., to United States of America, Army. Wide band discriminator. 2,918,577, 12-22-59, Cl. 250-27.
- Casey, Gregory M.: *See*—  
Casey, Robert T. and G. M. 2,917,179.
- Casey, John A., to Air Reduction Co., Inc. Process for preparing saturated monohydric alcohols. 2,908,722, 10-13-59, Cl. 260-642.
- Casey, Joseph J.: *See*—  
Donald, Russell S., Briggs, and Casey. 2,892,067.
- Casey, Patricia L. Multi-use chair. 2,900,011, 8-18-59, Cl. 155-127.
- Casey, Robert F., to Allen B. Du Mont Laboratories, Inc. Delay sweep circuit. 2,871,350, 1-27-59, Cl. 250-27.
- Casey, Robert F., to Allen B. Du Mont Laboratories, Inc. Regenerative delay circuit. 2,891,151, 6-16-59, Cl. 250-27.
- Casey, Robert F., to Allen B. du Mont Laboratories, Inc. Adjustable horizontal sweep circuit. 2,897,358, 7-28-59, Cl. 250-27.
- Casey, Robert F., to Allen B. Du Mont Laboratories, Inc. Retriggered direct coupled sweep circuit. 2,904,680, 9-15-59, Cl. 250-27.
- Casey, Robert T. Tachistoscope. 2,869,252, 1-20-59, Cl. 35-35.
- Casey, Robert T., to General Electric Co. Circuit breaker panelboard. 2,910,629, 10-27-59, Cl. 317-119.
- Casey, Robert T. and G. M. Record holder. 2,917,179, 12-15-59, Cl. 211-40.
- Casey, Thomas M.: *See*—  
Nichols, George E., Nelson, Casey, and Hogan. 2,909,129.
- Casey, Walter P., Jr., L. E. Cascadden, and L. L. Lawson, to Pier Inc. Apparatus for regenerating spent water softening agents. 2,895,810, 7-21-59, Cl. 23-285.
- Casey, William D., Jr. Pressurized container closure. 2,868,419, 1-13-59, Cl. 222-394.
- Cash, A. W., Co.: *See*—  
Wiedmann, John A. 2,878,830.
- Cash, A. W., Valve Mfg. Corp.: *See*—  
Terry, Charles M. 2,872,939.  
Terry, Charles M. 2,917,074.  
Terry, Charles M. 2,917,075.
- Cash, George O., Jr., to Eastman Kodak Co. Polymerization of  $\alpha$ -olefins to solid polymers with catalytic mixtures of aluminum metal, a titanium compound and a tetra substituted ammonium salt. 2,912,424, 11-10-59, Cl. 260-949.
- Cash, Homer O. Safety device for putting an automobile into a non-drivable disposition. 2,882,986, 4-21-59, Cl. 180-82.
- Cashin, Inc.: *See*—  
Cervene, Glen I. 2,903,032.
- Casida, John E., and B. W. Arthur, to Wisconsin Alumni Research Foundation. Process of preparing dimethyl-2,2,2-trichloro-1-N-butylxyloxyethylphosphonate. 2,911,435, 11-3-59, Cl. 260-461.
- Casimir, Hendrik E. G.: *See*—  
Warmoltz, Nicolaas, and Casimir. 2,886,236.
- Casius Corp. Ltd.: *See*—  
Engwall, Anders B. 2,906,113.  
Helmerson, Knut H. 2,901,807.  
Olsson, Karl G. 2,895,204.  
Olsson, Karl G. 2,896,298.  
Schmidt, Bertil J. M., and Olsson. 2,905,566.  
Ulfstedt, Leo T. 2,879,578.  
Ulfstedt, Leo T. 2,880,100.  
Ulfstedt, Leo T., and Bengtsson. 2,898,220.
- Caskey, Paul H., and A. C. Reents, to Illinois Water Treatment Co. Method of regenerating ion exchangers. 2,891,007, 6-16-59, Cl. 210-35.
- Casler, Roger H.: *See*—  
Sanford, Roy S., and Eames. 2,889,897.  
Sedergren Erling D. 2,880,823.
- Caslow, Joseph H., and D. J. Detrich, to American Brake Shoe Co. Apparatus for moving and positioning a movable means. 2,879,644, 3-31-59, Cl. 60-545.
- Caspari, Hans A., to Spinnbau G.m.b.H. Friction clutch. 2,904,977, 9-22-59, Cl. 64-30.
- Cass, Oliver W., to E. I. du Pont de Nemours and Co. Hydrogenation of compounds absorbed on the catalytic support. 2,867,628, 1-6-59, Cl. 260-346.8.
- Cass, Samuel, and J. T. Hewton, to Canadian General Electric Co., Ltd. Traffic actuated traffic light control system. 2,908,891, 10-13-59, Cl. 340-31.
- Cassel, Jonathan F.: *See*—  
Wolff, Franz-Toni. 2,904,871.
- Cassell, William C. Engine liquid cooling system. 2,890,686, 6-16-59, Cl. 123-41.5.
- Cassella Farbwerke Mainkur Akt.: *See*—  
Persch, Walther, and Beyerle. 2,883,380.
- Cassidy, Elaine T.: *See*—  
Murray, Arthur E. 2,898,649.
- Cassidy, Harold G., to Research Corp. Acylated vinylhydroquinones and polymeric products thereof. 2,906,736, 9-29-59, Cl. 260-47.
- Cassidy, Harold G., and M. Ezrin, to Research Corp. Combined electron and ion exchange compositions. 2,900,353, 8-18-59, Cl. 260-22.
- Cassidy, Robert J., to Pace, Inc. Bath apparatus. 2,904,037, 9-15-59, Cl. 128-66.
- Cassie, Frank J.: *See*—  
Huff, Malvin, and Cassie. 2,874,497.
- Cassin, John M.: *See*—  
Cassin, Robert. 2,887,149.
- Cassin, Robert,  $\frac{1}{2}$  to J. M. Cassin. Deck-chair. 2,887,149, 5-19-59, Cl. 155-105.
- Cassinelli, Alfred S. Brass instrument mouthpiece. 2,917,964, 12-22-59, Cl. 84-398.
- Cassioopi, Frank J. Lemon slice squeezers. 2,879,710, 3-31-59, Cl. 100-234.
- Cast, Adolf, to Firma Karl M. Reich. Apparatus for impelling a peg or the like into a body. 2,887,685, 5-26-59, Cl. 1-1.
- Castedello, William, E. K. Kaprelian, and R. Mayer. Motorized viewing device for movie films. 2,905,050, 9-22-59, Cl. 88-16.8.
- Castedello, William, and E. K. Kaprelian, to The Kalart Co., Inc. Viewing device for viewing and editing movie films. 2,906,167, 9-29-59, Cl. 88-24.
- Castel, Jacques H., to PGAC Development Co. Sample taking apparatus. 2,917,280, 12-15-59, Cl. 14.
- Castellano, Eugene N., to The Seymour Mfg. Co. Method of making ductile copper platings. 2,871,173, 1-27-59, Cl. 204-52.
- Castelli, Charles, to Johnson & Johnson. Dispensing device. 2,872,950, 2-10-59, Cl. 141-24.
- Castelli, Charles, to Johnson & Johnson. Bottle and closure. 2,892,560, 6-30-59, Cl. 215-59.
- Castelli, Charles, to Johnson & Johnson. Dental floss container. 2,893,405, 7-7-59, Cl. 132-92.
- Castellini, Nello R., and A. J. Di Giacomo, to United States of America, Army. Radio direction finder. 2,900,633, 8-18-59, Cl. 343-118.
- Casten, Ray J. Navigational plotting instrument. 2,871,567, 2-3-59, Cl. 33-75.
- Caster, Irving, and I. Feldman. Carton handle construction arranged for automatic manufacture. 2,889,104, 6-2-59, Cl. 229-52.
- Caster, Mitchell C. Automobile bumper jack. 2,874,935, 2-24-59, Cl. 254-99.
- Casteran, Jean: *See*—  
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- Casther S. A.: *See*—  
Parodi, Felice. 2,915,066.
- Castigliano, Sylvio G. Field shaping device. 2,888,572, 5-26-59, Cl. 250-105.
- Castiglione, Paul: *See*—  
Alvarez, William, and Castiglione. 2,880,797.
- Castle, Charles H.: *See*—  
Rapp, Edward G., and Castle. 2,869,383.
- Castle Machines, Inc.: *See*—  
O'Harah, Alvin F. 2,890,590.
- Castle, William S.: *See*—  
Short, Clair A., Jr., Castle, and Schnable. 2,893,353.
- Castles, Peter A.: *See*—  
Kocce, Jime. 2,889,002.  
Kocce, Jime. 2,911,926.
- Castles, Walter, Jr., to Georgia Tech Research Institute. Power unit for the conversion of heat energy of fluids into mechanical energy. 2,890,570, 6-16-59, Cl. 60-39.35.
- Castner, John F.: *See*—  
Richardson, Ralph R., and Castner. 2,879,700.
- Castonguay, Leon H., and W. H. St. Cyr, Sr., 25% to N. S. Blodgett. Valve. 2,886,059, 5-12-59, Cl. 137-493.
- Castor, Richard R.: *See*—  
Langdon, Howard H., Buresh, Castor, and Marks. 2,890,497.
- Castro Convertible Corp.: *See*—  
Barabas, John J. 2,892,484.
- Castruccio, Peter A., and M. G. Woolfson, to Westinghouse Electric Corp. Pulse length discriminator. 2,896,093, 7-21-59, Cl. 307-88.5.
- Caswell, Arthur S., to I-T-E Circuit Breaker Co. Auxiliary spring closing device. 2,868,330, 1-13-59, Cl. 185-37.
- Caswell, Arthur S., to I-T-E Circuit Breaker Co. Arc chute construction having resilient spacing means. 2,905,792, 9-22-59, Cl. 200-144.
- Caswell, Arthur S., and J. D. Wood, to I-T-E Circuit Breaker Co. Differential piston for recirculating gas blast interrupters. 2,905,793, 9-22-59, Cl. 200-148.
- Catalano, Joseph J., P. Schletewitz, and T. Coffey. Stamp dispensing machine having selectively positionable cutters operable to sever a predetermined number of stamps. 2,876,835, 3-10-59, Cl. 164-42.
- Catalano, Philip F.: *See*—  
Eastman, Willard B., and Catalano. 2,900,944.
- Cataldo, John B.: *See*—  
Scott, William M., Jr., and Cataldo. 2,884,548.
- Catalin Corp. of America: *See*—  
Li, Tsi T., and Raetz. 2,913,426.  
Mackay, Harold A. 2,898,324.
- Cataline, Acial L., and G. E. Buske, to Motor Wheel Corp. Drive mechanism for self-propelled lawn mowers. 2,909,232, 10-20-59, Cl. 180-19.
- Catanach, Arthur E., to Gulf Oil Corp. Method for decomposing sulfuric acid sludge. 2,894,819, 7-14-59, Cl. 23-177.



- Catanzaro, Frank C., to Cansi Electronics, Inc. Physical therapy treatment table. 2,907,324, 10-6-59, Cl. 128-71.
- Cate, Malcolm S., to The B. F. Goodrich Co. Apparatus for making footwear. 2,900,953, 8-25-59, Cl. 118-217.
- Caterpillar Tractor Co.: *See—*
- Bennett, Francis W. 2,874,656.
- Cain, Donald E., and Zimmerman. 2,877,867.
- Coker, Morton M. 2,910,970.
- Goloff, Alexander. 2,905,022.
- Goloff, Alexander, and Robinson. 2,891,394.
- Greivell, Robert L. 2,891,681.
- Johnson, Harold R., and Lammers. 2,882,103.
- Klecker, Joseph G., Miller, Sieving, and Rediger. 2,869,382.
- Lenz, Walter H. 2,890,975.
- Mayo, Roy E. 2,869,659.
- Morgan, Milford B., and Crumrine. 2,886,180.
- Osterhout, Ross V., and Shrier. 2,869,466.
- Risk, Norman E. 2,881,872.
- Sims, Everett E., Konyha, and Petersen. 2,900,970.
- Cates, Charlie L. Conveyor. 2,902,101, 9-1-59, Cl. 180-9.2.
- Cates, David M.: *See—*
- White, Howard J., Jr., and Cates. 2,868,744.
- Catha, Ralph H. Variable timing gear for internal combustion engines. 2,872,910, 2-10-59, Cl. 123-90.
- Cathala, Marie E. J. Method of extraction of chlorine from gaseous mixtures. 2,868,325, 1-13-59, Cl. 183-115.
- Cathala, Marie E. J. Method of preparation of sulfur dioxide. 2,875,848, 3-3-59, Cl. 183-115.
- Cathcart, John A., to Eastman Kodak Co. Photographic film cleaning solutions. 2,870,094, 1-20-59, Cl. 252-171.
- Cathcart, John A., to Eastman Kodak Co. Thermolytic process for cleaning apparatus used in processing polyethylene terephthalate. 2,917,418, 12-15-59, Cl. 134-5.
- Catini, Vincenzo, to Spiral Binding Co., Inc. Machine for making book binder elements. 2,891,585, 6-23-59, Cl. 140-71.
- Catlett, James T., to Air Reduction Co., Inc. Crater-filler control for arc welding heads. 2,877,339, 3-10-59, Cl. 219-135.
- Catlett, James T., to Air Reduction Co., Inc. Arc welding head. 2,906,913, 9-29-59, Cl. 314-68.
- Catlett, Joseph B.: *See—*
- Hjelstrom, Irving E., and Catlett. 2,883,804.
- Catlett, Louis E.: *See—*
- Cory, William E., and Catlett. 2,898,402.
- Catlin, Robert T., and A. J. Landa, to Remington Arms Co., Inc. Attachment of safety shield to a powder actuated tool. 2,873,446, 2-17-59, Cl. 1-44.5.
- Catlin, Robert T., and A. J. Landa, to Remington Arms Co., Inc. Cartridge-operated staple-driving tool. 2,873,447, 2-17-59, Cl. 1-44.5.
- Catlin, Robert T., A. W. Hamann, and M. H. Walker, to Remington Arms Co., Inc. Firearm with means for extraction and ejection of rimfire cartridges. 2,912,779, 11-17-59, Cl. 42-25.
- Catlin, Willard E.: *See—*
- Barnhart, Robert E., and Catlin. 2,876,251.
- Barnhart, Robert E., and Catlin. 2,879,292.
- Catlin, Willard E., and M. F. Fuller, to E. I. du Pont de Nemours and Co. Process for the preparation of an expanded plastisol composition. 2,904,522, 9-15-59, Cl. 260-2.5.
- Catrambone, George P.: *See—*
- Duff, John A., Jr., Brown, and Catrambone. 2,888,821.
- Catron, Damon V., to Iowa State College Research Foundation, Inc. Method of feeding young mammals and feed materials for use therein. 2,906,621, 9-29-59, Cl. 99-2.
- Cattapan, Domenico: *See—*
- Alberti, Carlo G., Vercellone, and Cattapan. 2,918,477.
- Cattaro, Matthew A.: *See—*
- Neubrecht, David A., and Cattaro. 2,871,370.
- Cattell, Clifford C. Safety connecting devices. 2,874,531, 2-24-59, Cl. 58-23.
- Catterall, William E.: *See—*
- Aldridge, Clyde L., Catterall, and Wood. 2,906,794.
- Brodkey, Robert S., Catterall, Fischer, and Arundale. 2,876,264.
- Scheeline, Harold W., and Catterall. 2,874,096.
- Catterall, William E., and D. W. Wood, to Esso Research and Engineering Co. Preparation of long chain olefins from aluminum trialkyl and ethylene. 2,889,385, 6-2-59, Cl. 260-683.15.
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- Fisher, Gene J., and MacLean. 2,916,512.
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- Hudgin, Donald E., and Brown. 2,895,943.
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- Lynch, Addison H. 2,889,696.
- MacLean, Alexander F., and Stautzenberger. 2,885,402.
- Marshall, Henry P., and Davies. 2,880,193.
- Martin, Alfred W. 2,871,169.
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- Seymour, James E. 2,908,561.
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- Guillaud, Charles L. 2,886,529.
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Koeske, Tom J. 2,909,274.  
Seidenstricker, Regis A. 2,888,143.  
Stuller, Walter H., and Burnmeister. 2,880,890.  
Welser, Brinton. 2,869,379.
- Chakroff, Richard O. Power-operated, gear-driven pipe or tube coupling device. 2,907,242, 10-6-59, Cl. 81-57.
- Chalfant Products Co., Inc. The: *See*—  
Wiegand, Paul E. 2,905,416.
- Chalfin, Gregory T. Electrical game. 2,902,283, 9-1-59, Cl. 273-139.
- Chalkley, Lyman. Dye cyanides and photosensitive compositions containing same. 2,877,166, 3-10-59, Cl. 204-158.
- Chalkley, Lyman. Hydrophilic cyanide of para-amino triphenylmethane dyes. 2,877,167, 3-10-59, Cl. 204-158.
- Chalkley, Lyman. Cyanide of acid fuchsine, method of preparing the same, and photochemical process. 2,877,168, 3-10-59, Cl. 204-158.
- Chalkley, Lyman. Hydrophilic dye cyanides-hydroxyalkyl compounds. 2,877,169, 3-10-59, Cl. 204-158.
- Chalkley, Lyman. Photochemical process. 2,895,892, 7-21-59, Cl. 204-157.
- Chall, Harold J., to Friden, Inc. Shock absorbing selection mechanism for a calculating machine. 2,886,237, 5-12-59, Cl. 235-60.
- Chall, Harold J., and C. S. Balaz, to Friden, Inc. Repeat addition mechanism for ten key adding machine. 2,868,445, 1-13-59, Cl. 235-60.
- Chalmers, Frank L.: *See*—  
Blount, Alvie E., Flatow, and Chalmers. 2,897,907.
- Chalmers, William M., to Youngstown Steel Car Corp. Air cushion suspension for single axles. 2,879,077, 3-24-59, Cl. 280-124.
- Chalos, Marcel, to Societe Anonyme dite: Societe des Grands Travaux de Marseille. Device for anchoring and joining the ends of cables and the like. 2,901,799, 9-1-59, Cl. 24-126.
- Cham, Edward J.: *See*—  
Derr, Willard A., and Cham. 2,909,707.
- Chamberlain Corp.: *See*—  
D'Olive, Charles R. 2,872,270.  
Etten, Nicholas L. 2,879,841.  
Etten, Nicholas L. 2,898,983.  
Etten, Nicholas L. 2,902,944.  
Kiffer, Desire A., and Orser. 2,869,839.  
Kiffer, Desire A., and Orser. 2,871,789.  
Kiffer, Desire A., and Orser. 2,908,283.  
Orser, Lawrence D. 2,895,507.  
Orser, Lawrence D. 2,895,617.  
Orser, Lawrence D. 2,903,355.
- Chamberlain, David L., Jr., and W. H. Schechter, to Callery Chemical Co. Reduction of compounds with amine boranes. 2,898,379, 8-4-59, Cl. 260-618.
- Chamberlain, Edward G. Swimming buoy or apparatus. 2,898,610, 8-11-59, Cl. 9-17.



- Chamberlain, Harvey H.: *See*—  
Longenecker, Daniel M., and Chamberlain. 2,897,412.
- Chamberlain, Harvey H., to General Electric Co. Electric instrument. 2,914,712, 11-24-59, Cl. 317-156.
- Chamberlain, Henry T.: *See*—  
Ashbrook, Clifford L., and Peterschmidt. 2,899,217.
- Chamberlain, Lamar E.: *See*—  
Putt, Joseph W., and Chamberlain. 2,897,868.
- Chamberlain, Orlo R. Climbing structure for children. 2,881,002, 4-7-59, Cl. 272-62.
- Chamberlain, Ralph J., to American Cyanamid Co. Antistatic polymeric coatings. 2,891,878, 6-23-59, Cl. 117-138.8.
- Chamberlain, Ralph J., to American Cyanamid Co. Fatty acid-epichlorohydrin adducts. 2,893,875, 7-7-59, Cl. 99-166.
- Chamberlain, Richard O., and C. E. Wakefield, Jr., to Richfield Oil Corp. Apparatus for controlling the flow of fluids in a multi-strata well. 2,869,645, 1-20-59, Cl. 166-185.
- Chamberlain, Richard O., and C. E. Wakefield, Jr., to Richfield Oil Corp. Flow control apparatus. 2,869,646, 1-20-59, Cl. 166-185.
- Chamberlin, Charles E., to Container Corp. of America. Bottle carrier crate. 2,907,509, 10-6-59, Cl. 229-15.
- Chamberlin, Coleman R. Shelf file. 2,885,085, 5-5-59, Cl. 211-10.
- Chamberlin Co. of America: *See*—  
Willett, Leon E., and Smith. 2,886,960.
- Chamberlin, Earl M.: *See*—  
Chemerda, John M., Chamberlin, and Tristram. 2,877,238.
- Chamberlin, Earl M., and J. M. Chemerda, to Merck & Co., Inc. 3-hydroxy-11-keto-bisnorallocholenic acid and the esters thereof. 2,897,212, 7-28-59, Cl. 260-397.1.
- Chamberlin, Earl M., and J. M. Chemerda, to Merck & Co., Inc. 3-hydroxy-11-keto  $\Delta^2$ -ergostene and esters thereof. 2,897,214, 7-28-59, Cl. 260-397.2.
- Chamberlin, Earl M., and J. M. Chemerda, to Merck & Co., Inc. 7-keto- $\Delta^{10(19)}$ -cyclopentanopolhydrophenanthrene compounds. 2,902,482, 9-1-59, Cl. 260-239.55.
- Chamberlin, Earl M., and J. M. Chemerda, to Merck & Co., Inc. Preparation of 19(11)-anhydro-steroids from 11 $\beta$ -hydroxy-steroids. 2,904,563, 9-15-59, Cl. 260-397.45.
- Chamberlin, Francis E., to Sinclair Refining Co. Mixed base sodium calcium grease manufacture. 2,915,468, 12-1-59, Cl. 252-40.
- Chamberlin, Harry C. Sound reproducing system. 2,910,298, 10-27-59, Cl. 274-4.
- Chamberlin, John M., and G. A. McElroy, to Palm-Roy, Inc. Spring wheel. 2,869,608, 1-20-59, Cl. 152-86.
- Chamberlin, Margaret S.: *See*—  
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- Chamberlin Products Corp.: *See*—  
Reedy, Thomas D. 2,876,794.
- Chamberlin, Reginald H. D., to D. Napier & Son Ltd. Resilient orbit gear and mounting therefor. 2,868,040, 1-13-59, Cl. 74-801.
- Chamberlin, Reginald H. D., to D. Napier & Son Ltd. Apparatus for cooling turbine wheels in combustion turbines. 2,912,221, 11-10-59, Cl. 253-39.15.
- Chamberlin, Reginald H. D., to D. Napier & Son Ltd. Cooling of turbine blades. 2,915,279, 12-1-59, Cl. 253-39.15.
- Chamberlin, Reginald H. D., D. H. Mallinson, and R. P. Probert, said Chamberlin assors. to D. Napier & Son Ltd., said Mallinson and said Probert assors. to Power Jets (Research and Development) Ltd. Flight-speed responsive fuel control system for jet propulsion power plant. 2,871,659, 2-3-59, Cl. 60-39.28.
- Chamberlin, Richard H.: *See*—  
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- Chambers, Alma I., to Chambers Corp. Electric heating element. 2,909,636, 10-20-59, Cl. 219-37.
- Chambers Corp.: *See*—  
Chambers, Alma I. 2,909,636.
- Chambers, John E. 2,907,317.
- Chambers, Ellsworth C. Fish line retrieving apparatus. 2,887,814, 5-26-59, Cl. 43-17.2.
- Chambers, Ferdinand F., to United Shoe Machinery Corp. Toe lasting machines for stitchdown shoes. 2,878,497, 3-24-59, Cl. 12-7.8.
- Chambers, George R., to Eitel-McCullough, Inc. Electron tube apparatus. 2,875,369, 2-24-59, Cl. 315-5.46.
- Chambers, Guy R., to Boeing Airplane Co. Angular position transducer. 2,909,764, 10-20-59, Cl. 340-177.
- Chambers, Herbert I., to Consolidated Electrodynamics Corp. Recording paper. 2,876,060, 3-3-59, Cl. 346-74.
- Chambers, Herbert I., to Consolidated Electrodynamics Corp. Speed change transmission. 2,881,640, 4-14-59, Cl. 74-681.
- Chambers, Herbert I., to Consolidated Electrodynamics Corp. Fast response servomotor system adapted for recording. 2,889,503, 6-2-59, Cl. 318-22.
- Chambers, Herbert I., to Consolidated Electrodynamics Corp. Oscillograph apparatus. 2,899,259, 8-11-59, Cl. 346-69.
- Chambers, Herbert I., and L. B. Browder, to Consolidated Electrodynamics Corp. Oscillograph apparatus. 2,876,059, 3-3-59, Cl. 346-74.
- Chambers, Herbert I., and A. W. Fischer, to Consolidated Electrodynamics Corp. Suspension means for string galvanometers. 2,886,782, 5-12-59, Cl. 324-154.
- Chambers, John. Method of making oral dentures. 2,896,265, 7-28-59, Cl. 18-55.1.
- Chambers, John E., to Chambers Corp. Broiler. 2,907,317, 10-6-59, Cl. 126-41.
- Chambers, Joseph W., to Big Genie Corp. Sink structure for garbage disposers. 2,902,700, 9-8-59, Cl. 4-187.
- Chambers, Lawrence S. Formation sampler device. 2,893,690, 7-7-59, Cl. 255-1.4.
- Chambers, Leslie W.: *See*—  
Kellett, Eric, and Chambers. 2,867,868.
- Chambers, Robert R., and R. L. Foster, to Sinclair Refining Co. Process of hydrolyzing diisobutylene monochlorides. 2,885,445, 5-5-59, Cl. 260-640.
- Chambers, Robert R., R. H. Elkins, and J. J. Monagle, to Sinclair Refining Co. Process for olefin polymerization with alkyl aluminum-metal oxide catalyst. 2,899,419, 8-11-59, Cl. 260-94.9.
- Chambers, Thomas S., and R. T. Florence, to A. B. Dick Co. Water base stencil duplicating ink. 2,868,741, 1-13-59, Cl. 260-17.
- Chamness, Abe. Mechanics stool. 2,872,966, 2-10-59, Cl. 155-2.
- Chamot, Walter M., and J. M. Ferrara, to National Aluminate Corp. Treatment of hydrocarbon liquids. 2,914,417, 11-24-59, Cl. 106-243.
- Champ, Marcel. Feed device for an internal combustion engine. 2,895,462, 7-21-59, Cl. 123-133.
- Champa, Joseph A.: *See*—  
Simons, Allison K., Radke, and Champa. 2,875,810.
- Champagnat, Alfred,  $\frac{1}{2}$  to The British Petroleum Co. Ltd. Floating plastic screen. 2,867,346, 1-6-59, Cl. 220-26.
- Champagnat, Alfred,  $\frac{1}{2}$  to The British Petroleum Co. Ltd. Liquid storage apparatus. 2,867,347, 1-6-59, Cl. 220-26.
- Champagne, Emory C., and J. A. Pfloh, to The Berger Brothers Co. Controlling garments. 2,867,216, 1-6-59, Cl. 128-429.
- Champaign, Louis. Snow removal device. 2,900,744, 8-25-59, Cl. 37-53.
- Champion, Carl E., to Bendix Aviation Corp. Digi-graphic recorder. 2,907,020, 9-29-59, Cl. 340-347.
- Champion Corp.: *See*—  
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- Champion International Co.: *See*—  
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- Champion, James E.: *See*—  
Powell, Robert J., and Champion. 2,895,463.
- Powell, Robert J., and Champion. 2,901,031.
- Powell, Robert J., and Champion. 2,902,016.
- Powell, Robert J., and Champion. 2,913,231.
- Powell, Robert J., and Champion. 2,913,233.
- Champion Paper and Fibre Co., The: *See*—  
Stoddard, William B., Jr. 2,882,120.
- Warner, Roger M. 2,873,605.
- Champion, Richard H., and J. H. Gilson, to General Motors Corp. Vehicle body exhaust port closure. 2,917,124, 12-15-59, Cl. 180-64.
- Champion Safe Tap Co.: *See*—  
Frankfurt, Sandor. 2,883,999.
- Champion Spark Plug Co.: *See*—  
Bretsch, Michael A., and Nostrant. 2,891,187.
- Schurecht, Harry G. 2,886,453.
- Schurecht, Harry G. 2,898,395.
- Schurecht, Harry G. 2,917,394.
- Champlain Co., Inc.: *See*—  
Auer, Frederick G. 2,899,871.
- Haskin, Lawrence H., Jr. 2,912,926.
- Schowerer, George J., and Sorkin. 2,888,260.
- Champney, Guy W.: *See*—  
Christian, Carl A., and Champney. 2,888,628.
- Chan, Andre D. H., and R.-E. Lambert, to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. Method of tempering glass. 2,910,807, 11-3-59, Cl. 49-89.
- Chan, Charles R., to The Babcock & Wilcox Co. Vapor generating, superheating, and reheating method and apparatus therefor. 2,886,013, 5-12-59, Cl. 122-478.
- Chance, Leon H.: *See*—  
Drake, George L., Jr., Reeves, and Chance. 2,886,539.
- Drake, George L., Jr., Reeves, and Chance. 2,911,325.
- Reeves, Wilson A., Chance, and Drake. 2,889,289.
- Reeves, Wilson A., Chance, and Drake. 2,917,492.
- Reeves, Wilson A., Guthrie, and Chance. 2,912,412.
- Chance, Leon H., G. L. Drake, Jr., and W. A. Reeves, to United States of America, Agriculture. Flame resistant organic textiles and method of production. 2,870,042, 1-20-59, Cl. 117-136.
- Chance, Leon H., G. L. Drake, Jr., and W. A. Reeves, to United States of America, Agriculture. Phosphorus containing aziridinyl-alcohol polymers and flame resistant organic textiles. 2,886,538, 5-12-59, Cl. 260-2.
- Chance, Leon H., G. L. Drake, Jr., and W. A. Reeves, to United States of America, Agriculture. Flame resistant organic textiles and method of production. 2,891,877, 6-23-59, Cl. 117-136.
- Chance, Leon H., G. L. Drake, Jr., and W. A. Reeves, to United States of America, Agriculture. Polymers made from 1-aziridinyl phosphine oxides and sulfides and flame resistant organic textiles. 2,901,444, 8-25-59, Cl. 260-2.
- Chance, Ray. Dredge. 2,896,341, 7-28-59, Cl. 37-58.



- Chance Vought Aircraft, Inc.: *See*—  
 Clark, Herbert, Owen, and Starr. 2,899,866.  
 MacDonough, Edward P. 2,912,190.  
 Murty, Kenneth T. 2,882,993.  
 Myers, Richard H. 2,909,925.  
 Redmond, William G. Re. 24,701.  
 Riccius, Merrill V. 2,881,631.
- Chandler, Bruce C., and R. P. Wegner. Riding spurs. 2,907,161, 10-6-59, Cl. 54-83.
- Chandler, Douglas G. Electrical therapeutic jacket. 2,869,551, 1-20-59, Cl. 128-379.
- Chandler-Evans Corp.: *See*—  
 Wright, Alexander M. 2,882,918.
- Chandler, Frank J., to Paton-Chandler Process Co. Spout-type bag. 2,918,958, 12-29-59, Cl. 150-9.
- Chandler, Gordon E.: *See*—  
 Alstad, Norman J., and Chandler. 2,910,612.
- Chandler, Hagan H.: *See*—  
 Johnston, Reece W., and Chandler. 2,895,220.
- Chandler, Irvin B. Manually controllable automobile governor. 2,876,753, 3-10-59, Cl. 123-102.
- Chandler, Jasper S., to Eastman Kodak Co. Multiple clutch drive mechanism. 2,869,381, 1-20-59, Cl. 74-330.
- Chandler, Linden H.: *See*—  
 Beall, Richard W., Jr. 2,915,223.  
 Beall, Richard W., Jr. 2,915,224.  
 Beall, Richard W., Jr. 2,917,184.  
 Beall, Richard W., Jr. 2,917,198.
- Chandler, Milton H. Combined nose guard and teeth protector. 2,904,791, 9-22-59, Cl. 2-9.
- Chandler, Richard, to The British Petroleum Co. Ltd. Reactors. 2,878,108, 4-17-59, Cl. 23-288.
- Chandler, Robert F., Jr., and J. H. Judd, Jr., to Western Electric Co., Inc. Electrical terminal block. 2,884,613, 4-28-59, Cl. 339-198.
- Chandler, Roy L., and C. B. Ogle, Jr., to Atlas Scraper and Engineering Co. Combination two-way plow and tool carrier. 2,882,979, 4-21-59, Cl. 172-225.
- Chandler, Roy L., and C. B. Ogle, Jr., to Atlas Scraper and Engineering Co. Earth working apparatus. 2,883,773, 4-28-59, Cl. 37-126.
- Chandler, Walter G., to Bendix Aviation Corp. Wheel and brake assembly. 2,888,100, 5-26-59, Cl. 188-18.
- Chandler, Wesley M., and P. F. Heuser. Silencer for air vibrators. 2,884,901, 5-5-59, Cl. 121-17.
- Chaney, Earl J. Pickup device. 2,892,298, 6-30-59, Cl. 56-314.
- Chaney, John L. Cooking thermometer support. 2,906,124, 9-29-59, Cl. 73-374.
- Chaney, Preston E., and R. A. Collier, to Sun Oil Co. Tube caliper apparatus. 2,879,604, 3-31-59, Cl. 33-178.
- Chaney, William A., L. C. Garrett, and W. L. Byrd, to The American Tobacco Co. Mechanical feeder. 2,878,962, 3-24-59, Cl. 221-175.
- Chang, Melvin C., to Crucible Steel Co. of America. Sulfate liquor treatment. 2,867,524, 1-6-59, Cl. 75-5.
- Chang, Melvin C. S., to Crucible Steel Co. of America. Process for treating materials containing titanium and iron. 2,912,320, 11-10-59, Cl. 75-34.
- Chang, Robert W. H., and N. G. Barker, to General Mills, Inc. Complexes of gamma glutamyl mono-esters. 2,915,540, 12-1-59, Cl. 260-429.9.
- Changewood Corp.: *See*—  
 Clark, James d'A. 2,875,797.  
 Clark, James d'A. 2,878,728.  
 Clark, James d'A. 2,895,625.
- Channel Master Corp.: *See*—  
 Carthay, Alexander F. 2,897,495.  
 Carthay, Alexander F. 2,898,592.
- Channing Corp.: *See*—  
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 Heim, Lewis R. 2,913,810.  
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- Chanzit, Lawrence, and M. E. Klein, to The W. L. Maxson Corp. UHF oscillator. 2,902,654, 9-1-59, Cl. 331-97.
- Chao, David. Floor mop having a curved head compressible in a correspondingly curved path. 2,866,991, 1-6-59, Cl. 15-119.
- Chao, Shih C., to International Business Machines Corp. System for selectively energizing one of three circuits responsive to variation of two conditions. 2,870,348, 1-20-59, Cl. 307-88.5.
- Chao, Tsei Y., to Foster Wheeler Corp. Pellet forming apparatus. 2,898,625, 8-11-59, Cl. 18-27.
- Chapellier, Robert A.: *See*—  
 Avellone, Giuseppe R., and Chapellier. 2,868,551.  
 Kushner, Milton N., and Chapellier. 2,894,779.
- Chapellier, Robert A., to Combustion Engineering, Inc. Vessel support. 2,890,009, 6-9-59, Cl. 248-146.
- Chapin, Earl C., and R. I. Longley, Jr., to Monsanto Chemical Co. Styrene polymers. 2,889,311, 6-2-59, Cl. 260-73.
- Chapin, Earl C., and R. I. Longley, Jr., to Monsanto Chemical Co. Reduced polymers of methacrolein. 2,893,979, 7-7-59, Cl. 260-73.
- Chapin, Earl C., and R. F. Smith, to Monsanto Chemical Co. Copolymer of a styrene compound and an unsaturated alcohol. 2,894,938, 7-14-59, Cl. 260-88.1.
- Chapin, Earl C., and R. F. Smith, to Monsanto Chemical Co. Styrene-allyl alcohol-acrylic ester terpolymers, process for preparing same and coating composition therefrom. 2,897,174, 7-28-59, Cl. 260-43.
- Chapin, Earl C., and R. F. Smith, to Monsanto Chemical Co. Styrene-allyl alcohol-acrylic acid terpolymers, process of preparing same and coating composition therefrom. 2,899,404, 8-11-59, Cl. 260-43.
- Chapin, Earl C., and R. F. Smith, to Monsanto Chemical Co. Interpolymers of acrylonitrile, an allyl alcohol and a styrene compound, process of preparing same and coating composition therefrom. 2,900,359, 8-18-59, Cl. 260-43.
- Chapin, Earl C., and L. P. Paradis, to Monsanto Chemical Co. Process for the polymerization of vinylidene monomers. 2,902,464, 9-1-59, Cl. 260-45.5.
- Chapin, Earl C., and R. I. Longley, Jr., to Monsanto Chemical Co. Isopropyl benzene-acrolein styrene terpolymer. 2,905,656, 9-22-59, Cl. 260-73.
- Chapin, Earl C., and M. E. Murphy, to Monsanto Chemical Co. Air drying films from unsaturated fatty acid metal salts. 2,916,392, 12-8-59, Cl. 106-243.
- Chapin, Edward A.: *See*—  
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- Chapin, Henry M.: *See*—  
 Sellers, Frederick B., and Chapin. 2,904,445.
- Chapin, Howard R.: *See*—  
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- Chapin, Howard R., to Sears, Roebuck and Co. Spinning type fishing reel. 2,891,738, 6-23-59, Cl. 242-84.21.
- Chapin, Howard R., and F. R. Beck, to Controls Co. of America. Snap switch blade. 2,905,782, 9-22-59, Cl. 200-67.
- Chapin, Howard R., and F. R. Beck, to Controls Co. of America. Snap switch blade mounting. 2,919,319, 12-29-59, Cl. 200-67.
- Chapin, Irving F., to Bendix Aviation Corp. Adjustable cylinder brake. 2,875,857, 3-5-59, Cl. 188-72.
- Chapin, Ralph W., to Union Oil Co. of California. Method for burning oils. 2,894,823, 7-14-59, Cl. 23-230.
- Chapin, William T., to United States of America, Navy. Automatic power output and difference frequency control systems. 2,913,718, 11-17-59, Cl. 343-17.1.
- Chaplar, Rudolph W., to Knickerbocker Plastic Co., Inc. Music box construction. 2,880,640, 4-7-59, Cl. 84-95.
- Chaple, William F., and R. E. McMinn, to Black, Sivalis & Bryson, Inc. Apparatus for separating fluids. 2,868,315, 1-13-59, Cl. 183-27.
- Chapler, James, Jr., to Western Precipitation Corp. Construction of multiple tube cyclone dust collector. 2,904,130, 9-15-59, Cl. 183-83.
- Chaplick, Adolph M.: *See*—  
 Morris, Thomas C., and Chaplick. 2,867,592.
- Chaplick, Rubin, and J. J. Shelley. Machine for making and flaking ice. 2,877,632, 3-17-59, Cl. 62-320.
- Chaplin, Albin, and V. C. Reddy, to General Motors Corp. Multiple speed drive and control system. 2,894,498, 7-14-59, Cl. 123-119.
- Chaplin Corp.: *See*—  
 Chaplin, Merle P. 2,872,093.
- Chaplin-Fulton Mfg. Co., The: *See*—  
 Lofink, Raymond P. 2,896,660.
- Chaplin, Herbert E., to The Fairay Aviation Co. Ltd. Jet-propelled vertical take-off aircraft. 2,868,477, 1-13-59, Cl. 244-12.
- Chaplin, Herbert E., D. Wakeford, C. R. Churn, and M. F. Huxley, to The Fairay Aviation Co. Ltd. Aircraft control means. 2,876,968, 3-10-59, Cl. 244-83.
- Chaplin, Merle P., to Chaplin Corp. Molded pulp set-up box. 2,872,093, 2-3-59, Cl. 229-25.
- Chaplin, Oliver F., to Crown Zellerbach Corp. Napkin dispenser. 2,881,948, 4-14-59, Cl. 221-35.
- Chaplinksi, Frank, to Carroll Dunham Smith Pharmacal Co. Article feeding equipment. 2,915,217, 12-1-59, Cl. 221-68.
- Chapman, Aubrey I., Jr., to Texas Instruments Inc. Moving magnet meter movement. 2,889,520, 6-2-59, Cl. 324-146.
- Chapman, Charles S., Jr., and K. W. Gage, to General Motors Corp. Transmission. 2,912,876, 11-17-59, Cl. 74-472.
- Chapman, Charles W., to General Electric Co. Control system for conveying apparatus. 2,888,129, 5-26-59, Cl. 198-82.
- Chapman, Charles W., to Twiflex Couplings Ltd. Torsionally resilient couplings. 2,910,844, 11-3-59, Cl. 64-19.
- Chapman Chemical Co.: *See*—  
 Behr, Eldon A. 2,904,467.  
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- Chapman, Christopher L. C., to Yardney International Corp. Electrode bearing current-conducting network and method of producing same. 2,908,740, 10-13-59, Cl. 136-20.
- Chapman, Dennis R.: *See*—  
 Bisby, Harry, Chapman, and Matthews. 2,891,699.
- Chapman, Edward P., Jr., and J. A. Wood, to Peerless Oil and Gas Co. Agricultural product and method. 2,904,424, 9-15-59, Cl. 71-52.
- Chapman, Elijah M. Automatic vise. 2,872,834, 2-10-59, Cl. 81-26.
- Chapman, Evart R.: *See*—  
 Parker, Wilton E., Whitaker, Getz, Hertzog, and Chapman. 2,968,189.
- Chapman, Everett, to Nordberg Mfg. Co. Method of vaporizing a fuel. 2,907,648, 10-6-59, Cl. 48-219.
- Chapman, Fendol K. Multiple purpose portable tool. 2,892,350, 6-30-59, Cl. 74-16.
- Chapman, Francis E., to S. C. Johnson & Son, Inc. Water repellent and mar resistant coating composition containing a waxy dialkyl ether. 2,873,202, 2-10-59, Cl. 106-230.



- Chapman, Galen O. Thermostatic switch. 2,874,250, 2-17-59, Cl. 200—137.
- Chapman, George C., L. V. Pfaender, and H. H. Holscher, to Owens-Illinois Glass Co. Electrode support for cathode-ray tubes. 2,905,846, 9-22-59, Cl. 313—78.
- Chapman, Gordon D. Reversible variable speed drive. 2,884,810, 5-5-59, Cl. 74—689.
- Chapman, Harlow M. Materials separation apparatus and method of materials separation. 2,896,744, 7-28-59, Cl. 153—83.
- Chapman, Harold E. Device for mixing or treating fluids or free-flowing powders. 2,896,926, 7-28-59, Cl. 259—140.
- Chapman, Harvey W., and H. L. Dunlap, to Evans Products Co. Resiliently mounted tie-down support rails. 2,873,693, 2-17-59, Cl. 105—368.
- Chapman, Harvey W., and H. L. Dunlap, to Evans Products Co. Freight loading apparatus. 2,893,323, 7-7-59, Cl. 105—369.
- Chapman, Harvey W., and H. L. Dunlap, to Evans Products Co. Grooved pin having a latch plate with an arrow-shaped opening. 2,900,864, 8-25-59, Cl. 85—8.9.
- Chapman, Herbert, to General Steel Wares Ltd. Selected area galvanizing method. 2,897,588, 8-4-59, Cl. 29—527.
- Chapman, John G. Loom buffer. 2,890,727, 6-16-59, Cl. 139—188.
- Chapman, Leslie R., Jr., J. W. Gray, and C. H. Jacobson, to General Precision Laboratory Inc. Drift calibration. 2,872,674, 2-3-59, Cl. 343—17.7.
- Chapman, Paul R., and A. A. Manteuffel, to The Pure Oil Co. Preparation of an extreme pressure additive and gear oil containing same. 2,910,438, 10-27-59, Cl. 252—46.6.
- Chapman, Percy D., to The Dorman Sprayer Co. Ltd. Sprayers and valves therefor. 2,887,122, 5-19-59, Cl. 137—495.
- Chapman, Ralph: *See—*  
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- Chapman, Richard F., to International Telephone and Telegraph Corp. Synchronization of motor rotated elements. 2,894,187, 7-7-59, Cl. 318—71.
- Chapman, Robert G.: *See—*  
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- Chapman, Roger, and L. E. Robinson, to International Standard Electric Corp. Semi-conductor amplifiers. 2,901,556, 8-25-59, Cl. 179—171.
- Chapman Valve Mfg. Co., The: *See—*  
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- Chapman, Walter R., and A. A. Talas, to Ramo Wooldridge Inc. Packing ring. 2,895,772, 7-21-59, Cl. 309—23.
- Chapouille, Pierre F. L.: *See—*  
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- Chappell, William A., and R. J. Scott, to J. C. Hockery, trustee. Ice crusher. 2,904,268, 9-15-59, Cl. 241—190.
- Charbonnages de France: *See—*  
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- Charbonneau, Allan P., to Cutler-Hammer, Inc. Grid-type resistance units. 2,868,937, 1-13-59, Cl. 201—69.
- Charbonneau, Allan P., to Cutler-Hammer, Inc. Electric heating units and methods of making the same. 2,882,376, 4-14-59, Cl. 201—67.
- Charbonneau, Wilson A., to Wac Line, Inc. Speed control for alternating-current induction motors. 2,894,191, 7-7-59, Cl. 318—229.
- Charbonneau, Wilson A. Fluorescent lamp lighting circuit. 2,897,403, 7-28-59, Cl. 315—103.
- Charbonneau, Wilson A. Speed controls for electric motors. 2,919,391, 12-29-59, Cl. 318—227.
- Charbonneau, Wilson A., and J. J. Velesky, to WacLine, Inc. Speed control for electric motors. 2,876,406, 3-3-59, Cl. 318—227.
- Charbonneau, Wilson A., and J. J. Velesky, to Wac Line, Inc. Control devices for alternating-current motors and the like. 2,901,682, 8-25-59, Cl. 318—229.
- Charbonnet, Wilfred H., to Clevite Corp. Method for growing quartz. 2,914,389, 11-24-59, Cl. 23—301.
- Charbonnier, Roger, to Rocher Electronique. Electronic amplifiers. 2,870,269, 1-20-59, Cl. 179—171.
- Chareuset, Raymond, and J. Moyrand, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Material feeding hopper. 2,913,148, 11-17-59, Cl. 222—227.
- Charest, Maurice. Sewing machine. 2,915,996, 12-8-59, Cl. 112—122.
- Charewicz, Francis J.: *See—*  
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- Char-Gale Mfg. Co.: *See—*  
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- Charhut, Frank J., to Chicago-Allis Mfg. Corp. Unitized, pre-stressed seal unit. 2,882,074, 4-14-59, Cl. 286—11.
- Charlat, Arnold, to Brown & Sharpe Turret Drilling Division, Inc. Rotary tool spindle reversing means. 2,887,695, 5-26-59, Cl. 10—136.
- Charlat, Arnold, to Brown & Sharpe Turret Drilling Division, Inc. Speed control system including a variable speed transmission adjustable as to output speed in accordance with the position of a selectively movable abutment. 2,887,894, 5-26-59, Cl. 74—230.17.
- Charlat, Arnold S., to Howe & Fant, Inc. Positioning table. 2,874,599, 2-24-59, Cl. 77—64.
- Charlat, Arnold S., to Howe & Fant, Inc. Positioning table. 2,880,632, 4-7-59, Cl. 77—64.
- Charle, Roger, and L. R. Lantz, to Societe Anonyme dite Societe Monsavon-L'Oreal. Dyeing animal fibres and compositions therefor. 2,904,385, 9-15-59, Cl. 8—10.
- Charlebois, Herve D.: *See—*  
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- Charlebois, John E.: *See—*  
Popino, Robert P., and Charlebois. 2,918,410.
- Charles, Daniel, and G. Mourier, to Compagnie Generale de Telegraphie Sans Fil. Linear accelerator for charged particles. 2,880,356, 3-31-59, Cl. 315—3.6.
- Charles, Daniel, and R. Gentner, to Compagnie Generale de Telegraphie Sans Fil. Traveling wave tubes. 2,890,374, 6-9-59, Cl. 315—3.6.
- Charles, Daniel, and B. Epsstein, to Compagnie Generale de Telegraphie Sans Fil. Backward travelling wave oscillators. 2,911,556, 11-3-59, Cl. 315—3.6.
- Charles, Malcolm J., to Carol Campbell Enterprises, Inc. Electrical circuit unit and mounting means therefor. 2,898,523, 8-4-59, Cl. 317—101.
- Charles, Stanley E.: *See—*  
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- Charles, Thomas G., to Allmanna Svenska Elektriska Aktiebolaget. Means for examining a substance. 2,919,413, 12-29-59, Cl. 331—65.
- Charleston Hosiery Processing Co., Inc.: *See—*  
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- Charlesworth, Mary J.: *See—*  
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- Charlton, Alexander E., to Photoceramics, Inc. Color television. 2,867,749, 1-6-59, Cl. 315—21.
- Charlton, Alexander E., to Photoceramics, Inc. Fired photographically decorated objects and their manufacture. 2,900,255, 8-18-59, Cl. 96—34.
- Charlton, Cyril B.: *See—*  
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- Charlton, Cyril B., C. K. Burchell, and M. L. Loehr, to Telephone Mfg. Co. Ltd. Manufacturing processes. 2,898,241, 8-4-59, Cl. 117—212.
- Charlton, Francis R.: *See—*  
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- Charlton, Maurice G., G. L. Davis, and C. H. R. Gentry, to North American Philips Co., Inc. Deposition of refractory metals and alloys thereof. 2,873,208, 2-10-59, Cl. 117—50.
- Charlton, Richard E., Jr., and V. L. Payne, to West Point Mfg. Co. Conveying apparatus for dryer. 2,882,614, 4-21-59, Cl. 34—155.
- Charlton, Richard E., Jr., and V. L. Payne, to West Point Mfg. Co. Vacuum extraction tube. 2,893,043, 7-7-59, Cl. 15—306.
- Charlton, Robert S.: *See—*  
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- Charman, Frederick J. H., and E. C. Cork, to Electric & Musical Industries Ltd. Aerials. 2,887,682, 5-19-59, Cl. 343—751.
- Charnas, Lawrence I.: *See—*  
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Fuchsman, Charles H., Charnas, and Elliott. 2,905,556.
- Charnell, Inc.: *See—*  
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- Charnock, Stanley, to Pilkington Brothers Ltd. Apparatus for simultaneously grinding the two surfaces of a ribbon of glass. 2,867,059, 1-6-59, Cl. 51—112.
- Chart-Pak, Inc.: *See—*  
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- Chartrand, Clovis C. Protective packaging for rim fire ammunition and the like. 2,877,891, 3-17-49, Cl. 206—3.
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- Charwat, Andrew F., to Northrop Aircraft, Inc. Smoke generator. 2,882,240, 4-14-59, Cl. 252—359.
- Charwick Cabinet Corp.: *See—*  
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- Chasar, Anthony R., and R. J. Martin, to The Oster Mfg. Co. Portable power unit. 2,887,886, 5-26-59, Cl. 74—16.
- Chasar, Anthony R., and R. J. Martin, to The Oster Mfg. Co. Collapsible stand for power units. 2,919,092, 12-29-59, Cl. 248—164.
- Chase Brass & Copper Co., Inc.: *See—*  
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- Chase, Charles B., and W. S. James, to Fram Corp. Oil filters. 2,877,902, 3-17-59, Cl. 210—440.
- Chase Chemical Co.: *See—*  
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- Chase, Corson W., to Miehle-Goss-Dexter, Inc. Jaw folding mechanism. 2,891,791, 6-23-59, Cl. 270—71.
- Chase, Corson W., to Miehle-Goss-Dexter, Inc. Socket for ink roller. 2,892,399, 6-30-59, Cl. 101—349.
- Chase, Corson W., to Miehle-Goss-Dexter, Inc. Printing cylinders. 2,900,903, 8-25-59, Cl. 101—378.
- Chase, Corson W., to Miehle-Goss-Dexter, Inc. Ink roller socket. 2,915,009, 12-1-59, Cl. 101—349.



- Chase, Corson W., and G. N. Krueger, to Michle-Goss-Dexter, Inc. Apparatus for casting stereotype printing plates. 2,895,187, 7-21-59, Cl. 22-2.
- Chase Equipment Corp.: *See*—  
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- Chase, Fay H., to Bell Telephone Laboratories, Inc. Electric circuit interrupters. 2,873,372, 2-10-59, Cl. 250-36.
- Chase, Fay H., to Bell Telephone Laboratories, Inc. Current supply apparatus. 2,904,742, 9-15-59, Cl. 323-22.
- Chase, Fay H., to Bell Telephone Laboratories, Inc. Current supply apparatus. 2,917,700, 12-15-59, Cl. 323-22.
- Chase, Fletcher A., S. Lee, and F. D. Montgomery,  $\frac{1}{2}$  to W. L. McLennan, d.b.a. North Woods Coffee Co., and  $\frac{1}{2}$  to American Instants Inc. Egg instant coffee. 2,911,302, 11-3-59, Cl. 99-71.
- Chase, George O., and J. Galender, to Hoffmann-La Roche Inc. Process for catalytic semi-hydrogenation of tertiary acetylenic monohydric alcohols. 2,883,431, 4-21-59, Cl. 260-642.
- Chase, John A.: *See*—  
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- Chase, John A., to Radio Corp. of America. Notching roller assembly for grid winding machine. 2,877,065, 3-10-59, Cl. 308-70.
- Chase, Leland H., to Holmes Electric Protective Co. Burglar alarm system. 2,877,361, 3-10-59, Cl. 307-112.
- Chase, Leonard G.: *See*—  
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- Jacobs, Philip C., Jr., and Swain. 2,874,249.
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- Kozacka, Frederick J. 2,914,636.
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- Chase, Wallace P., W. R. Davis, and J. E. Snyder, to Librascope, Inc. Detector for indicating presence of objects. 2,917,732, 12-15-59, Cl. 340-258.
- Chassende-Baroz, Norbert J. P. Radiation detection device. 2,902,602, 9-1-59, Cl. 250-65.
- Chasser, Ernest C., to The Akron Gear and Engineering Co. Quick filling for hydraulic fluid systems. 2,877,794, 3-17-59, Cl. 137-563.
- Chastaney, Ruth G., and S. Paukstela. Partition structure. 2,886,147, 5-12-59, Cl. 189-34.
- Chatelin, Bernard: *See*—  
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- Chater, Robert R. Flexible coupling. 2,891,395, 6-23-59, Cl. 64-14.
- Chater, William T.: *See*—  
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- Chater, William T., to Hughes Aircraft Co. Bridge circuit for position measuring device. 2,902,765, 9-8-59, Cl. 33-125.
- Chatfield, Henry B. Process and apparatus for forming metal sheets into tubes. 2,882,767, 4-21-59, Cl. 80-23.
- Chatfield, Herbert W., to A. Boake, Roberts & Co. Ltd. Drying oils. 2,909,537, 10-20-59, Cl. 260-405.
- Chatham, Joshua D., and D. M. Clark, said Chatham assor. to said Clark. Body constraining suit for aviators. 2,871,849, 2-3-59, Cl. 128-1.
- Chatham Mfg. Co.: *See*—  
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- Chatrenet, Andre, to Societe a Responsabilite Limitee so-called: Ateliers de Poclair. Hydraulically-operated grab bucket. 2,889,643, 6-9-59, Cl. 37-183.
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- Chatterton, Edward, Jr., to Philco Corp. Semiconductor signal-translating circuit of variable gain. 2,879,344, 3-24-59, Cl. 179-171.
- Chatterton, Ernest E., to D. Napier & Son Ltd. Fuel injection pumps for internal combustion engines. 2,895,425, 7-21-59, Cl. 103-154.
- Chau, Kenneth W. Paper clips. 2,908,954, 10-20-59, Cl. 24-66.
- Chausson, André, to Societe Anonyme des Usines Chausson. Automatic machine for drilling series of holes in various parts. 2,870,660, 1-27-59, Cl. 77-32.2.
- Chausson, André, to Societe Anonyme des Usines Chausson. Electro-magnetically maintained oscillating movement hermetic compressor. 2,899,124, 8-11-59, Cl. 230-55.
- Chausson, André, to Societe Anonyme des Usines Chausson. Electromagnetically maintained oscillating movement hermetic compressor. 2,899,125, 8-11-59, Cl. 230-55.
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- Chayka, Joseph P., to Detroit Broach & Machine Co. Surface broaching machines. 2,917,978, 12-22-59, Cl. 90-33.
- Chayne, Charles A., to General Motors Corp. Engine construction. Re. 24,645, 5-12-59, Cl. 123-55.
- Chayne, Charles A., and J. Dolza, to General Motors Corp. Charge forming means. 2,916,027, 12-8-59, Cl. 123-119.
- Che, Suk K. Expandable trailer. 2,886,856, 5-19-59, Cl. 20-2.
- Cheadle, Joseph C. Flue cleaning apparatus. 2,891,268, 6-23-59, Cl. 15-104.2.
- Cheatum, Leo G.: *See*—  
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- Check, Mathias M., to The Yale & Towne Mfg. Co. Tubular lock. 2,872,236, 2-3-59, Cl. 292-336.3.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Anti-manipulation combination lock. 2,882,709, 4-21-59, Cl. 70-133.
- Check, Mathias M., to The Yale & Towne Mfg. Co. Knob mounting and securing means. 2,896,992, 7-28-59, Cl. 292-348.
- Checke, Harry, and A. Melville, deceased (L. Melville, executrix),  $\frac{1}{2}$  each to M. Sevak and L. Melville. Ball guide and screen for deep well jet pump. 2,916,147, 12-8-59, Cl. 210-431.
- Cheekon, John, to United States Steel Corp. Track switch and rerailer. 2,915,263, 12-1-59, Cl. 246-423.
- Chedister, Conkling. Driver training and testing equipment. 2,870,548, 1-27-59, Cl. 35-11.
- Chedister, Conkling. Continuous feed attachment. 2,875,667, 3-3-59, Cl. 88-18.7.
- Cheek, Forrest R., to General Motors Corp. Controlled fluid coupling. 2,916,881, 12-15-59, Cl. 60-54.
- Cheek, Forrest R., and N. Reighard, to General Motors Corp. Automatic plural step-ratio transmissions. 2,896,468, 7-28-59, Cl. 74-472.
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- Cheetham, Robert A., to General Motors Corp. Engine starting apparatus. 2,892,454, 6-30-59, Cl. 123-179.
- Cheetham, William R., and W. G. Parr, to Pye Ltd. Television transmitting apparatus. 2,899,489, 8-11-59, Cl. 178-5.4.
- Cheetham, William R., and W. G. Parr, to Pye Ltd. Television receiving apparatus. 2,899,490, 8-11-59, Cl. 178-5.4.
- Cheever, James W., Jr. Core handling machine. 2,890,675, 6-16-59, Cl. 118-6.
- Chellik, Philip, to Radio Corp. of America. Electronic comparator. 2,877,445, 3-10-59, Cl. 340-149.
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- Chemerda, John M., to Merck & Co., Inc. Preparation of 7,11-diketo-steroids. 2,897,197, 7-28-59, Cl. 260-239.55.
- Chemerda, John M., to Merck & Co., Inc. 7-keto-11-oxy-steroids and processes of preparing them. 2,901,493, 8-25-59, Cl. 260-397.2.
- Chemerda, John M., to Merck & Co., Inc.  $\Delta^{8(9)}$ -7-keto-11-oxy-steroids and processes of preparing them. 2,919,270, 12-29-59, Cl. 260-239.55.
- Chemerda, John M., E. M. Chamberlin, and E. W. Tristram, to Merck & Co., Inc. Preparation of 4-pregnen-17 $\alpha$ -ol-3,20-dione. 2,877,238, 3-10-59, Cl. 260-397.
- Chemerda, John M., and T. A. Jacob, to Merck & Co., Inc.  $\Delta^{8(9)}$ -7-keto-allosteroids and processes of preparing them. 2,903,448, 9-8-59, Cl. 260-239.55.



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- Chlorator G.m.b.H.: *See*—  
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- Chloride Electrical Storage Co. Ltd., The: *See*—  
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- Choate, William B. Plied textile yarn. 2,912,742, 11-17-59, Cl. 28—81.
- Choclin, José and M. I. Safety razor with self-adjusting blade. 2,911,712, 11-10-59, Cl. 30—58.
- Choclin, Miguel I.: *See*—  
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- Chodorow, Marvin, and R. H. Varian, to Varian Associates. Gyromagnetic resonance apparatus. 2,894,209, 7-7-59, Cl. 331—94.
- Chodorowski, Wieslaw T., to Strachan & Henshaw Ltd. Web severing devices in web feeding machines. 2,911,132, 11-3-59, Cl. 225—101.
- Chodroff, Saul, A. Saldarini, and R. L. Tracy, to Norda Essential Oil and Chemical Co. Ketals of methylenedioxypropionophenone. 2,906,663, 9-29-59, Cl. 167—24.
- Chodroff, Saul, and M. Dunkel, to Norda Essential Oil and Chemical Co. Process for the preparation of acetylenic alcohols. 2,919,281, 12-29-59, Cl. 260—340.5.
- Choice, Frank C., and R. C. Quarmby, to United Shoe Machinery Corp. Heel building machines. 2,889,554, 6-9-59, Cl. 1—39.8.
- Cholet, Bertram. Fountain pen with means for controlling the flow therefrom. 2,878,783, 3-24-59, Cl. 120—48.
- Cholick, Joe J.: *See*—  
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- Chollet, Raymond A.: *See*—  
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- Cholvin, Robert L., B. C. Harvey, Jr., and R. W. Jensen, to The Garrett Corp. Aircraft cabin air conditioning system. 2,909,323, 10-20-59, Cl. 236—80.
- Chope, Wilbert B., and L. G. Mamas, to Industrial Nucleonics Corp. Measuring and recalibrating servosystem. 2,894,185, 7-7-59, Cl. 318—28.
- Choquer, Jean, and A. Weissfloch, to Societe Technique d'Application et de Recherche Electronique S.T.A.R.E.C. Wide-band antenna. 2,895,133, 7-14-59, Cl. 343—767.
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- Chornock, Francis W., and J. M. Pensack, to Commercial Solvents Corp. Animal feed supplement. 2,913,340, 11-17-59, Cl. 99-2.
- Chorost, William. Safety wallet or like article of manufacture. 2,908,306, 10-13-59, Cl. 150-47.
- Chou, Joseph K.: *See*—
- Benson, Don O., Kroll, and Chou. 2,877,619.
- Chouings, Leslie C., to Automotive Products Co. Ltd. Valve devices for controlling servo-devices of the differential air pressure type. 2,872,905, 2-10-59, Cl. 121-46.5.
- Chovanes, Joseph. Paint collar. 2,878,956, 3-24-59, Cl. 220-4.
- Chow, Ho., to Central Technical, Inc. Workpiece supporting clamp. 2,872,854, 2-10-59, Cl. 90-59.
- Chow, Woo F., to General Electric Co. Gain control circuit for semiconductor amplifiers. 2,898,411, 8-4-59, Cl. 179-171.
- Chow, Woo F., and D. A. Paynter, to General Electric Co. Stable transistor oscillator. 2,878,386, 3-17-59, Cl. 250-36.
- Chrencik, Edward W. Shoe construction with resilient heel and arch support. 2,885,797, 5-12-59, Cl. 36-2.5.
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- Chrisman, Charles M. Weather proof container. 2,876,924, 3-10-59, Cl. 220-8.
- Chrisman, James J.: *See*—
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- Christensen, Arthur R.: *See*—
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- Christensen, Carl B., to Ready Tool Co. Machine tool center. 2,876,807, 3-10-59, Cl. 142-55.
- Christensen, Carl O., to Roll-Rite Corp. Blower drive wheel for railroad refrigerator cars. 2,878,759, 3-24-59, Cl. 105-112.
- Christensen, Carlo M., to Minneapolis-Honeywell Regulator Co. Aligning and locating arrangement. 2,889,437, 6-2-59, Cl. 200-168.
- Christensen, Donald W., to Young Radiator Co. Heat exchanger and turbulator retainer therefor. 2,915,294, 12-1-59, Cl. 257-124.
- Christensen, Edward B.: *See*—
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- Christensen, Everett F.: *See*—
- Lamberton, Clifford J., Christensen, and Keating. 2,878,455.
- Christensen, George O., to Allis-Chalmers Mfg. Co. Track tensioning device. 2,917,346, 12-15-59, Cl. 305-31.
- Christensen, Grover P. Mounting means for an auto antenna thermometer. 2,878,673, 3-24-59, Cl. 73-343.
- Christensen, Horace H.: *See*—
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- Christensen, John W.: *See*—
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- Christensen, John W., to Columbia Broadcasting System, Inc. Apparatus for making motion pictures of reproductions in field sequential color television systems. 2,878,309, 3-17-59, Cl. 178-54.
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- Christensen, Lars N. Drag eveners. 2,901,268, 8-25-59, Cl. 280-411.
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- Christensen, Max C., to Ford Motor Co. Fertilizer spreader. 2,899,111, 8-11-59, Cl. 222-238.
- Christensen, Moodie. Disc harrow transport assembly. 2,882,981, 4-21-59, Cl. 172-241.
- Christensen, Norman B., to Republic Mfg. Co. Control device for vehicle suspension. 2,905,462, 9-22-59, Cl. 267-65.
- Christensen, Paul M., to Federal Pacific Electric Co. Motor starters. 2,872,548, 2-3-59, Cl. 200-116.
- Christensen, Paul M., to Federal Electric Products Co. Circuit breakers. 2,876,308, 3-3-59, Cl. 200-88.
- Christensen, Paul M., to Federal Electric Products Co. Circuit breakers having plug-in type terminals. 2,883,586, 4-21-59, Cl. 317-119.
- Christensen, Paul M., and H. Cohen, to Federal Electric Products Co. Locking means for casing enclosed mechanisms. 2,916,904, 12-15-59, Cl. 70-150.
- Christensen, Ralph O. Dental forceps. 2,912,760, 11-17-59, Cl. 32-62.
- Christensen, Sheldon L. Hydraulic pavement breaker. 2,906,244, 9-29-59, Cl. 121-25.
- Christenson, Donald J., to J. I. Case Co. Fertilizer spreader metering and flushing device. 2,916,189, 12-8-59, Cl. 222-484.
- Christenson, Donald J., C. W. Hansen, and M. A. Richardson, to J. I. Case Co. Metering adjustment means for fertilizer spreader. 2,892,571, 6-30-59, Cl. 222-43.
- Christenson, Howard W., to General Motors Corp. Variable discharge vane pump. 2,916,999, 12-15-59, Cl. 103-40.
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- Christenson, Roger M.: *See*—
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- Christenson, Roger M., and L. O. Cummings, to Pittsburgh Plate Glass Co. Oil soluble butenylphenol formaldehyde resins. 2,871,208, 1-27-59, Cl. 260-19.
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- Christenson, Roger M., and J. J. Jaruzelski, to Pittsburgh Plate Glass Co. Epoxy compounds. 2,874,150, 2-17-59, Cl. 260-78.4.
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- Christenson, Roger M., and H. E. Holste, to Pittsburgh Plate Glass Co. Alkenylphenol-aldehyde resins. 2,907,751, 10-6-59, Cl. 260-53.
- Christenson, Roger M., and W. C. Bean, to Pittsburgh Plate Glass Co. Glycidyl polyethers from an epihalohydrin and a bis(4-hydroxy-3 allyl phenyl) alkane. 2,910,455, 10-27-59, Cl. 260-47.
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- Christian, Charlie R. Connecting rod and piston tool. 2,880,500, 4-7-59, Cl. 29-275.
- Christian, Curtis G., to Collier Carbon and Chemical Corp. Nitrogen-phosphorus compositions. 2,884,318, 4-28-59, Cl. 71-35.
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- Christian, Robert F. 2,886,902.
- Christian, John D., and E. W. Lard, to W. R. Grace & Co. Purification of cyanuric acid. 2,905,671, 9-22-59, Cl. 260-248.
- Christian, Joseph D. Heat exchange equipment. 2,916,807, 12-15-59, Cl. 29-156.8.
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- Christian, Robert L.: *See*—
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- Christiansen, Carl J. Machine for dust free grinding of materials as ear corn for livestock feed. 2,873,921, 2-17-59, Cl. 241-186.
- Christiansen, Heinrich H. C., to Rockwell Gesellschaft mit beschränkter Haftung. Self-propelling car shunter. 2,905,103, 9-22-59, Cl. 105-90.
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- Christie, Reginald A.: *See*—  
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- Christman, Donald L., to Hercules Powder Co. Dithiophosphate insecticides. 2,884,353, 4-28-59, Cl. 167-22.
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- Christman, Fred G., to The Ohio Brass Co. Trolley shoe. 2,896,032, 7-21-59, Cl. 191-59.1.
- Christmann, Ludwig J., and A. G. Houpt, to American Cyanamid Co. Apparatus for the manufacture of HCN. 2,878,169, 3-17-59, Cl. 202-168.
- Christmas, Ed R.,  $\frac{1}{2}$  to V. R. York. Decoy device. 2,909,859, 10-27-59, Cl. 43-3.
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- Christoffel, Ivan, to Allied Chemical Corp. Fertilizer solutions. 2,919,183, 12-29-59, Cl. 71-51.
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- Christofferson, Donald F., to International Harvester Co. Replaceable implement part. 2,876,853, 3-10-59, Cl. 172-753.
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- Christopher, Edward F., and H. H. Young, to Swift & Co. Glue setting accelerators. 2,899,327, 8-11-59, Cl. 106-125.
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- Chrome Steel Plate Corp.: *See*—  
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- Chu, John J. Pneumatic pressure respiratory vest. 2,869,537, 1-20-59, Cl. 128-27.
- Chu, Lan J. Radio-frequency-energy transmission line and antenna. 2,919,441, 12-29-59, Cl. 343-810.
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- Chubb, Lewis W. J.: *See*—  
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- Chubbs, Howard L. Ladder attachment. 2,903,086, 9-8-59, Cl. 182-229.
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- Chudleigh, Walter H., Jr., and R. W. Yutz, to Philco Corp. Frequency sensitive circuit. 2,915,648, 12-1-59, Cl. 307-88.5.
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- Chupa, John C., to The Barr Rubber Products Co. Tether ball. 2,894,746, 7-14-59, Cl. 273-58.
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- Churchill, Alan W., and A. V. H. Canfield, to Automatic Switch Co. Pilot-operated three-way diversion valve. 2,882,929, 4-21-59, Cl. 137—609.
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- Wiseman, George. 2,872,279.
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- Geigy, Wilhelm. 2,903,325.
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- Grelat, Maurice. 2,884,425.
- Gunst, Raymond. 2,875,192.
- Hanhart, Walter. 2,870,136.
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- Jenny, Walter. 2,899,438.
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- Kohler, Paul, Porret, and Tetaz. 2,905,705.
- Maeder, Arthur. 2,894,019.
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- Matter, Erich, and Albrecht. 2,891,835.
- Meyer, Armin. 2,914,407.
- Mory, Rudolf, Stoecklin, and Schmid. 2,914,539.
- Mueller, Jakob. 2,882,277.
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- Sulzer, George, Guertler, Fatzler, and Maeder. 2,888,420.
- Van der Neut, Jan H., and Renner. 2,881,149.
- Wegmann, Jacques, Kern, and Jenny. 2,888,312.
- Widmer, Gustav. 2,918,453.
- Wohler, Guido. 2,879,054.
- Wohler, Viktor. 2,899,131.
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- Benze, William L. 2,877,270.
- Cooper, Jack, and Windeuser. 2,887,438.
- De Stevens, George. 2,877,231.
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- De Stevens, George, Heymann, and Mayer. 2,910,484.
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- Hueni, Albrecht. 2,868,802.
- Kuehne, Martin E. 2,901,483.
- Lachman, Leon, and Suydam. 2,277,159.
- Lucas, Robert A. 2,867,622.
- Marxer, Adrian. 2,893,991.
- Mizzoni, Renat H. 2,910,478.
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- Mull, Robert P. 2,897,195.
- Neher, Robert. 2,868,834.
- Romeo, Aurelio. 2,870,175.
- Rosen, William E. 2,873,281.
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- Schlittler, Emil. 2,883,383.
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- Shabica, Anthony C. 2,903,714.
- Taylor, William I. 2,877,225.
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Lee, Ferman N., MacKenzie, D'Arcey, and Cicchetti. 2,904,788.
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- Cihak, Frank A. Adjustable chuck work stops. 2,868,552, 1-13-59, Cl. 279-123.
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Engel, William J. 2,869,107.  
Johanson, Bengt J. 2,869,090.  
Willis, Grant N. 2,898,718.  
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Reser, George G., Pickens, and Schmidt. 2,885,726.  
Schmidt, Carl O., Jr. 2,897,537.  
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Schmidt, William C. 2,879,043.
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- Cincinnati Metalcrafts, Inc.: *See—*  
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- Cincinnati Milling Machine Co., The: *See—*  
Adams, Robert R. 2,885,930.  
Bauer, Eduard. 2,899,621.  
Ernst, Hans, and Haggerty. 2,903,922.  
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Grove, George L. 2,882,649.  
Henry, Robert L. 2,868,993.  
Hoier, Walter A. 2,914,890.  
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Morgan, John M., Jr. 2,868,087.  
Paulton, Richard A. 2,878,767.  
Rave, Joseph A., Jr., and Henry. 2,902,904.  
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- Cincinnati Mine Machinery Co., The: *See—*  
Bruestle, Armin O., and Krekeler. 2,916,275.  
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- Cincinnati Tool Co., The: *See—*  
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- Cineteknik A.G.: *See—*  
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- Cink, Albin. Hand apparatus for flame cutting of profiled tube ends. 2,878,010, 3-17-59, Cl. 266-23.
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- Cionchi, Duilio. Septic tank. 2,911,102, 11-3-59, Cl. 210-532.
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Yovich, Frederick. 2,897,002.
- Cipolla, Laurence. Midsole skiving and trimming machine. 2,893,025, 7-7-59, Cl. 12-88.
- Cipriano, Angelo L., H. A. Walters, and G. E. Clock, to The Dow Chemical Co. Curing conjugated diolefin polymer coatings. 2,917,407, 12-15-59, Cl. 117-103.
- Ciraolo, Samuel. Fruit cutter machine. 2,906,307, 9-29-59, Cl. 146-28.
- Circle Machinery & Supply Co.: *See—*  
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- Circle Plastics Co.: *See—*  
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- Circle, Sidney J., P. L. Julian, and R. W. Whitney, to The Glidden Co. Process for isolating soya protein. 2,881,159, 4-7-59, Cl. 260-123.5.
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- Cirillo, Lee, to Towmotor Corp. Lift truck roll-off. 2,918,186, 12-22-59, Cl. 214-512.
- Cirone, Joseph. Slide fastener handle. 2,900,205, 8-18-59, Cl. 294-1.
- Cirot, Andre. Stand lamp. 2,897,349, 7-28-59, Cl. 240-81.
- Cisatlantic Corp.: *See—*  
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- Ciscel, Benjamin H., to Minneapolis-Honeywell Regulator Co. Gyroscopic compass. 2,902,772, 9-8-59, Cl. 33-226.
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- Cisco, Inc.: *See—*  
Rosenthal, Joseph S. 2,870,448.
- Cisco, Edward S., to Standard Railway Equipment Mfg. Co. Hatch cover lock. 2,873,696, 2-17-59, Cl. 105-377.
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- Cislo, Casimer J., to General Motors Corp. Independent dirigible wheel suspension. 2,872,206, 2-3-59, Cl. 280-96.2.
- Cisney, Merle E.: *See—*  
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- Cisney, Merle E., and D. W. Goheen, to Crown Zellerbach Corp. Preparing organic sulfides. 2,908,716, 10-13-59, Cl. 260-609.
- Cissell, W. M., Mfg. Co.: *See—*  
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Hughes, William B., and Fallgatter. 2,904,508.  
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- Citron, Robert R. Extension device for garment hangers and the like. 2,869,767, 1-20-59, Cl. 223-88.
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- City National Bank and Trust Co. of Chicago: *See—*  
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- Cizauskas, Albert J.: *See—*  
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- Cizinský, Bedřich. Ultracentrifuge. 2,872,104, 2-3-59, Cl. 233-23.



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- Claas, Elfriede M. T.: *See*—
- Claas, Helmut F., R. H., and T. 2,913,977.
- Claas, Margarete: *See*—
- Claas, Helmut F., R. H., and T. 2,913,977.
- Claas, Reinhold: *See*—
- Claas, August, Brenner, Roderfeld, and Claas. 2,888,088.
- Claas, Reinhold H.: *See*—
- Claas, Helmut F., R. H., and T. 2,913,977.
- Claas, Theo: *See*—
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- Claassen, Howard H.: *See*—
- Malm, John G., Weinstock, and Claassen. 2,893,826.
- Clabough, Wilbur S., and R. Gilchrist, to United States of America, Navy. Preparation of pure titanium tetrachloride. 2,915,364, 12-1-59, Cl. 23-87.
- Clade, Robert, to ACF Industries, Inc. Spherical plug valve. 2,890,856, 6-16-59, Cl. 251-174.
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- Claesson, Per H. E.: *See*—
- Vigren, Sten D., and Claesson. 2,873,322.
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- Clagg, Bruce E. Fishing tackle. 2,885,815, 5-12-59, Cl. 43-19.
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- Burt, William C. 2,915,859.
- Clair, Verne, Jr., to Kelsey-Hayes Co. Method of cold pressure welding metal foil. 2,894,322, 7-14-59, Cl. 29-470.1.
- Clairex Corp.: *See*—
- Deuth, Albert F. 2,912,593.
- Clapp, Archie J., Jr. Aircraft payload computer. 2,867,381, 1-6-59, Cl. 235-61.
- Clapp, Charles C., to Weyerhaeuser Timber Co. Packaging machine. 2,917,876, 12-22-59, Cl. 53-14.
- Clapp, Charles W., to General Electric Co. Single-turn coil for metal detector. 2,869,074, 1-13-59, Cl. 324-41.
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- Clapp, Daniel E., to Proctor Mfg. Corp. Steam iron. 2,908,092, 10-13-59, Cl. 38-77.
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- Rieppel, Perry J., and Clapp. 2,874,942.
- Rieppel, Perry J., Clapp, and Elliott. 2,882,588.
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- Bottoms, Paul H., Clapp, Loggins, and Stansbury. 2,918,696.
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- Clapp, Richard G., to Philco Corp. Color image-producing cathode ray tube. 2,899,581, 8-11-59, Cl. 313-92.
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- Boomer, Daryl R., Clapperton, and Phillips. 2,901,339.
- Clarage Fan Co.: *See*—
- Downs, Sewell H. 2,903,182.
- Claras, Carl W., to Revere Camera Co. Magnetic recorder-reproducer. 2,897,289, 7-28-59, Cl. 179-100.2.
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- Koda, Arthur J. 2,914,634.
- Koda, Arthur J., and Scannell. 2,888,533.
- Clarey, John J., to Bristol-Myers Co. Therapeutic preparations for topical application to the skin. 2,901,399, 8-25-59, Cl. 167-87.
- Claridge, Elmond L., to Shell Development Co. Production of gasoline by catalytic cracking. 2,868,717, 1-13-59, Cl. 208-94.
- Claridge, Elmond L., and J. M. Wallin, to Shell Development Co. Lubricating oil refining process. 2,886,523, 5-12-59, Cl. 208-312.
- Clarin, Sidney. Method of covering a drum filter, or such like, with wire gauze. 2,901,820, 9-1-59, Cl. 29-419.
- Clark, Adna R., to International Harvester Co. Apparatus for starting diesel engines at low temperatures. 2,906,088, 9-29-59, Cl. 60-17.
- Clark, Adna R., to International Harvester Co. Cooling apparatus for vehicle seats. 2,912,832, 11-17-59, Cl. 62-172.
- Clark, Albert G., to General Electric Co. Portable electrical torch. 2,900,485, 8-18-59, Cl. 219-75.
- Clark, Albert R. and W. B. Apparatus for receiving tubes and loading them into racks. 2,905,340, 9-22-59, Cl. 214-6.
- Clark, Alfred: *See*—
- Holm, Vernon C. F., Bailey, and Clark. 2,904,608.
- Clark, Alfred, to Phillips Petroleum Co. Polymerization of olefins in presence of a nickel oxide-silica-alumina catalyst containing an alkaline material. 2,881,233, 4-7-59, Cl. 260-683.15.
- Clark, Alfred S., to United Shoe Machinery Corp. Shoe sewing machines. 2,903,984, 9-15-59, Cl. 112-49.
- Clark, Alfred S., to United Shoe Machinery Corp. Machines for operating on sole members. 2,913,742, 11-24-59, Cl. 12-18.7.
- Clark, Alvin F., Jr. Machine for compressing and rolling bedding springs. 2,870,974, 1-27-59, Cl. 242-55.
- Clark, Arnold F., to United States of America, Atomic Energy Commission. Calutron. 2,891,163, 6-16-59, Cl. 250-41.9.
- Clark, Austin B. J., and P. T. Boltz. Hypervelocity gun. 2,882,796, 4-21-59, Cl. 89-7.
- Clark, Benjamin F., E. Gipstein, M. A. Higgins, and P. R. Kippur, to Olin Mathieson Chemical Corp. Preparation of tris(2-chlorovinyl) borane. 2,918,498, 12-22-59, Cl. 260-606.5.
- Clark, Benjamin F., E. Gipstein, M. A. Higgins, and P. R. Kippur, to Olin Mathieson Chemical Corp. Preparation of chlorobis(2-chlorovinyl) borane. 2,919,291, 12-29-59, Cl. 260-543.
- Clark, Carleton L., W. W. Hickey, R. G. Kaiser, and J. A. Smith, to Clark & Vicario Corp. De-aerating hydrocyclones. 2,876,860, 3-10-59, Cl. 183-2.5.
- Clark, Cecil B. Defensive device. 2,908,244, 10-13-59, Cl. 116-67.
- Clark, Charles, Jr., to United States of America, Air Force. Visual indicating apparatus. 2,913,660, 11-17-59, Cl. 324-68.
- Clark, Charles C.: *See*—
- Kanda, Frank A., King, and Clark. 2,918,352.
- Clark, Charles W.: *See*—
- Bushong, Raymond M., Clark, and Holloway. 2,890,128.
- Clark, Clarence A. Milking and weighing apparatus. 2,868,167, 1-13-59, Cl. 119-14.05.
- Clark Controller Co., The: *See*—
- Fox, John W., and Hart. 2,883,036.
- Hoge, Robert H. 2,878,832.
- Hoge, Robert H. 2,909,193.
- Kuka, Kai-Kobad S. 2,902,635.
- Ohlsson, Jan R. 2,902,052.
- Pearson, Arald B. 2,879,359.
- Sauter, John D. 2,897,370.
- Sauter, John D. 2,907,565.
- Sauter, John D., and Few. 2,884,580.
- Clark, David L., to General Electric Co. Clothes washer with adjustable water level control. 2,911,811, 11-10-59, Cl. 68-12.
- Clark, David M.: *See*—
- Chatham, Joshua D., and Clark. 2,871,849.
- Christy, Ralph L., and Clark. 2,902,692.
- Penrod, Kenneth E., and Clark. 2,888,011.
- Clark, Donald H., 1/2 to C. S. Fielding. Vehicle parking apparatus. 2,878,921, 3-24-59, Cl. 198-137.
- Clark, Earl J., to General Motors Corp. Bearing lubricator assembly. 2,877,067, 3-10-59, Cl. 308-127.
- Clark, Earl J., to General Motors Corp. Bearing assembly. 2,890,086, 6-9-59, Cl. 308-88.
- Clark, Earl W.: *See*—
- Millar, Norval P., and Clark. 2,903,647.
- Clark, Earl W., to General Electric Co. Electrical measuring instrument of the iron vane type. 2,897,447, 7-28-59, Cl. 324-147.
- Clark, Earl W., to General Electric Co. Frequency measuring apparatus. 2,907,951, 10-6-59, Cl. 324-81.
- Clark, Earl W. Attachment for hair clippers. 2,916,820, 12-15-59, Cl. 30-201.
- Clark, Earl W., and H. E. Albright, to General Electric Co. Recorder chart driving mechanism. 2,915,360, 12-1-59, Cl. 346-136.
- Clark, Earnest H., Jr.: *See*—
- Baker, John R., and Clark. 2,874,784.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Variable orifice casing filling apparatus. Re. 24,659, 6-16-59, Cl. 166-224.
- Clark, Earnest H., Jr., to Baker Oil Tools, Inc. Retrievable well apparatus. 2,906,344, 9-29-59, Cl. 166-140.
- Clark, Edgar H., deceased, E. H. Clark, Jr., executor. Automatic code translating systems. 2,873,837, 2-17-59, Cl. 197-20.
- Clark, Edgar H., Jr., executor: *See*—
- Clark, Edgar H. 2,873,837.
- Clark, Edward B., to General Electric Co. Mounting ear in slotted opening. 2,891,755, 6-23-59, Cl. 248-220.5.
- Clark, Edward B., to General Electric Co. Finished cover for underfloor junction box. 2,900,101, 8-18-59, Cl. 220-3.4.
- Clark, Edward G., to Philco Corp. Signal matrixing circuit. 2,877,347, 3-10-59, Cl. 250-27.
- Clark, Edward G., to Burroughs Corp. Transistor shift register. 2,907,898, 10-6-59, Cl. 307-88.5.
- Clark, Edward G., to Philco Corp. System for discriminatory signal carrier identification. 2,910,530, 10-27-59, Cl. 178-5.8.
- Clark, Edward G., to Burroughs Corp. High speed complementing flip flop. 2,916,638, 12-8-59, Cl. 307-88.5.



- Clark, Elton L.: See—  
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- Clark Equipment Co.: See—  
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Ayers, Edgar H., Berry, and Trusock. 2,911,053.  
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Carter, Robert L. 2,900,195.  
Coash, Robert E., and Kendall. 2,877,906.  
Deming, Mark A., and Bolster. 2,906,135.  
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Dodge, Raymond A. 2,902,183.  
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- Clark, Ernest, to Abington Textile Machinery Works. Carding apparatus and method. 2,910,733, 11-3-59, Cl. 19-98.
- Clark, Ernest, to Abington Textile Machinery Works. Carding apparatus and method. 2,910,734, 11-3-59, Cl. 19-106.
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- Clark, Ernest, to Abington Textile Machinery Works. Carding apparatus. 2,910,736, 11-3-59, Cl. 19-109.
- Clark-Feather Mfg. Co.: See—  
Fladung, Albert L. 2,895,643.
- Clark, Francis E., to Turko Products, Inc. Apparatus and method for removing metal from the surface of a metal object. 2,895,814, 7-21-59, Cl. 41-43.
- Clark, Frank P. Suds and hot water saver. 2,877,788, 3-17-59, Cl. 137-122.
- Clark, Geoffrey, and H. Nagel, to Eastman Kodak Co. Photographic exposure controlling means. 2,878,737, 3-24-59, Cl. 95-64.
- Clark, George A., and H. W. Raisch, Jr., to American Can Co. Alkylene bis stearamide-synthetic rubber coating composition. 2,884,392, 4-28-59, Cl. 260-285.
- Clark, George F., to Hiatt Engineering Co. Pressure relieved explosion chamber. 2,917,927, 12-22-59, Cl. 73-432.
- Clark, George H.: See—  
Blow, Angus W., and Clark. 2,881,250.
- Clark, Gerald A.: See—  
Havens, Carl B., and Clark. 2,84,022.
- Clark, Gerald A., to The Dow Chemical Co. Chloroethylene polymers and salicycloxy hydroxybenzophenones. 2,898,323, 8-4-59, Cl. 260-45.85.
- Clark, Gerald A., and C. B. Havens, to The Dow Chemical Co. 2,4-dihydroxy benzophenone derivatives. 2,891,996, 6-23-59, Cl. 260-591.
- Clark, Gerald A., C. B. Havens, and R. G. Brookens, to The Dow Chemical Co. Hydrocarbon polymers stabilized with B-resorcylic acid diesters. 2,910,454, 10-27-59, Cl. 260-45.85.
- Clark, Gordon W.: See—  
Ipsen, Peter G., and Clark. 2,902,831.
- Clark, Harold A., to Dow Corning Corp. Branched siloxanes. 2,877,255, 3-10-59, Cl. 260-448.2.
- Clark, Harold A., to Dow Corning Corp. Siloxane casting resins. 2,894,930, 7-14-59, Cl. 260-42.
- Clark, Harold A., to Dow Corning Corp. Fast curing organosiloxane resins. 2,906,734, 9-29-59, Cl. 260-46.5.
- Clark, Harold A., to Dow Corning Corp. Solventless siloxane resins. 2,915,497, 12-1-59, Cl. 260-46.5.
- Clark, Harold A., and L. A. Haluska, to Dow Corning Corp. Trisiloxanes. 2,877,256, 3-10-59, Cl. 260-448.2.
- Clark, Harold E., to Haloid Xerox Inc. Magnetic brush cleaning. 2,911,330, 11-3-59, Cl. 134-1.
- Clark, Harold E., and R. W. Gundlach, to Haloid Xerox, Inc. Apparatus for developing an electrostatic latent image. 2,880,696, 4-7-59, Cl. 118-637.
- Clark, Harold L.: See—  
Fox, William C., and Clark. 2,905,778.
- Clark, Henry B. Sliding and sealing door for cold storage and the like. 2,878,532, 3-24-59, Cl. 20-19.
- Clark, Henry H. Cup hanger. 2,906,406, 9-29-59, Cl. 211-13.
- Clark, Herbert, P. M. Owen, and M. G. Starr, to Chance Vought Aircraft Inc. Blast-controlling means. 2,899,866, 8-18-59, Cl. 89-37.5.
- Clark, Hewitt N. Cleat cleaner. 2,887,713, 5-26-59, Cl. 15-237.
- Clark, Howard G.: See—  
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- Clark, James A., to The Automatic Serigraph Corp. Serigraph. 2,881,323, 4-7-59, Cl. 250-66.
- Clark, James B.: See—  
Miller, Herbert J., Behles, and Clark. 2,904,366.
- Clark, James D., to Fibrofelt Corp. Method and means for defibering materials. 2,890,493, 6-16-59, Cl. 19-65.
- Clark, James d'A., to Changewood Corp. Hydraulic molding press. 2,875,797, 3-3-59, Cl. 144-281.
- Clark, James d'A., to Changewood Corp. Press feeding apparatus. 2,878,728, 3-24-59, Cl. 92-61.
- Clark, James d'A., to Fibrofelt Corp. Method of making reinforced multiply paper. 2,881,072, 4-7-59, Cl. 92-21.
- Clark, James d'A., to Changewood Corp. Storage and feed apparatus. 2,895,625, 7-21-59, Cl. 214-17.
- Clark, James R., Jr., and L. G. Christensen, to James-Pond-Clark. Check valve and cage construction. 2,918,083, 12-22-59, Cl. 137-515.5.
- Clark, James T.: See—  
Sondie, Henry P., and Pralle. 2,900,781.
- Clark, James T. Disassembling tools for hydraulic valve lifters. 2,877,542, 3-17-59, Cl. 29-213.
- Clark, James T. Lawn sprinkling nozzles. 2,892,594, 6-30-59, Cl. 239-280.
- Clark, James T. Adjustable mirror assembly for motor vehicles. 2,897,726, 8-4-59, Cl. 88-93.
- Clark, Jane B.: See—  
Clark, John. 2,868,133.
- Clark, Jared W., to Union Carbide Corp. Composite packaging unit. 2,914,238, 11-24-59, Cl. 229-55.
- Clark, Jared W., and A. E. Winslow, to Union Carbide Corp. Production of polymeric materials from polyoxoalkylene polyols and butadiene diepoxide. 2,897,163, 7-28-59, Cl. 260-2.
- Clark, Jay L.: See—  
Whitney, Gilbert C., Jr., and Clark. 2,912,942.
- Clark, Joe H., and W. E. Taft, to American Cyanamid Co. 3-amino-6-substituted pyridazines and methods of preparing and utilizing same. 2,891,953, 6-23-59, Cl. 260-250.
- Clark, John: See—  
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- Clark, John, deceased, by J. B. and M. S. L. Clark, and H. MacMurphy, executrices, to J. B. Clark. Centrifugal pumps. 2,868,133, 1-13-59, Cl. 103-87.
- Clark, John A., Jr., and J. J. Fischer, to The Patterson-Kelley Co, Inc. Heat exchanger. 2,869,834, 1-20-59, Cl. 257,235.
- Clark, John B., Jr., to General Motors Corp. Fuel injection system. 2,880,714, 4-7-59, Cl. 123-140.
- Clark, John C., to Western Piping & Engineering Co., Inc. Cable winch. 2,895,714, 7-21-59, Cl. 254-165.
- Clark, John D.: See—  
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- Mulqueeny, Thomas J., and Clark. 2,889,216.
- Clark, John P. Mixer for liquid fuels. 2,891,572, 6-23-59, Cl. 137-544.
- Clark, John R.: See—  
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- Clark, John R., K. F. Finlay, deceased, by D. L. Finlay, executrix, to Northrop Aircraft, Inc. Airborne missile to carrier aircraft attachment arrangement. 2,876,677, 3-10-59, Cl. 89-1.5.
- Clark, Jonathan H., and A. R. Baird. Loader. 2,889,944, 6-9-59, Cl. 214-82.
- Clark, Jorge L. D., 1/4 to R. G. Mentag. Parking device for automobiles. 2,870,851, 1-27-59, Cl. 180-1.
- Clark, Jorge L. P., 1/4 to R. G. Mentag. Vehicle parking device. 2,882,985, 4-21-59, Cl. 180-1.
- Clark, Joseph H., Jr., to General Electric Co. Electrical coil and terminal assembly. 2,883,635, 4-21-59, Cl. 336-192.
- Clark, Joseph T., Jr., to The Leece-Neville Co. Electric motor construction. 2,890,357, 6-9-59, Cl. 310-258.
- Clark, Julius: See—  
Myrick, Elvin L., and Clark. 2,906,226.
- Clark, Kenneth C., and J. F. Strickland. Fishhook package. 2,904,925, 9-22-59, Cl. 43-57.5.
- Clark, Kenneth J. B.: See—  
Hirst, Archie J., and Clark. 2,891,744.
- Clark, Lawrence, to Armstrong Cork Co. Rubbery flexible closed cell product. 2,873,259, 2-10-59, Cl. 260-2.5.
- Clark, Leland B., Sr. Electrically conductive films and method for producing same. 2,898,496, 8-4-59, Cl. 313-93.
- Clark, Leland C., Jr. Electrochemical device for chemical analysis. 2,913,386, 11-17-59, Cl. 204-195.
- Clark, Le Roy E. Internal combustion engine manifold heater. 2,873,349, 2-10-59, Cl. 219-38.
- Clark, Lincoln: See—  
Coulson, Gordon R., and Clark. 2,885,339.
- Clark, Louis F. Recovering metal values from sulfur containing ores. 2,871,116, 1-27-59, Cl. 75-108.
- Clark, Lucius K., and C. L. King. Gas anticipator. 2,901,566, 8-25-59, Cl. 200-61.03.



- Clark, Margaret S. L.: *See*—  
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- Clark, Nathan C., to Lockheed Aircraft Corp. Phase sequence sensitive circuits. 2,914,703, 11-24-59, Cl. 317-48.
- Clark, Neil M., to Waco Mfg. Co. Tie rod for concrete wall forms. 2,887,758, 5-26-59, Cl. 25-131.
- Clark, Raymond N.: *See*—  
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- Clark, Robert A. Lock. 2,880,606, 4-7-59, Cl. 70-214.
- Clark, Robert A. Door lock. 2,889,164, 6-2-59, Cl. 292-229.
- Clark, Robert C. Vertically slatted blinds for windows. 2,905,237, 9-22-59, Cl. 160-176.
- Clark, Robert D.: *See*—  
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- Clark, Robert E., to E. I. du Pont de Nemours and Co. Spinning solution. 2,875,079, 2-24-59, Cl. 106-165.
- Clark, Robert L., to Ward Leonard Electric Co. High load current switch. 2,872,543, 2-3-59, Cl. 200-87.
- Clark, Robert L., to Ward Leonard Electric Co. Contactor. 2,904,657, 9-15-59, Cl. 200-104.
- Clark, Robert L. Well developer. 2,915,128, 12-1-59, Cl. 166-177.
- Clark, Robert O. Apparatus for displaying images of a plurality of oscillographic film records. 2,891,442, 6-23-59, Cl. 88-24.
- Clark, Sheldon L.: *See*—  
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- Clark, Sidney F.: *See*—  
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- Clark Suds Return Systems, Inc.: *See*—  
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- Clark, Truman B.: *See*—  
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- Clark & Vicario Corp.: *See*—  
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- Clark, Wallace. Down-hole motor positioning device. 2,893,693, 7-7-59, Cl. 255-4.
- Clark, Wallace. Well drilling apparatus and method. 2,898,087, 8-4-59, Cl. 255-4.
- Clark, Walter K.: *See*—  
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- Clark, Weldon D., to General Electric Co. Selective circuit. 2,894,120, 7-7-59, Cl. 250-6.
- Clark, William B.: *See*—  
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- Clark, William H., to The Dow Chemical Co. Method of treating earth formations. 2,888,988, 6-2-59, Cl. 166-15.
- Clark, William J., and J. W. Eddy, to Chrysler Corp. Torsion bar hinge assembly. 2,871,505, 2-3-59, Cl. 16-180.
- Clark, William R., to Leeds and Northrup Co. Cable transmission systems for recorders. 2,884,788, 5-5-59, Cl. 74-10.7.
- Clark, William R., to Leeds and Northrup Co. High-speed self-balancing servosystem. 2,913,654, 11-17-59, Cl. 318-148.
- Clark, Willis E., and J. E. Beall. Container ejecting mechanism. 2,896,820, 7-28-59, Cl. 221-210.
- Clarke, Arthur F., Jr., to Bendix Aviation Corp. Vacuum tube mounting. 2,894,177, 7-7-59, Cl. 317-101.
- Clarke, Bruce P., to Ingersoll-Rand Co. Controlling device for hoists. 2,893,357, 7-7-59, Cl. 121-46.4.
- Clarke, Charles E., and J. P. Silk; said Clarke assor. to said Silk. Wheel rotating apparatus for tire washing machine. 2,910,202, 10-27-59, Cl. 214-340.
- Clarke, Charles O. Automotive shade screen. 2,917,111, 12-15-59, Cl. 160-91.
- Clarke, Daniel J., to The Stalker Corp. Rotor construction for axial flow compressors. 2,884,186, 4-28-59, Cl. 230-134.
- Clarke, Daniel J., to The Stalker Development Co. Axial flow compressors. 2,892,583, 6-30-59, Cl. 230-134.
- Clarke, David E., to Texas Instruments Inc. Electrical switch. 2,901,575, 8-25-59, Cl. 200-122.
- Clarke, Donald H., to Lever Brothers Co. Manufacture of aerated shortening. 2,882,166, 4-14-59, Cl. 99-118.
- Clarke, Frank H., to American Cyanamid Co. Thawing frozen tissue. 2,914,445, 11-24-59, Cl. 167-74.
- Clarke, Frederick R. M., and H. F. Plaut, to Precision Grinding Ltd. Pattern-controlled machine tools. 2,911,182, 11-3-59, Cl. 251-3.
- Clarke, George F.: *See*—  
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- Clarke, George W., deceased (by Barclays Bank Ltd., executor), W. K. Weston, and R. J. M. Andrews, to International Standard Electric Corp. Submarine cable repeater housings. 2,894,055, 7-7-59, Cl. 174-31.
- Clarke, George W., deceased (by Barclays Bank Ltd., executor), W. K. Weston, and R. J. M. Andrews, to International Standard Electric Corp. Submarine cable repeater housings. 2,914,599, 11-24-59, Cl. 174-50.5.
- Clarke, Graham M., to The M. O. Valve Co. Ltd. Electric travelling wave amplifiers. 2,898,507, 8-4-59, Cl. 315-3.6.
- Clarke, Houghton W., 99% to Mealpack Corp. Dish and tray combination. 2,886,225, 5-12-59, Cl. 224-48.
- Clarke, James A.: *See*—  
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- Clarke, John S., and E. S. Collinson, to Joseph Lucas (Industries) Ltd. Combustion chambers for jet-propulsion engines, gas turbines or the like. 2,867,982, 1-13-59, Cl. 60-39.69.
- Clarke, John S., and S. R. Jackson, to Joseph Lucas (Industries) Ltd. Combustion chambers for jet-propulsion engines, gas turbines, or other apparatus. 2,872,971, 2-10-59, Cl. 158-4.
- Clarke, John V., Jr.: *See*—  
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- Clarke, John V., Jr., S. J. Metro, and J. O. Smith, Jr., to Esso Research and Engineering Co. Petroleum distillate fuels. 2,904,416, 9-15-59, Cl. 44-72.
- Clarke, Maurice G.: *See*—  
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- Clarke, Otto A., and R. W. Dickson, to United States Steel Corp. Rail end grinder. 2,867,951, 1-13-59, Cl. 51-56.
- Clarke, Richard G.: *See*—  
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- Clarke, Robert D.: *See*—  
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- Clarke, William W., C. C. Stevens, H. Bauer, H. Jarvis, Jr., and P. Heller, to Universal Winding Co. Coil winding machine. 2,912,186, 11-10-59, Cl. 242-158.4.
- Clarke Co., The: *See*—  
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- Clarkson, Alick, to Vapor Heating Corp. Hot water heater. 2,906,250, 9-29-59, Cl. 122-165.
- Clarkson, Alick, and W. W. Parks, to Vapor Heating Corp. Feed water pump. 2,899,247, 8-11-59, Cl. 309-2.
- Clarkson, Jack, to British Nylon Spinners Ltd. Production of slivers of staple fibers from tows of continuous filaments. 2,872,707, 2-10-59, Cl. 19-51.
- Clarostat Mfg. Co., Inc.: *See*—  
Mucher, George J. 2,879,363.  
Mucher, George J. 2,879,364.  
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- Clarvoe, George W., to Johns-Manville Corp. Adhesive applicator. 2,889,922, 6-9-59, Cl. 206-56.
- Clary Corp.: *See*—  
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Boyd, Robert E., Scozzafava, and Stansell. 2,894,449.  
Christoff, Chris A., and Witt. 2,910,936.  
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Mark, Richard S. 2,879,712.  
Scozzafava, Milton V., and Busch. 2,879,993.  
Stansell, Alpheus F. 2,917,231.  
Witt, Elwin O., and Christoff. 2,915,968.
- Clasen, Hermann, to Siemens & Halske Aktiengesellschaft. Process for the production of  $\text{SiH}_2\text{Cl}_2$ . 2,900,225, 8-18-59, Cl. 23-14.
- Class, Helmut F., R. H., and T., deceased; by M. Claas, nee Segal, heir and guardian of minor heirs, and E. M. T. Claas, heir. Press and means for safeguarding same against excessive loads. 2,913,977, 11-24-59, Cl. 100-50.
- Claude General Neon Lights Ltd.: *See*—  
Higgins, Clifford, and Prior. 2,881,345.
- Claude Paz et Visseseaux: *See*—  
Lemaigre-Voreaux, Pierre. 2,913,298.
- Claudi-Magnussen, Finn: *See*—  
Amon, William F., Jr., and Claudi-Magnussen. 2,895,866.
- Claud-Mantle, Arthur, to Tangel Material Handling Equipment, Inc. Conveyor switch device. 2,873,689, 2-17-59, Cl. 104-103.
- Claud-Mantle, Arthur, to The Bassick Co. Box lid fastener. 2,876,031, 3-3-59, Cl. 292-112.
- Claud-Mantle, Arthur, to Stewart-Warner Corp. Hood latch. 2,877,035, 3-10-59, Cl. 292-56.
- Claud-Mantle, Arthur, to Stewart Warner Corp. Hood latch. 2,884,275, 4-28-59, Cl. 292-52.
- Claud-Mantle, Arthur, to The Bassick Co. Handle-equipped lid fastener. 2,893,771, 7-7-59, Cl. 292-113.
- Claud-Mantle, Arthur, to The Bassick Co. Box lid fastener. 2,913,273, 11-17-59, Cl. 292-246.
- Claud-Mantle, Arthur, to The Bassick Co. Box lid fastener. 2,916,901, 12-15-59, Cl. 70-76.
- Claudy, Harry N., to Phillips Petroleum Co. Contactor and torque control device. 2,873,584, 2-17-59, Cl. 62-135.
- Clauser, Calvin K.: *See*—  
Van Doren, Phillip T. 2,872,825.
- Clauser, Edward P.: *See*—  
La Rose, Royal J., and Clauser. 2,871,645.
- Clausen, Harvey W.: *See*—  
Boswau, Hans P., Clausen, and Evers. 2,907,983.
- Clausen, Robert A. Disposer for waste material. 2,903,192, 9-8-59, Cl. 241-43.
- Clausen, Sigurd, to International Cigar Machinery Co. Paster unit. 2,891,556, 6-23-59, Cl. 131-82.
- Clauser, Herbert C., and R. S. Long, to Kilgore, Inc. Firing mechanism. 2,889,653, 6-9-59, Cl. 42-1.
- Clauser, Robert L.: *See*—  
Bare, Conrad B., and Clauser. 2,879,137.
- Clausing, Challiss I., to I-T-E Circuit Breaker Co. Magnetic latch calibration system. 2,881,283, 4-7-59, Cl. 200-93.
- Clausing, Challiss I., to I-T-E Circuit Breaker Co. Magnetic latch system for high speed circuit breakers. 2,881,287, 4-7-59, Cl. 200-106.
- Clausing, Challiss I., to I-T-E Circuit Breaker Co. High speed circuit breaker. 2,891,123, 6-16-59, Cl. 200-93.
- Clausing, Challiss I., and A. P. Romano, to I-T-E Circuit Breaker Co. Disengageable spring clutch. 2,883,022, 4-21-59, Cl. 192-26.



- Clausing, Challiss I., and F. J. Pokorny, to I-T-E Circuit Breaker Co. Flux shifting trip magnet for circuit breaker. 2,905,865, 9-22-59, Cl. 317-43.
- Clauson, Arthur D., to Dormeyer Corp. Splitter for portable electric saw. 2,916,062, 12-8-59, Cl. 143-159.
- Clauson-Kaas, Niels K. F. W., to A/S Sadolin & Holmblad. Production of trialkoxy tetrahydrofurans. 2,879,278, 3-24-59, Cl. 260-347.8.
- Clauson-Kaas, Niels K. F. W., and N. Elming, to Sadolin & Holmblad A/S. Process for the preparation of vitamin B<sub>6</sub> intermediates employed therein, and processes of preparing the same. 2,875,207, 2-24-59, Cl. 260-297.5.
- Clauss Cutlery Co.: See—
- Brown, William H. 2,896,318.
- Clauss, Richard J.: See—
- Becking, Donald H., Clauss, and Brown. 2,882,208.
- Clauss, Robert W., to National Dairy Products Corp. Automatic package marking device. 2,908,219, 10-13-59, Cl. 101-44.
- Claussen, Walter F., to Corning Glass Works. Method of vapor coating. 2,893,895, 7-7-59, Cl. 117-106.
- Clavel, Jean. Sliding contact electric switches. 2,904,647, 9-15-59, Cl. 200-1.
- Clavier, William E., G. H. Eaton, and R. F. Benight. Drill bit mechanism. 2,877,986, 3-17-59, Cl. 255-61.
- Clavier, William E., R. F. Benight, and G. H. Eaton. Drilling equipment. 2,896,916, 7-28-59, Cl. 255-4.4.
- Clawson, O. R.: See—
- Tintinger, Emmett A. 2,894,504.
- Claxton, Arlie W., to Minerals & Chemicals Corp. of America. Adhesives containing kaolin. 2,892,731, 6-30-59, Cl. 106-208.
- Claxton, William E., to The Firestone Tire & Rubber Co. Plastic testing device. 2,904,994, 9-22-59, Cl. 73-15.6.
- Clay-Adams, Inc.: See—
- Gilman, Marvin A. 2,900,730.
- Clay, Burton R., to Radio Corp. of America. Signal amplifying systems. 2,890,330, 6-9-59, Cl. 250-27.
- Clay, Burton R., and L. H. Carmen, to Radio Corp. of America. Static magnetic field means for color television receivers. 2,898,509, 8-4-59, Cl. 315-8.
- Clay, Clarence S., Jr.: See—
- Kirby, Robert A., Clay, and Ferguson. 2,894,797.
- Clay, Clarence S., Jr., to Jersey Production Research Co. Multiple transducer array. 2,906,363, 9-29-59, Cl. 181-5.
- Clay, Harris A., to Phillips Petroleum Co. Control system for separation process. 2,882,693, 4-21-59, Cl. 62-21.
- Clay, Harry J. Automatic holder for towels, hats and other articles. 2,912,117, 11-10-59, Cl. 211-89.
- Clay, Howard W.: See—
- Ring, Harold H., Shrode, Clay, and McCleary. 2,888,734.
- Clay, Howard W., to J. R. Sassaman. Hammer. 2,894,550, 7-14-59, Cl. 145-36.
- Clay, Jeff C.: See—
- Long, John B., and Clay. 2,896,774.
- Clay, Jeff C., to The Long Co. Motor mounting. 2,894,489, 7-14-59, Cl. 121-36.
- Clay, Robert A., to M. Abraham. Shot blasting machines. 2,869,291, 1-20-59, Cl. 51-14.
- Clay, Sam L. Measuring instrument. 2,916,829, 12-15-59, Cl. 33-147.
- Clayden, David O.: See—
- Newman, Edward A., and Clayden. 2,881,411.
- Newman, Edward A., Davies, and Clayden. 2,891,723.
- Claypoole, Stewart A., to Corning Glass Works. Composite article and method. 2,889,952, 6-9-59, Cl. 220-2.1.
- Clayson, Kenneth D. Fountain sponges. 2,904,809, 9-22-59, Cl. 15-130.
- Clayton, Arthur J., to Boeing Airplane Co. Closed system for venting and inerting aircraft fuel tanks. 2,870,936, 1-27-59, Cl. 220-88.
- Clayton, Benjamin: See—
- Thurman, Benjamin H. 2,876,242.
- Thurman, Benjamin H. 2,892,619.
- Thurman, Benjamin H. 2,917,525.
- Clayton, Benjamin. Upgrading of soda ash soapstock. 2,902,501, 9-1-59, Cl. 260-412.5.
- Clayton Dewandre Co. Ltd.: See—
- Edge, Stanley H., and Beet. 2,878,646.
- Hanebeck, Emil F. 2,895,571.
- Jeffery, Harold. 2,916,015.
- Clayton, John E.: See—
- Price, James H., and Clayton. 2,901,868.
- Clayton & Lambert Mfg. Co.: See—
- Dubitzky, Michael, Hargreaves, and Keyt. 2,879,943.
- Clayton Mfg. Co.: See—
- Arant, Perry. 2,916,022.
- Cline, Edwin L. 2,870,875.
- Miller, Walter E. 2,903,406.
- Smolen, Stanley. 2,885,165.
- Clayton Mark & Co.: See—
- Nergaard, Arnold. 2,897,891.
- Nergaard, Arnold. 2,897,968.
- Clayton, Robert E.: See—
- Brant, Archie G. 2,877,597.
- Sparks, William J., Clayton, and Briggs. 2,884,982.
- Clayton, Robert E., to Esso Research and Engineering Co. Weather resistant white composition containing butyl rubber. 2,889,307, 6-2-59, Cl. 260-41.5.
- Clayton, William, to Barklelew Mfg. Co. Engine exhaust gas afterburner. Re. 24,717, 10-6-59, Cl. 60-30.
- Clayton, William G., and J. A. Finley. Holder for brooms and similar implements. 2,911,172, 11-3-59, Cl. 248-113.
- Claytor, Edward M., to General Motors Corp. One way clutch with electromagnetic energizer. 2,919,000, 12-29-59, Cl. 192-84.
- Cleanola Co., The: See—
- Ball, Henry A. 2,889,237.
- Clear Fir Products Co. Inc.: See—
- Anderson, Victor E. 2,890,749.
- Mohr, George D. 2,879,741.
- Walsh, Paul R., and Mohr. 2,879,904.
- Clearman, Jack F., to Whirlpool Corp. Flatirons. 2,918,739, 12-29-59, Cl. 38-77.
- Clearman, Jack F., to Whirlpool Corp. Transfer valve. 2,918,927, 12-29-59, Cl. 134-200.
- Cleary, Dennis E. Device for use in securing panels to wall and ceiling structure in rooms. 2,904,140, 9-15-59, Cl. 189-34.
- Cleary, Patrick J.: See—
- Sullivan, William R., Cleary, and Love. 2,917,388.
- Cleary, Richard W.: See—
- Cole, Benjamin R., and Cleary. 2,886,704.
- Cleaver, Arthur V.: See—
- Halford, Frank B., Cleaver, and Preece. 2,887,456.
- Cleaver-Brooks Co.: See—
- Cleaver, John C., Grobecker, and Wiegartz. 2,890,737.
- Grobecker, Hugo H. 2,899,851.
- Loebel, Frederick A. 2,888,910.
- Loebel, Frederick A., and Ewing. 2,890,722.
- Loebel, Frederick A., and Grobecker. 2,899,980.
- Rulsel, Elroy M. 2,896,699.
- Cleaver, Charles S., and M. W. Farlow, to E. I. du Pont de Nemours and Co. Process for the production of fluorocarbons. 2,902,521, 9-1-59, Cl. 260-653.3.
- Cleaver, John C., H. H. Grobecker, and F. G. Wiegartz, to Cleaver-Brooks Co. Tube beading apparatus. 2,890,737, 6-16-59, Cl. 153-81.
- Clegg, Peter H., to Lord High Admiral of the United Kingdom of Great Britain and Ireland, The Commissioners for Executing the Office of, and The Parsons and Marine Engineering Turbine Research and Development Association. Means for generatively finishing involute gears. 2,888,784, 6-2-59, Cl. 51-32.
- Clegg, Douglas. Apparatus for automatic and sanitary milking. 2,886,000, 5-12-59, Cl. 119-14.27.
- Clegg, John W., to C.A.V. Ltd. Governors for internal combustion engine liquid fuel injection pumps. 2,891,533, 6-23-59, Cl. 123-140.
- Cleland, Charles E.: See—
- Crane, Robert L., Cleland, and Whitmore. 2,898,669.
- Cleland, James E.: See—
- Meyer, Alvin L., and Cleland. 2,902,393.
- Cleland, James E., and A. L. Meyer, to Union Starch & Refining Co. Method of isolating caramel color values. 2,873,193, 2-10-59, Cl. 99-148.
- Cleland, Marshall R., to Radiation Dynamics, Inc. Voltage multiplication apparatus. 2,875,394, 2-24-59, Cl. 321-15.
- Cleland, William J., R. G. Thomas, and E. Seijo, to Styrene Products Ltd. Process for the production of particulate foamable styrene polymers. 2,893,963, 7-7-59, Cl. 260-2.5.
- Clelland, William M., J. P. Wilson, and D. C. Glassford, to Proctor & Schwartz, Inc. Structural assemblies. 2,915,892, 12-8-59, Cl. 72-14.
- Clem, Everett W., to Rice Barton Corp. Spiral wrapping machine. 2,872,767, 2-10-59, Cl. 53-198.
- Clem, Everett W., to Rice Barton Corp. Worm gear drive. 2,914,864, 12-1-59, Cl. 34-121.
- Clemens, Milton L., Jr., to Eastman Kodak Co. Gentisic acid purification. 2,870,199, 1-20-59, Cl. 260-521.
- Clemens, Ogden A.: See—
- Hengsgen, Bernard T., Bonami, and Clemens. 2,907,152.
- Hengsen, Bernard T., Clemens, and Urbahn. 2,877,118.
- Clemensen, Ira N. Pipe supporting and aligning fixture. 2,890,042, 6-9-59, Cl. 269-104.
- Clemensen, Robert E., to United States of America, Atomic Energy Commission. Variable time delay means. 2,911,598, 11-3-59, Cl. 333-29.
- Clement, Carl H., Jr., to Bock Laundry Machine Co. Drive and control for rotatable members. 2,899,032, 8-11-59, Cl. 192-18.
- Clement, Carl J., Jr.: See—
- Schrock, Norman B., Clement, and Herreman. 2,894,205.
- Tepper, Gene S., and Clement. 2,875,905.
- Clement, David M., to Colin Byford Ltd. Moisture traps in tobacco pipes and cigarette holders. 2,911,983, 11-10-59, Cl. 131-201.
- Clément, Jean: See—
- Crabbé, René, and Clément. 2,872,291.
- Clement, Milton A.: See—
- Morris, Frank A., and Clement. 2,877,311.
- Morris, Frank A., Clement, and Harris. 2,894,068.
- Clement, Milton A., to General Dynamics Corp. Intertoll test service trunks. 2,886,660, 5-12-59, Cl. 179-175.
- Clement, Milton A., to General Dynamics Corp. Failure circuit for counting chains. 2,899,675, 8-11-59, Cl. 340-248.
- Clement, Milton A., and R. K. Boyd, to General Dynamics Corp. Apparatus for testing gas tubes. 2,902,638, 9-1-59, Cl. 324-26.
- Clement, Richard T.: See—
- Whyte, Ronald H., and Clement. 2,904,897.



- Clementi, John A., to Beckman Instruments, Inc. Variable resistance element. 2,875,307, 2-24-59, Cl. 201-48.
- Clements, A. E. Ltd.: *See—*
- Clements, Albert E. 2,896,235.
- Clements, Albert E., to A. E. Clements, Ltd. Combined mop and wringer with additional cleaning member. 2,896,235, 7-28-59, Cl. 15-116.
- Clements, Louis E.: *See—*
- Carpenter, David L., and Clements. 2,917,665.
- Clements Mfg. Co.: *See—*
- Thornwald, Everett D. 2,907,588.
- Clements, Roy J., R. J. Loofbourrow, and B. D. Lee, to Texaco Inc. Crystal microphone. 2,914,686, 11-24-59, Cl. 310-9.1.
- Clements, Shannon K.: *See—*
- Rush, Hugh M. 2,877,660.
- Clements, Warner W. Impulse type electromotive device. 2,885,606, 5-5-59, Cl. 317-165.
- Clements, Warren F., to The Babcock & Wilcox Co. Surface hardened annular grinding ring. 2,876,955, 3-10-59, Cl. 241-129.
- Clements, Warren F., and L. L. Leach, to The Babcock & Wilcox Co. Pulverizer grinding rings. 2,879,006, 3-24-59, Cl. 241-103.
- Clemm, Peter J.: *See—*
- Guard, Ray W., and Clemm. 2,905,553.
- Clemons, Dale R., to Western Electric Co., Inc. Methods of making electrical capacitors. 2,908,067, 10-13-59, Cl. 29-25.42.
- Clemons, Dale R., to Western Electric Co., Inc. Methods of making electrical capacitors. 2,915,808, 12-8-59, Cl. 29-25.42.
- Clemons, Maurice M.: *See—*
- Sehn, Francis J., and Clemons. 2,910,321.
- Clemson Agricultural College of South Carolina, The: *See—*
- Brown, Hugh M. 2,908,133.
- Brown, Hugh M. 2,914,904.
- Efand, Thomas D. 2,906,109.
- Clemson Bros., Inc.: *See—*
- Kellogg, Charles T. 2,905,294.
- Schrade, William A., and Clemson. 2,871,647.
- Clemson, Richard D.: *See—*
- Schrade, William A., and Clemson. 2,871,647.
- Clentimack, George E., to Draper Corp. Let-off means for strand or sheet material. 2,873,839, 3-24-59, Cl. 139-110.
- Clentimack, George E., to Draper Corp. Let-off means for textile machines and the like. 2,914,092, 11-24-59, Cl. 139-108.
- Clerc, Andre, to Societe Rhodiaceta. Thread traverse. 2,869,797, 1-20-59, Cl. 242-43.
- Clerk, Ernest J. Propulsion systems for boats. 2,905,133, 9-22-59, Cl. 115-41.
- Clerke, John A. Athletic shoe cleat. 2,911,738, 11-10-59, Cl. 36-2.5.
- Clermont, Edgar J. Pump and fluid circulating system for humid treatment of masses of textile fibers. 2,881,797, 4-14-59, Cl. 137-563.
- Clermont, William T.: *See—*
- Anastasia, Harry G., and Clermont. 2,879,351.
- Cleveland Container Co., The: *See—*
- Vallas, Charles L. 2,891,714.
- Vallas, Charles L. 2,901,162.
- Walker, Willard F. 2,898,025.
- Cleveland Crane & Engineering Co., The: *See—*
- Anjeskey, Alphonse F. 2,881,271.
- Cotesworth, Harry A. 2,887,067.
- Cotesworth, Harry A. 2,887,068.
- Cotesworth, Harry A., and Dunning. 2,915,332.
- Dehn, Roy F. 2,874,816.
- Cleveland, Donald S., to General Electric Co. Mass flowmeter. 2,914,945, 12-1-59, Cl. 73-194.
- Cleveland Electric Motor Co., The: *See—*
- Sorehy, Anthony J. 2,879,417.
- Cleveland Electrical Equipment Co., Inc.: *See—*
- Braun, Ralph K. 2,883,119.
- Cleveland, Eric G., and A. D. Standley, Jr., to Delta Engineering Corp. Method and apparatus for counting and packaging articles. 2,899,784, 8-18-59, Cl. 53-61.
- Cleveland, Frank C., Jr.: *See—*
- Kerr, Ralph W., and Cleveland. 2,884,413.
- Cleveland, Hugh M.: *See—*
- Becker, Edward J., Cleveland, Pondy, and Robinson. 2,914,402.
- Biondi, Frank J., Cleveland, and Sullivan. 2,874,341.
- Cleveland Metal Specialties Co.: *See—*
- Gross, Irving A. 2,875,264.
- Japel, Joseph F. 2,912,312.
- Cleveland Patents, Inc.: *See—*
- Hickok, Robert D., Jr. 2,870,400.
- Cleveland Pneumatic Industries, Inc., The: *See—*
- Conant, David J. 2,882,742.
- Gail, William A. 2,918,890.
- Gates, James T. 2,882,781.
- Hagadone, Donald G. 2,918,339.
- Hamilton, Wallace. 2,873,964.
- Hartel, Erwin H. 2,892,625.
- Hogan, Walter H. 2,873,833.
- Hogan, Walter H. 2,883,181.
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- Iens, Karlis. 2,893,794.
- Jungles, Robert N. 2,868,536.
- Jungles, Robert N. 2,883,017.
- Cleveland Pneumatic Industries, Inc., The: *See—Continued*
- Karlin, Anthony F. 2,882,740.
- Lovell, Jack. 2,919,084.
- Mackiewicz, Edward J., and Lindow. 2,911,665.
- Martin, Francis J., and Scheffow. 2,887,091.
- Olson, Raymond G. 2,871,732.
- Prescott, David B. 2,919,127.
- Scott, Robert C., and Hogan. 2,892,626.
- Westcott, William B., Jr. 2,868,482.
- Westcott, William B., Jr. 2,916,283.
- Cleveland Rock Drill Division, Westinghouse Air Brake Co.: *See—*
- Feucht, Jacob E. 2,874,933.
- Cleveland Skate Co., Inc., The: *See—*
- Reynolds, Clarence R., Asad, and Boodey. 2,899,209.
- Cleveland Trencher Co., The: *See—*
- Hannigan, Joseph E. 2,906,324.
- Hannigan, Joseph E. 2,906,325.
- Hannigan, Joseph E. 2,906,326.
- Spring, John W. 2,908,091.
- Cleveland Trust Co., The: *See—*
- Frohlich, Adolf. 2,887,148.
- Frohlich, Adolf. 2,904,831.
- Frohlich, Adolf. 2,910,110.
- Frohlich, Adolf, and Harris. 2,904,832.
- Frohlich, Adolf, and Harris. 2,913,765.
- Frohlich, Adolf H., and Harris. 2,873,802.
- Frohlich, Adolf H., and Harris. 2,880,458.
- Frohlich, Adolf H., and Harris. 2,895,169.
- Frohlich, Adolf H., and Harris. 2,901,772.
- Frohlich, Adolf H., and Harris. 2,904,833.
- Frohlich, Adolf H., and Harris. 2,904,834.
- Frohlich, Adolf H., and Harris. 2,910,109.
- Greenough, Raymond E. 2,904,136.
- Harris, Edward J. 2,918,105.
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- Cleveland Vibrator Co., The: *See—*
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- Clevenger, Walton S., and J. H. Dell. Weight indicating device for bottled gas tanks. 2,902,271, 9-1-59, Cl. 265-47.
- Clever, Ray E.: *See—*
- Long, George B., and Clever. 2,894,105.
- Clever, William R., to Pittsburgh Plate Glass Co. Method of and apparatus for transferring sheet material. 2,900,761, 8-25-59, Cl. 49-1.
- Clevett, Merton L., Jr., to United States of America, Army. Pistol belt clip. 2,869,198, 1-20-59, Cl. 24-3.
- Clevett, Merton L., Jr. Knock-down structural member with collapsible members. 2,874,812, 2-24-59, Cl. 189-34.
- Clevett, Merton L., Jr., and F. W. Lewis. Prefabricated storage shelving. 2,894,642, 7-14-59, Cl. 211-148.
- Clevite Corp.: *See—*
- Augustine, Frank, and Schwoppe. 2,871,192.
- Cerness, Joseph F. 2,905,511.
- Charbonnet, Wilfred H. 2,914,389.
- Davies, Gail F., and Dadds. 2,892,697.
- Frankel, Burton, and Cupp. 2,887,671.
- Gravley, Charles K. 2,875,501.
- Griffin, John T. 2,915,616.
- Josephson, Robert H., and Small. 2,891,826.
- Kornei, Otto. 2,905,770.
- Kornei, Otto. 2,917,589.
- Kulesar, Frank. 2,911,370.
- Kulesar, Frank, and Cmolik. 2,906,710.
- Matfati, Oskar E. 2,877,432.
- McCutehen, Samuel P., Jr., and Eskilson. 2,888,522.
- Morey, Richard F., Jr. 2,916,704.
- Riedel, Ralph H. 2,886,479.
- Schaefer, Ralph A. 2,902,748.
- Small, Charles B. 2,886,379.
- Thurston, Edward G. 2,867,701.
- Williams, Alfred L. W., and Gravley. 2,892,107.
- Williams, Alfred L. W., and Heinrich. 2,889,796.
- Clevite Harris Products, Inc.: *See—*
- Drake, Robert T. 2,869,339.
- Cliborn, Robert: *See—*
- Angell, Pierce T., and Cliborn. 2,910,005.
- Cliborn, Robert, to Thompson Products, Inc. Mechanical-pneumatic turbine control. 2,869,565, 1-20-59, Cl. 137-58.
- Click, Lawry: *See—*
- Van Winckel, Carl E., and Click. 2,916,430.
- Clicques, Marcel P., to Etablissements Labinal. Apparatus for measuring the product of two concurrently varying quantities. 2,901,173, 8-25-59, Cl. 235-194.
- Cliff, Walter L. Fish landing net. 2,874,506, 2-24-59, Cl. 43-11.
- Clifford, Cecil F., to Horstmann Clifford Magnetics Ltd. Magnetically coupled oscillatory and rotary motions. 2,913,905, 11-24-59, Cl. 74-1.5.
- Clifford, Hugh J., and A. Schwarz, to General Motors Corp. Thermostatic power elements. 2,881,616, 4-14-59, Cl. 73-363.
- Clifford, Robert L. Earth moving equipment. 2,883,774, 4-28-59, Cl. 37-127.
- Clifford, Svea M.: *See—*
- Clifford, William. 2,899,690.
- Clifford, William, deceased; S. M. Clifford, sole legatee of said W. Clifford;  $\frac{1}{4}$  to C. C. Pajdowski. Adjustable water closet collar. 2,899,690, 8-18-59, Cl. 4-252.



- Clift, Gilbert B., Jr., to Texas Instruments Inc. Recorder with combination latching and tearing assembly. 2,913,299, 11-17-59, Cl. 346-24.
- Clift, Paul E., to Thomas Hunter Ltd. Closure of bottles, jars and like containers. 2,869,303, 1-20-59, Cl. 53-331.
- Clifton Automatic Screw Machine Products, Inc.: *See—*  
Clifton, Harry V. 2,892,259.
- Clifton, Chester C., to Acorn Co. Dolly casters. 2,895,160, 7-21-59, Cl. 16-47.
- Clifton, Chester C., to Mighty Mover Corp. Straddle trailers. 2,896,803, 7-28-59, Cl. 214-396.
- Clifton Conduit Corp.: *See—*  
Pearson, William S. 2,893,348.
- Clifton, Harry V., to Clifton Automatic Screw Machine Products, Inc. Combination protector and removing device for thread gauges. 2,892,259, 6-30-59, Cl. 33-199.
- Clifton Precision Products Co., Inc.: *See—*  
Jacobsen, Irvin S. 2,895,048.
- Clifton, Ray H. Amusement device. 2,912,789, 11-17-59, Cl. 46-6.
- Clifton, Ronald L. Automotive mechanical starter. 2,876,644, 3-10-59, Cl. 74-6.
- Clifton, Walter L., Jr., to American Art Metals Co. Door and lock assembly. 2,882,711, 4-21-59, Cl. 70-451.
- Clifton, Walter L., Jr., to American Art Metals Co. Latch and detent assembly. 2,893,773, 7-7-59, Cl. 292-223.
- Cline, Henry R. Football sighting device. 2,900,727, 8-25-59, Cl. 33-46.
- Cline, Cecil W. Detachable lazy tongs linkage. 2,878,639, 3-24-59, Cl. 59-79.
- Cline, Chalmers R. Steel grit and method for manufacturing same. 2,895,816, 7-21-59, Cl. 51-309.
- Cline, Earl E., and R. L. Freeman, to Ernest Holmes Co. Towing hitch. Re. 2,471,9, 10-13-59, Cl. 214-86.
- Cline, Edward T., to E. I. du Pont de Nemours and Co. Process for chemically bonding a coating to an organic polymer substrate. 2,875,092, 2-24-59, Cl. 117-62.
- Cline, Edwin L.: *See—*  
Sturrock, Murray G., Cline, and Robinson. 2,898,350.
- Cline, Edwin L., to Clayton Mfg. Co. Hydro-kinetic brake device. 2,870,875, 1-27-59, Cl. 188-90.
- Cline, Emmett. Shuttle car. 2,872,747, 2-10-59, Cl. 37-124.
- Cline, John E. Brake locking mechanism. 2,871,995, 2-3-59, Cl. 188-152.
- Clingman, William H., Jr., to The American Oil Co. Hydrogenation of phenols. 2,891,096, 6-16-59, Cl. 260-631.
- Clingman, William H., Jr., to The American Oil Co. Hydrogenation of phenols. 2,891,097, 6-16-59, Cl. 260-631.
- Clingman, William H., Jr., to The American Oil Co. Separation of hexane isomers. 2,909,577, 10-20-59, Cl. 260-676.
- Clini, Daniel J. Collapsible clothes line support. 2,900,088, 8-18-59, Cl. 211-178.
- Clinical Research Foundation: *See—*  
Borsook, Mannie E., and Alperin. 2,868,374.
- Clinkenbeard, William L., W. F. Rollman, and A. B. Welty, Jr., to Esso Research and Engineering Co. Recovery of alkylation acid. 2,906,610, 9-29-59, Cl. 23-295.
- Clinton Industries, Inc.: *See—*  
Cohen, Saul M. 2,914,010.
- Clinton, Raymond O., to Sterling Drug Inc. Compounds of the perhydrochrysene and related series and preparation thereof. 2,880,233, 3-31-59, Cl. 260-488.
- Clinton, Raymond O., to Sterling Drug Inc. Tertiary-aminokyl N-(pyridyl) carbamates and their preparation. 2,914,533, 11-24-59, Cl. 260-294.3.
- Clinton, Raymond O., and A. L. Beyer, to Sterling Drug Inc. 3 $\beta$ -acetoxy-17 $\beta$ -hydroxy-17 $\alpha$ -ethynyl-5-androstenes and androstanes and their preparation. 2,868,811, 1-13-59, Cl. 260-397.5.
- Clinton, Raymond O., and S. C. Laskowski, to Sterling Drug Inc. 2-diethylaminoethyl 5-amino-2-alkoxybenzoates and their preparation. 2,882,295, 4-14-59, Cl. 260-472.
- Clinton, Raymond O., and S. C. Laskowski, to Sterling Drug Inc. 2-diethylaminoethyl 3-amino-2-alkoxybenzoates and their preparation. 2,882,296, 4-14-59, Cl. 260-472.
- Clinton, William P., H. Guggenheim, T. Kraut, and R. M. Stinchfield, to General Foods Corp. Process for manufacture of soluble coffee. 2,915,403, 12-1-59, Cl. 99-71.
- Clipper Industries, Inc.: *See—*  
Andreasen, Norman H. 2,915,799.
- Clipper Mfg. Co.: *See—*  
Harclerode, John R. 2,874,687.
- Clitty, Albert E. Combination milling and grinding attachment for drill presses. 2,877,608, 3-17-59, Cl. 51-241.
- Clock, Gerald E.: *See—*  
Cipriano, Angelo L., Walters, and Clock. 2,917,407.
- Stilbert, Elmer K., Jr., Cummings, and Clock. 2,912,392.
- Stilbert, Elmer K., Jr., Cummings, and Clock. 2,912,393.
- Stilbert, Elmer K., Jr., Cummings, and Clock. 2,912,394.
- Clogston, Albert M., to Bell Telephone Laboratories, Inc. Nonreciprocal circuit element. 2,892,161, 6-23-59, Cl. 333-26.
- Cloos, Ernst, 1/2 to P. O. Tobeler, d.b.a. Trans-Oceanic. Device to separate minerals by specific weight. 2,889,044, 6-2-59, Cl. 209-211.
- Clore, Thomas H., and W. M. Carter, to The Kentucky Research Foundation. Coupling for anchoring flexible lines. 2,881,497, 4-14-59, Cl. 24-126.
- Clorox Co., The: *See—*  
Barton, Larry J. 2,918,351.
- Close, Charles D., D. J. Rossi, and J. C. Williams, Jr., to CDC Control Services, Inc. Weighing machine. 2,882,037, 4-14-59, Cl. 265-47.
- Close, Charles F., to Arlington Seating Co. Furniture. 2,910,803, 11-3-59, Cl. 45-137.2.
- Close, Garth. Apparatus for dispensing stamps. 2,871,939, 2-3-59, Cl. 164-43.
- Close, Richard N., E. W. Karpen, E. W. Sard, and W. D. White, to United States of America, Army. Multiplexed indicator for track-while-scan channels. 2,917,737, 12-15-59, Cl. 343-7.3.
- Close, Robert H., to Plastry Corp. Plastic container. 2,882,947, 4-21-59, Cl. 150-5.
- Closson, Rex D.: *See—*  
Liggett, Waldo B., Wolf, and Closson. 2,885,319.
- Closson, Rex D., W. B. Liggett, and A. J. Kolka, to Ethyl Corp. Hydroperoxidation process. 2,868,842, 1-13-59, Cl. 260-610.
- Closson, Rex D., G. G. Ecke, and L. R. Buzbee, to Ethyl Corp. Process for preparing metal carbonyls. 2,880,066, 3-31-59, Cl. 23-203.
- Closson, Rex D., G. G. Ecke, and L. R. Buzbee, to Ethyl Corp. Process for preparing metal carbonyls. 2,880,067, 3-31-59, Cl. 23-203.
- Closson, Rex D., and D. O. De Pree, to Ethyl Corp. Production of organometallic compounds. 2,918,494, 12-22-59, Cl. 260-541.
- Clostermann, Klaus, deceased (by M. Clostermann, sole heir), and H. Borchers, to Accumulatore-Fabrik Akt. Grid for accumulator plates. 2,887,523, 5-19-59, Cl. 136-65.
- Clostermann, Marianne: *See—*  
Clostermann, Klaus, and Borchers. 2,887,523.
- Clothier, Gordon W., to Allis-Chalmers Mfg. Co. Generating station transformer cooling arrangement. 2,879,408, 3-24-59, Cl. 307-83.
- Cloud, Charles E., to W. S. Cloud. Method and apparatus for vacuum packing in plastic. 2,888,787, 6-2-59, Cl. 53-22.
- Cloud, John M.: *See—*  
Cloud, Pryor G. and J. M. 2,868,501.
- Cloud, Pryor G. and J. M., to Life Time Products Corp. Portable fluid-pressure-actuated jack. 2,868,501, 1-13-59, Cl. 254-93.
- Cloud, Robert E. Bathroom installation. 2,877,467, 3-17-59, Cl. 4-148.
- Cloud, William S.: *See—*  
Cloud, Charles E. 2,888,787.
- Clough, Harold A.: *See—*  
Hollinshead, Percy C., and Clough. 2,887,778.
- Clough, Harry, to Imperial Chemical Industries Ltd. Inhibitors of oxidation of phenols. 2,872,490, 2-3-59, Cl. 260-620.
- Clough, Harry, to Imperial Chemical Industries Ltd. Stabilization of phenols by diamines. 2,886,601, 5-12-59, Cl. 260-620.
- Clough, Kendall, to KG Electronics Corp. Safety tester for electrical appliances. 2,917,705, 12-15-59, Cl. 324-51.
- Clough, Philip J.: *See—*  
Baer, Charles A., and Clough. 2,877,145.
- Baer, Charles A., Bugbee, and Clough. 2,887,419.
- Bugbee, Wallace F., and Clough. 2,906,641.
- Wolfson, William B., King, Baer, and Clough. 2,897,095.
- Clougherty, Regis J.: *See—*  
Maxey, Hillis I., Steinert, and Clougherty. 2,902,812.
- Clouse, Easton R., and R. C. Woerner, to Sinclair Refining Co. Coking in a fluidized state. 2,878,162, 3-17-59, Cl. 202-28.
- Clouthier, Henry J. Christmas tree stand. 2,904,292, 9-15-59, Cl. 248-44.
- Cloverleaf-Freeland Corp.: *See—*  
Miller, William H. 2,890,521.
- Miller, William H. 2,890,566.
- Clow, James B., & Sons, Inc.: *See—*  
Kurtz, Ralph W. 2,898,131.
- Kurtz, Ralph W. 2,901,793.
- Clover, James G.: *See—*  
Parker, James S. 2,870,576.
- Clowes, Garth A., to Shakespeare Products Co. Vacuum control and motor. 2,895,455, 7-21-59, Cl. 121-41.
- Cloyd, Harold S.: *See—*  
Dann, Morris, Lockwood, and Cloyd. 2,884,123.
- Cloyd, Harold S., and C. W. Kufner, to Nosco Plastics, Inc. Measuring spout. 2,919,055, 12-29-59, Cl. 222-365.
- Club Razor Blade Mfg. Co.: *See—*  
Holohan, Bartholomew A. 2,870,905.
- Clubbs, Bennett A.: *See—*  
Foscue, Clayton, and Clubbs. 2,882,969.
- Cluck, John M., Jr., and W. E. Miles, to Lufkin Foundry & Machine Co. Straddle trailer. 2,913,132, 11-17-59, Cl. 214-394.
- Cluett, Peabody & Co., Inc.: *See—*  
Donaldson, Harry C., Jr. 2,884,882.
- Kwok, Chi T. 2,871,486.
- Pfeffer, Edward C., Jr. 2,884,641.
- Schreiner, George A. 2,885,763.
- Cluff, Edward F., to E. I. du Pont de Nemours and Co. N-(2-hydroxyethyl)-N-pentenyl-ethylenediamine. 2,913,496, 11-17-59, Cl. 260-584.



- Cluff, Harold E., W. E. Parker, and J. C. Riple, Jr., to The Garrett Corp. Air turbine starter. 2,909,166, 10-20-59, Cl. 123-179.
- Clum Mfg. Co.: *See*—  
Pease, Harlow H. 2,874,338.
- Clurman, Stanley P., to G. W. Wholey. Inertia switches. 2,890,303, 6-9-59, Cl. 200-61.45.
- Clurman, Stanley P., to G. W. Wholey. Inertia switch with holding pole and reset. 2,898,415, 8-4-59, Cl. 200-61.45.
- Clurman, Stanley P., to G. W. Wholey. Inertia switch with time delay operation. 2,898,416, 8-4-59, Cl. 200-61.45.
- Clute, David G. Exposure meter for cathode-ray tube presentation photography. 2,899,859, 8-18-59, Cl. 88-23.
- Clutz, Charles: *See*—  
Harris, Manville S., and Clutz. 2,907,587.
- Cluwen, Johannes M.: *See*—  
Klinkhamer, Jacob F., Van Der Burgt, and Cluwen. 2,901,555.
- Van Urk, Arend T., and Cluwen. 2,869,050.
- Cluwen, Johannes M., to North American Philips Co., Inc. Modulator circuit arrangement comprising transistors. 2,870,413, 1-20-59, Cl. 332-31.
- Cluwen, Johannes M., to North American Philips Co., Inc. Limiting circuit. 2,885,575, 5-5-59, Cl. 307-88.5.
- Cluwen, Johannes M., to North American Philips Co., Inc. Rotary system driven by electrical energy. 2,890,400, 6-9-59, Cl. 318-254.
- Cluwen, Johannes M., to North American Philips Co., Inc. Magnetic circuit. 2,895,092, 7-14-59, Cl. 317-201.
- Cluwen, Johannes M., to North American Philips Co., Inc. Arrangement for stabilizing the speed of a motor. 2,898,537, 8-4-59, Cl. 318-302.
- Cluwen, Johannes M., to North American Philips Co., Inc. Frequency detector. 2,915,636, 12-1-59, Cl. 250-31.
- Clyde Iron Works, Inc.: *See*—  
Fox, Robert P. 2,888,150.
- Clymer, Joseph D., to Tokheim Corp. Swivelling junction box. 2,913,987, 11-24-59, Cl. 103-87.
- Clymer, Joseph D., and K. M. Slusher, to Tokheim Corp. Automatic circuit control device. 2,880,909, 4-7-59, Cl. 222-54.
- Clynch, Frank: *See*—  
Crawford, John M., and Clynch. 2,910,134.
- Clyneke, Poliete S. Holding devices for form boards and the like. 2,911,702, 11-10-59, Cl. 25-118.
- Clyne, Joseph, to Flexsleeve, Inc. Shorts type garment construction. 2,896,219, 7-28-59, Cl. 2-224.
- Cmolik, Clarence G.: *See*—  
Kulesar, Frank, and Cmolik. 2,906,710.
- Coach & Car Equipment Co.: *See*—  
Baker, Edward. 2,915,188.
- Coakley, Lige, to Bemis Bro. Bag Co. Seaming apparatus. 2,914,108, 11-24-59, Cl. 154-42.
- Coal Industry (Patents) Ltd.: *See*—  
Partington, Alan, and MacRae. 2,890,873.
- Valentine, Reginald, and Glover. 2,916,358.
- Coallier, Maurice. Drawing instrument. 2,893,126, 7-7-59, Cl. 33-103.
- Coalwell, Herbert E. Feed roll for woodworking machine. 2,867,253, 1-6-59, Cl. 144-246.
- Coanda, Henri, to Societe Sebac Nouvelle S.A. Carburetor. 2,907,557, 10-6-59, Cl. 261-78.
- Coash, Robert E., and A. B. Kendall, to Clark Equipment Co. Load weighing device. 2,877,906, 3-17-59, Cl. 214-2.
- Coast Metals, Inc.: *See*—  
Cape, Arthur T. 2,868,957.
- Cape, Arthur T. 2,880,086.
- Cape, Arthur T., and Foerster. 2,899,302.
- Coast Pro-Seal & Mfg. Co.: *See*—  
Mineah, Lawrence E. 2,880,455.
- Coast Wire Co.: *See*—  
Mille, Walter V. 2,907,356.
- Coate, Cecil: *See*—  
Coate, Ned C. 2,889,047.
- Coate, Ned C., to C. Coate. Septic tank. 2,889,047, 6-2-59, Cl. 210-197.
- Coates, Elmer T., to Angelica Uniform Co. Feed dog for sewing machines. 2,882,846, 4-21-59, Cl. 112-216.
- Coates, Harold: *See*—  
Redfarn, Cyril A., and Coates. 2,909,446.
- Coates, Harold, and W. H. Hunter, to The Minister of Supply, in Her Majesty's Government. Manufacture of dialkyl alkanephosphonates. 2,880,223, 3-31-59, Cl. 260-438.
- Coates, Harold, and W. H. Hunter, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Manufacture of trialkyl phosphites. 2,897,224, 7-28-59, Cl. 260-461.
- Coates, Norman: *See*—  
Gilbert, Charles E. 2,888,659.
- Coates, Peter R., and H. G. Kamrath, to Fram Corp. Oil filters. 2,888,141, 5-26-59, Cl. 210-440.
- Coates, Vincent J., and L. B. Scott, to The Perkin-Elmer Corp. Radiation comparison systems. 2,900,866, 8-25-59, Cl. 88-14.
- Coats & Clark Inc.: *See*—  
Camp, William M. 2,918,886.
- Morin, Louis H. 2,583,707.
- Morin, Louis H. 2,887,282.
- Morin, Louis H. 2,890,487.
- Morin, Louis H. 2,890,490.
- Morin, Louis H. 2,902,234.
- Morin, Louis H. 2,902,235.
- Morin, Louis H. 2,902,783.
- Morin, Louis H. 2,914,800.
- Morin, Louis H. 2,914,805.
- Sinclair, John M. 2,875,490.
- Coats, Gilbert E. Wheel supporting and clamping apparatus. 2,895,519, 7-21-59, Cl. 144-288.
- Coatsworth, Alan. Laundry device for baby diapers and the like. 2,909,053, 10-20-59, Cl. 68-233.
- Cobb, Alfred E. Resistor. 2,890,431, 6-9-59, Cl. 338-76.
- Cobb, Charles E., 20% to J. A. Rush, and 5% to G. H. Hodges and A. Brest. Plastic paving composition. 2,909,440, 10-20-59, Cl. 106-107.
- Cobb, Clifton A., to Whirlpool Corp. Ignition and control system for gas burners. 2,883,174, 4-21-59, Cl. 263-33.
- Cobb, Joseph R., Jr.: *See*—  
Davison, Joseph W., and Cobb. 2,880,592.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Cooling hot gases. 2,876,865, 3-10-59, Cl. 183-120.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Recovery of hydrogen fluoride from a hydrocarbon mixture. 2,910,521, 10-27-59, Cl. 260-683.48.
- Cobb, Joseph R., Jr., to Phillips Petroleum Co. Hydrocarbon purification process. 2,916,888, 12-15-59, Cl. 62-33.
- Cobb, Leland D., to General Motors Corp. One-way clutch. 2,870,890, 1-27-59, Cl. 192-45.1.
- Cobb, Leland D., to General Motors Corp. Demountable closure. 2,872,219, 2-3-59, Cl. 286-5.
- Cobb, Leland D., to General Motors Corp. One-way clutch. 2,886,152, 5-12-59, Cl. 192-45.1.
- Cobb, Leland D., to General Motors Corp. One-way clutch. 2,886,153, 5-12-59, Cl. 192-45.1.
- Cobb, Leland D., to General Motors Corp. Demountable closure. 2,887,330, 5-19-59, Cl. 286-5.
- Cobb, Neal L., to Paragon-Revolute Corp. Automatic dating device for print-making machines. 2,909,997, 10-27-59, Cl. 101-232.
- Cobb, Raymond L., and C. R. Scott, to Phillips Petroleum Co. Preparation of hydrogenated polymers. 2,917,495, 12-15-59, Cl. 260-85.1.
- Cobb, William G., to United States of America, Atomic Energy Commission. Neutronic reactor fuel pump. 2,888,878, 6-2-59, Cl. 103-103.
- Cobb, William R. Pipe seal assemblies. 2,881,805, 4-14-59, Cl. 138-99.
- Cobbett, Leonard C., and E. D. Winkler, to Albert & J. M. Anderson Mfg. Co. Insulated electrical connector. 2,917,722, 12-15-59, Cl. 339-59.
- Cobble, James A., Jr.: *See*—  
Cobble, James A., Sr., Cobble, Leonard, and Pardue. 2,873,705.
- Cobble, James A., Sr., J. A. Cobble, Jr., G. C. Leonard, and J. A. Pardue. Tufting machines. 2,873,705, 2-17-59, Cl. 112-79.
- Cobehn, Inc.: *See*—  
Henzel, George L. 2,904,053.
- Coberly, Clarence J., to Kobe, Inc. Free pump system with reverse flow. 2,869,470, 1-20-59, Cl. 103-46.
- Coberly, Clarence J., to Wulff Process Co. Nozzle assembly. 2,882,960, 4-21-59, Cl. 158-7.
- Coberly, Clarence J., to Kobe, Inc. Bottom hole housing for fluid operated pump. 2,910,945, 11-3-59, Cl. 103-46.
- Cobert, Arthur J., 50% to Beautiful Bryans, Inc. Yarn carrier mechanism for flat knitting machines. 2,912,840, 11-17-59, Cl. 66-127.
- Cobi, Walter H., to Pneumatic Pile Corp. Expandable mandrel for driving molds for concrete piles. 2,881,592, 4-14-59, Cl. 61-79.
- Cobi, Walter H., to Pneumatic Pile Corp. Expandable mandrel for driving molds for concrete piles. 2,881,593, 4-14-59, Cl. 61-79.
- Cobi, Walter H. Flexible fluid pressure containers. 2,903,016, 9-8-59, Cl. 138-55.
- Cobi, Walter H. Mandrel for driving pile shells. 2,911,795, 11-10-59, Cl. 61-79.
- Cobi, Walter H. Composite piles and joiners therefor. 2,912,829, 11-17-59, Cl. 61-53.
- Cobile, Demetrio M. Combined boat and fishing net. 2,874,505, 2-24-59, Cl. 43-7.
- Cobine, James D., to General Electric Co. Gas composition for cooling and insulating purposes. 2,867,679, 1-6-59, Cl. 174-17.
- Coble, Gomer L., Jr., and M. A. Garcia. Vibration absorbing apparatus. 2,911,207, 11-3-59, Cl. 267-1.
- Coburn, Robert, to Flaxall Products Ltd. Apparatus for use in treating lengths of textile fabrics. 2,895,732, 7-21-59, Cl. 271-2.2.
- Coca-Cola Co., The: *See*—  
Crist, Buckley. 2,915,278.
- Lamb, Robert L. 2,913,087.
- Snyder, George S. 2,917,180.
- Cocanour, John B. Cube ice machine. 2,891,387, 6-23-59, Cl. 62-233.
- Cocca, Ubert: *See*—  
Marinace, John C., and Cocca. 2,885,562.



- Coccano, Domenico. Gas-o-pump. 2,918,562, 12-22-59, Cl. 219-50.
- Cochin, John D. Vehicle lift structure. 2,878,897, 3-24-59, Cl. 187-8.75.
- Cochran, Charles R. Pin curl clip. 2,884,934, 5-5-59, Cl. 132-46.
- Cochran, Clarence W., to United-Carr Fastener Corp. Fastening device. 2,881,493, 4-14-59, Cl. 24-73.
- Cochran, Clarence W., to United-Carr Fastener Corp. Fastening device. 2,889,601, 6-9-59, Cl. 24-73.
- Cochran, Clarence W., to United-Carr Fastener Corp. Fastening device. 2,900,687, 8-25-59, Cl. 24-73.
- Cochran Continental Container Corp.: See—Hennies, August F., Jr. 2,886,933.
- Cochran, Elvin P. Jr., and G. A. G. Fazekas. Bearing test apparatus. 2,872,805, 2-10-59, Cl. 73-10.
- Cochran, John L., Jr., N. B. Michel, and R. A. Robinson. Automatic degaussing control system. 2,891,502, 6-23-59, Cl. 114-240.
- Cochran, John M. Railway safety devices. 2,918,236, 12-22-59, Cl. 246-477.
- Cochran, Kenneth W.: See—Gresham, William C., and Cochran. 2,886,772.
- Cochran, Lee D., to Canal Industrial Corp. Externally adjustable electron microscope focusing aid. 2,897,366, 7-28-59, Cl. 250-49.5.
- Cochran Motors: See—Shaw, Hugh H., Sanderson, and Bradshaw. 2,876,607.
- Cochrane, Charles A.: See—Mariner, Peter F., and Cochrane. 2,867,801.
- Cochrane, John D., III, J. W. Ott, H. K. Staffin and J. Stuart, to Hercules Powder Co. Slurry feeding and measuring apparatus. 2,913,149, 11-17-59, Cl. 222-229.
- Cochrane, Peter W. F.: See—Lewis, Edmund P., Skelton, and Cochrane. 2,916,361.
- Cochrane, Richard H., to The Sydney-Thomas Corp. Supply rack holder for garment bags. 2,882,666, 4-21-59, Cl. 53-256.
- Cochrane, Thomas J., Jr.: See—Chaiet, Louis, and Cochrane. 2,915,432.
- Cockburn, Stanley D., J. D. Leslie, B. D. Priestman, and L. B. Ragsdale, to General Motors Corp. Rotary gear bolt door latch. 2,871,049, 1-27-59, Cl. 292-280.
- Cockburn, Stanley D., and R. M. Fox, to General Motors Corp. Vehicle door latch. 2,904,365, 9-15-59, Cl. 292-280.
- Cocker, John, III, to Cocker Machine and Foundry Co. Roll heating and cooling means. 2,887,786, 5-26-59, Cl. 34-87.
- Cocker, John, III, to Cocker Machine and Foundry Co. Yarn winding machines. 2,887,842, 5-26-59, Cl. 57-75.
- Cocker Machine & Foundry Co.: See—Cocker, John, III. 2,887,786.
- Cocker, John, III. 2,887,842.
- Suggs, Thomas F. 2,877,082.
- Cockett, Alfred H.: See—Dunderdale, John, and Cockett. 2,916,693.
- Cocklin, Forest L. Brake control means for motor driven vehicles. 2,877,795, 3-17-59, Cl. 137-593.
- Cocks, Thomas G., to National Aluminate Corp. Process and compositions for treating geological formations. 2,867,279, 1-6-59, Cl. 166-42.
- Cockshutt Farm Equipment, Ltd.: See—Kuester, Harlan D. 2,880,811.
- Codet, Howard G.: See—Bleich, Leon, Codet, and Hemminger. 2,909,582.
- Jahng, Charles E., and Codet. 2,905,617.
- Codet, Howard G., C. E. Jahng, and A. F. Kaulakis, to Esso Research and Engineering Co. Catalytic conversion of hydrocarbons. 2,902,432, 9-1-59, Cl. 208-113.
- Codlin, James B., to Tractomotive Corp. Tractor mounted shoulder maintainer. 2,873,542, 2-17-59, Cl. 37-155.
- Codlin, James B., to Tractomotive Corp. Tractor mounted tong loader. 2,886,194, 5-12-59, Cl. 214-147.
- Codlin, James B., to Allis-Chalmers Mfg. Co. Tractor controls. 2,904,146, 9-15-59, Cl. 192-4.
- Codlin, James B., to Allis-Chalmers Mfg. Co. Hydraulic clutch actuator unit. 2,904,149, 9-15-59, Cl. 192-85.
- Codman, F. L. & J. C. Co.: See—Hall, Elisha W., and Paone. 2,907,147.
- Hall, Elisha W., 2nd, and Paone. 2,907,145.
- Hall, Elisha W. 2,908,117.
- Rock, Albin S. 2,882,139.
- Rock, Albin S. 2,885,834.
- Rock, Albin S. 2,886,924.
- Cody, Clifford S., to Westinghouse Electric Corp. Fuel supply apparatus for internal combustion engine. 2,877,839, 3-17-59, Cl. 158-36.4.
- Coe, Frank B. Game carrier. 2,893,748, 7-7-59, Cl. 280-47.3.
- Coe Mfg. Co., The: See—Parker, Clarence E. Re. 24,638.
- Coe, Merrill J., to Sutherland Paper Co. Carton. 2,898,028, 8-4-59, Cl. 229-36.
- Coe, Robert B., to The Trane Co. Thermally controlled roof ventilator damper. 2,912,920, 11-17-59, Cl. 98-119.
- Coe, Thompson J., to United States of America, Agriculture. Shrinkproofing textiles with volatile polyamines and epoxides. 2,869,971, 1-20-59, Cl. 8-116.2.
- Coe, Thompson J., to United States of America, Agriculture. Shrinkproofing textiles with polyepoxides and ammonia. 2,886,402, 5-12-59, Cl. 8-128.
- Coe, Thompson J., to United States of America, Agriculture. Shrinkproofing textiles with polyamides and volatile polyepoxides. 2,890,097, 6-9-59, Cl. 8-128.
- Coelho, George. Crab trap. 2,871,613, 2-3-59, Cl. 43-92.
- Coelho, George. Casting device. 2,873,547, 2-17-59, Cl. 43-19.
- Coenen, Ludwig M., and O. Wahl, to Agfa Aktiengesellschaft. Process of producing antihalation and filter layers. 2,904,433, 9-15-59, Cl. 96-84.
- Coes, Loring, Jr., to Norton Co. Centerless grinder. 2,867,060, 1-6-59, Cl. 51-129.
- Coes, Loring, Jr., to Norton Co. Coesite silica. 2,876,072, 3-3-59, Cl. 23-182.
- Coes, Loring, Jr., to Norton Co. Centerless grinding machine. 2,889,666, 6-9-59, Cl. 51-129.
- Coetier, Frederik, to North American Philips Co., Inc. Linkage mechanism. 2,901,656, 8-25-59, Cl. 313-148.
- Cofar, Kenneth B., to Shell Development Co. Production of glycerine. 2,873,298, 2-10-59, Cl. 260-636.
- Coffee, Charles W. Magnetic fishing tool. 2,918,323, 12-22-59, Cl. 294-65.5.
- Coffee, Ralph E., to Olin Mathieson Chemical Corp. Propellant powder. 2,916,996, 12-15-59, Cl. 102-98.
- Coffee-Mat Corp.: See—Small, Sollie W., and Herman. 2,901,002.
- Coffeen, Davis L. Supporting device. 2,908,461, 10-13-59, Cl. 248-44.
- Coffeen, William W., to Metal & Thermit Corp. Ceramic bodies. 2,868,658, 1-13-59, Cl. 106-65.
- Coffey, Charles R., to United Engine & Machine Co. Piston with top protected. 2,880,044, 3-31-59, Cl. 309-14.
- Coffey, David H., P. C. Johnson, and H. G. White, to Imperial Chemical Industries Ltd. Rubbery composition comprising a crystalline polyester and a liquid polyester reacted with a diisocyanate. 2,880,192, 3-31-59, Cl. 260-45.4.
- Coffey, David H., and D. J. Guest, to Imperial Chemical Industries Ltd. Methyl methacrylate polymer composition containing a liquid mixed polyester plasticizer. 2,898,318, 8-4-59, Cl. 260-31.6.
- Coffey, Robert G. Flashlights. 2,879,381, 3-24-59, Cl. 240-10.65.
- Coffey, Thomas: See—Catalano, Joseph J., Schletewitz, and Coffey. 2,876,835.
- Coffey, William D. Multiple door latching system. 2,887,735, 5-26-59, Cl. 20-16.
- Coffield, Thomas H.: See—Filbey, Allen H., and Coffield. 2,900,417.
- Coffield, Thomas H., to Ethyl Corp. Metallic derivatives of hindered phenols. 2,903,487, 9-8-59, Cl. 260-624.
- Coffield, Thomas H., to Ethyl Corp. Phenolic substituted propionitrile. 2,903,346, 9-8-59, Cl. 44-75.
- Coffield, Thomas H., and M. E. Griffing, to Ethyl Corp. Selective nitration process. 2,868,844, 1-13-59, Cl. 260-622.
- Coffield, Thomas H., and N. Hebert, to Ethyl Corp. Nitrogen containing organo manganese compounds. 2,902,489, 9-1-59, Cl. 260-270.
- Coffin, Harry B. Mailing piece including return envelope forming portion. 2,872,100, 2-3-59, Cl. 229-92.1.
- Coffin, Stewart T., to Research Corp. Voltage monitor circuit. 2,902,600, 9-1-59, Cl. 250-27.
- Coffinberry, Arthur S.: See—Schonfeld, Fred W., and Coffinberry. 2,902,362.
- Coffinberry, Arthur S., to United States of America, Atomic Energy Commission. Plutonium-cerium alloy. 2,867,530, 1-6-59, Cl. 75-122.7.
- Coffinberry, Arthur S., to United States of America, Atomic Energy Commission. Plutonium-cerium-copper alloys. 2,886,504, 5-12-59, Cl. 204-193.2.
- Coffinberry, Arthur S., to United States of America, Atomic Energy Commission. Plutonium-uranium-titanium alloys. 2,897,077, 7-28-59, Cl. 75-122.7.
- Coffinberry, Arthur S., to United States of America, Atomic Energy Commission. Plutonium-cerium-cobalt and plutonium-cerium-nickel alloys. 2,901,345, 8-25-59, Cl. 75-122.7.
- Coffman, Alden W., and R. B. Cullen, to H. H. Robertson Co. Wall panel. 2,876,871, 3-10-59, Cl. 189-34.
- Coffman, Alden W., and R. B. Cullen, to H. H. Robertson Co. Wall panel. 2,918,993, 12-29-59, Cl. 189-34.
- Coffman, Myron T. Loader-bar, control tube and coal loading machine. 2,897,946, 8-4-59, Cl. 198-10.
- Coffman, Paul A., Jr., and L. E. Harper, to B-I-F Industries, Inc. Beam sensitivity control. 2,886,302, 5-12-59, Cl. 265-49.
- Coffman, Paul A., Jr., and L. E. Harper, to B-I-F Industries. Gravimetric screw type feeders and weighers. 2,900,110, 8-18-59, Cl. 222-55.
- Coffman, Robert S., to Black, Sivalls & Bryson, Inc. Safety pressure relief device. 2,868,412, 1-13-59, Cl. 220-89.
- Coffman, Robert S., to Black, Sivalls & Bryson, Inc. Safety device equipped with a rupture unit. 2,875,921, 3-3-59, Cl. 220-89.
- Coffman, Robert S., to Black, Sivalls & Bryson, Inc. Safety pressure relief device support. 2,889,070, 6-2-59, Cl. 220-89.
- Coffman, Robert S., to Black, Sivalls & Bryson, Inc. Safety pressure relief device. 2,889,071, 6-2-59, Cl. 220-89.
- Coffman, Robert S., to Black, Sivalls & Bryson, Inc. Safety pressure relief device. 2,915,216, 12-1-59, Cl. 220-89.
- Cofield, Thomas R., to The Aluminum Fences, Inc. Collapsible fence arrangement. 2,919,112, 12-29-59, Cl. 256-22.



- Cofield, Thomas R., to The Aluminum Fences, Inc. Fence post with expansion joint. 2,919,113, 12-29-59, Cl. 256-65.
- Cogepa, Etablissement: *See*—  
Vieli, Otto A., and Muller. 2,874,408.
- Cogger, Howard, to Acme Ball Bearing & Mfg. Co. Bearing assembly. 2,916,335, 12-8-59, Cl. 308-187.1.
- Coggeshall, Edward O. Rotary dental brush. 2,888,697, 6-2-59, Cl. 15-179.
- Coggeshall, Norman D., to Gulf Research & Development Co. Multiple-column chromatographic apparatus. 2,868,011, 1-13-59, Cl. 73-23.
- Coggeshall, Norman D., to Gulf Research & Development Co. Continuous separation process. 2,893,955, 7-7-59, Cl. 208-310.
- Coggins, Donald I., to Sylvania Electric Products Inc. Semiconductor devices and methods. 2,900,701, 8-25-59, Cl. 29-25.3.
- Coggins, Robert W., to National Tank Co. Methods and means for the low temperature separation of high pressure well streams. 2,869,675, 1-20-59, Cl. 183-27.
- Coghill, Henry D., to General Electric Co. Method of rendering titanium dioxide films electrically conductive. 2,879,184, 3-24-59, Cl. 117-221.
- Coghill, Henry D., and L. R. Koller, to General Electric Co. Method of preparing transparent luminescent screens. 2,867,541, 1-6-59, Cl. 117-33.5.
- Cogliati, Marco. Constant delivery self-controlling device. 2,882,928, 4-21-59, Cl. 137-578.
- Cogliatti, Norman: *See*—  
Hoban, Fairfield W. 2,875,877.
- Cogniat, Marcel, M. de Fromont, and G. Serratrice, to Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Flowmeter. 2,896,452, 7-28-59, Cl. 73-204.
- Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 2,895,356, 7-21-59, Cl. 77-73.5.
- Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Micro-limit countersink drive with override. 2,905,030, 9-22-59, Cl. 77-73.5.
- Cogsdill Tool Products, Inc.: *See*—  
Cogsdill, Stuart A. 2,895,356.  
Cogsdill, Stuart A. 2,905,030.
- Cohen, Aaron, and J. M. Osbond, to Hoffmann-La Roche Inc. Preparation of di-emetine and stereoisomers, and intermediates therefor. 2,877,227, 3-10-59, Cl. 260-288.
- Cohen, Aaron, and P. G. Philpott, to Hoffmann-La Roche Inc. Octahydro-indolo-quinolizine derivatives. 2,908,686, 10-13-59, Cl. 260-294.3.
- Cohen, Albert E.: *See*—  
Gordon, Philip L., and Cohen. 2,914,495.
- Cohen, Alfred G.: *See*—  
Small, Samuel N. 2,906,278.
- Cohen, Arnold A.: *See*—  
Burrell, Warren P., Cohen, and Hardenbergh. 2,901,168.
- Cohen, Arthur M. Electromagnetic unit. 2,875,383, 2-24-59, Cl. 317-198.
- Cohen, Arthur M. Combined voltage and current regulating system. 2,882,422, 4-14-59, Cl. 307-57.
- Cohen, Arthur M. High performance speed and voltage control system for inverters and the like. 2,882,481, 4-14-59, Cl. 322-32.
- Cohen, Benjamin, Toy. 2,912,791, 11-17-59, Cl. 46-88.
- Cohen, Charles A., to Esso Research and Engineering Co. Process for the preparation of complex synthetic esters. 2,881,203, 4-7-59, Cl. 260-468.
- Cohen, Charles A., and L. A. Mikeska, to Esso Research and Engineering Co. Alkyd resins from dicyclopentadiene dicarboxylic acids and polyhydric alcohols. 2,881,144, 4-7-59, Cl. 260-22.
- Cohen, Charles L., to ACF Industries, Inc. Drive mechanism. 2,912,883, 11-17-59, Cl. 74-665.
- Cohen, Elie, and S. Roth. Magnetic variable-speed device. 2,906,900, 9-29-59, Cl. 310-101.
- Cohen, Eric S. Apparatus for the cleaning and drying of roller-type paint applicators. 2,900,993, 8-25-59, Cl. 134-135.
- Cohen, Fred: *See*—  
Allen, Richard W., and Cohen. 2,900,610.  
Ayres, Jay J., Cohen, and Brauer. 2,914,739.
- Cohen, Harry: *See*—  
Christensen, Paul M., and Cohen. 2,916,904.
- Cohen, Harry and J., to Aristocrat Leather Products, Inc. Combination billfold and purse. 2,876,819, 3-10-59, Cl. 150-35.
- Cohen, Irwin A., to General Telephone Laboratories, Inc. Electroluminescent telephone dial. 2,908,806, 10-13-59, Cl. 240-217.
- Cohen, Joseph H., to General Foods Corp. Food product. 2,915,402, 12-1-59, Cl. 99-130.
- Cohen, Julian: *See*—  
Cohen, Harry and J. 2,876,819.
- Cohen, Leon. Supports for ash trays, cups and the like. 2,919,096, 12-29-59, Cl. 248-224.
- Cohen, Maurice. Garment display rack. 2,895,621, 7-21-59, Cl. 211-163.
- Cohen, Maurice M. Motor driven eraser. 2,917,023, 12-15-59, Cl. 120-36.
- Cohen, Maurice, and J. Karson. Vehicle protective cover. 2,874,709, 2-24-59, Cl. 135-5.
- Cohen, Meyer, to A. Nathan. Stackable drinking vessels and stack thereof. 2,885,134, 5-5-59, Cl. 229-1.5.
- Cohen, Milton J., to Miljam Instrument Corp. Hypodermic syringe. 2,907,328, 10-6-59, Cl. 128-218.
- Cohen, Milton J. Hypodermic syringe. 2,907,329, 10-6-59, Cl. 128-218.
- Cohen, Morris U., to Endsdown Co., Inc. Apparatus for inserting anticurl strips into garments. 2,875,928, 3-3-59, Cl. 223-2.
- Cohen, Murray S., and C. E. Pearl, to Thiokol Chemical Corp. Method for the preparation of monobromopentaborane-9. 2,891,803, 7-14-59, Cl. 23-14.
- Cohen, Oscar P.: *See*—  
Bonznagel, Francis A., Cohen, and Markhart. 2,917,427.
- Cohen, Robert M., and R. E. Rist, to Radio Corp. of America. Semiconductor devices. 2,903,630, 9-8-59, Cl. 317-235.
- Cohen, Samuel G., to General Precision Laboratory Inc. Digital to analog converter and plotter. 2,889,189, 6-2-59, Cl. 346-35.
- Cohen, Samuel G., to General Precision Laboratory Inc. Data correlator. 2,895,783, 7-21-59, Cl. 346-23.
- Cohen, Saul M., to Clinton Industries, Inc. Automatic thread cutter and needle positioner. 2,914,010, 11-24-59, Cl. 112-252.
- Cohen, Sylvan I., and M. S. Frant, to Gallowhur Chemical Corp. Method of rendering textile materials fungicidal and the products thereby produced. 2,899,340, 8-11-59, Cl. 117-138.5.
- Cohen, Sylvan I., M. S. Frant, and F. J. Sowa; said Cohen and said Frant assors. to Gallowhur Chemical Corp. Organic mercury solutions and method of preparing the same. 2,901,392, 8-25-59, Cl. 167-30.
- Cohen, Theodore A. Device for crushing cans. 2,904,097, 9-15-59, Cl. 153-10.5.
- Cohen, Tobias. Automatic transporting-guiding device for sewing machines. 2,870,725, 1-27-59, Cl. 112-211.
- Cohen, Werner V., to E. I. du Pont de Nemours and Co. Process for preparing dibenzanthrone vat dyes. 2,888,463, 5-26-59, Cl. 260-340.3.
- Cohler, Marilyn R., and M. S. Simon, to Polaroid Corp. Photographic products and processes. 2,892,710, 6-30-59, Cl. 96-29.
- Cohn, Bernard, to Polychrome Corp. Planographic printing plate. 2,882,153, 4-14-59, Cl. 98-75.
- Cohn, Bernard, to Polychrome Corp. Planographic printing plate. 2,882,154, 4-14-59, Cl. 98-75.
- Cohn, Charles C., to S. L. and C. C. Cohn, d.b.a. Colonial Alloys Co. Apparatus for electrolytic treatment of slide fasteners. 2,911,346, 11-3-59, Cl. 204-206.
- Cohn, David, to T. Cohn, Inc. Ball-operated counting device. 2,870,279, 1-20-59, Cl. 200-61.1.1.
- Cohn, David, to Model Plastic Corp. Dolls' heads provided with sleeping eyes. 2,896,373, 7-28-59, Cl. 46-169.
- Cohn, David A., to David Bogen Co., Division of The Siegler Corp. Centralized communication system. 2,888,518, 5-26-59, Cl. 179-2.
- Cohn, Eugene: *See*—  
Cohn, Joseph and E. 2,880,114.
- Cohn, Irwin. Ball throwing apparatus. 2,869,533, 1-20-59, Cl. 124-26.
- Cohn, Irwin E., and H. Healey, to Great American Plastics Co. Calculating device for teaching arithmetic. 2,910,786, 11-3-59, Cl. 35-9.
- Cohn, James, to Sigmund Cohn Corp. Fuse member and method of making the same. 2,911,504, 11-3-59, Cl. 200-135.
- Cohn, Joseph and E., to Samcoe Holding Corp. Method of resin treating tubular knitted fabric. 2,880,114, 3-31-59, Cl. 117-47.
- Cohn, Jona: *See*—  
Richardson, Roy A., and Cohn. 2,901,601.
- Cohn, Nathan, and R. Emeritz, 50% to Camera Services, Inc., and 50% to Rite Way Sales and Mfg. Co. Inc. Stereoscopic viewer. 2,897,721, 8-4-59, Cl. 88-31.
- Cohn, Samuel L.: *See*—  
Cohn, Charles C. 2,911,346.
- Cohn, Seymour B., to Sperry Rand Corp. Travelling wave tubes. 2,891,190, 6-16-59, Cl. 315-3.5.
- Cohn, Seymour B., to Sperry Rand Corp. Microwave hybrid junction. 2,918,632, 12-22-59, Cl. 333-11.
- Cohn, Sigmund, Corp.: *See*—  
Cohn, James. 2,911,504.
- Cohn, T., Inc.: *See*—  
Cohn, David. 2,870,279.
- Coit, Robert A.: *See*—  
Talley, Samuel K., Coit, and Koot. 2,915,466.
- Coke, Allen B. Autographic registers. 2,896,970, 7-28-59, Cl. 232-16.
- Coker, Frank B., and O. W. Schoenberg, to United Geophysical Corp. Recording system. 2,902,636, 9-1-59, Cl. 324-8.
- Coker, James N., M. Fields, and A. O. Rogers, to E. I. du Pont de Nemours and Co. Process for production of hydantoins. 2,889,332, 6-2-59, Cl. 260-309.5.
- Coker, James N., M. Fields, and A. O. Rogers, to E. I. du Pont de Nemours and Co. Production of hydantoins. 2,889,333, 6-2-59, Cl. 260-309.5.
- Coker, James N., M. Fields, and A. O. Rogers, to E. I. du Pont de Nemours and Co. Synthesis of indolylmethyl-hydantoin. 2,893,997, 7-7-59, Cl. 260-309.5.
- Coker, Morton M., to Caterpillar Tractor Co. Flow control valve for hydraulic jack system. 2,910,970, 11-3-59, Cl. 121-46.5.



- Cole, Rudolph A.: *See*—  
Bader, Clifford J., and Cole. 2,876,388.
- Cole, Rudolph A., to Burroughs Corp. Beam tube multiplexing system. 2,919,347, 12-29-59, Cl. 250—27.
- Colaiaico, August P.: *See*—  
Boyer, John L., Colaiaico, and McWilliams. 2,917,686.
- Boyer, John L., McWilliams, and Colaiaico. 2,889,498.
- Colaiaice, Victor V., to Eastman Kodak Co. Universal focusing scale. 2,878,734, 3-24-59, Cl. 95—44.
- Colatrisano, Antonio, to Saville Enterprises, Inc. Safety device. 2,888,668, 5-26-59, Cl. 340—279.
- Colautti, Albert J., to General Motors Corp. Vehicle door latch. 2,888,293, 5-26-59, Cl. 292—280.
- Colautti, Albert J., to General Motors Corp. Circuit controller. 2,909,624, 10-20-59, Cl. 200—6.
- Colbeck, Eric W.: *See*—  
Middleham, Thomas H., and Colbeck. 2,916,375.
- Colbeck, Eric W., to United States of America, Atomic Energy Commission. Sheathing uranium. 2,871,558, 2-3-59, Cl. 29—528.
- Colbeck, Eric W., to United States of America, Atomic Energy Commission. Uranium alloys. 2,919,186, 12-29-59, Cl. 75—122.7.
- Colborne Mfg. Co.: *See*—  
Cale, Stanley A. 2,898,873.
- Colborne, William G., and A. Braun, to Queen's University. Synchronizing mechanism for free piston engines. 2,914,955, 12-1-59, Cl. 74—110.
- Colburn, Beal E., to Homeward Products Inc. Detachable electric motor shaft shield. 2,875,642, 3-3-59, Cl. 74—609.
- Colburn, Norman E., Jr., to Byrne Doors, Inc. Roof hatch. 2,896,558, 7-28-59, Cl. 108—16.
- Colburn, Richard R. Combined tractor and power mower. 2,869,304, 1-20-59, Cl. 56—25.4.
- Colburn, Robert T.: *See*—  
Selzer, Clarence F., Colburn, and Ebert. 2,904,160.
- Colby, Gerald W.: *See*—  
Bowers, Roy L., and Colby. 2,874,208.
- Colby, Phyllis L. Diaper pants. 2,897,819, 8-4-59, Cl. 128—284.
- Colby, Richard H., to United States of America, Army. Cartridge positioner. 2,870,561, 1-27-59, Cl. 42—18.
- Colby, Richard H., to United States of America, Army. Cam actuated round deflector. 2,889,750, 6-9-59, Cl. 89—33.
- Colby, Richard H., to United States of America, Army. Cartridge feeding mechanism. 2,899,865, 8-18-59, Cl. 89—33.
- Colby, Robert A., and H. M. Passman, to Collins Radio Corp. Information storage drum. 2,897,299, 7-28-59, Cl. 200—6.
- Colby, Roy L., Jr., to National Steel Corp. Composite structure. 2,904,142, 9-15-59, Cl. 189—36.
- Colchester Lathe Co. Ltd., The: *See*—  
Firth, Arthur J. 2,885,901.
- Colcrete Ltd.: *See*—  
Davies, Leonard T. 2,879,920.
- Coldren, Chester P., to Eaton Mfg. Co. Clamp. 2,874,430, 2-24-59, Cl. 24—27.
- Coldren, Clarke L., and D. R. Hawkinson, to Shell Development Co. Method for filling closed containers with volatile liquids. 2,912,830, Cl. 62—50.
- Cole, Benjamin R., and R. W. Cleary, to Raytheon Mfg. Co. Amplitude limiting circuits. 2,886,704, 5-12-59, Cl. 250—27.
- Cole, Benjamin R., and E. J. Sheldon, Jr., to United States of America, Navy. Automatic calibration circuit. 2,919,401, 12-29-59, Cl. 324—74.
- Cole, Bernard. Poultry nest bottom. 2,904,003, 9-15-59, Cl. 119—45.
- Cole, Burrell C., and E. P. Waite, to Small Business Administration. Top roll supporting means. 2,914,811, 12-1-59, Cl. 19—134.
- Cole, Carrel D., 50% to C. E. Creasy, and 50% to E. E. Creasy. Adjustable closing device for a burial casket. 2,874,987, 2-24-59, Cl. 292—247.
- Cole, Charles C.: *See*—  
Brown, Martin J., and Cole. 2,885,661.
- Cole, Charles E., to Bendix Aviation Corp. Three-way solenoid valve. 2,875,784, 3-3-59, Cl. 137—625.5.
- Cole, Charles T., Jr.: *See*—  
Ayres, Jay J., and Cole. 2,905,069.
- Cole, Clayton K., to Atlas Press Co. Lawnmower handle construction. 2,868,034, 1-13-59, Cl. 74—487.
- Cole, David F. Electric broiler. 2,913,976, 11-24-59, Cl. 99—327.
- Cole, David V.: *See*—  
Fischer, Edwin L., and White. 2,908,916.
- Cole, Derrill J. Machine tool vise. 2,889,757, 6-9-59, Cl. 90—60.
- Cole, Donald W., to General Dynamics Corp. Method for manufacturing composite sandwich panels. 2,909,644, 10-20-59, Cl. 219—117.
- Cole, E. K., Ltd.: *See*—  
Coppin, Kenneth J. 2,884,577.
- Davis, Robert G. 2,913,614.
- Robinson, Arthur G. H. 2,884,630.
- Cole, Edward L., to Texaco Inc. Mild hydrogenation process for lubricating oils. 2,904,505, 9-15-59, Cl. 201—264.
- Cole, Edward L., W. E. Skelton, and R. K. Meyers, to The Texas Co. Method for producing a lubricating oil. 2,879,223, 3-24-59, Cl. 208—97.
- Cole, Edward N.: *See*—  
Arnold, Charles F., and Cole. 2,870,362.
- Cole, Everett L. Container for collecting, storing and dispensing biological fluids. 2,895,475, 7-21-59, Cl. 128—272.
- Cole, Frank E., to United Shoe Machinery Corp. Automatic jack supporting and actuating mechanism. 2,870,466, 1-27-59, Cl. 12—17.2.
- Cole, Frank E., to United Shoe Machinery Corp. Shoe machines. 2,906,216, 9-29-59, Cl. 112—35.
- Cole, Gerald E., to Kleen-Stick Products, Inc. Label dispenser. 2,912,140, 11-10-59, Cl. 221—70.
- Cole, Herbert: *See*—  
Britcher, Charles W. 2,869,482.
- Cole, Herbert W.: *See*—  
Wing, Arthur K., Jr., and Cole. 2,899,593.
- Cole, Howard W., Jr. Mercury slip ring for electrical apparatus. 2,890,304, 6-9-59, Cl. 200—80.
- Cole, Howard W., Jr. High pressure hose. 2,898,940, 8-11-59, Cl. 138—50.
- Cole, Howard W., Jr., and D. L. Olson. Two-way automatic locking actuators. 2,870,887, 1-27-59, Cl. 192—8.
- Cole, James D., F. Duckwitz, and A. L. Sebok, to American Machine and Metals, Inc. Vacuum cleaner motor-fan unit. 2,888,192, 5-26-59, Cl. 230—117.
- Cole, John M., and F. B. Henry, to J. I. Case Co. Adjustable fenders and step plates for tractor. 2,918,307, 12-22-59, Cl. 280—152.
- Cole, John N.: *See*—  
Von Gierke, Henning E., and Cole. 2,912,958.
- Cole, John W.: *See*—  
Julian, Percy L., Cole, and Diemer. 2,876,237.
- Julian, Percy L., Cole, Meyer, and Karpel. 2,887,478.
- Cole, Joseph W., and J. E. Guthrie. Roll shaft. 2,876,961, 3-10-59, Cl. 242—72.
- Cole, Judson C., and J. R. Hall, to Bendix Aviation Corp. Shielded electric connector. 2,876,274, 3-3-59, Cl. 174—77.
- Cole, Leland G.: *See*—  
Hall, Lawrence G., and Cole. 2,891,630.
- Cole, Lyndon C., to The Osborn Mfg. Co. Power brushing machine. 2,909,015, 10-20-59, Cl. 51—215.
- Cole Mfg. Co.: *See*—  
Ennis, James W. 2,917,089.
- Stillwell, Donald B. 2,902,954.
- Cole, Paul M., to E. I. du Pont de Nemours and Co. Treating apparatus and process. 2,869,976, 1-20-59, Cl. 8—151.
- Cole, Paul M., to E. I. du Pont de Nemours and Co. Pile fabric. 2,903,708, 9-15-59, Cl. 2—278.
- Cole, Quinton P., to General Electric Co. Process of preparing a cured blend of form-stable, cross-linked polyethylene and polybutadiene and compositions thereof. 2,912,410, 11-10-59, Cl. 260—45.5.
- Cole, Raben H.: *See*—  
Matthews, Clell R., and Cole. 2,869,896.
- Cole, Rex, Inc.: *See*—  
Cole, Rex, and Harshbarger. 2,902,592.
- Cole, Rex, and W. J. Harshbarger; said Harshbarger assignor to Rex Cole, Inc. Portable lamp. 2,902,592, 9-1-59, Cl. 240—81.
- Cole, Richard F.: *See*—  
Sisson, Edmond F., Cole, and Krumbein. 2,894,880.
- Cole, Robert D., to The Glidden Co. Hydrogenated lecithin and process for preparing same. 2,907,777, 10-6-59, Cl. 260—403.
- Cole, Robert M., to Shell Development Co. Safety vessel. 2,881,057, 4-7-59, Cl. 23—283.
- Cole, Samuel F. Hair curlers. 2,870,772, 1-27-59, Cl. 132—41.
- Cole, Thomas M., to Federal Pacific Electric Co. Circuit breakers with thermal and magnetic tripping. 2,897,314, 7-28-59, Cl. 200—88.
- Cole, Thomas M., to Federal Pacific Electric Co. Front operated enclosed switching apparatus. 2,907,840, 10-6-59, Cl. 200—50.
- Cole, William C., to General Motors Corp. Spark plug and method for making same. 2,902,617, 9-1-59, Cl. 313—144.
- Colee, Donald D., to Preco Inc. Gyroscopic control mechanism for grading apparatus. 2,904,911, 9-22-59, Cl. 37—156.
- Coleman, Beatrice, R. Pioli, and E. Silvani, to Maiden Form Brassiere Co., Inc. Brassieres. 2,888,930, 6-2-59, Cl. 128—429.
- Coleman, Bestor P.: *See*—  
Wilson, Allen B., and Coleman. 2,880,589.
- Coleman, Cephas C. Holder for glass cutter. 2,892,291, 6-30-59, Cl. 49—52.
- Coleman, Clarence L.: *See*—  
Jackson, John M., Zurbuchen, Flint, Coleman, and Werner. 2,911,741.
- Coleman Co., Inc., The: *See*—  
Campbell, Shirley P. 2,910,224.
- Herrick, Wallace, and Winters. 2,889,089.
- Kice, Jack W. 2,887,733.
- Kice, Jack W., and Mattingly. 2,875,593.
- Lyon, Luther L., Jr., and Qualley. 2,917,778.
- Newton, Alwin B. 2,874,345.
- Watkins, Norman B. 2,900,714.
- Coleman, Denis, to Imperial Chemical Industries Ltd. Polyoxamides. 2,880,197, 3-31-59, Cl. 260—78.
- Coleman, Edward, to J. A. Crabtree & Co. Ltd. Electric circuit breakers. 2,911,496, 11-3-59, Cl. 200—94.



- Coleman, Edwin D. Method and apparatus for determining rate of evolution of a gas. 2,916,033, 12-8-59, Cl. 128-2.07.
- Coleman, Elmer W., Jr., and D. M. Alstadt, to Lord Mfg. Co. Bonding rubber to metal. 2,900,292, 8-18-59, Cl. 154-130.
- Coleman, Elmer W., Jr., and D. M. Alstadt, to Lord Mfg. Co. Method of bonding polyurethanes to rubber. 2,905,582, 9-22-59, Cl. 154-139.
- Coleman, Eugene F., to Mergenthaler Linotype Co. Photo-composing machine. 2,900,884, 8-25-59, Cl. 95-4.5.
- Coleman, Eugene W., and L. H. Krohn, to United States of America, Army. Portable thulium X-ray unit with separable universal mounting means. 2,891,167, 6-16-59, Cl. 250-105.
- Coleman, Gordon A., to Allied Chemical Corp. Manufacture of fertilizers. 2,879,152, 3-24-59, Cl. 71-37.
- Coleman, Ivan V., and J. W. Taugner, to General Telephone Laboratories, Inc. Automatic toll ticketing telephone system. 2,897,273, 7-28-59, Cl. 179-7.1.
- Coleman, James E. Battery cable connector. 2,878,460, 3-17-59, Cl. 339-239.
- Coleman, Joseph J., to Servel, Inc. Daytime off solar cell flasher circuit. 2,901,669, 8-25-59, Cl. 315-158.
- Coleman, Leslie, to Ken Nolan, Inc. Uniform nameplate. 2,902,782, 9-8-59, Cl. 40-1.5.
- Coleman, Marvin W. Wall jack. 2,907,477, 10-6-59, Cl. 214-1.
- Coleman, Ralph G., to United States Steel Corp. Tool holder attachment for pipe processing machines. 2,889,721, 6-9-59, Cl. 77-3.
- Coleman, Richard L.: *See—*  
Kulhavy, George W., and Coleman. 2,869,356.
- Coleman, Robert B., Jr.: *See—*  
Rikard, Mack A., Bartlett, and Coleman. 2,894,820.
- Coleman, Robert H., and E. R. Toth, Jr., to National Distillers and Chemical Corp. Filter apparatus. 2,913,118, 11-17-59, Cl. 210-315.
- Coleman, Sidney B., to American Telephone and Telegraph Co. Wave translating system. 2,891,117, 6-16-59, Cl. 179-171.
- Coleman, William L.: *See—*  
Manning, Joseph P., and Coleman. 2,887,132.
- Coler, Myron A. Thermoplastic resin particles coated with conductive gel composition and method of making same. 2,879,234, 3-24-59, Cl. 260-4.
- Coler, Myron A. Method of making destaticized synthetic resin. 2,879,244, 3-24-59, Cl. 260-32.6.
- Coler, Myron A., and A. S. Louis. Non-electrostatic molding compositions containing hydroxylalkylated alkylene diamines. 2,891,027, 6-16-59, Cl. 260-32.6.
- Coler, Myron A., and A. S. Louis. Polymers of vinylidene monomers, destaticized with N,N,N',N' tetrakis (2-hydroxypropyl) ethylene diamine. 2,891,028, 6-16-59, Cl. 260-32.6.
- Coler, Myron A., and A. S. Louis. Polymers of vinylidene monomers destaticized with partially hydroxylalkylated alkylene diamines. 2,891,029, 6-16-59, Cl. 260-32.6.
- Coler, Myron A., and A. S. Louis. Non-electrostatic resin molding composition containing hydroxylalkylated polyethylene polyamine. 2,891,030, 6-16-59, Cl. 260-32.6.
- Coler, Myron A., and A. S. Louis. Polymers of vinylidene monomers, destaticized with dihydroxyethyl ethylene diamine. 2,891,031, 6-16-59, Cl. 260-32.6.
- Coler, Myron A., and A. S. Louis. Polymers of vinylidene monomers destaticized with monohydroxyethyl trihydroxypropyl ethylene diamine. 2,891,032, 6-16-59, Cl. 260-32.6.
- Coleram Metal Products Co.: *See—*  
Robinson, Harry F. 2,912,119.
- Coles, Derek H. Printing plates for use in offset printing. 2,910,358, 10-27-59, Cl. 96-33.
- Coles, James S., and R. M. Brown, to United States of America, Navy. Optical device for integrating functions. 2,879,937, 3-31-59, Cl. 235-61.6.
- Coles, Joseph F.: *See—*  
Hazard, Charles S., and Coles. 2,904,251.
- Coles, Ralph V., F. L. Maltby, and J. W. Philippi, to Robertshaw-Fulton Controls Co. Capacity level control with adjustable span control. 2,871,874, 2-3-59, Cl. 137-392.
- Coles, Robert F.: *See—*  
Schmidt, Willy A., and Coles. 2,886,436.
- Coles, Robert F., and V. Tulagin, to General Aniline & Film Corp. Azine cyan color formers. 2,871,120, 1-27-59, Cl. 96-55.
- Colestock, Harry E.: *See—*  
Shipman, Roy W., and Colestock. 2,874,334.
- Colette, Michael, to W. G. Mason and A. L. May. Electric switch. 2,868,918, 1-13-59, Cl. 200-84.
- Coley, Henry E.: *See—*  
Grey, Hugh M., Jr., and Coley. 2,905,942.
- Coley, John R., and L. Heard, to Standard Oil Co. Preparation of platinum catalysts. 2,911,375, 11-3-59, Cl. 252-466.
- Coley, John R., and R. J. Hengstebeck, to Standard Oil Co. Platinum catalyst regeneration and rejuvenation system. 2,892,770, 6-30-59, Cl. 208-140.
- Coley, Nelson B., to General Railway Signal Co. Switch control check for railway signaling code communication systems. 2,903,573, 9-8-59, Cl. 246-3.
- Coley, Nelson B., to General Railway Signal Co. Code communication system. 2,907,981, 10-6-59, Cl. 340-163.
- Coley, Nelson B., to General Railway Signal Co. Automatic switching system for classification yards. 2,915,622, 12-1-59, Cl. 246-134.
- Coley, Nelson B., T. J. Judge, and R. F. Albrighton, to General Railway Signal Co. Code communication systems. 2,868,962, 1-13-59, Cl. 246-5.
- Colgan, William G. Oil catcher and discharger for a vehicle. 2,899,019, 8-11-59, Cl. 184-106.
- Colgate-Palmolive Co.: *See—*  
Allen, John M., and Scott. 2,879,231.  
Baldinus, Joseph G. 2,910,491.  
Cahill, Joseph J., Jr. 2,913,501.  
Carpenter, Clifford L., and Silvius. 2,879,839.  
Crook, Lester O., and Kincaid. 2,916,792.  
Dalton, Philip B. 2,875,153.  
Dalton, Philip B. 2,892,795.  
Epstein, Morton B. 2,881,193.  
Fine, Norman. 2,908,650.  
Fischer, Charles F. 2,891,611.  
Golub, Lillian L., and Sylvester. 2,912,385.  
Gray, Frederick W. 2,868,812.  
Grifo, Richard A. 2,908,651.  
Henkin, Hyman. 2,871,193.  
Jungermann, Eric. 2,909,535.  
Kronenthal, Richard L. 2,867,569.  
Manahan, Roderick D. 2,876,167.  
Miles, Gilbert D. 2,875,155.  
O'Sullivan, Patrick J. 2,900,655.  
Pickin, John H. 2,869,837.  
Schaafsma, Bernard R., and Ratsep. 2,874,123.  
Schmolka, Irving R. 2,894,009.  
Schurman, Jack V. 2,877,246.  
Slater, Joseph N. 2,900,306.  
Thomas, Ralph H. 2,867,356.  
Thomas, Ralph H. 2,889,078.  
Vitale, Peter T. 2,867,585.  
Weber, Francis J. C. 2,898,264.  
Wei, Ling. 2,900,307.
- Colgate, Stirling A. Electrical generator and driving engine unitary therewith. 2,904,701, 9-15-59, Cl. 290-1.
- Colgate, William H., Jr., to The Gillette Co. Pilfer-proof merchandise display cards. 2,913,106, 11-17-59, Cl. 206-79.
- Colichman, Eugene L., to United States of America, Atomic Energy Commission. Inhibiting the polymerization of nuclear coolants. 2,909,486, 10-20-59, Cl. 252-74.
- Colichman, Eugene L., to United States of America, Atomic Energy Commission. Nuclear reactor coolant. 2,909,487, 10-20-59, Cl. 252-74.
- Colichman, Eugene L., to United States of America, Atomic Energy Commission. Nuclear reactor coolant. 2,909,488, 10-20-59, Cl. 252-74.
- Colin Byford Ltd.: *See—*  
Clement, David M. 2,911,983.
- Colin, Jules, to Societe Anonyme des Chaux et Ciments de La Farge et du Teil. Pressure screening. 2,880,870, 4-7-59, Cl. 209-269.
- Colin, Louis. Traction increasing device for vehicle wheels. 2,899,241, 8-11-59, Cl. 301-47.
- Colistra, Walter P., to Sperry Rand Corp. Quick setting means for gyro magnetic compass. 2,898,690, 8-11-59, Cl. 33-222.
- Colker, James, and M. J. Draganjac, to Westinghouse Air Brake Co. Phase and amplitude measuring systems. 2,911,592, 11-3-59, Cl. 324-83.
- Collard, John, to Electric & Musical Industries Ltd. High frequency apparatus. 2,912,619, 11-10-59, Cl. 315-39.
- Collardeau, Georges, and C. Tourniaire, to Societe des Usines Chimiques Rhone-Poulenc. Multilayer materials including layers of multicellular synthetic polymer. 2,908,602, 10-13-59, Cl. 154-128.
- Collett, Endsley H. Spud wrench. 2,895,361, 7-21-59, Cl. 81-72.
- Collette, Floyd E. Traveling rack. 2,880,878, 4-7-59, Cl. 211-1.5.
- Colley, Rowan H., to Rolls-Royce Ltd. Fuel supply system for gas-turbine reheat combustion equipment. 2,867,082, 1-6-59, Cl. 60-35.6.
- Colley, Rowan H., to Rolls-Royce Ltd. Multi piston ram device. 2,893,209, 7-7-59, Cl. 60-97.
- Colley, Rowan H., K. A. Basford, D. Moore, and M. N. Pearce, to Rolls-Royce Ltd. Reheat fuel-system for gas-turbine engine. 2,916,876, 12-15-59, Cl. 60-39.28.
- Collier Carbon and Chemical Corp.: *See—*  
Christian, Curtis G. 2,884,318.  
McKinnis, Art C. 2,886,602.  
Scott, Carleton B. 2,867,561.  
Scott, Carleton B. 2,868,687.  
Scott, Carleton B. 2,897,110.  
Scott, Carleton B. 2,909,555.  
Scott, Carleton B., Webb, and Yale. 2,917,429.  
Webb, Irving D., Scott, and Yale. 2,882,197.  
Webb, Irving D., and Yale. 2,877,153.  
Webb, Irving D., and Yale. 2,910,401.  
Young, Donald C. 2,874,105.
- Collier, Charles W. Silo unloader. 2,901,131, 8-25-59, Cl. 214-17.
- Collier, Donald W., to McGraw-Edison Co. Sheet record machine. 2,906,586, 9-29-59, Cl. 346-138.



- Collier, John W., Co., Inc.: *See*—  
Sabula, George. 2,881,653.
- Collier, Robert T.: *See*—  
Keller, Philip B. 2,869,332.
- Collier, Rufus A.: *See*—  
Chaney, Preston E., and Collier. 2,879,604.
- Collier, William H.: *See*—  
Rotzler, Ross W., Hickman, and Collier. 2,868,327.
- Collin, Herbert S. Shield for clothes hangers. 2,873,899, 2-17-59, Cl. 223-98.
- Collina, Giustino, to Contraves Italiana, S.p.A. Stick actuated inductive controller element. 2,903,663, 9-8-59, Cl. 336-134.
- Collings, David A. Magnetic handler for cylindrical articles of magnetic material. 2,913,276, 11-17-59, Cl. 294-65.5.
- Collins & Aikman Corp.: *See*—  
Grajeck, Edwin J. 2,910,724.  
Keen, William R., and Grajeck. 2,908,013.  
White, William L. 2,875,504.
- Collins, Arthur A., to Collins Radio Co. Parasitic oscillation suppressor. 2,888,524, 5-26-59, Cl. 179-171.
- Collins, Arthur L. Centrifugal pumps. 2,918,017, 12-22-59, Cl. 103-103.
- Collins, Arthur S., to Godfrey L. Cabot, Inc. Recovery of acids from petroleum sludges. 2,903,340, 9-8-59, Cl. 23-177.
- Collins, Clifford B., to General Electric Co. Silicon current controlling devices. 2,871,330, 1-27-59, Cl. 201-63.
- Collins, Donald G., to Lear, Inc. Switch actuator. 2,898,423, 8-4-59, Cl. 200-109.
- Collins, Douglas. Stall and reverse circuit for windshield wiper. 2,875,464, 3-3-59, Cl. 15-253.
- Collins, George M.: *See*—  
Judson, Charles A., and Collins. 2,905,326.
- Collins, Harold B. Dispensing container for fishing leaders. 2,875,963, 3-3-59, Cl. 242-135.
- Collins, Harold B. Drive means for calking gun plungers. 2,889,085, 6-2-59, Cl. 222-391.
- Collins, Henry W.: *See*—  
Crane, Amos W., and Collins. 2,916,777.  
Volberg, Frank M., and Collins. 2,891,946.
- Collins, Howard W. to Westinghouse Electric Corp. Power supply. 2,875,351, 2-24-59, Cl. 307-88.
- Collins, Irene: *See*—  
Snyder, James E., Ferner, and Collins. 2,888,350.
- Collins, Jack B.: *See*—  
Thurlby, Leslie T., and Collins. 2,909,668.
- Collins, John E., to International Basic Economy Corp. Valve. 2,892,608, 6-30-59, Cl. 251-61.
- Collins, John E., to International Basic Economy Corp. Packing means for plunger valves. 2,892,644, 6-30-59, Cl. 286-26.
- Collins, John E., to International Basic Economy Corp. Solenoid operated pressure balanced flow valve. 2,893,428, 7-7-59, Cl. 137-620.
- Collins, John E., to International Basic Economy Corp. Pilot actuated fluid control valve. 2,898,936, 8-11-59, Cl. 137-620.
- Collins, John F.: *See*—  
Kurziński, Edward F., Collins, Barnes, and Dahm. 2,889,222.
- Collins, John F., to Esso Research and Engineering Co. Manufacture of organic calcium sulfonates. 2,902,448, 9-1-59, Cl. 252-33.
- Collins, John F., and R. V. Sheehan, to Esso Research and Engineering Co. Mineral white oil treatment. 2,900,333, 8-18-59, Cl. 208-274.
- Collins, John J., to American Telephone and Telegraph Co. Four-party station identification circuit. 2,901,544, 8-25-59, Cl. 179-17.
- Collins, Kenneth J.: *See*—  
King, Albert, and Collins. 2,914,430.
- Collins, Leonard M., to Pressure Dispensers, Inc. Self-closing valve construction for a pressurized container. 2,869,764, 1-20-59, Cl. 222-394.
- Collins, Leonard M., to Pressure Dispensers, Inc. Dispensing valve with stem sealing means. 2,889,086, 6-2-59, Cl. 222-394.
- Collins, Leonard M., to Pressure Dispensers, Inc. Dispensing valve. 2,901,153, 8-25-59, Cl. 222-525.
- Collins, Leonard M., to Pressure Dispensers, Inc. Liquid measuring device. 2,919,056, 12-29-59, Cl. 222-477.
- Collins, Lowell J. Food strainer. 2,894,633, 7-14-59, Cl. 210-341.
- Collins, Lowell J. Elevators. 2,899,091, 8-11-59, Cl. 214-313.
- Collins, Lowell J. Pumps. 2,903,971, 9-15-59, Cl. 103-137.
- Collins, O. Z. Pallet arbor inserting tool. 2,874,455, 2-24-59, Cl. 29-231.
- Collins, Per H., K. E. Efring, and J. H. Jonsson, to Stora Kopparbergs Bergslags Aktiebolag. Method in manufacturing chemical or semi-chemical pulp from heavily resinous wood. 2,885,317, 5-5-59, Cl. 162-37.
- Collins Radio Co.: *See*—  
Anderson, William G., and Willis. 2,875,965.  
Armstrong, William J., Morrison, and Myhre. 2,905,011.  
Babcock, Dean F. 2,870,431.  
Bann, Michael S., and Lewis. 2,897,439.  
Barry, George H. 2,875,952.  
Barry, George H. 2,905,837.  
Barry, George H. 2,914,674.  
Barry, George H. 2,915,633.  
Bercovitz, Nathaniel, Jr. 2,918,634.  
Bolie, Victor W. 2,888,671.  
Bolie, Victor W. 2,893,138.  
Bolie, Victor W. 2,894,133.  
Bolie, Victor W. 2,901,700.  
Bolie, Victor W. 2,905,935.  
Broadhead, Samuel L., Jr. 2,888,561.  
Broadhead, Samuel L., Jr. 2,901,729.  
Carney, Charles S. 2,905,888.  
Carter, Robert C. 2,888,633.  
Cattoi, Robert L., and Lehman. 2,918,638.  
Colby, Robert A., and Passman. 2,897,299.  
Collins, Arthur A. 2,888,524.  
Dawkins, John E. 2,909,940.  
De Long, Vincent R. 2,886,752.  
Doelz, Melvin L. 2,888,650.  
Doelz, Melvin L., and Babcock. 2,905,812.  
Elliott, William S. 2,901,706.  
Essler, Warren O. 2,870,346.  
Essler, Warren O. 2,914,684.  
Follensbee, Wesley M., and Schoenike. 2,888,527.  
Glynn, Leon A. 2,880,313.  
Glynn, Leon A. 2,910,661.  
Goetz, John L. 2,918,615.  
Hern, Howard D. 2,870,412.  
Hulzschuh, Donald L., Kurka, Phillips, and Streeter. 2,905,908.  
Jacobson, Herbert P., and Williams. 2,886,707.  
Jones, Paul R. 2,901,208.  
Justice, Harold D. 2,875,695.  
Kalous, Leo R. 2,909,933.  
Kuykendall, Leland S. 2,905,021.  
Kuykendall, Leland S. 2,910,556.  
Lasho, Clarence E., Jr. 2,876,423.  
Lehman, Harry W. 2,900,846.  
Lehman, Harry W. 2,914,254.  
Lehman, Harry W., and Meyer. 2,886,758.  
Lewis, Herbert O. 2,896,446.  
Lewis, Herbert O. 2,897,454.  
Lippisch, Alexander M. 2,879,957.  
Lippisch, Alexander M. 2,905,091.  
Lippisch, Alexander M. 2,918,229-33.  
Ludvigson, Merrill T. 2,910,655.  
Miller, La Verne E. 2,897,464.  
Morris, Glen B. 2,905,023.  
Nichols, Donald E. 2,875,622.  
Nichols, Donald E., and Swanson. 2,918,157.  
Nicholson, Gordon E. 2,901,067.  
Nordstrom, Gordon J., and Smith. 2,901,604.  
Passman, Harry M. 2,879,673.  
Passman, Harry M. 2,893,704.  
Patton, Henry W. 2,905,818.  
Patton, Henry W. 2,910,643.  
Perkins, William C., Sherwood, and Jacobson. 2,886,708.  
Porter, Kenneth W., Jr., and Stillwell. 2,918,575.  
Rector, Jack D. 2,880,329.  
Ringoen, Richard M. 2,888,646.  
Schulte, Frederick E. 2,879,671.  
Schulte, Frederick E. 2,893,257.  
Sharma, Roshan L. 2,887,877.  
Sherwood, John R. 2,901,614.  
Stern, Everett L. 2,870,326.  
Stillwell, Harry F. 2,894,127.  
Stover, Harris A. 2,888,555.  
Stover, Harris A. 2,888,624.  
Tollefson, Robert D. 2,880,400.  
Whittington, William E. 2,869,498.  
Williams, Winston F. 2,896,476.  
Willis, Theodore R. 2,876,353.  
Yasumura, John. 2,870,321.
- Collins, Ralph B., Jr., to Microwave Associates, Inc. Radiationproof package for crystal diodes. 2,899,050, 8-11-59, Cl. 206-65.
- Collins, Rawlings H. Parking structure for automotive vehicles. 2,872,991, 2-10-59, Cl. 180-1.
- Collins, Richard V., to United States of America, Army. Flash suppressor. 2,870,679, 1-27-59, Cl. 89-14.
- Collins, Robert R., to Socony Mobil Oil Co., Inc. Moving bed flow control valve. 2,897,936, 8-4-59, Cl. 193-32.
- Collins, Ronald B., and S. F. W. Welford, to Ilford Ltd. Production of photographic material. 2,912,343, 11-10-59, Cl. 117-34.
- Collins, Roy T., A. R. Dey, and J. L. Winston, to General Motors Corp. Material handling means. 2,903,217, 9-8-59, Cl. 248-120.
- Collins, Samuel C.: *See*—  
Hughes, Robert W., and Collins. 2,902,833.
- Collins, Solomon M., to Kinkead Industries Inc. Folding shower door. 2,897,514, 8-4-59, Cl. 4-154.
- Collins, Solomon M., to Kinkead Industries Inc. Folding shower door. 2,897,515, 8-4-59, Cl. 4-154.
- Collins, Tappan, M. C. Seim, and V. A. Brayman, to National Steel Corp. Grain ventilating tunnel. 2,907,036, 9-29-59, Cl. 98-56.



- Collins, William A., to Rudy Mfg. Co. Refrigeration evaporator with clinch-type plates. 2,869,337, 1-20-59, Cl. 62-516.
- Collins, William E.: *See*—  
Nail, Hans A. 2,904,492.
- Collins, William F. Check printing and punching machine. 2,874,632, 2-24-59, Cl. 101-19.
- Collins, Winifred C., to Johnson & Johnson. Adhesive tape with low adhesion backsize coating. 2,913,353, 11-17-59, Cl. 117-68.5.
- Collins, Zane L., M. E. Hayes, and K. A. Kiesel, to Westinghouse Electric Corp. X-ray apparatus. 2,913,582, 11-17-59, Cl. 250-103.
- Collinson, Eric S.: *See*—  
Clarke, John S., and Collinson. 2,867,982.
- Collion, Raymond J., and P. A. Favrin. Hydraulic transformer. 2,876,704, 3-10-59, Cl. 103-49.
- Collis, Alec P. O.: *See*—  
Esterson, Maurice, and Collis. 2,877,380.
- Collis, Ralph W. Clamping assembly. 2,913,965, 11-24-59, Cl. 90-59.
- Collison, William F.: *See*—  
Steele, Floyd G., and Collison. 2,900,134.
- Collman, John S., W. A. Turunen, and P. T. Vickers, to General Motors Corp. Regenerative heat exchanger. 2,890,024, 6-9-59, Cl. 257-6.
- Collom, Cletus J., to Weltronic Co. Electronic control system. 2,878,364, 3-17-59, Cl. 219-114.
- Collopy Electro-Soil Co.: *See*—  
Collopy, Joseph P. 2,873,343.
- Collopy, Joseph P., to Collopy Electro-Soil Co. Electromagnetic heater. 2,873,343, 2-10-59, Cl. 219-6.5.
- Collotta, Albert J., to Ark-Les Switch Corp. Electrical switch. 2,894,082, 7-7-59, Cl. 200-44.
- Collura, Peter C., to Container Corp. of America. Handle carton. 2,874,870, 2-24-59, Cl. 220-112.
- Collura, Peter C., to Container Corp. of America. Band type can carrier. 2,899,104, 8-11-59, Cl. 220-115.
- Colman, Edward, to Du-More Fixture Co., Inc. Check stand. 2,871,984, 2-3-59, Cl. 186-1.
- Colman, Harry, and R. L. Fowler. Combined fluid pump and indicator. 2,910,940, 11-3-59, Cl. 103-1.
- Colman, Myron H.: *See*—  
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- Colmer, Henry G., Jr., and F. M. Snow. Winch. 2,873,948, 2-17-59, Cl. 254-187.
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- Colombo, George, to Hoda Corp. Snap action devices. 2,907,850, 10-6-59, Cl. 200-122.
- Colombo, Roberto, to S.A.S. Lavorazione Materie Plastiche (L.M.P.) di M.I. Colombo & C. Method and device for extruding tubes of thermoplastic materials. 2,902,716, 9-8-59, Cl. 18-14.
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- Colombo, Winifred M.: *See*—  
Dootson, Norman L. 2,897,526.
- Colonial Aircraft Corp.: *See*—  
Stetson, Gerald E. 2,899,678.
- Colonial Alloys Co.: *See*—  
Cohn, Charles C. 2,911,346.
- Colonial Broach Co.: *See*—  
Weite, Benedict. 2,880,652.
- Colonial Press, Inc.: *See*—  
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- Colonial Process Supply Co.: *See*—  
Levin, Herbert S. 2,903,967.
- Colonna, Angelo. Self-closing anti-knock flushing valve. 2,883,142, 4-21-59, Cl. 251-51.
- Colony Foods Products, Inc.: *See*—  
Eaton, Lawrence V., and Kane. 2,893,294.
- Color Carousel Corp.: *See*—  
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- Colorado Dry Concentrator Co.: *See*—  
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- Colot, Hyacinthe, A. De Ridder, and A. Herinckx, to Molins Machine Co., Ltd. Magnetic separating means for cigarette-making machinery. 2,891,670, 6-23-59, Cl. 209-217.
- Colourpicture Publishers, Inc.: *See*—  
Crone, Alton H. 2,886,184.
- Tichnor, Harry N. 2,913,210.
- Colprovia Roads, Inc.: *See*—  
Birney, George A. 2,876,686.
- Colson, Ian D., to The General Electric Co. Ltd. Manufacture of semiconductor devices. 2,881,370, 4-7-59, Cl. 317-234.
- Colson, U. O., Co.: *See*—  
Woolter, Cecil B. 2,877,581.
- Colt, Rutger B., to Bendix Aviation Corp. Ship's sinuous course generator. 2,888,896, 6-2-59, Cl. 114-5.
- Colt, Rutger B., and A. Uchuck, to Bendix Aviation Corp. Portable motor-aspirated psychrometer. 2,894,391, 7-14-59, Cl. 73-338.6.
- Colt, Rutger B., and T. K. Kjellman, to Bendix Aviation Corp. Condition-responsive electrical control device. 2,915,725, 12-1-59, Cl. 338-41.
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O'Hea, Ignatius J. 2,881,690.
- O'Hea, Ignatius J. 2,895,399.
- Reaney, Michael J. 2,885,945.
- Colten, Jerrold L., to Gulf Research & Development Co. Seismograph shot firing device. 2,902,627, 9-1-59, Cl. 317-80.
- Colten, Robert B.: *See*—  
Booth, Frederick E., Jr., Wanttaja, and Colten. 2,915,896.
- Coltman, Bertram W., Jr., to Republic Molding Corp. Containers. 2,878,848, 3-24-59, Cl. 150-5.
- Coltman, John W.: *See*—  
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- Colton, Frank B., to G. D. Searle & Co. 6-dehydro-17-alkyl-19-nortestosterones and esters thereof. 2,874,170, 2-17-59, Cl. 260-397.4.
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- Colton, John W., to Scientific Design Co., Inc. Hydrogen chloride purification. 2,901,407, 8-25-59, Cl. 202-42.
- Colton, John W., to Scientific Design Co., Inc. Chlorine recovery. 2,909,240, 10-20-59, Cl. 183-115.
- Colton, Roland J. Automatic booster piston for internal combustion engines. 2,914,047, 11-24-59, Cl. 123-48.
- Columbe, Maynard J., to General Electric Co. System for charge neutralization. 2,890,342, 6-9-59, Cl. 250-49.5.
- Columbia Broadcasting Co., Inc.: *See*—  
Fyler, Norman F. 2,887,600.
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- Goldberg, Abraham A., and Duggan. 2,886,709.
- Meagher, Robert J. 2,898,505.
- Sokolov, David A. 2,889,482.
- Swartz, Allen I. 2,885,364.
- Columbia Broadcasting System, Inc.: *See*—  
Christensen, John W. 2,878,309.
- Doncaster, Daniel P. 2,873,978.
- Goldmark, Peter C. 2,868,870.
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- Goldmark, Peter C. 2,878,307.
- Goldmark, Peter C., and Christensen. 2,880,267.
- Porrata, Louis R., and Porterfield. 2,905,614.
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- Columbia Cellulose Co., Ltd.: *See*—  
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- Columbia Envelope Co.: *See*—  
Birmingham, Arthur T., Jr., and Holthaus. 2,907,514.
- Birmingham, Arthur T., Jr., and Procido. 2,910,222.
- Columbia Mills, Inc.: *See*—  
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- Kelly, John T., and Wulfer. 2,898,991.
- Peterson, Albert. 2,898,989.
- Columbia Pen & Pencil Co., Inc.: *See*—  
Zepelovitch, Nathan. 2,881,726.
- Columbia Products Co.: *See*—  
Scott, Arthur L., and Trewbella. 2,918,104.
- Columbia Products, Inc.: *See*—  
Akers, David. 2,910,902.
- Turner, Robert P., Jr., and Herchelroth. 2,904,273.
- Columbia Ribbon and Carbon Mfg. Co., Inc.: *See*—  
Newman, Douglas A., Boylan, Schlottzauer, and Smatiak. 2,872,863.
- Newman, Douglas A., and Dixon. 2,912,344.
- Newman, Douglas A., and Schlottzauer. 2,872,340.
- Columbia-Southern Chemical Corp.: *See*—  
Allen, Edward M. 2,888,377.
- Allen, Edward M. 2,905,567.
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- Bachmann, John H. 2,875,039.
- Bachmann, John H., Sellers, and Wagner. 2,884,402.
- Baker, Paul H. 2,904,517.
- Bryant, Louis D. 2,903,349.
- Carlson, Gordon A., Brown, and Zettel. 2,884,309.
- Conrad, Lawrence P., and Hazel. 2,882,126.
- Cowan, James C., Sanders, and Shelton. 2,877,276.
- Cox, Joseph R., and Brown. 2,886,416.
- Eisenlohr, Douglas H., and Shelton. 2,898,383.
- Feathers, Robert E., and Rogerson. 2,914,575.
- Hoekje, Howard H. 2,887,360.
- Johnson, Arthur J. 2,876,074.
- Kissling, Lehr F. 2,888,494.
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- Kissling, Lehr F. 2,911,363.
- Korach, Malcolm. 2,877,266.
- Korach, Malcolm. 2,916,462.
- Kung, Frederick E. 2,892,875.
- Kung, Frederick E. 2,911,342.
- Michaelis, John L. 2,881,383.
- Pechukas, Alphonse. 2,883,348.
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- Raetzsch, Carl W. 2,890,157.
- Rahn, Henry W., and Sindlinger. 2,876,073.
- Rahn, Henry W., and Sindlinger. 2,915,366.
- Schneider, Richard E. 2,905,531.
- Sellers, John W., and Wagner. 2,892,807.
- Vancamp, Raymond M., and Muren. 2,914,576.
- Witman, Eugene D. 2,884,128.
- Wolf, Ralph F. 2,903,439.



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- Columbia Basin Plastics Co.: *See*—  
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- Columbian Art Works: *See*—  
Rockefeller, John W., Jr. 2,909,992.
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Braendle, Harold A., and Heller. 2,908,586.  
Downs, Charles D., and Martin. 2,904,395.  
Heller, George L. 2,890,839.  
Heller, George L. 2,895,804.  
Heller, George L. 2,900,737.  
Heller, George L. 2,918,353.  
Ladd, William A. 2,903,589.  
Sweetzer, Carl W. 2,915,371.  
Warner, Amos C. 2,915,372.  
Weaver, Jack A. 2,872,336.  
White, James W. 2,915,489.
- Columbian-General Blacks Ltd.: *See*—  
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- Columbian Rope Co.: *See*—  
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Starr, Raymond T. 2,880,568.
- Columbus Iron Works Co., Southern Plow Co. Division: *See*—  
Kenney, William D. 2,876,852.
- Columbus McKinnon Chain Corp.: *See*—  
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Devonshire, William H., and Robins. 2,891,132.
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Kelly, George W. 2,911,680.
- Colvilles Ltd.: *See*—  
Posnett, William A., and Ferguson. 2,875,084.
- Colvin, Alex D., to Radio Corp. of America. Electrode blanks. 2,891,304, 6-23-59, Cl. 29—193.5.
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- Colvin Laboratories, Inc.: *See*—  
Sano, Julian H. 2,892,170.
- Colvin, Sion, to Western Electric Co., Inc. Self-aligning electrical connector structure. 2,882,510, 4-14-59, Cl. 339—59.
- Colvin, Sion, and G. A. Mitchell, to Western Electric Co., Inc. Apparatus for electrically testing electron discharge devices. 2,882,485, 4-14-59, Cl. 324—26.
- Colvin, William I., to National Can Corp. Apparatus for coating the inside of flanges of can bodies. 2,902,001, 9-1-59, Cl. 118—238.
- Colwell, Richard E. Impulse operation types of electric wiring structures. 2,892,965, 6-30-59, Cl. 315—84.5.
- Coma, James G.: *See*—  
Hunt, Reed O., Erickson, Lowndes, Wethern, and Coma. 2,884,147.
- Comanor, Milton, to Yardney International Corp. Electrochemical cell. 2,903,497, 9-8-59, Cl. 136—26.
- Comar Electric Co.: *See*—  
Brunicardi, Daniel. 2,908,781.  
Sauer, Hans. 2,869,098.  
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- Comar, Michel. Method of obtaining a two phase system of artificial immiscibility. 2,880,179, 3-31-59, Cl. 252—364.
- Comb, David M. Ice-skating rink. 2,878,652, 3-24-59, Cl. 62—235.
- Comba, Giovanni, and G. Scavarda. Driving mechanism for extensible antennae. 2,907,416, 10-6-59, Cl. 189—26.
- Combinatie N.V. En Amsterdamsche Bandoengsche & Nederlandsche Kininefabriek: *See*—  
Van Kekem, Elze E. 2,895,409.
- Combs, Raymond M., to The Joclin Mfg. Co. Liners for hose clamps. 2,870,501, 1-27-59, Cl. 24—16.
- Combs, Wilbur E., to United States Rubber Co. Sectional conveyor belt manufacture. 2,916,136, 12-8-59, Cl. 198—151.
- Combustion Engineering, Inc.: *See*—  
Armcast, Wilbur H. 2,867,983.  
Avellone, Giuseppe R., and Chapellier. 2,868,551.  
Baird, Raymond C. 2,893,509.  
Blaskowski, Henry J. 2,895,719.  
Bogot, Alexander, and Caracristi. 2,895,435.  
Bogot, Alexander, and Gandsey. 2,868,462.  
Chapellier, Robert A. 2,890,009.  
Crites, Joe. 2,867,182.  
Deakins, Thomas A., Lasater, and Northington. 2,882,567.  
Deitrick, Stapleton C., Jr. 2,900,174.  
Epley, Frederic I. 2,871,832.  
Gordon, Charles W. 2,909,133.  
Hochmuth, Frank W. 2,911,284.  
Huet, André. 2,882,953.  
Huet, André. 2,886,881.  
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Hunter, Arthur T. 2,919,118.  
Kushner, Milton N., and Chapellier. 2,894,779.  
Schroeder, Henry, and Cruise. 2,905,157.  
Schroedter, Willburt W. 2,867,415.  
Schroedter, Willburt W. 2,896,591.  
Schroedter, Willburt W., and Powell. 2,869,519.  
Wall, Marion P., and Becker. 2,876,925.
- Combustion Engineering, Inc.: *See*—Continued  
Weigel, Albert C., and Menson. 2,877,352.  
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Wittke, Ernest C. 2,873,099.  
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- Combustion Research, Inc.: *See*—  
Ross, John. 2,872,928.  
Ross, John. 2,910,987.
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- Comer, Richard L., to General Motors Corp. Thermocouple. 2,870,233, 1-20-59, Cl. 136—4.
- Comer, Strawder A.: *See*—  
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- Comery, Peter D., to Orenda Engines Ltd. Labyrinth seals. 2,871,038, 1-27-59, Cl. 286—10.
- Comfort, Samuel T., to Allis-Chalmers Mfg. Co. Guide rollers for lift truck carriage. 2,881,031, 4-7-59, Cl. 308—6.
- Comforto, Gaetano, to Putsch Bamag Akt. Electrolytic cell arrangement. 2,895,894, 7-21-59, Cl. 204—219.
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Schutte, Ethel M. 2,884,993.  
Schutte, Ethel M. 2,895,542.
- Comings, Edward W., E. D. Shippee, and C. H. Adams, to United States of America, War. Aerosol dispersion apparatus. 2,882,239, 4-14-59, Cl. 252—359.
- Commander Door, Inc., The: *See*—  
D'Orazio, William R. 2,916,089.
- Commer Cars Ltd.: *See*—  
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- Commercial Controls Corp.: *See*—  
Blodgett, Edwin O. 2,901,042.  
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Boyd, Robert L., Jr., and Huntsinger. 2,882,383.  
Tholstrup, Henry L. 2,900,063.  
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- Commercial Plastics Ltd.: *See*—  
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- Commercial Shearing and Stamping Co., The: *See*—  
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- Commercial Solvents Corp.: *See*—  
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Erickson, Edward A. 2,885,269.  
Gross, Herbert M. 2,889,251.  
Gross, Herbert M., and Shurter. 2,902,407.  
Harker, Robert J. 2,889,246.  
Hidy, Phil H., Phillips, and Harned. 2,902,480.  
Hodge, Edward B. 2,894,992.  
Hodge, Edward B. 2,905,640.  
Hodge, Edward B. 2,913,414.  
Kieweg, Homer E. 2,912,318.  
Lubin, Bernard L., and Burnet. 2,884,999.  
Martin, Jerome L. 2,905,724.  
Mulinos, Michael G. 2,894,874.  
Spencer, Joseph N. 2,902,404.  
Stengel, Leonard A. 2,894,826.
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Braffort, Paul L., and Weill. 2,911,343.  
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- Commons, Charles H., Jr., to Foote Mineral Co. Glass colorant composition. 2,916,387, 12-8-59, Cl. 106—47.
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Ballard, James W., and Brier. 2,893,434.  
Berger, Carl. 2,875,588.  
Bishop, Alfred E. 2,914,415.  
Bolton, Wilbur M., and Ruse. 2,901,867.  
Bulloff, Jack J. 2,898,230.  
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Drummond, Folsom E. 2,876,137.  
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Foote, Earl H., Jr. 2,893,987.  
Hiler, Malvern J. 2,880,105.  
Hiler, Malvern J. 2,901,864.  
Homer, Howard J. 2,867,552.  
Homer, Howard J. 2,887,406.  
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- Horst, William R. 2,901,905.  
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 Nack, Herman R. 2,872,342.  
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 Novak, Leo J. 2,876,165.  
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 Novak, Leo J. 2,910,406.  
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 Parker, James C., and Horst. 2,875,666.  
 Shellman, Kenneth S., and Crosby. 2,888,877.  
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 Toulmin, Harry A., Jr. 2,875,989.  
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 Toulmin, Harry A., Jr. 2,887,454.  
 Toulmin, Harry A., Jr. 2,888,570.  
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- Lederman, Burton E. 2,873,261.  
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- Metcalfe, Kenneth A., and Wright. 2,898,279.  
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Commonwealth Products, Inc.: *See*—

- Berkeley, Bernard, and Petersen. 2,907,649.  
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- Walsh, Alan. 2,871,757.  
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- Montani, Angelo. 2,879,483.

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- Bonnerre, Lucien. 2,899,527.

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- Guenzi, Erardo. 2,872,175.

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- Pouzet, Daniel. 2,902,216.

Compagnie des Machines Bull: *See*—

- Knutsen, Knut A. 2,869,455.

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- Chenus, Pierre J. C. 2,891,721.

- Descouvemont, Pierre A. 2,892,048.

- Feissel, Henri G. 2,876,433.

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- Folger, Erwin. 2,879,050.

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- Gislon, André, and Putters. 2,911,413.

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- Bilger, Xavier, and Muller. 2,895,837.

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- Delarue, Henri P. 2,891,061.

- Petitcolas, Pierre, Richard, Bureau, Roe, and Develotte. 2,893,817.

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- Lants, Robert L., and Obellianne. 2,906,587.

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- Jastenski, Marcel M. P. 2,869,586.

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- Beurtheret, Charles A. E. 2,882,449.

- Guillot, Georges R. P. 2,918,343.

- Masselin, Jacques G. 2,884,519.

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- Bendayan, Jacques, and Eyraud. 2,887,652.

- Eyraud, Yvan. 2,895,373.

- Ponthus, Andre, and Comte. 2,890,296.

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- Amster, Ignace. 2,914,767.

- Bernier, Jean, and Yeou. 2,881,351.

- Boulet, Francois, Dufour, and Giraud. 2,890,361.

- Broussaud, Georges. 2,870,444.

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- Charles, Daniel, and Epszstein. 2,911,556.

- Charles, Daniel, and Gentner. 2,890,374.

- Charles, Daniel, and Mourier. 2,880,356.

- Derouet, Brice. 2,914,666.

Compagnie Generale de Telegraphie Sans Fil: *See*—Continued

- Dohler, Oscar, and Nalot. 2,888,597.

- Donavy, Alain. 2,916,714.

- Epszstein, Bernard. 2,876,354.

- Epszstein, Bernard. 2,880,355.

- Epszstein, Bernard. 2,919,375.

- Guenard, Pierre R., and Palluel. 2,889,486.

- Honore, Etienne, and Torcheux. 2,914,250.

- Huber, Harry, and Freytag. 2,881,513.

- Huber, Harry, Freytag, and Reynaud. 2,881,512.

- Huber, Harry, Freytag, and Reynaud. 2,913,812.

- Leblond, André. 2,879,437.

- Leblond, Andre. 2,891,160.

- Lerbs, Alfred. 2,891,150.

- Mourier, Georges. 2,882,440.

- Ortusi, Antoine J., and Robert. 2,913,721.

- Ortusi, Jean, and Robert. 2,914,761.

- Palluel, Pierre. 2,881,348.

- Palluel, Pierre. 2,888,598.

- Reverdin, Daniel. 2,889,488.

- Rocard, Yves. 2,899,134.

- Simon, Jean-Claude, and Weill. 2,885,675.

- Thourel, Leo. 2,907,030.

- Thourel, Léo. 2,913,723.

- Warnecke, Robert, and Guenard. 2,888,595.

- Warnecke, Robert, and Mourier. 2,880,353.

Compagnie Generale des Etablissements Michelin: *See*—

- Bourdon, Pierre M. 2,906,315.

- Boussu, Gabriel X. R., Neuville, and Saint-Frison. 2,884,040.

Compagnie Industrielle des Telephones: *See*—

- Alizon, Etienne. 2,898,404.

- Monin, Claude. 2,915,645.

- Oswald, Jacques. 2,914,738.

Compagnie Internationale des Pieux Armes: *See*—

- Pickman, Edgar. 2,871,666.

Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme: *See*—

- Jourdain, Andre P. 2,869,329.

- Jourdain, Andre P. 2,879,974.

- Jourdain, Andre P. 2,911,194.

- Pickman, Edgar. 2,889,685.

Compagnie pour la Fabrication des Compteurs et Matériel d'Usines a Gaz: *See*—

- Bizouard, Paul, and Hardouin. 2,896,164.

- Dubusc, Roger P. 2,911,495.

- Quenouille, Georges. 2,918,589.

Compagnie Telma: *See*—

- Bessiere, Pierre E. 2,911,550.

Compagnies Reunies des Glaces & Verres Speciaux du Nord de la France: *See*—

- Long, Bernard. 2,900,764.

Companhia Mercantil e Industrial Inga: *See*—

- Radino, Huza L. 2,874,041.

Companhia Portuguesa Radio Marconi, S. A. R. L.: *See*—

- Filipowsky, Richard F. J. 2,870,432.

- Filipowsky, Richard F. J. 2,879,336.

Compania Uruguaya de Fomento Industrial S.A.: *See*—

- Fehling, Hans R., and Wicks. 2,879,586.

Compeco Corp.: *See*—

- Stephensen, Allan P., and Kaufman. 2,867,719.

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- Dawson, Fred. 2,867,189.

- Peterson, Evald O., and Smith. 2,888,049.

- Prahl, Fred A., Jr., and Peterson. 2,914,782.

- Smith, John F., and Dawson. 2,866,987.

Component Designers, Inc.: *See*—

- Morrison, Lawrence L. 2,895,116.

Comptoir de l'Industrie Cotonniere, Etablissements Boussac: *See*—

- Pelletier, Albert L. G. 2,898,529.

Comptoir des Phosphates de l'Afrique du Nord: *See*—

- Bursaux, Jacques, Ancelle, and de Saint Chamant. 2,875,032.

- Miché, Robert. 2,899,271.

"Comptoir Industriel de Paris," (Societe a Responsabilite Limitee): *See*—

- Madar, Emile, and Dive. 2,918,084.

Comptoir Industriel d'Etirage et Profilage de Metaux: *See*—

- Buffet, Jean, and Meriaux. 2,893,555.

- Sejournet, Jacques, and Bonnassieux. 2,893,554.

Comptometer Corp.: *See*—

- Walker, Emil C., Jr. 2,872,225.

## Compton, Arthur M. Device for relief and prevention of metatarsalgia. 2,884,719, 5-5-59, Cl. 36-71.

## Compton, Harold G. Fish cleaning glove set. 2,895,139, 7-21-59, Cl. 2-161.

## Compton, Henry P. Coin controlled vendor. 2,913,143, 11-17-59, Cl. 221-268.

## Compton, James A., to Borg-Warner Corp. Method of assembling pressure loaded gear pumps. 2,900,920, 8-25-59, Cl. 103-126.

## Compton, John, and K. H. Geiger, to John Labatt, Ltd. Process for the production of wort. 2,894,841, 7-14-59, Cl. 99-52.

## Compton, Max V., 1/2 to Gadget-of-the-Month Club, Inc. Safety cigarette holder. 2,897,824, 8-4-59, Cl. 131-174.

Compute Corp., The: *See*—

- Lockhart, Marshall L. 2,869,745.

Computing Devices of Canada Ltd.: *See*—

- Parsons, James S. 2,899,823.



- Comroe, Herman. Plaster protection plate for electric connection boxes. 2,895,634, 7-21-59, Cl. 220—3.4.
- Comstock, Alfred E., to Diamond Gardner Corp. Pulp molding machine. 2,879,697, 3-31-59, Cl. 92—56.
- Comstock, George E., 3d, to Norton Co. Servomotor control system adapted for machine tool use. 2,867,759, 1-6-59, Cl. 318—29.
- Comstock, George E., 3d, to Norton Co. Electrolytic grinding apparatus. 2,871,177, 1-27-59, Cl. 204—218.
- Comstock, George E., 3d, to Norton Co. Electronic swivel control. 2,880,407, 3-31-59, Cl. 340—199.
- Comstock, George E., 3rd, to Norton Co. Automatic balancing mechanism for rotating elements. 2,882,745, 4-21-59, Cl. 74—573.
- Comstock, George E., 3d, and L. A. Kasparson, to Norton Co. Automatic balancing mechanism for rotating elements. 2,915,918, 12-8-59, Cl. 74—573.
- Comstock International Methane Ltd.: See—  
Henry, James J. 2,905,352.
- Comstock Liquid Methane Corp.: See—  
Bocquet, Philip E. 2,888,807.
- Comte, Georges: See—  
Ponthus, André, and Comte. 2,890,296.
- Comtex Ltd.: See—  
Greisman, Samuel. 2,910,949.
- Comyns-Carr, Cecil A., to Rolls-Royce Ltd. Closed cycle gas turbine power plant. 2,870,608, 1-27-59, Cl. 60—59.
- Conair, Inc.: See—  
Baldwin, Lee E., and Bokelman. 2,881,794.
- Conalty, Michael L.: See—  
Barry, Vincent C., Belton, Conalty, and Twomey. 2,875,204.
- Conan, Yves, to Bronzavia S.A. Units comprising a gaseous fluid turbine and a speed reducer. 2,902,880, 9-8-59, Cl. 74—472.
- Conant, David J., to Cleveland Pneumatic Industries, Inc. Ball screw and nut construction. 2,882,742, 4-21-59, Cl. 74—459.
- Conant, Louis A., to Union Carbide Corp. Oxidized chromium-alumina metal ceramic protective tube. 2,872,724, 2-10-59, Cl. 29—182.5.
- Conant, Morris, to The Marcote Co. Apparatus for coating fibrous sheets. 2,889,806, 6-9-59, Cl. 118—643.
- Conant, Richard W., to Poly Choke Co., Inc. Gun sight. 2,911,724, 11-10-59, Cl. 33—52.
- Conbere, John P., and K. Pfister, III, to Merck & Co., Inc. 44-11-oxygenated-pregnene-17 $\alpha$ ,21-diol-3,20-dione 21-phosphate and salts thereof. 2,870,177, 1-20-59, Cl. 260—397.45.
- Conbere, John P., and E. M. Perry, to Arnold, Hoffman & Co., Inc. Quaternary ammonium salts and fabric coated therewith. 2,878,144, 3-17-59, Cl. 117—139.5.
- Conbere, John P., and E. M. Perry, to Arnold, Hoffman & Co., Inc. Quaternary ammonium salts. 2,878,273, 3-17-59, Cl. 260—404.5.
- Concho Petroleum Co.: See—  
Karcher, John C., and Allen. 2,885,270.
- Conchon, Andre F. Automatic feeding and level control system. 2,874,716, 2-24-59, Cl. 137—394.
- Conciatori, Anthony B., F. Fortess, and V. S. Salvin, to Celanese Corp. of America. Dyeing cellulose derivatives and aftertreating for improved washfastness. 2,880,052, 3-31-59, Cl. 8—74.
- Conciatori, Anthony B., F. Fortess, and L. J. Rosen, to Celanese Corp. of America. Inhibition of gas fading in colored cellulose triacetate. 2,892,672, 6-30-59, Cl. 8—61.
- Concidence, Gerald E. Printer's demonstration model. 2,884,903, 5-19-59, Cl. 35—71.
- Concord Supplies and Equipment Corp.: See—  
Topf, Sam B. 2,895,400.
- Concrete Industries Engineering Development Pty. Ltd.: See—  
Wilkinson, Horace A. 2,884,232.
- Concrete Technology Corp.: See—  
Anderson, Arthur R. 2,886,875.
- Condello, Vincent, and R. F. White, to Thiokol Chemical Corp. Poppet-butterfly valve. 2,910,266, 10-27-59, Cl. 251—25.
- Condenser Machinery Corp., The: See—  
Wellington, Cary L. 2,904,276.  
Wellington, Cary L. 2,916,228.
- Condit, Philip H.: See—  
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- Condit, Robert E., to General Electric Co. Combined hinge and hold-open device for closure members. 2,892,209, 6-30-59, Cl. 16—140.
- Condo, Fred E.: See—  
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- Condo, Fred E., to Shell Development Co. Composition comprising cellulose derivative, epoxy resin and epoxy curing catalyst and process for preparing same. 2,879,235, 3-24-59, Cl. 260—13.
- Condo, Fred E., and C. W. Schroeder, to Shell Development Co. Treatment of textile materials. 2,886,472, 5-12-59, Cl. 117—139.4.
- Condo, Fred E., and R. W. Martin, to Shell Development Co. Di(cyanoalkyl) and di(cyanoalkenyl) polyhydrocarbylxylenes. 2,891,088, 6-16-59, Cl. 260—465.
- Condon, Robert S., to Adirondack Bowls, Inc. Power saw for forming oval bowls or the like. 2,873,774, 2-17-59, Cl. 143—85.
- Condrac, Robert F., to United States Steel Corp. Cutting tool. 2,869,404, 1-20-59, Cl. 77—58.
- Cone Automatic Machine Co., Inc.: See—  
Dow, William E. 2,907,099.  
Miller, Carroll E. 2,868,032.  
Miller, Carroll E. 2,908,202.
- Cone, Carroll, to Surface Combustion Corp. Soaking pit cover handling apparatus. 2,873,862, 2-17-59, Cl. 212—4.
- Cone, Carroll, and D. C. Stuart, to Surface Combustion Corp. Atmosphere furnace conveyor. 2,916,276, 12-8-59, Cl. 263—6.
- Cone, Charles N., to American-Marietta Co. Resin-blood glue and process of making the same. 2,895,928, 7-21-59, Cl. 260—7.
- Cone, Clarence D., Jr.: See—  
Sproull, Reavis C., and Cone. 2,881,066.
- Cone, James E. Mailing and return device. 2,895,664, 7-21-59, Cl. 229—73.
- Cone, Richard R., to W. D. Lewis. Control ring attachment for spinning machines. 2,892,301, 6-30-59, Cl. 57—54.
- Con-Elco: See—  
Semple, Robert E. 2,892,171.
- Conerty, James E., to Walworth Engineering Co. Tear strip box. 2,909,312, 10-20-59, Cl. 229—51.
- Conery, William J., and P. C. Masters, to The F. E. Myers & Bro., Co. Apparatus for pumping liquids. 2,918,975, 12-29-59, Cl. 169—24.
- Coney, Charles H.: See—  
Ball, Fred M., and Coney. 2,875,164.  
Johnson, Nancy H., and Coney. 2,887,397.
- Coney, Charles H., and W. L. Rungay, to Eastman Kodak Co. Process for forming weightless ribbon. 2,870,055, 1-20-59, Cl. 154—92.
- Confeld, James D.: See—  
Morris, Frank A., Confeld, Foote, and Gleason. 2,886,642.
- Configured Tube Products Co.: See—  
Alger, Jerry T. 2,877,837.
- Dolby, John W. 2,905,235.
- Conforming Matrix Corp.: See—  
Faber, Elmer L. 2,888,903.
- Congard, Roger-Paul, to Institut Francais du Petrole, des Carburants et Lubrifiants. Rotary internal combustion engine. 2,908,257, 10-13-59, Cl. 123—13.
- Congdon, George L., F. E. Barta, and A. R. Hanson, to United Shoe Machinery Corp. Power nailing machines. 2,879,509, 3-31-59, Cl. 1—1.
- Conger, Elmer G.: See—  
Bradburn, William J., Jr., Conger, and Hansen. 2,884,578.
- Conger, Robert L. Noise discriminator. 2,874,284, 2-17-59, Cl. 250—27.
- Congiundi, Nicholas: See—  
Ostrander, Charles W., and Congiundi. 2,904,414.
- Congoleum-Nairn Inc.: See—  
Benedict, Walter E., and Dobry. 2,880,464.  
Benedict, Walter E. 2,888,975.  
Gasior, Joseph F., and Greiff. 2,916,975.  
Hansen, Herman E. 2,890,919.  
Nelson, Melvin C., and Hess. 2,894,560.  
Petry, Robert K. 2,917,780.  
Petry, Robert K. 2,917,781.  
Wetterau, Paul C. 2,918,702.
- Coning, Donald L., to General Motors Corp. Refrigerator butter compartment. 2,880,971, 4-7-59, Cl. 257—3.
- Coning, Donald L., to General Motors Corp. Heat transfer unit. 2,903,863, 9-15-59, Cl. 62—289.
- Conitech Ltd.: See—  
Gorham, George. 2,886,971.  
Huxley, Thomas C., III, 2,876,785.  
Huxley, Thomas C., III, and Eckman. 2,899,955.
- Conklin, George W., and R. C. Morris, to Shell Development Co. Cyclic boron compounds. 2,886,575, 5-12-59, Cl. 260—243.
- Conklin, Joseph E., and R. J. Holmes, to General Aniline & Film Corp. Inorganic papers and methods of making same. 2,901,390, 8-25-59, Cl. 162—152.
- Conklin, Robert M., to The Wooster Brush Co. Paint applicator. 2,891,301, 6-23-59, Cl. 29—116.
- Conklin, William R., and B. E. Stentz, to The Swartzbaugh Mfg. Co. Movable hot meal assembly table. 2,900,045, 8-18-59, Cl. 186—1.
- Conkling, Donald R., and E. S. Stoddard, to General Electric Co. Apparatus for drying fabrics. 2,885,789, 5-12-59, Cl. 34—45.
- Conlan, John P. Fluid pressure operated valve. 2,882,007, 4-14-59, Cl. 251—61.
- Conlan, John R. Pocket closure. 2,887,689, 5-26-59, Cl. 2—252.
- Conlee, George D., to General Electric Co. Drive mechanism. 2,869,698, 1-20-59, Cl. 192—48.
- Conlee, George D., to McGraw-Edison Co. Water supply means for washing machines. 2,871,871, 2-3-59, Cl. 137—216.
- Conlee, George D., to McGraw-Edison Co. Driving clutch for washing machines. 2,886,154, 5-12-59, Cl. 192—105.
- Conlee, George D., to McGraw-Edison Co. Drive mechanism for washing machines. 2,910,161, 10-27-59, Cl. 192—105.
- Conlee, George D., to McGraw-Edison Co. Safety locking means for laundry machines. 2,910,317, 10-27-59, Cl. 292—64.
- Conley, Frank, to The Globe-Wernicke Co. Base panel for partition structures. 2,914,146, 11-24-59, Cl. 189—34.
- Conley, Howard W. Coin purse. 2,869,603, 1-20-59, Cl. 150—37.



- Conley, Kurt H.: *See*—  
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Dodds, Robert B., Conley, and Seidel. 2,879,004.
- Conley, William E.: *See*—  
Crouch, John M., King, and Conley. 2,906,364.
- Conlisk, John R., and C. B. Baker, to United States of America, Army. Method for the rapid absorption of slightly soluble gases by liquids. 2,886,131, 5-12-59, Cl. 183—114.2.
- Conlon, John W., to Farmington Mfg. Co. Method of making a work supporting structure. 2,877,538, 3-17-59, Cl. 29—149.5.
- Conly, Frank E. Portable signal light. 2,907,998, 10-6-59, Cl. 340—366.
- Conly, James C., to Douglas Aircraft Co., Inc. Method of making perfluorinated phosphate esters and resulting new chemical compounds. 2,898,364, 8-4-59, Cl. 260—461.
- Conmar Products Corp.: *See*—  
Johns, La Moine E. 2,903,775.  
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- Conn, Francis E.: *See*—  
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- Conn, John B., and W. K. Humphrey, to Merck & Co., Inc. Process for preparing zinc oxide. 2,898,191, 8-4-59, Cl. 23—147.
- Conn, Robert C., C. L. Kosloski, and R. H. Kienle, to American Cyanamid Co. Alkyleneurea-thiourea condensates. 2,881,152, 4-7-59, Cl. 260—67.5.
- Connally, Samuel R., Jr.: *See*—  
Entz, Gerhard E., and Connally. 2,888,915.
- Connell, Clyde B., and D. L. Moses, to Westinghouse Electric Corp. Hydraulic control device for variable speed mechanism. 2,891,423, 6-23-59, Cl. 74—786.
- Connell, Edward F. Action figure toy structure. 2,874,513, 2-24-59, Cl. 46—119.
- Connell, Edwin L., to Chicago Pneumatic Tool Co. Predetermined torque release mechanism. 2,884,103, 4-28-59, Cl. 192—56.
- Connell, Lawrence H., to P. L. Razete. Magnetic recording. 2,892,899, 6-30-59, Cl. 179—100.2.
- Connell, Lawrence H. Self-adjusting variable speed drive. 2,914,266, 11-24-59, Cl. 242—55.14.
- Connell, Lawrence H., and L. A. Moe, to F. H. Peavey & Co. Apparatus for moisture removal. 2,898,431, 8-4-59, Cl. 219—10.77.
- Connell, Leo F., H. F. Elkin, and W. E. Soden, to Sun Oil Co. Process for the treatment of contaminated waste waters. 2,899,385, 8-11-59, Cl. 208—208.
- Connell, Wade H.: *See*—  
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- Connelly Containers, Inc.: *See*—  
Kane, Alan H. 2,887,708.
- Connelly, Eugene C., to Electro-Snap Switch & Mfg. Co. Coupling device for multi-spring snap action electric switches. 2,884,503, 4-28-59, Cl. 200—172.
- Connolly, Robert E. Pallets. 2,888,221, 5-26-59, Cl. 248—120.
- Conner, David S.: *See*—  
Miller, Floyd F., and Conner. 2,905,659.
- Conner, Guy F.: *See*—  
Strobel, Charles K., and Conner. 2,868,928.
- Conner, Guy O. Antifriction tool guiding means. 2,881,644, 4-14-59, Cl. 77—62.
- Conner, Guy O. Non-resiliently deformable locking ring. 2,888,852, 6-2-59, Cl. 85—8.6.
- Conner, Guy O. Anti-friction die set. 2,906,563, 9-29-59, Cl. 308—6.
- Conner, James M., and W. F. H. Purcell, to Deere & Co. Container structure and closure therefor. 2,908,417, 10-13-59, Cl. 220—14.
- Conner, Jesse J., and R. J. Landregan. Railway car draft rigging. 2,918,182, 12-22-59, Cl. 213—52.
- Conner, John P.: *See*—  
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- Conner, Lyman C.,  $\frac{1}{2}$  to H. R. Crane. Pneumatic seat. 2,880,782, 4-7-59, Cl. 155—9.
- Conner, Lyman C.,  $\frac{1}{2}$  to H. R. Crane. Contouring back rest for motor vehicle seats. 2,894,565, 7-14-59, Cl. 155—158.
- Connors, Archie S.: *See*—  
Mazzagatti, Roy P., Stephens, and Connors. 2,888,571.
- Connett, Solomon L.: *See*—  
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- Connick, Robert E.: *See*—  
Gofman, John W., Connick, and Wahl. 2,871,251.
- Connick, Robert E., J. W. Gofman, and G. C. Pimentel, to United States of America, Atomic Energy Commission. Processes for separating and recovering constituents of neutron irradiated uranium. 2,912,302, 11-10-59, Cl. 23—14.5.
- Conning, James: *See*—  
Latin, Aubrey, Grieve, and Conning. 2,887,222.  
Latin, Aubrey, Grieve, and Conning. 2,887,223.
- Connolly, Francis A., to S & S Corrugated Paper Machinery Co., Inc. Glue head for corrugated board box folding machine. 2,902,000, 9-1-59, Cl. 118—200.
- Connolly, John E., to O & S Bearing & Mfg. Co. Combination radial and end-thrust bearing. 2,881,032, 4-7-59, Cl. 308—36.1.
- Connolly, Leo V., Jr.: *See*—  
Seats, Peter, and Connolly. 2,905,571.  
Seats, Peter, and Connolly. 2,909,444.
- Connor, James E., Jr., and C. S. Shipley, to The Atlantic Refining Co. Platinum-containing catalysts and method of preparation thereof. 2,884,374, 4-28-59, Cl. 208—138.
- Connor, Lyle B.: *See*—  
Haskell, Philip, Evans, Ketchpel, and Connor. 2,890,685.
- Connor, Richard J.: *See*—  
Gale, Alfred J., and Connor. 2,897,036.
- Connor, Thomas G.: *See*—  
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- Connor, William G.: *See*—  
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- Connor, William H.: *See*—  
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- Connor, William T.: *See*—  
Rogge, Glenn A. 2,891,465.
- Connors, Edward T. Shaker fire extinguisher package and closure therefor. 2,909,228, 10-20-59, Cl. 169—35.
- Connors, James J., and C. W. Elsenheimer, to The Charles Parker Co. Wall fixture support. 2,893,676, 7-7-59, Cl. 248—225.
- Connors, John F.: *See*—  
Matson, William N., and Connors. 2,886,361.
- Connoy, Eugene N., to Continental Machines, Inc. Magnetizing and demagnetizing apparatus. 2,871,417, 1-27-59, Cl. 317—123.
- Conoflow Corp.: *See*—  
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- Conover, Harold E.: *See*—  
Radlinski, Harry F., and Conover. 2,916,278.
- Conquest, Victor: *See*—  
Niven, Charles F., Jr., Deibel, and Wilson. 2,907,661.  
Pircon, Ladislav J. 2,896,054.
- Conrad, Earl W., to United States of America, Navy. Flame stabilizer for high velocity gas streams. 2,870,604, 1-27-59, Cl. 60—39.72.
- Conrad, Earl W. Apparatus for fabricating porous walls for controlled flow direction and porosity. 2,871,546, 2-3-59, Cl. 29—35.
- Conrad, Emmett: *See*—  
De Shano, Alphonse D. 2,867,333.
- Conrad, Harold L., and J. E. Vanderbur, Jr., to North American Aviation, Inc. Seal. 2,895,759, 7-21-59, Cl. 288—17.
- Conrad, Joseph D., Sr., to Westinghouse Electric Corp. Power plant apparatus. 2,915,075, 12-1-59, Cl. 137—16.
- Conrad, Keith, to Owens-Illinois Glass Co. Chute for conveying molten glass. 2,873,555, 2-17-59, Cl. 49—14.
- Conrad, Lawrence P., and J. G. Hazel, to Columbia-Southern Chemical Corp. Chemical process. 2,882,126, 4-14-59, Cl. 23—90.
- Conrad, Martin B.: *See*—  
Baker, Reuben C., and Conrad. 2,874,931.
- Conrad, Martin B., and J. R. Baker, to Baker Oil Tools, Inc. Apparatus for operating subsurface well devices. 2,870,841, 1-27-59, Cl. 166—63.
- Conrad, Martin B., to Baker Oil Tools, Inc. Subsurface tubing tester. 2,874,927, 2-24-59, Cl. 251—100.
- Conrad, Martin B., to Baker Oil Tools, Inc. Valves. 2,906,492, 9-29-59, Cl. 251—325.
- Conrad, Martin B., to Baker Oil Tools, Inc. Well bore tubing tester. 2,912,216, 11-10-59, Cl. 251—100.
- Conrad, Mary E.: *See*—  
Teahen, James M. 2,909,787.
- Conrad, Rene A. Closure unit for bottles or the like. 2,906,422, 9-29-59, Cl. 215—46.
- Conrad, Rene A. Closure unit for bottles and jars. 2,913,135, 11-17-59, Cl. 215—46.
- Conradty, C.: *See*—  
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- Conroy, Robert P., to Kiekhaefer Corp. Outboard motor clutch control mechanism. 2,887,083, 5-19-59, Cl. 115—18.
- Consaul, John G., and E. Velten, to Art Color Printing Co. Method of gravure reproduction. 2,914,405, 11-24-59, Cl. 96—38.
- Consaul, John G., and E. Velten, to Art Color Printing Co. Method of gravure reproduction. 2,914,406, 11-24-59, Cl. 96—38.
- Consaul, Kenneth E. Filing folder. 2,878,814, 3-24-59, Cl. 129—16.8.
- Consett Iron Co. Ltd.: *See*—  
Huddle, Roy A. U., Pearson, and de Lippa. 2,901,346.
- Considine, Robert J.: *See*—  
Brennan, Frederick S., Hudson, and Considine. 2,867,273.
- Consoletti, Paul C., to Draper Corp. Filing guide for saw chain teeth. 2,898,782, 8-11-59, Cl. 76—36.
- Consoletti, Paul C., to Draper Corp. Saw chain. 2,912,020, 11-10-59, Cl. 143—135.
- Consolidated Diesel Electric Corp.: *See*—  
Bloch, Alexander. 2,870,914.  
Bloom, Albert S., and Winslow. 2,917,635.
- Consolidated Edison Co. of New York, Inc.: *See*—  
Shaughnessy, Frederick C. 2,919,335.  
Thomas, Earl R. 2,879,663.  
Xenis, Constantine P. 2,917,762.
- Consolidated Electrodynamics Corp.: *See*—  
Bancroft, George H. 2,898,933.  
Beall, Horace A., Jr., and Montgomery. 2,907,952.  
Bell, Norton W. 2,892,147.  
Bell, Norton W. 2,895,059.  
Bell, Norton W. 2,914,710.  
Bell, Norton W., and Kinkel. 2,909,622.



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 Chambers, Herbert I., and Browder. 2,876,059.  
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 Curtis, Gerald R. 2,886,678.  
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 Earl, John A. 2,916,388.  
 Fraher, John T. 2,907,665.  
 Freeman, Holland H. 2,904,754.  
 Gauger, Roy C. 2,882,429.  
 Gerow, Gordon P. 2,909,149.  
 Hall, Lawrence G., and Cole. 2,891,630.  
 Heath, Roy T., and Burdorf. 2,894,702.  
 Johnson, Lenard H. 2,886,757.  
 Lahti, Arvo A., and MacDonald. 2,873,439.  
 Lahti, Arvo A., and Maxwell. 2,909,337.  
 Lovelace, Donald E. 2,872,813.  
 MacDonald, Duncan N. 2,909,069.  
 MacDonald, Duncan N. 2,914,687.  
 Martin, Archer J. P. 2,890,586.  
 Miller, Theodore. 2,867,436.  
 Montgomery, Donald N., Lovelace, and Wilcox. 2,917,709.  
 Montgomery, Donald N., and Thoss. 2,899,641.  
 Neff, Glyn A. 2,874,283.  
 Neff, Glyn A. 2,892,182.  
 Neff, Glyn A. 2,904,776.  
 Robinson, Charles F. 2,875,606.  
 Shockley, William. 2,891,171.  
 Sink, Robert L. 2,876,004.  
 Sink, Robert L., and Neff. 2,891,237.  
 Spaulding, Carl P. 2,867,723.  
 Tavis, John R. 2,867,770.  
 Tavis, John R. 2,873,427.  
 Tavis, John R. 2,874,353.  
 Tavis, John R. 2,886,781.  
 Wilson, Gardner P. 2,882,405.  
 Consolidated Electronics Industries Corp.: *See*—  
 Ambrozaitis, Joan J. 2,869,639.  
 Fackler, Bernard E., Donnelly, and Daniels. 2,916,569.  
 Haydon, Arthur W. 2,869,062.  
 Martin, Paul N. 2,913,548.  
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 Walworth, Robert S. 2,877,507.  
 Consolidated Mining and Smelting Co. of Canada Ltd., The: *See*—  
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 Robinson, Joseph N., Miller, and McDonnell. 2,895,994.  
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 Thompson, Joshua B. 2,905,532.  
 Turner, Gordon H. 2,877,165.  
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 Barradas, George. 2,893,591.  
 Swartz, Charles K. 2,873,896.  
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 Hotelling, Eric B., Neuworth, and Previc. 2,882,319.  
 Jones, Benjamin W., and Neuworth. 2,917,487.  
 Jones, Donald C., and Neuworth. 2,910,507.  
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 Jones, Sam A. 2,877,896.  
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 Lee, Arthur L. 2,907,227.  
 Lee, Arthur L. 2,912,184.  
 Lee, Arthur L. 2,917,282.  
 Lee, Arthur L., and Coval. 2,915,146.  
 Neuworth, Martin B., and D. C. and B. W. Jones. 2,881,221.  
 Neuworth, Martin B., Paterson, and Tarbox. 2,904,595.  
 Poundstone, William N. 2,879,049.  
 Poundstone, William N. 2,905,441.  
 Regan, Thomas J., Jones, and Wasp. 2,880,745.  
 Yavorsky, Paul M. 2,885,327.  
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Constock International Methane Ltd.: *See*—

Dosker, Cornelius D. 2,911,125.  
 Henry, James J. 2,896,416.  
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 Bocquet, Philip E. 2,903,858.  
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 Brown, Edwin H. 2,903,860.  
 Morrison, Willard L. 2,889,953.  
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 Gerentes, Jean. 2,905,440.  
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 Janus, Alexander G. 2,889,919.  
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 Baker, Theodore C. 2,889,100.  
 Blackburn, Richard E. 2,876,945.  
 Burkhardt, George C., Eastwood, and Hamilton. 2,896,835.  
 Chamberlin, Charles E. 2,907,509.  
 Chidsey, Francis A., Jr., and Walter. 2,900,772.  
 Collura, Peter C. 2,874,870.  
 Collura, Peter C. 2,899,104.  
 Drnc, Harry F., Snyder, and Johnson. 2,900,123.  
 Fisher, John V. 2,889,040.  
 Gronemeyer, Erich W. 2,876,926.  
 Hamilton, Joseph P. 2,868,430.  
 Jones, Cecil T. 2,914,235.  
 Shanahan, Curtis M. 2,868,429.  
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 Conti, John D., to American Viscose Corp. Pliability tester. 2,886,967, 5—19—59, Cl. 73—95.  
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 Alexander, Paul. 2,903,547.  
 Baxter, Thomas R., and Miller. 2,900,779.  
 Bergstrom, Harold A. 2,868,428.  
 Burt, Howard J., and Janesek. 2,893,594.  
 Butz, James N. 2,867,367.  
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 Eastman, Willard B., and Catalano. 2,900,944.  
 Flynn, George M. 2,910,030.  
 Fralick, Jack F. 2,901,142.  
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 Garfunkel, Jack. 2,893,545.  
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 Gibb, Alex S. 2,896,518.  
 Gray, Robert F. 2,913,816.  
 Henchert, John. 2,868,410.  
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 Henchert, John. 2,901,161.  
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 Hodgson, Jack E. 2,910,206.  
 Jobus, Richard A., and Walther. 2,914,253.  
 Jones, Paul E., and Perry. 2,867,319.  
 Long, Florren E. 2,899,318.  
 Miller, William L. 2,911,890.  
 Oldfield, Clarence E., Jr. 2,895,449.  
 Piazza, Thomas E. 2,874,886.  
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 Rossi, Harry J. 2,889,127.  
 Shorkey, Edward S. 2,899,109.  
 Simkins, Daniel. 2,894,661.  
 Simpson, Justin. 2,900,842.  
 Simpson, Justin. 2,901,195.  
 Simpson, Justin, Sennello, and Bengtson. 2,907,457.  
 Stone, Orison W. 2,875,941.  
 Stone, Orison W. 2,911,136.  
 Strodtz, Norman H. 2,894,882.  
 Thiem, Eugene T., and Zechlia. 2,881,836.  
 Walter, Charles T. 2,891,361.  
 Weiss, Arthur J., Stone, and Doran. 2,906,444.



- Continental Carbon Co.: *See*—  
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- Continental Connector Corp.: *See*—  
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- Continental Copper & Steel Industries, Inc. (Braeburn Alloy Steel Division): *See*—  
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- Continental-Diamond Fibre Corp.: *See*—  
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Haroldson, Arthur H., Mulrooney, and Hogan. 2,915,786.  
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- Continental Electrolog Corp.: *See*—  
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- Continental Electronics Mfg. Co.: *See*—  
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- Continental Freezers of Illinois, Inc.: *See*—  
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- Continental Gin Co.: *See*—  
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- Continental Gummi-Werke Akt.: *See*—  
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- Continental Illinois National Bank & Trust Co. of Chicago: *See*—  
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- Continental Machines, Inc.: *See*—  
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Crane, Robert L. 2,883,736.  
Crane, Robert L., Cleland, and Whitmore. 2,898,669.  
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- Continental Motors Corp.: *See*—  
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Haas, Herbert H. 2,897,802.  
Haas, Herbert H. 2,874,804.  
Haas, Herbert H., and Aland. 2,907,891.  
Marchand, William C. 2,875,739.  
Powell, Robert J., and Champion. 2,895,463.  
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Powell, Robert J., and Champion. 2,913,233.  
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- Continental Oil Co.: *See*—  
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Coyne, Donald M., and Kirk. 2,872,456.  
Crawford, John M., and Clynch. 2,910,134.  
Dannehl, Melvin A. 2,874,934.  
Doty, William E. N., and Lee. 2,874,795.  
Feichner, George C. 2,914,580.  
Landers, James E., and Sudbury. 2,875,142.  
Nelson, Ernest W. 2,889,215.  
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Sias, Roy C., and Woods. 2,899,460.  
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Zaskey, Arthur F. 2,881,590.
- Continental Ore Corp.: *See*—  
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- Continental Paper Co.: *See*—  
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Vines, Oscar L. 2,900,121.  
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- Continental Plastics Corp.: *See*—  
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- Continental Motors Corp.: *See*—  
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- Continental Specialties Co., Ltd.: *See*—  
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- Continental Steel Corp.: *See*—  
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- Continental Water Heater Co.: *See*—  
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- Conto, Armando F., to Freez-King Corp. Control system for a pump. 2,882,827, 4-21-59, Cl. 103-25.
- Conto, James: *See*—  
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- Contols, Leo L., Jr., to Monsanto Chemical Co. Certain novel amphoteric polyelectrolytes. 2,914,510, 11-24-59, Cl. 260-78.
- Contour Arch, Inc.: *See*—  
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- Contraves A. G.: *See*—  
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Gallo, Mario. 2,883,558.  
Lattmann, Max E. 2,872,131.  
Weber, Josef J. 2,875,854.
- Contraves Italiana, S.p.A.: *See*—  
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- Contreras, Agripin. Conveyor. 2,907,449, 10-6-59, Cl. 198-195.
- Contreras, George C., and G. M. Van Hoy. Hack saw. 2,880,773, 4-7-59, Cl. 145-34.
- Contreras, Roberto E. Means for leveling and mounting machines on legs. 2,911,169, 11-3-59, Cl. 248-13.
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Beller, Wilbert E. 2,914,288.  
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Frerer, Paul G., and Yamasaki. 2,906,330.  
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Johnson, Roy W., Duncan, Braid, and Healy. 2,902,578.  
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Lewis, Melvin R. 2,915,905.  
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McCarty, Lourdes V. 2,881,790.  
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Starr, James E. 2,905,879.  
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- Control Devices, Inc.: *See*—  
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- Convers, Joseph J.: *See*—  
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- Converse, Sherman. Lawn spraying device. 2,911,157, 11-3-59, Cl. 239-287.
- Converse, Sherman, to Graniteville Co. Process for treating grass. 2,870,037, 1-20-59, Cl. 117-3.
- Converse, Sherman, to Graniteville Co. Spraying apparatus. 2,883,115, 4-21-59, Cl. 239-172.
- Converse, Vernon G., III, L. J. Seymour, R. E. Hohisel, and J. Sabuda, to George L. Nankervis Co. Conveyor system. 2,884,113, 4-28-59, Cl. 198-19.
- Conveyor Co., The: *See*—  
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- Conville, John, to In-A-Wall Corp. Window construction. 2,903,756, 9-15-59, Cl. 20-52.2.
- Conway, Carle C., III, and N. E. Nylin, to Aerojet-General Corp. Pressure responsive actuator. 2,876,745, 3-10-59, Cl. 121-38.
- Conway, Clifford C.: *See*—  
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- Conway Clutch Co., The: *See*—  
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- Conway, Hugh G., and K. R. Sherhod, to Short Brothers & Harland Ltd. Parachute and like release mechanism. 2,873,137, 2-10-59, Cl. 294-083.
- Conway, Joseph R.: *See*—  
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- Conway, Leon F. and H. H. Dinneen, said Dinneen assignor to Rust Furnace Co., and said Conway assignor to Bloom Engineering Co., Inc. Butterfly type valve. 2,902,254, 9-1-59, Cl. 251-305.
- Conway, Robert D., and W. Messinger, deceased, by The First National Bank of Philadelphia, administrator, to Pettibone Mulliken Corp. Cone crushing mechanism. 2,901,189, 8-25-59, Cl. 241-207.
- Conway, Theodore D.: *See*—  
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- Conyers, Abda J. Fishing float. 2,904,923, 9-22-59, Cl. 43-43.11.
- Coody, John L., J. S. Work, and E. K. Bell; said Coody assor to P. Barkley. Pipe lineup clamp. 2,888,895, 6-2-59, Cl. 113-102.
- Cogan, John H., and R. Klein, to United States of America, Navy. Signal tracking device. 2,891,245, 6-16-59, Cl. 343-8.
- Cook, Albert N., to The Singer Mfg. Co. Cord control mechanisms. 2,905,274, 9-22-59, Cl. 188-65.1.
- Cook, Alton A., and I. Sapers, to Arkansas Co., Inc. Production of dicyandiamide triethylene tetramine formaldehyde condensate. 2,902,472, 9-1-59, Cl. 260-70.
- Cook Bros. Equipment Co.: *See*—  
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- Cook, Buford, to United States of America, Atomic Energy Commission. Ion switch. 2,873,400, 2-10-59, Cl. 313-231.
- Cook, Carl V., to Phillips Petroleum Co. Underwater geophysical prospecting. 2,890,861, 6-16-59, Cl. 255-61.
- Cook, Carter G.: *See*—  
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- Cook, Charles C., to International Minerals & Chemical Corp. Two stage drying of nonmetallic ore precedent to electrostatic separation. 2,881,916, 4-14-59, Cl. 209-3.
- Cook, Chester K., and G. F. Hitt. Chuck assembly for veneer cutting lathes. 2,879,816, 3-31-59, Cl. 144-209.
- Cook Chemical Co.: *See*—  
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- Cook, Clara D. Clothes hanger. 2,907,472, 10-6-59, Cl. 211-177.
- Cook, Curtiss L., to Deere & Co. Center strap for potato digger chain. 2,904,165, 9-15-59, Cl. 198-193.
- Cook, Curtiss L., to Deere & Co. Plow share. 2,908,339, 10-13-59, Cl. 172-754.
- Cook, Cyrus F.: *See*—  
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- Cook, David E., and E. J. Barrasso, to Esso Research and Engineering Co. Hydrosulfurization of a coked hydrocarbon stream comprising gasoline constituents and gas oil constituents. 2,901,417, 8-25-59, Cl. 208-97.
- Cook, De'Orre. Retrievable stabilizer for well bores. 2,869,827, 1-20-59, Cl. 255-27.
- Cook, Donald F. Flow measuring system. 2,912,857, 11-17-59, Cl. 73-205.
- Cook, Earle S., to Westinghouse Air Brake Co. Fluid pressure actuator. 2,905,199, 9-22-59, Cl. 137-782.
- Cook, Einar. Agricultural implements having resilient draft connections. 2,907,394, 10-6-59, Cl. 172-7.
- Cook Electric Co.: See—
- Bellamy, John C. 2,911,277.
- Flubacker, Charles H. 2,872,506.
- McDonald, Donald C. 2,869,059.
- McDonald, Donald C. 2,902,644.
- McDonald, Donald C., Boe, and Warshawsky. 2,871,660.
- McNaughton, John F., and Gottfried. 2,872,254.
- Moore, Howard. 2,876,859.
- O'Brien, George W. 2,867,754.
- Thomiszser, Hubert J. 2,870,779.
- Tice, Leroy E., and Ness. 2,915,712.
- Cook, Forrest W., and J. E. Eberhardt, to ACF Industries, Inc. Carburetor step-up device. 2,882,027, 4-14-59, Cl. 261-69.
- Cook, Frank E.: See—
- Preisler, Herman S., Cook, and Tytell. 2,910,419.
- Cook, George O. Apparatus for taping packages. 2,893,188, 7-7-59, Cl. 53-198.
- Cook, George R.: See—
- Maneuville, Allan A., and Cook. 2,890,172.
- Manteuffel, Allan A., Cook, and Cortiss. 2,900,342.
- Cook, George R., and W. W. Cortiss, to The Pure Oil Co. Adhesive lubricants. 2,910,440, 10-27-59, Cl. 252-57.
- Cook, George R., and L. E. Ellison, to The Pure Oil Co. Electromagnetic testing apparatus for measuring the tack of fluids. 2,894,388, 7-14-59, Cl. 73-58.
- Cook, George W. Sensitive vertical displacement seismometer. 2,909,759, 10-20-59, Cl. 340-17.
- Cook, Gordon H., to Taylor, Taylor & Hobson Ltd. Anamorphic optical systems. 2,915,942, 12-8-59, Cl. 88-57.
- Cook, Gordon H., and P. A. Merigold, to Taylor, Taylor & Hobson Ltd. Optical objectives. 2,895,379, 7-21-59, Cl. 88-57.
- Cook, Harold C., to Cook Machine Co. Lumber sorting machine. 2,867,323, 1-6-59, Cl. 209-90.
- Cook, Harold E.,  $\frac{1}{2}$  to R. G. Schneyer. Cargo lift for a truck body. 2,900,099, 8-18-59, Cl. 214-674.
- Cook, Henry: See—
- Morley, Frederick W. W., and Cook. 2,916,875.
- Cook, Henry A., R. E. Fleming, and R. H. Heilman, to The Philip Carey Mfg. Co. Thermal insulation material and method of making the same. 2,884,380, 4-28-59, Cl. 252-62.
- Cook, Harry M., to E. I. du Pont de Nemours and Co. Spinneret. 2,891,278, 6-23-59, Cl. 18-8.
- Cook, Howard H., and G. W. Meyer, Jr. Water cooled electrode holders. 2,877,282, 3-10-59, Cl. 13-17.
- Cook, James A., Jr., to Westinghouse Air Brake Co. Electronic storage device. 2,914,750, 11-24-59, Cl. 340-173.
- Cook, James C. Display device. 2,870,557, 1-27-59, Cl. 40-39.
- Cook, John C., to United States of America, Army. Electrical crevasse detector. 2,885,633, 5-5-59, Cl. 324-1.
- Cook, John S., to Bell Telephone Laboratories, Inc. Coupled lines systems. 2,885,593, 5-5-59, Cl. 315-3.6.
- Cook, Leonard W., and H. A. Passarelli, Jr., to General Electric Co. Mercury button switch with resilient seal. 2,916,589, 12-8-59, Cl. 200-152.
- Cook, Leslie W.: See—
- Phillips, Harold P., and Cook. 2,869,200.
- Cook, Lloyd A., to Kaiser Aluminum & Chemical Corp. Aluminum to copper connection. 2,868,863, 1-13-59, Cl. 174-94.
- Cook, Lucien H., to Chemical Construction Corp. Recovery of carbon dioxide free ammonia in the production of urea. 2,894,878, 7-14-59, Cl. 202-40.
- Cook, Lyman B., to Acme Staple Co. Stapling machine. 2,905,941, 9-29-59, Cl. 1-3.
- Cook Machine Co.: See—
- Cook, Harold C. 2,867,323.
- Cook, Marion H., to Miles Laboratories, Inc. Composition of matter. 2,893,844, 7-7-59, Cl. 23-253.
- Cook, Maurice E. Service tray adapted for use in automobiles and in other relations. 2,897,974, 8-4-59, Cl. 211-74.
- Cook, Milton V. Exerciser and amusement device. 2,871,017, 1-27-59, Cl. 272-79.
- Cook, Nolan L. Fishhook release. 2,869,278, 1-20-59, Cl. 43-42.8.
- Cook, Paul R. Layout means for use in masonry construction. 2,904,891, 9-22-59, Cl. 33-111.
- Cook, Ralph L., and E. A. Andrew, to Olin Mathieson Chemical Corp. Method of preparing globular propellant powder. 2,888,713, 6-2-59, Cl. 18-47.2.
- Cook, Robert J. Two piece rigid leggings. 2,902,779, 9-8-59, Cl. 36-2.
- Cook, Robert W., to C. W. Fuelling, Inc. Method and apparatus for terminating and extending fluid transmission mains. 2,910,083, 10-27-59, Cl. 137-74.
- Cook, Robert W., and L. McBride, to Anthony Wayne Improvement Co. Pipe sealing apparatus and method. 2,894,539, 7-14-59, Cl. 138-97.
- Cook, Robert W., to C. W. Fuelling. Pipe joint-locating device. 2,896,155, 7-21-59, Cl. 324-34.
- Cook, Ross, Inc.: See—
- Cook, Ross, Capers, and Martens. 2,893,660.
- Cook, Ross, J. D. Capers, and A. Martens, to Ross Cook, Inc. Pneumatic transit tube system with remotely controlled transfer apparatus. 2,893,660, 7-7-59, Cl. 243-16.
- Cook, Vernon H. Transparency supporting and illuminating device. 2,902,787, 9-8-59, Cl. 40-152.2.
- Cook, Vernon L., and H. S. Knaack, to Em-Tec, Inc. Signalling system. 2,881,409, 4-7-59, Cl. 340-33.
- Cook-Walke Laboratories, Inc.: See—
- Reznek, Solomon. 2,895,473.
- Reznek, Solomon. 2,895,474.
- Cook, Walter L., and Boeing Airplane Co. Method and apparatus for hot riveting and similar metal forming operations. 2,909,651, 10-20-59, Cl. 219-152.
- Cook, Woodrow L., to United States of America, Navy. Porous area-suction flap for aircraft. 2,876,966, 3-10-59, Cl. 244-42.
- Cooke, Claude W., Jr., to Hughes Aircraft Co. Phase inverter. 2,903,525, 9-8-59, Cl. 179-171.
- Cooke, Harold G., Jr., to Devoe & Raynolds Co., Inc. Epoxide resins, etc. 2,893,978, 7-7-59, Cl. 260-47.
- Cooke, Harold G., Jr., and J. E. Masters, to Devoe & Raynolds Co., Inc. Reaction products of polyepoxides and monomeric partial esters of polyhydric alcohols with maleic anhydride-unsaturated organic acid adducts, and methods and compositions for producing the same. 2,909,496, 10-20-59, Cl. 260-22.
- Cooke, Harry L., to Radio Corp. of America. Time division multiplex system for signals of different bandwidth. 2,919,308, 12-29-59, Cl. 179-15.
- Cooke, Maurice D.: See—
- Bewley, Thomas, and Cooke. 2,906,676.
- Cooke, Robert J. Combination night lamp and transparency illuminator. 2,906,047, 9-29-59, Cl. 40-63.
- Cooke, William H., and J. W. C. Crawford, to United States of America, Atomic Energy Commission. Method for the reduction of uranium compounds. 2,886,429, 5-12-59, Cl. 75-84.1.
- Cookingham, Owen C.: See—
- Browne, Harold L., Cookingham, and Pendleton. 2,867,843.
- Cookman, Erlo B. Wire tie and method of securing the same to a wire fence or the like. 2,907,553, 10-6-59, Cl. 256-57.
- Cooksley, Ralph D. Charcoaler. 2,874,631, 2-24-59, Cl. 99-400.
- Cooksley, Ralph D., to General Gas Light Co. Flow regulator. 2,884,223, 4-28-59, Cl. 251-274.
- Cooksley, Ralph D., to General Gas Light Co. Valve structure. 2,912,006, 11-10-59, Cl. 137-620.
- Cooksley, Ralph D., to General Gas Light Co. Remotely controllable, valve operating device. 2,912,009, 11-10-59, Cl. 137-623.
- Cookson, William,  $\frac{1}{2}$  to J. C. Fredenburg-Inglesby. Roofing and siding sheets. 2,873,699, 2-17-59, Cl. 108-22.
- Cookston, Jack W., to Nova Beaucage Mines Ltd. (N.P.L.) Method of separating metals from ores and concentrates. 2,905,545, 9-22-59, Cl. 75-1.
- Cool, Kenneth A.: See—
- Taylor, Samuel K., and Cool. 2,868,612.
- Cooley, Austin G., to Digital Control Systems, Inc. Automatic phasing control for facsimile recorders and the like. 2,907,826, 10-6-59, Cl. 178-69.5.
- Cooley, Austin G., to Digital Control Systems, Inc. High speed facsimile transmission systems. 2,894,054, 7-7-59, Cl. 178-6.6.
- Cooley, Glenn C.: See—
- Facer, Leroy H. 2,867,522.
- Cooley, Stone D.: See—
- Suter, Hans A., and Cooley. 2,903,465.
- Cooley, Stone D., and F. B. Marcotte, to Celanese Corp. of America. 1,2-dichloroethane. 2,870,225, 1-20-59, Cl. 260-662.
- Cooldidge, John E., Jr., and H. W. Grossen, to Borg-Warner Corp. Electrical precipitator. 2,900,042, 8-18-59, Cl. 183-7.
- Coomes, Edward A., and F. E. Gifford, to University of Notre Dame Du Lac. Thermionic emitter and method of making same. 2,892,740, 6-30-59, Cl. 148-1.6.
- Coon, Allen B., Jr. Camping apparatus for station wagons. 2,867,471, 1-6-59, Cl. 296-23.
- Coon, Kenneth C., M. J. Harpole, and E. R. Van Krevelen, to General Mills, Inc. Rate of climb tester. 2,893,236, 7-7-59, Cl. 73-4.
- Coon, Lowell G.: See—
- Carmichael, Robert, and Coon. 2,885,517.
- Cooney, Edward J., to Inland Steel Co. Tongue bender. 2,890,735, 6-16-59, Cl. 153-39.
- Cooney, George R., to United States of America, Navy. Rotary joint. 2,896,173, 7-21-59, Cl. 333-7.
- Cooney, James S., to Pylon Co., Inc. Rod joint. 2,896,981, 7-28-59, Cl. 287-20.5.
- Coonrad, Harry L.: See—
- Ciapetta, Frank G., Coonrad, and Garwood. 2,885,352.
- Coons, Burton C. and W. B. Fruit feeding, end trimming, halving and knock-off mechanism. 2,901,014, 8-25-59, Cl. 146-72.



- Coons, Curtis C., to The Hoover Co. Suction control in surface cleaning tool. 2,894,274, 7-14-59, Cl. 15—421.
- Coons, Frank P., to Johnson & Johnson. Dispensing package. 2,876,892, 3-10-59, Cl. 206—52.
- Coons, Willard B.: *See—*
- Coons, Burton C. and W. B. 2,901,014.
- Cooper, Alfred, and L. B. MacQueen, to Expanded Rubber Co. Ltd. Manufacture of cellular material from bitumen and styrene. 2,888,407, 5-26-59, Cl. 260—2.5.
- Cooper Alloy Corp.: *See—*
- Kretz, Herman C. 2,913,337.
- Mott, Norman S. 2,868,638.
- Cooper, Benjamin. Automatic toll collection system. 2,908,895, 10-13-59, Cl. 340—213.
- Cooper, Benjamin. Treadle switch. 2,909,628, 10-20-59, Cl. 200—86.
- Cooper-Bessemer Corp., The: *See—*
- Crooks, William R. 2,897,804.
- Miller, Carl D. 2,918,826.
- Cooper, Bruce L., and J. Lund, to D. S. Plugs Ltd. Pins of electric plug and socket joints. 2,878,339, 3-17-59, Cl. 200—113.
- Cooper, Charles M., to United States of America, Atomic Energy Commission. Means for terminating nuclear reactions. 2,874,109, 2-17-59, Cl. 204—193.2.
- Cooper, Charles W., to National Clay Pipe Manufacturers, Inc. Pipe sealing material. 2,889,582, 6-9-59, Cl. 18—59.
- Cooper, Cleveland N., and A. I. Frederick, to The Pandjiris Weldment Co. Welding apparatus. 2,871,334, 1-27-59, Cl. 219—130.
- Cooper, Curtis M. Automatic meter reading system. 2,870,258, 1-20-59, Cl. 179—2.
- Cooper, David Y.: *See—*
- Brown, Elwyn S., Cooper, Elam, and Johns. 2,887,105.
- Cooper, Dexter P., Jr., to Polaroid Corp. Electric lamp. 2,909,696, 10-20-59, Cl. 313—221.
- Cooper, Donald E., to Titanium Metals Corp. of America. Melting refractory metals. 2,890,109, 6-9-59, Cl. 75—10.
- Cooper, Donald E., and E. D. Dilling, to Titanium Metals Corp. of America. Method for controlling arc length. 2,904,718, 9-15-59, Cl. 314—73.
- Cooper, Elmer J., and H. J. Peppler, to Red Star Yeast and Products Co. Yeast extraction. 2,904,439, 9-15-59, Cl. 99—97.
- Cooper, Glenn D.: *See—*
- Gilbert, Alfred R., and Cooper. 2,902,506.
- Cooper, Guy R., and R. Tomlin, to D. Gordon. Carpenter's tool. 2,896,910, 7-28-59, Cl. 254—131.
- Cooper, Harry D., to Ethyl Corp. Preparation of aryloxy-aliphatic acid substances. 2,914,558, 11-24-59, Cl. 260—521.
- Cooper, Howard G., Jr., and M. E. Hines, to Bell Telephone Laboratories, Inc. Electron lens systems. 2,884,559, 4-28-59, Cl. 315—14.
- Cooper, Hugh S., and J. C. Schaefer, to W. M. Weil. Production of boron by fused salt bath electrolysis. 2,918,417, 12-22-59, Cl. 204—60.
- Cooper, Hugh S., J. C. Schaefer, and E. C. Schmidt, to W. M. Weil. Recovery of manganese from metallurgical slags, dusts and ores. 2,877,110, 3-10-59, Cl. 75—111.
- Cooper, Jack, and J. J. Windheuser, to Ciba Pharmaceutical Products, Inc. Prolonged action tablets. 2,887,438, 5-19-59, Cl. 167—82.
- Cooper, Jack H., and T. Freistat, to Great Western Heel Co., Inc. Cast aluminum heel with plastic filler. 2,871,583, 2-3-59, Cl. 36—40.
- Cooper, Jacob L., K. R. Daniel, and J. C. Lowery, to American Cast Iron Pipe Co. Hold-down device for machines for rotating cylindrical articles. 2,913,784, 11-24-59, Cl. 22—65.
- Cooper, Jacob L., K. R. Daniel, J. O. Patton, Jr., and E. Vandergrift, Jr., to American Cast Iron Pipe Co. Apparatus for stripping tubular castings from molds and cleaning the castings. 2,870,496, 1-27-59, Cl. 22—65.
- Cooper, James. Four-wheel bogies for rail cars and the like. 2,892,420, 6-30-59, Cl. 105—194.
- Cooper, James, to Hall & McChesney, Inc. Looseleaf binder. 2,906,268, 9-29-59, Cl. 129—23.
- Cooper, James M., and R. E. Bartholomew, to General Electric Co. Automatic and manual control apparatus for aircraft. 2,890,844, 6-16-59, Cl. 244—77.
- Cooper, John C., and R. W. Hagmann, to Radio Corp. of America. Electron beam convergence apparatus. 2,875,374, 2-24-59, Cl. 315—13.
- Cooper, John E. Adapter means for dental motor controls. 2,871,722, 2-3-59, Cl. 74—562.
- Cooper, John G. Cartons. 2,875,943, 3-3-59, Cl. 229—39.
- Cooper, John R. Sealed beam headlight. 2,891,186, 6-16-59, Cl. 313—113.1.
- Cooper, Joseph F., Jr.: *See—*
- Swanstrom, John E., Connell, Cooper, and Swanson. 2,869,409.
- Cooper, Joseph H., to E. I. du Pont de Nemours and Co. Production of phthalocyanine pigments. 2,908,690, 10-13-59, Cl. 260—314.5.
- Cooper, Joseph H., to The Taylor-Winfield Corp. Narrow lap seam welder. 2,911,515, 11-3-59, Cl. 219—79.
- Cooper, Morris. Remote control rear view mirror. 2,903,944, 9-15-59, Cl. 88—93.
- Cooper, Murray S.: *See—*
- Wagner, Alan R., and Cooper. 2,893,392.
- Cooper, Orin N. Tub overflow. 2,884,650, 5-5-59, Cl. 4—206.
- Cooper, Orin N. Rinse wringer construction. 2,887,863, 5-26-59, Cl. 68—22.
- Cooper, Paul W., and J. F. O'Brien. Transistorized radio receiver. 2,873,339, 2-10-59, Cl. 250—20.
- Cooper, Ray D. Book storage apparatus. 2,872,048, 2-3-59, Cl. 211—143.
- Cooper, Robert H., to United States of America, Navy. Pneumatic film transport. 2,892,379, 6-30-59, Cl. 88—18.
- Cooper, Robert H., and K. L. Godfrey, to Monsanto Chemical Co. Composition containing benzothiazyl disulfide dispersed in a mineral oil. 2,918,512, 12-22-59, Cl. 260—785.
- Cooper, Robert H., and K. L. Godfrey, to Monsanto Chemical Co. Dispersible aryl thiazyl sulfides having admixed therewith a mineral oil and a fatty acid ester. 2,918,513, 12-22-59, Cl. 260—785.
- Cooper, Robert L. Surgical retractor apparatus. 2,893,378, 7-7-59, Cl. 128—20.
- Cooper, Robert S.: *See—*
- Toy, Arthur D. F., and Cooper. 2,867,547.
- Toy, Arthur D. F., and Cooper. 2,867,610.
- Toy, Arthur D. F., Cooper, and Traise. 2,867,548.
- Cooper, Ronald H., to The Dow Chemical Co. Auto-hardening phenol-formaldehyde composition and method of preparing shell molds therefrom. 2,869,194, 1-20-59, Cl. 22—193.
- Cooper, Ronald H., to The Dow Chemical Co. Oil well treatment. 2,900,027, 8-18-59, Cl. 166—33.
- Cooper, Ronald H., to The Dow Chemical Co. Shell mold composition and method of making same. 2,913,787, 11-24-59, Cl. 22—193.
- Cooper, Ronald H., and G. M. Corbett, to The Dow Chemical Co. Composition comprising sand, phenolic resin and anhydrous sodium carbonate, method of making and refractory article produced. 2,869,191, 1-20-59, Cl. 22—147.
- Cooper, Ronald H., and J. A. Kelly, to The Dow Chemical Co. Shell molding composition containing fatty alkylol amide condensate, inert filler and a phenolic resin and method of making mold. 2,869,195, 1-20-59, Cl. 22—193.
- Cooper, Ronald H., and G. M. Corbett, to The Dow Chemical Co. Refractory composition containing slag, sand, and magnesium oxide, and aqueous phenolic resin, method of making and product obtained. 2,869,196, 1-20-59, Cl. 22—193.
- Cooper, Ronald H., and L. C. Johnson, to The Dow Chemical Co. Porous composition containing a phenol-aldehyde resin, method of preparation, and article fabricated therefrom. 2,870,110, 1-20-59, Cl. 260—29.3.
- Cooper, Roy L., to Waterman Engineering Corp. Intake heater. 2,886,688, 5-12-59, Cl. 219—38.
- Cooper, Roy L., to Waterman Engineering Corp. Pitching machine. 2,908,266, 10-13-59, Cl. 124—6.
- Cooper, Theodore D., to United States of America, Army. System and method for measuring the deviation factor of wave forms. 2,913,663, 11-17-59, Cl. 324—77.
- Cooper, Thomas A., and R. A. Woodle, to The Texas Co. Adsorption process. 2,886,522, 5-12-59, Cl. 208—310.
- Cooper, Victor J., to Marconi's Wireless Telegraph Co. Ltd. Phase-amplitude characteristic correction circuit arrangements. 2,890,294, 6-9-59, Cl. 179—171.
- Cooper, Virgil K., ½ to E. L. Weber. Self-wringing mop. 2,869,161, 1-20-59, Cl. 15—119.
- Cooper, Wayne E., and W. C. Poupirt, to Phillips Petroleum Co. Transfer of solids. 2,886,210, 5-12-59, Cl. 222—1.
- Cooper, Wayne E., and W. R. Eddy, to Phillips Petroleum Co. Apparatus for handling finely divided solids in liquid. 2,878,949, 3-24-59, Cl. 214—17.
- Cooper, Wayne M.: *See—*
- Hillwick, Stanley L., and Cooper. 2,898,008.
- Cooper, William F.: *See—*
- Monroe, Wilfred E., and Cooper. 2,918,862.
- Cooper, William H., to International Telephone and Telegraph Corp. Crystal contact device. 2,891,201, 6-16-59, Cl. 317—236.
- Coöperatieve Verkoop-en Productievereniging van Aardappelmeel en Derivatem "Avebe" G.A.: *See—*
- Hiemstra, Pieter, and Muetgeert. 2,902,336.
- Cooperman, Michael: *See—*
- Sonnenfeldt, Richard W., Grundmann, and Cooperman. 2,899,491.
- Cooperman, Michael, and G. L. Grundmann, to Radio Corp. of America. Magnetic two-angle demodulator. 2,899,492, 8-11-59, Cl. 178—5.4.
- Coopers Mechanical Joints Ltd.: *See—*
- Streete, Charles M. 2,886,129.
- Coopersmith, John M., K. C. Peterson, and M. Sutton, to Standard Oil Co. Polyisobutylene production. 2,918,508, 12-22-59, Cl. 260—683.15.
- Coopridge, Rex C., to The Drackett Co. Dispenser pump. 2,889,964, 6-9-59, Cl. 222—321.
- Coors, Adolph, Co.: *See—*
- Buck, Cecil S. 2,917,882.
- Coover, Delos G. A. Irrigation pipe coupling. 2,910,996, 11-3-59, Cl. 137—107.
- Coover, Harry W., Jr.: *See—*
- Guillet, James E., and Coover. 2,870,131.
- Guillet, James E., and Coover. 2,891,936.
- McCall, Marvin A., and Coover. 2,908,707.
- McConnell, Richard L., and Coover. 2,875,231.
- McConnell, Richard L., and Coover. 2,875,232.
- McConnell, Richard L., and Coover. 2,912,450.
- Shearer, Newton H., Jr., and Coover. 2,887,471.
- Tamblyn, John W., and Coover. 2,912,411.



- Coover, Harry W., Jr., and W. C. Wooten, Jr., to Eastman Kodak Co. Stabilized lower fatty acid esters of cellulose. 2,917,398, 12-15-59, Cl. 106-169.
- Coover, Harry W., Jr., to Eastman Kodak Co. Copolymerization of acrylonitrile, and another unsaturated monomer, in the presence of preformed homopolymers and products obtained thereby. 2,879,253, 3-24-59, Cl. 260-45.5.
- Coover, Harry W., Jr., to Eastman Kodak Co. N-dialkylaminoalkyl acrylamide and methacrylamide modified polyacrylonitriles and process for preparing same. 2,879,255, 3-24-59, Cl. 260-45.5.
- Coover, Harry W., Jr., to Eastman Kodak Co. Polymerization of vinyl chloride or vinylidene chloride in the presence of isolated polymers. 2,899,405, 8-11-59, Cl. 260-45.5.
- Coover, Harry W., Jr., and M. A. McCall, to Eastman Kodak Co. Preparation of neutral mixed phosphates from trialkyl phosphates and carboxylic acid esters. 2,875,229, 2-24-59, Cl. 260-461.
- Coover, Harry W., Jr., and R. L. McConnell, to Eastman Co. Preparation of neutral mixed phosphates from trialkyl phosphates and alcohols. 2,875,230, 2-24-59, Cl. 260-461.
- Coover, Harry W., Jr., and J. R. Caldwell, to Eastman Kodak Co. Copolymerization of acrylonitrile and another monomer in the presence of preformed polymers and products obtained thereby. 2,879,254, 3-24-59, Cl. 260-45.5.
- Coover, Harry W., Jr., and W. C. Wooten, Jr., to Eastman Kodak Co. Composition comprising copolymers of methyl methacrylate and  $\alpha$ -methylstyrene with polymers of acrylic esters. 2,887,464, 5-19-59, Cl. 260-45.5.
- Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Graft copolymers containing at least three components including acrylonitrile and a vinyl pyridine. 2,882,290, 4-14-59, Cl. 260-45.5.
- Coover, Harry W., Jr., and D. J. Shields, to Eastman Kodak Co. Polymerization process for preparing modified acrylonitrile polymers. 2,883,360, 4-21-59, Cl. 260-45.5.
- Coover, Harry W., Jr., and R. L. McConnell, to Eastman Kodak Co. Derivatives of 2,2-dimethyl-1,3-propanediol cyclic hydrogen phosphite. 2,899,455, 8-11-59, Cl. 260-461.
- Coover, Richard E., to K. Kusser. Brush holder for waxing and polishing machines. 2,898,616, 8-11-59, Cl. 15-49.
- Copas, James I. Traveling seal and paraffin scraper device. 2,893,493, 7-7-59, Cl. 166-170.
- Copco Trailer Division, a division of Copco Steel & Engineering Co.: See—
- Tenenbaum, Paul. 2,867,450.
- Cope, Appleton D., to Radio Corp. of America. Photoconductive device. 2,875,359, 2-24-59, Cl. 313-65.
- Cope, Appleton D., to Radio Corp. of America. Photoconductive type pickup tubes. 2,900,569, 8-18-59, Cl. 313-65.
- Cope, Arthur C. Production and recovery of furans. 2,917,520, 12-15-59, Cl. 260-347.8.
- Cope, Geoffrey W., to Symington Wayne Corp. Transition coupling. 2,907,475, 10-6-59, Cl. 213-112.
- Cope, F. Troy, and A. H. Vaughan, to The Electric Furnace Co. Muffle type furnace with movable sectional furnace shell. 2,885,197, 5-5-59, Cl. 263-41.
- Cope, John E., P. A. Segrave, and D. H. Fisher, to Pye Ltd. Television receivers. 2,875,277, 2-24-59, Cl. 178-7.3.
- Cope, Parker R., to Bendix Aviation Corp. Amplitude selective translation circuit. 2,878,326, 3-17-59, Cl. 197-171.
- Copeland, Jacob C. Reflecting and magnifying viewer. 2,883,908, 4-28-59, Cl. 88-29.
- Copeland, Paul L.: See—
- De Lany, Beatrice P., and Copeland. 2,902,618.
- Copeland Refrigeration Corp.: See—
- Buschmann, Oskar H. 2,898,072.
- Copeland, Robert D. Impeller pump, seal and wear ring. 2,869,471, 1-20-59, Cl. 103-111.
- Copeland, William M., and R. W. Mazzacane, to General Electric Co. Electric fan heater. 2,904,317, 9-15-59, Cl. 257-306.
- Copelin, Harry B., to E. I. du Pont de Nemours and Co. Stabilization of chlorinated hydrocarbons. 2,904,600, 9-15-59, Cl. 260-652.5.
- Copell, Daniel K. Mouthpiece. 2,883,991, 4-28-59, Cl. 131-207.
- Copen, Edward H. Method of making a multi-card carrier. 2,871,153, 1-27-59, Cl. 154-116.
- Copenhaver, John W.: See—
- Kwiatek, Jack, and Copenhaver. 2,882,313.
- Copenhaver, John W., to General Aniline & Film Corp. Polyalkoxyacetals or polyalkoxy ketals and the sulfur analogues. 2,912,468, 11-10-59, Cl. 260-609.
- Copenhaver, John W., and C. W. Weber, to The M. W. Kellogg Co. Production of organic phosphonyl halide. 2,882,305, 4-14-59, Cl. 260-543.
- Copenhaver, John W., and C. W. Weber, to The M. W. Kellogg Co. Production of organophosphorus compounds. 2,882,307, 4-14-59, Cl. 260-543.
- Copenhaver, John W., and J. Kwiatek, to The M. W. Kellogg Co. Production of organic phosphonyl halide. 2,882,310, 4-14-59, Cl. 260-543.
- Copenhaver, William G.: See—
- Spann, Edwin C., and Copenhaver. 2,881,118.
- Copenhaver, William G., to Phillips Petroleum Co. Apparatus for hydrolysis of aluminum chloride. 2,905,537, 9-22-59, Cl. 23-283.
- Copenhaver, John B., to Brown-Forman Distillers Corp. Film hanger. 2,889,759, 6-9-59, Cl. 95-100.
- Copes, Joseph P.: See—
- Mayhew, Raymond L., Copes, and Williams. 2,898,301.
- Coplan, Eli B. Saug fitting cover for a toilet seat lid. 2,910,705, 11-3-59, Cl. 4-242.
- Copland, George V.: See—
- Pyle, Edwin C., Northington, and Copland. 2,884,231.
- Copley, Harry, Jr.: See—
- Fain, Morton E., and Copley. 2,874,845.
- Copp, Belton A.: See—
- Schellens, Christopher A., and Copp. 2,908,515.
- Copp, Frederick C., to Burroughs Wellcome & Co. (U.S.A.) Inc. Treatment of nematodes with quaternary ammonium compounds. 2,918,401, 12-22-59, Cl. 167-30.
- Copp, Kenneth W.: See—
- Baden, Thomas A., Olson, Miller, and Copp. 2,907,406.
- Copp, Kenneth W., and L. J. Olson, to Donaldson Co., Inc. Air cleaner. 2,889,008, 6-2-59, Cl. 183-81.
- Coppin, Kenneth J., to E. K. Cole, Ltd. Digital motor position control system. 2,884,577, 4-28-59, Cl. 318-29.
- Copping, Bruce G., to Atkron, Inc. Four flap case opener. 2,915,868, 12-8-59, Cl. 52-381.
- Copping, Bruce G., to Atkron, Inc. Method of and apparatus for sorting articles such as cans. 2,916,133, 12-8-59, Cl. 198-30.
- Copping, Geoffrey P., T. R. Myers, and G. H. Smith, to Her Majesty's Postmaster General. Segregating apparatus. 2,895,610, 7-21-59, Cl. 209-98.
- Coppinger, Galvin M.: See—
- Breier, Irwin L., and Coppinger. 2,874,100.
- Coppock, Harold N., to General Motors Corp. Electric switch. 2,892,908, 6-30-59, Cl. 200-67.
- Coppola, Patrick P., to North American Philips Co., Inc. Thermionic dispenser cathode. 2,899,592, 8-11-59, Cl. 313-346.
- Coppola, Richard J. Self seal-in A.C. operated relay. 2,890,393, 6-9-59, Cl. 317-156.
- Coppola, Richard J. Polarized A.C. operated relay. 2,913,639, 11-17-59, Cl. 317-156.
- Coquelet, Jules H., to Ateliers de Constructions Electriques de Charleroi. Generators for producing pulses of alternating current. 2,867,798, 1-6-59, Cl. 340-359.
- Corair, George R., and W. Z. Heldt, to E. I. du Pont de Nemours and Co. Process for the addition of HCN across the carbon to carbon double bond of an activated olefin. 2,904,581, 9-15-59, Cl. 260-465.4.
- Corbe, Israel. Pocket fasteners and pockets. 2,884,979, 5-5-59, Cl. 150-35.
- Corbeels, Theophile, and R. N. Marshall, to Western Electric Co., Inc. Apparatus for swaging flanges on tubular members. 2,877,675, 3-17-59, Cl. 78-17.
- Corbeil, George S.: See—
- Anderson, Carl E., and Corbeil. 2,916,550.
- Corben, Leo D., and E. A. Steigmann, to General Foods Corp. Photographic gelatin and process of producing same. 2,890,215, 6-9-59, Cl. 260-117.
- Corbett, Gerald M.: See—
- Cooper, Ronald H., and Corbett. 2,869,191.
- Cooper, Ronald H., and Corbett. 2,869,196.
- Corbett, Harold, to Package Machinery Co. Apparatus for plasticizing a solid particulate material for extruding or molding. 2,887,719, 5-26-59, Cl. 18-12.
- Corbett, John M.: See—
- Gordon, David A., and Corbett. 2,914,555.
- Corbett, Robert B., and W. J. O'Connor, to Arcweld Mfg. Co. Rotary heating device. 2,878,007, 3-17-59, Cl. 266-2.
- Corbin, Armand. Mobile lifting and conveying apparatus. 2,899,088, 8-11-59, Cl. 214-75.
- Corbin, Douglas T. Tire chain applying tool with position signaling means. 2,868,052, 1-13-59, Cl. 81-15.8.
- Corbin, Russel G., to General Motors Corp. Vehicle tail gate latch. 2,911,247, 11-3-59, Cl. 292-48.
- Corbin, Wesley S.: See—
- Wisner, Isle R., Corbin and Walden. 2,870,691.
- Wisner, Isle R., Corbin, and Walden. 2,870,692.
- Corbin, Wesley S., C. M. Pearson, and H. Walden, to The Black-Clawson Co. Head box for paper making machines. 2,870,690, 1-27-59, Cl. 92-44.
- Corbin, Wesley S., and H. Walden, to The Black-Clawson Co. Broke removal unit for paper machinery. 2,888,073, 5-26-59, Cl. 162-255.
- Corbin, William A. Box kite. 2,873,077, 2-10-59, Cl. 244-153.
- Corbitt, Howard E., R. M. Hill, Jr., and D. H. Bozarth, to Aerojet-General Corp. Electrical device. 2,870,287, 1-20-59, Cl. 200-87.
- Corby, John C., Jr., and D. C. Trimble, to E. I. du Pont de Nemours and Co. Mixer. 2,868,518, 1-13-59, Cl. 259-8.
- Corcoran, James T.: See—
- Peterson, Kenneth C., and Corcoran. 2,905,708.
- Corcoran, James T., and K. C. Peterson, to Standard Oil Co. Purification of dimethylterephthalate. 2,875,237, 2-24-59, Cl. 260-475.
- Corcoran, Laurence E. Hand or foot carried pulsating massaging device. 2,880,721, 4-7-59, Cl. 128-39.
- Corcoran, Leonard J. Transparent hot and cold insulating unit. 2,918,709, 12-29-59, Cl. 20-53.
- Cordell, E. F. Low pressure tire indicator. 2,882,363, 4-14-59, Cl. 200-61.26.
- Corderman, Sidney A., to McIntosh Laboratory, Inc. Amplifier. 2,886,655, 5-12-59, Cl. 179-171.



- Cordero, Fidel, to United States of America, Commerce. Non-linear sensitive diaphragm. 2,913,008, 11-17-59, Cl. 137-793.
- Cordingly, Virginia: *See*—  
Stoddart, Hugh F., Cordingly, and Voutselas. 2,880,379.
- Cordis, Nat. Tube flexing pump. 2,897,767, 8-4-59, Cl. 103-149.
- Cordis, Nat. Straight line tape-type poultry feeder. 2,897,954, 8-4-59, Cl. 198-181.
- Cordis, Nat. Chick-viewing, heat-conserving hover. 2,909,152, 10-20-59, Cl. 119-31.
- Cordon, Theone C.: *See*—  
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- Córdoba, José J. Apparatus for oxygenating, centrifuging and changing the temperature of blood. 2,876,769, 3-10-59, Cl. 128-214.
- Cordrey, Richard N., to The National Supply Co. Separable housing for drilling rigs and clutch mechanisms. 2,891,768, 6-23-59, Cl. 254-187.
- Cordry, David D., to The Trane Co. Refrigeration load calculator. 2,869,787, 1-20-59, Cl. 235-61.
- Corduroy Rubber Co.: *See*—  
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- Core Laboratories, Inc.: *See*—  
Kelton, Frank C. 2,874,565.
- Corey, Flournoy. Poultry processing equipment. 2,872,699, 2-10-59, Cl. 17-11.1.
- Corey, Flournoy and F. C., and R. D. Pitts, to Pickwick Co. Poultry processing equipment. 2,869,172, 1-20-59, Cl. 17-11.1.
- Corey, Frank J., to Raytheon Mfg. Co. Lead-in bushings. 2,868,866, 1-13-59, Cl. 174-153.
- Corey, Frank J., to Raytheon Mfg. Co. Lead-in bushings. 2,868,868, 1-13-59, Cl. 174-153.
- Corey, Frederick C.: *See*—  
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- Pitts, Robert D., and Corey. 2,896,249.
- Corey, Ronald D. Incinerator. 2,883,947, 4-28-59, Cl. 110-18.
- Corhanidis, Sebastian S. Refrigerating means. 2,872,792, 2-10-59, Cl. 62-419.
- Corhanidis, Sebastian S. Detachable refrigerating unit. 2,914,927, 12-1-59, Cl. 62-429.
- Cork, Edward C.: *See*—  
Charman, Frederick J. H., and Cork. 2,887,682.
- Cork, Gordon H.: *See*—  
Hafner, William J. and Cork. 2,900,146.
- Walker, James R. 2,881,402.
- Corkum, Howard D., to The American Thread Co. Impregnated synthetic fiber sewing thread and method of making same. 2,870,045, 1-20-59, Cl. 117-138.8.
- Corkum, Howard D., to The American Thread Co. Sewing thread and method of treating. 2,888,365, 5-26-59, Cl. 117-76.
- Corl, John L., and J. F. Gordon, to Beckman Instruments, Inc. Direct reading frequency measuring device. 2,900,601, 8-18-59, Cl. 324-79.
- Corlet, Gabriel F., to Societe d'Application des Gaz, Produits Routiers et Matériaux. Stoves and like apparatus using liquefied gas. 2,890,815, 6-16-59, Cl. 222-5.
- Corley, Buren L. Hip boot with hand receiving pocket structure. 2,908,982, 10-20-59, Cl. 36-1.
- Corley, Charles B., Jr.: *See*—  
Tausch, Gilbert H., Corley, and Kenneday. 2,888,080.
- Tausch, Gilbert H., Corley, and Kenneday. 2,894,588.
- Corley, Charles B., Jr., and J. W. Kenneday, to Jersey Production Research Co. Permanent well completion apparatus. 2,906,343, 9-29-59, Cl. 166-115.
- Corley, John T., Jr. Cellar pipe. 2,919,072, 12-29-59, Cl. 239-280.
- Corman, Julian, to Grain Processing Corp. Microbiological fermentation process. 2,910,410, 10-27-59, Cl. 195-81.
- Cormia, Keith C., to General Electric Co. Electron discharge device assembly apparatus. 2,907,367, 10-6-59, Cl. 153-21.
- Cormier, Alban B. Safety device for electric wall sockets. 2,878,456, 3-17-59, Cl. 339-44.
- Cormier, Barbara C.: *See*—  
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- Cormier, Ulysses J. Clothes rack. 2,916,160, 12-8-59, Cl. 211-105.
- Corn Products Co.: *See*—  
Heyns, Kurt F. 2,884,411.
- Hobbs, Kenneth C. 2,884,347.
- Kerr, Ralph W. 2,903,391.
- Kerr, Ralph W., and Cleveland. 2,884,413.
- Korth, John A. 2,884,346.
- Landwerlen, Richard G., and Vahlteich. 2,909,437.
- Melnick, Daniel, Perry, and Akerboom. 2,910,367.
- Melnick, Daniel, Perry, and Akerboom. 2,910,368.
- Morris, Leo, and Wilson. 2,882,265.
- Paschall, Eugene F. 2,876,217.
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- Paschall, Eugene F. 2,914,526.
- Paschall, Eugene F., and Katzbeck. 2,891,947.
- Wilson, Alexander L. 2,899,307.
- Corn Products Refining Co.: *See*—  
Gogek, Charles J. 2,875,073.
- Minkema, William H. 2,868,780.
- Schoch, Thomas J., and Spencer. 2,876,160.
- Watson, Stanley A., and Williams. 2,868,778.
- Cornell, Ernest R. Flexible tube fluid measuring and controlling device. 2,898,859, 8-11-59, Cl. 103-37.
- Cornell, Hampton G.: *See*—  
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- Cornellson, Boyd, to Texas Instruments Inc. Method for producing single-crystal semiconductor material. 2,907,715, 10-6-59, Cl. 252-62.3.
- Cornellson, Boyd, to Texas Instruments Inc. Point contact semiconductor device. 2,919,387, 12-29-59, Cl. 317-235.
- Cornelius, Edward B., and F. W. Kirsch, to Houdry Process Corp. Process for the manufacture of alumina supports for catalysts and of such catalysts. 2,887,455, 5-19-59, Cl. 252-466.
- Cornelius, Gail, to R. M. Wade & Co. Self locking latch means for pipe line couplers. 2,879,082, 3-24-59, Cl. 285-6.
- Cornelius, George W., to Holley Carburetor Co. Fuel shut-off apparatus. 2,868,182, 1-13-59, Cl. 123-97.
- Cornelius, George W. Device for teaching basic arithmetic. 2,875,529, 3-3-59, Cl. 35-32.
- Cornelius, George W., to Holley Carburetor Co. Apparatus for controlling the admission of fuel and air to an internal combustion engine. 2,877,998, 3-17-59, Cl. 261-41.
- Cornelius, George W., to Holley Carburetor Co. Fuel shut-off apparatus. 2,879,756, 3-31-59, Cl. 123-97.
- Cornelius, George W., to Holley Carburetor Co. Exhaust gas purifying apparatus. 2,880,079, 3-31-59, Cl. 23-288.
- Cornelius, Richard T. Beverage cooler and dispenser. 2,871,675, 2-3-59, Cl. 62-258.
- Cornelius, Richard T. Beverage mixing and dispensing devices. 2,879,801, 3-31-59, Cl. 137-636.2.
- Cornelius, Richard T. Wobble pumps. 2,887,059, 5-19-59, Cl. 103-5.
- Cornelius, Richard T. Liquid dispensing apparatus. 2,899,170, 8-11-59, Cl. 251-122.
- Corneliusson, Karl G. E., L. R. Damm, N. D. Landqvist, B. G. Linnarson, and N. G. Svansson, to Rydboholms Aktiebolag. Method and means in looms for holding the weft end of a bobbin to be introduced into the shuttle. 2,892,470, 6-30-59, Cl. 139-257.
- Cornell Aeronautical Laboratory, Inc.: *See*—  
Glick, Herbert S., Hertzberg, Squire, and Weatherston. 2,902,337.
- Cornell, Arthur A., J. V. Dunbar, and J. H. Ruffner, to United States of America, Atomic Energy Commission. Welding method. 2,906,852, 9-29-59, Cl. 219-61.
- Cornell-Dubilier Electric Corp.: *See*—  
Davidson, Ronald. 2,873,304.
- Dubilier, William. 2,884,605.
- Dubilier, William. 2,910,764.
- Dubilier, William. 2,913,647.
- Dubilier, William, Rossi, and M. H. Dubilier. 2,881,372.
- Frekko, Eugene F. 2,893,410.
- Frekko, Eugene F. 2,908,886.
- Steinbarger, Wayne L. 2,871,416.
- Cornell, Dudley E., III. Gear change indicator. 2,879,940, 3-31-59, Cl. 235-103.5.
- Cornell, Edward S., Jr., to Burndy Corp. Multiple connector. 2,903,668, 9-8-59, Cl. 339-63.
- Cornell, George W., 1/2 to W. E. Cornell, Jr. Mail or like box. 2,873,062, 2-10-59, Cl. 232-17.
- Cornell, Mead, to Griffin, Cornell Co. Apparatus for homogenizing and degasifying flowable materials. 2,908,346, 10-13-59, Cl. 183-2.5.
- Cornell, Merrill E.: *See*—  
Oswald, Robert L., and Cornell. 2,902,594.
- Cornell Paperboard Products Co.: *See*—  
Schwebs, Robert K. 2,911,775.
- Wenzel, Frederick A. 2,890,791.
- Cornell Research Foundation, Inc.: *See*—  
Cornell, Suzanne H.: *See*—  
Herrick, Gerard P. 2,879,013.
- Maisel, Bernard. 2,897,029.
- Cornell Valve Corp.: *See*—  
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- Cornell, W. Elder, Jr.: *See*—  
Cornell, George W. 2,873,062.
- Cornell, Walter, and S. A. Shepherd, to The General Electric Co. Ltd. Structures for mounting electrical components. 2,898,517, 8-4-59, Cl. 317-101.
- Cornett, Boyd D. Cleaning and polishing machine. 2,907,059, 10-6-59, Cl. 15-21.
- Cornett, John F. Gun light. 2,912,566, 11-10-59, Cl. 240-64.1.
- Cornett, Ray H.: *See*—  
Liccini, Luke L., and Cornett. 2,885,890.
- Cornfield, Albert E., and L. B. Witten, to The British Petroleum Co. Ltd. Catalyst regeneration. 2,904,519, 9-15-59, Cl. 252-420.
- Cornillaud, Jack T., to General Motors Corp. Brake adjusting device. 2,918,146, 12-22-59, Cl. 188-78.
- Corning Glass Works: *See*—  
Argyle, Leroy C. 2,902,002.
- Bickford, Fred A., and Smith. 2,887,394.
- Blanding, Wendell S., and Zimar. 2,880,697.
- Bossard, Albert G. 2,919,209.
- Claussen, Walter F. 2,893,895.
- Claypoole, Stewart A. 2,889,952.
- Davis, James K. 2,915,730.
- Dorman, William H. 2,886,698.
- Foster, Laurence H. 2,889,962.



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Guyer, Edwin M. 2,902,573.  
 Guyer, Edwin M. 2,902,575.  
 Hares, George B. 2,879,420.  
 Hyde, James F. 2,877,139.  
 Kelm, Everett F. 2,877,330.  
 Lanning, John G. 2,910,664.  
 Martuscello, Peter J., and Stermer. 2,880,551.  
 Mitchell, George E. 2,886,335.  
 Nordberg, Martin E. 2,908,838.  
 Randels, Robert B. 2,875,387.  
 Rigen, Theodore K. 2,876,374.  
 Ross, Howard G., and Schuler. 2,904,432.  
 Setzto, Robert J. 2,910,862.  
 Sheldon, John L. 2,886,730.  
 Stookey, Stanley D. 2,911,749.  
 Swenson, Theodore J. 2,911,345.  
 Watkins, George E., and Pond. 2,893,542.  
 White, Harvey J. 2,886,366.  
 Cornish, Eugene S., to George E. Failing Co. Instrument calibration circuit. 2,880,393, 3-31-59, Cl. 324-100.  
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 Cornish, Eugene S., and D. E. Stark, to George E. Failing Co. Electrical well-logging apparatus. 2,915,696, 12-1-59, Cl. 324-1.  
 Cornish Wire Co. Inc.: *See*—  
 Sloat, John E. 2,912,667.  
 Cornu, Marcel: *See*—  
 Flafet, Jacques, and Cornu. 2,899,523.  
 Cornwell, Lionel P. Vehicle sway control and overload system. 2,896,964, 7-28-59, Cl. 280-104.5.  
 Cornwell, Carlyle S. Building structures. Re. 24,723, 10-20-59, Cl. 20-1.6.  
 Cornwell, Earl D.: *See*—  
 Harkness, Leslie M., Cornwell, and Goetz. 2,881,158.  
 Cornwell, John J., to G. C. Jenkins. Predetermined torque release wrench. 2,912,889, 11-17-59, Cl. 81-52.4.  
 Cornwell, John W., M. L. Haselton, and E. L. Schmidt, to The Teleregister Corp. Data storage and reservation system for travel accommodations. 2,883,106, 4-21-59, Cl. 235-61.6.  
 Coro of Rhode Island, Inc.: *See*—  
 Feibelman, Hans J. 2,867,052.  
 Corr, James J., and M. Siskel, to United States of America, Air Force. Calibration circuit. 2,870,402, 1-20-59, Cl. 324-57.  
 Corrado, Ernest M., A. Ross, and L. E. Spanbauer. Hair curler. 2,904,051, 9-15-59, Cl. 132-40.  
 Corrado, Victor M.: *See*—  
 Rossetto, Louis, and Corrado. 2,869,717.  
 Correc, Henri, to Societe des Forges et Ateliers du Creusot. Device for the control of the breech of a double-barrelled gun. 2,870,680, 1-27-59, Cl. 89-17.  
 Correll, John T., to The Upjohn Co. Rodenticide. 2,900,302, 8-18-59, Cl. 167-46.  
 Correll, Robert J. Support for an ash tray and other receptacles. 2,902,171, 9-1-59, Cl. 211-78.  
 Correll, Weldon R. Water skier launching apparatus. 2,883,684, 4-28-59, Cl. 9-21.  
 Correll, William S.: *See*—  
 Bird, Walter. 2,894,783.  
 Corren, Sidney A. Electrolyte for electrochemical cells. 2,919,216, 12-29-59, Cl. 136-155.  
 Correy, Thomas B.: *See*—  
 Frantz, Charles E., and Correy. 2,898,444.  
 Corrigan, Harold A. Audible-visual intercommunication system. 2,892,033, 6-23-59, Cl. 179-1.  
 Corrington, Helen K., and L. R. Stoneman. Plastic section dish cloth. 2,910,710, 11-3-59, Cl. 15-118.  
 Corriston, John W. Insulated water-cooled furnace members. 2,884,879, 5-5-59, Cl. 110-98.  
 Corriveau, Joseph A., R. E. Goeke, and K. E. Sihvonen, to H. A. Metz. Holder for a diamond dressing tool. 2,888,005, 5-26-59, Cl. 125-11.  
 Corrons, Edward L. Self-contained dark room. 2,909,979, 10-27-59, Cl. 95-91.  
 Corry-Jamestown Mfg. Corp.: *See*—  
 Hutzelman, Howard E. 2,873,150.  
 Corsets Silhouette Ltd.: *See*—  
 Lobbenberg, Anne M. 2,875,766.  
 Corsette, William T., to The Youngstown Sheet and Tube Co. High pressure swivel connector for adjustable conduits with strain relief means. 2,879,083, 3-24-59, Cl. 285-114.  
 Corsi, Luigi: *See*—  
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 Corson, Bayard R., to Westinghouse Electric Corp. Cathode ray deflection systems. 2,917,660, 12-15-59, Cl. 315-27.  
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 Corson, Ben B., and L. H. Schwartzman, to Koppers Co., Inc. Selective sulfonation procedure for separating a 1,3,5-trialkylbenzene from benzene hydrocarbons. 2,873,300, 2-10-59, Cl. 260-674.  
 Corson Brothers, Inc.: *See*—  
 Presler, James L. 2,886,334.  
 Corteggiani, Alberto. Process and apparatus for the continuous centrifugal separation of liquids from substances of higher density. 2,874,897, 2-24-59, Cl. 233-17.  
 Cortese, Vincent J., to United States of America, Army. Oscillator output circuit. 2,884,526, 4-28-59, Cl. 250-36.

Corthals, Auguste R. Servo-controlled profiling apparatus for use with machine tools. 2,891,436, 6-23-59, Cl. 82-14.  
 Cortiss, Warren W.: *See*—  
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 Manteuffel, Allan A., Cook, and Cortiss. 2,900,342.  
 Cortner, Howard M. Canned food extractor. 2,873,521, 2-17-59, Cl. 30-124.  
 Corwin, Harold E., to The Diamond Match Co. Molded fiber support for container carrier. 2,888,164, 5-26-59, Cl. 220-106.  
 Corwin, James F.: *See*—  
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 Corwin, Jerome, M. F. Roseman, A. Santilli, and H. Stein, to United States of America, Army. Automatic data conversion system. 2,907,997, 10-6-59, Cl. 340-347.  
 Corwin, John F., to Koppers Co., Inc. Urea-formaldehyde gap-filling adhesive. 2,873,260, 2-10-59, Cl. 260-17.3.  
 Corwin, John F., and F. Person, to Koppers Co., Inc. Method of preparing an adhesive which comprises reacting gelatinized and ungelatinized starch, a phenolic compound and an aldehyde. 2,884,389, 4-28-59, Cl. 260-17.2.  
 Corwin, Merton D., to The Baldwin Piano Co. Piano abstract and assembly. 2,873,638, 2-17-59, Cl. 84-243.  
 Cory Corp.: *See*—  
 Dale, Sheldon. 2,899,310.  
 Karlen, Harvey R. 2,870,318.  
 Karlen, Harvey R., and Eisendrath. 2,869,760.  
 Peters, Herbert W. 2,868,178.  
 Cory, Robert W. Multiple frequency eddy current testing apparatus. 2,894,203, 7-7-59, Cl. 324-40.  
 Cory, William E., and L. E. Catlett. Monitor for a teletype writer. 2,898,402, 8-4-59, Cl. 178-22.  
 Cory, William L. Scalp massaging device. 2,914,065, 11-24-59, Cl. 128-45.  
 Corryell, Charles D., to United States of America, Atomic Energy Commission. Process of oxidizing plutonium. 2,901,315, 8-25-59, Cl. 23-14.5.  
 Cosby, James R., and R. S. Wolf, to Bendix Aviation Corp. Multicircuit baroswitch. 2,886,667, 5-12-59, Cl. 200-81.4.  
 Cosby, John N., R. L. Harris, and E. H. Rissmiller, to Allied Chemical Corp. Manufacture of hydrogen peroxide. 2,902,347, 9-1-59, Cl. 23-207.  
 Cosby, John N., E. H. Rissmiller, and A. B. Spooner, to Allied Chemical Corp. Manufacture of chlorohydrins. 2,902,519, 9-1-59, Cl. 260-633.  
 Cosby, John N., R. L. Harris, A. B. Spooner, and J. R. Tuttle, to Allied Chemical Corp. Treatment of hydrogen peroxide working solution containing anthraquinone degradation products. 2,909,532, 10-20-59, Cl. 260-369.  
 Cosby, William T., D. Elliott, A. W. Gifford, and R. J. Dawson; said Gifford, Elliott, and Dawson, to W. C. Holmes & Co., Ltd. Electrostatic precipitators. 2,881,857, 4-14-59, Cl. 183-7.  
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 Coshman, John E.: *See*—  
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 Coskun, Mehmet K., to American Steel Foundries. Hand brake arrangement. 2,876,869, 3-10-59, Cl. 183-204.  
 Coslev, James C. Steering mechanism for four-wheel trailer. 2,883,218, 5-5-59, Cl. 280-103.  
 Coslow, Carl W., to Pendleton Tool Industries, Inc. Worm locking means for adjustable jaw wrench. 2,905,037, 9-22-59, Cl. 81-165.  
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 Cosmos, Alexander J. Rotative surfacing tool and tufted packs therefor and method of making such packs. 2,871,632, 2-3-59, Cl. 51-193.5.  
 Coss, Frank A.: *See*—  
 Laucher, Richard G., and Coss. 2,874,538.  
 Costa, Joseph F., to Bell Telephone Laboratories, Inc. Signaling system. 2,906,998, 9-29-59, Cl. 340-152.  
 Costa, Joseph L., E. G. Glauber, R. A. Morse, A. Politzer, and F. Sixthor, to Von Kohorn International Corp. Chemical treating apparatus. 2,890,865, 6-16-59, Cl. 257-83.  
 Costa, Leo, 1/2 to E. R. F. Maier. Screw propeller mounting. 2,905,131, 9-22-59, Cl. 115-34.  
 Costabello, Dino, L. Porri, and G. Boffa, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Process of preparing zinc containing fungicides. 2,885,416, 5-5-59, Cl. 260-429.7.  
 Costantino, Steve J.: *See*—  
 Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,698.  
 Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,699.  
 Costanza, Vincent: *See*—  
 Gil, Artigas, and Costanza. 2,883,844.  
 Costas, John P., to General Electric Co. Signal processing arrangement. 2,868,981, 1-13-59, Cl. 250-36.  
 Costello, Alfred H. and E. M., to The Torrington Mfg. Co. Spring coiling machine with means for separating feed rolls during cutting cycle. 2,902,079, 9-1-59, Cl. 153-65.  
 Costello, Don A., to Ottawa Silica Co. Weighing device. 2,880,957, 4-7-59, Cl. 249-60.  
 Costello, Edward L., A. J. Russo, and M. A. Seidell, to Chas. Pfizer & Co., Inc. Therapeutic compositions. 2,907,697, 10-6-59, Cl. 167-81.



- Costello, Edward M.: *See*—  
Costello, Alfred H. and E. M. 2,902,079.  
Costello, J. S., and Son Brush Co.: *See*—  
Brennan, Martin J. 2,878,501.
- Costello, James R., Jr., and T. P. Traise, to Victor Chemical Works. Methods of flameproofing fibers, compositions used therein. 2,867,597, 1-6-59, Cl. 260—29.6.
- Costello, Raymond F. Check valve. 2,879,794, 3-31-59, Cl. 137—542.
- Costello, Walter P., to Albany Felt Co. Needle loom. 2,896,302, 7-28-59, Cl. 28-4.
- Costis, George, 50% to J. W. Fitzsimmons, J. P. Houlihan, and R. C. Sullivan. Inner insulating and finish wall for fabricated structures. 2,912,076, 11-10-59, Cl. 189—34.
- Cotal, Charles R. Outboard motor with independent steering unit. 2,900,947, 8-25-59, Cl. 115—18.
- Cote, James A.: *See*—  
Lavin, Edward, and Cote. 2,917,416.
- Cote, Omer E., to U.S. Automatic Box Machinery Co., Inc. Vacuum box blank feeder mechanism. 2,879,994, 3-31-59, Cl. 271—11.
- Cote, Raymond E. Combined seat and easel supporting structure. 2,918,107, 12-22-59, Cl. 155—2.
- Cote, Wilfrid. Line cover dispensing device. 2,882,661, 4-21-59, Cl. 53—177.
- Cotesworth, Harry A., to The Cleveland Crane & Engineering Co. Overhead monorail system. 2,887,067, 5-19-59, Cl. 104—102.
- Cotesworth, Harry A., to The Cleveland Crane & Engineering Co. Overhead monorail system and track switch therefor. 2,887,068, 5-19-59, Cl. 104—102.
- Cotesworth, Harry A., and F. W. Dunning, to The Cleveland Crane & Engineering Co. Material handling apparatus. 2,915,332, 12-1-59, Cl. 294—88.
- Cotter, Robert H., to Endeavor Corp. Adjustable admittance unit. 2,903,633, 9-8-59, Cl. 317—249.
- Cotman, Lawrence. Cleaning device. 2,896,241, 7-28-59, Cl. 15—184.
- Cotman, Lawrence. Cleaning device. 2,908,929, 10-20-59, Cl. 15—185.
- Cotman, Val, Jr., to The R-W Mfg. Co. Piper support. 2,903,017, 9-8-59, Cl. 138—65.
- Cotner, Basil U.: *See*—  
Park, Orrin J., and Cotner. 2,896,671.  
Park, Orrin J., and Cotner. 2,918,944.
- Cotsworth, Albert, III, to Zenith Radio Corp. Signal-translating apparatus. 2,904,627, 9-15-59, Cl. 178—5.8.
- Cotta, Ralph L., to Barber-Colman Co. Hob shifting mechanism. 2,906,178, 9-29-59, Cl. 90—4.
- Cottam, Eric: *See*—  
Speake, George D., Scanlan, and Cottam. 2,884,602.
- Cottar, Allen B.: *See*—  
Cottar, Robert. 2,898,688.
- Cottar, Robert, to A. B. Cottar. Marking device. 2,898,688, 8-11-59, Cl. 33—189.
- Cotter, George H., to Westinghouse Electric Corp. Electrode coating process and apparatus. 2,833,306, 4-21-59, Cl. 117—205.
- Cotter, George L., to Westinghouse Air Brake Co. Combined pneumatic and electro-pneumatic brake control apparatus. 2,897,011, 7-28-59, Cl. 303—16.
- Cotter, George L., and W. B. Jeffrey, to Westinghouse Air Brake Co. Load-controlled fluid pressure brake apparatus. 2,919,165, 12-29-59, Cl. 303—23.
- Cottle, Delmer L.: *See*—  
Minckler, Leon S., Jr., Cottle, and Lemiszka. 2,918,456.  
Morway, Arnold J., Seelbach, and Cottle. 2,901,432.
- Cottle, Delmer L., D. W. Young, A. J. Morway, and P. V. Smith, Jr., to Esso Research and Engineering Co. Mercaptals of long chain hydrocarbon aldehydes and long chain hydrocarbon mercaptans. 2,874,192, 2-17-59, Cl. 260—609.
- Cottle, Francis M.,  $\frac{1}{2}$  to M. Richtel. Adjustable chair. 2,917,104, 12-15-59, Cl. 155—88.
- Cottle, Francis M.,  $\frac{1}{2}$  to L. Boro. Model aircraft control. 2,913,243, 11-17-59, Cl. 272—31.
- Cottle, Francis M., Jr.,  $\frac{1}{2}$  to L. Boro. Model aircraft control. 2,913,244, 11-17-59, Cl. 272—31.
- Cottle, John E.: *See*—  
Adams, Loyd W., and Cottle. 2,901,403.
- Cottle, John E., to Phillips Petroleum Co. Ammonia storage and recovery system. 2,878,165, 3-17-59, Cl. 202—39.5.
- Cottle, John E., to Phillips Petroleum Co. Production of para-xylene. 2,890,252, 6-9-59, Cl. 260—668.
- Cottle, John E., to Phillips Petroleum Co. Method of and apparatus for controlling catalytic processes. 2,908,734, 10-13-59, Cl. 260—683.15.
- Cottle, John E., to Phillips Petroleum Co. Polymerization catalyst recovery. 2,914,518, 11-24-59, Cl. 260—94.9.
- Cotton, Edward A., and W. H. Smith, to Cottonsmith Furniture Mfg. Co., Inc. Sewing machine cabinet. 2,887,350, 5-19-59, Cl. 312—29.
- Cotton, James F.: *See*—  
Waddle, Howard M., Cotton, and Hudson. 2,870,041.
- Cotton, Kenneth C.: *See*—  
Ipsen, Peter G., and Cotton. 2,888,094.
- Cotton, Michael B., to The Sperry Gyroscope Co. Ltd. Gyroscopic apparatus. 2,880,617, 4-7-59, Cl. 74—5.47.
- Cotton, Robert B., and C. J. Daniels, to All American Engineering Co. Aircraft overrun barrier. 2,872,136, 2-3-59, Cl. 244—110.
- Cotton, William, Ltd.: *See*—  
Start, Ernest, and Blood. 2,873,593.  
Start, Ernest, and Brown. 2,899,811.  
Winfield, Denis, and Start. 2,897,664.
- Cottongim, Willard C. Combined bird bath and feeding station. 2,887,988, 5-26-59, Cl. 119—51.
- Cottonsmith Furniture Mfg. Co., Inc.: *See*—  
Cotton, Edward A., and Smith. 2,887,350.
- Cottrell Co., The: *See*—  
Johnson, Thomas H., and Mueller. 2,915,007.  
Luehrs, Hans J. 2,906,204.  
Ziebell, Theodore R. 2,893,319.
- Cottrell, Robert B., to American Steel Foundries. Bolster stabilizer. 2,877,721, 3-17-59, Cl. 105—200.
- Cottrell, Robert B., to American Steel Foundries. Snubber. 2,882,040, 4-14-59, Cl. 267—99.
- Cottrell, Robert B., to American Steel Foundries. Railway car truck conversion method. 2,898,870, 8-11-59, Cl. 105—197.
- Cottrell, William R. Golf training device. 2,891,796, 6-23-59, Cl. 273—189.
- Cotts, Louis C. Floor register with adjustable louvers. 2,901,961, 9-1-59, Cl. 98—103.
- Coty, Fred P. Rocket motor. 2,887,844, 5-26-59, Cl. 60—35.6.
- Coty, Inc.: *See*—  
Croce, Santy M. 2,868,586.  
Croce, Santy M., and Solomon. 2,879,548.
- Couch, Earle W., and E. T. Candee, to The Lea Mfg. Co. Packaged buffing compound. 2,904,419, 9-15-59, Cl. 51—295.
- Couch, Glenn F., to The Symington-Gould Corp. Quick wheel change truck. 2,871,801, 2-3-59, Cl. 105—197.
- Couch, Glenn F., to The Symington-Gould Corp. Brake beam supports. 2,873,823, 2-17-59, Cl. 188—209.
- Couch, Glenn F., to Symington Wayne Corp. Snubbed railway trucks. 2,883,944, 4-28-59, Cl. 105—197.
- Couch, Glenn F., to Symington Wayne Corp. Journal box lid. 2,900,212, 8-18-59, Cl. 308—47.
- Couch, Glenn F., to Symington Wayne Corp. Draft rigging. 2,906,414, 9-29-59, Cl. 213—8.
- Couch, Joe T. Automobile drag link adjuster. 2,878,030, 3-17-59, Cl. 280—95.
- Couchot, Orville F. Safety valve for a plumbing fixture. 2,888,942, 6-2-59, Cl. 137—99.
- Coudray, Michael A.: *See*—  
Houdry, Eugene J., Eriksson, and Coudray. 2,898,202.
- Couffer, Robert W., Jr.: *See*—  
Rimsha, Victor E., and Couffer. 2,893,425.
- Coughlin, Joseph E., 20% to H. J. Nichols. Automatic switching apparatus. 2,895,057, 7-14-59, Cl. 307—10.
- Coughlin, William B. Valve installation and attachment. 2,881,011, 4-7-59, Cl. 284—18.
- Cougnard, Jérôme. Double acting deionizing device for aerial electric lines. 2,914,602, 11-24-59, Cl. 174—140.
- Cougoul, Henri. Loose-leaf binder. 2,875,767, 3-3-59, Cl. 129—17.
- Coulon, Edward I.: *See*—  
Krol, Stanley J., and Coulon. 2,914,745.
- Coulson, Gordon R., to Can Amera Oil Sanas Development Ltd. Extraction of oil from oil shales and like oil bearing material. 2,911,349, 11-3-59, Cl. 208—11.
- Coulson, Gordon R., and L. Clark, to Can-Amera Oil Sands Development Ltd. Recovery of oil from oil bearing sands. 2,885,339, 5-5-59, Cl. 208—11.
- Coulson, Robert B., to Ingle Electric Valve Co. Ltd. Traveling wave amplifier tubes. 2,882,441, 4-14-59, Cl. 315—3.6.
- Coultras, Wilbur J., to Deere & Co. Hitch for series-connected implements. 2,870,852, 1-27-59, Cl. 180—14.
- Coultras, Wilbur Jr., to Deere & Co. Hitch and drive means for tractor-implement train. 2,906,079, 9-29-59, Cl. 56—25.
- Coultras, Wilbur J., to Deere & Co. Deflector means for crop conditioner. 2,915,869, 12-8-59, Cl. 56—1.
- Coultras, Wilbur J., to Deere & Co. Windrowing means for crop conditioner. 2,918,776, 12-29-59, Cl. 56—192.
- Coulter, Albert L. Hand-choke conversion unit. 2,893,419, 7-7-59, Cl. 137—270.
- Coulter, Albert W., Jr.: *See*—  
Park, Arthur, and Coulter. 2,877,180.
- Coulter, Earl E., to The Babcock & Wilcox Co. Cyclone steam and water separator with whirl chamber cage in mixture inlet chamber. 2,891,632, 6-23-59, Cl. 183—55.
- Coulter, Earl E., to The Babcock & Wilcox Co. Method of washing high pressure steam. 2,895,566, 7-21-59, Cl. 183—121.
- Coulter Electronics, Inc.: *See*—  
Coulter, Wallace H. and J. R., Jr. 2,869,078.
- Coulter, Joseph R., Jr.: *See*—  
Coulter, Wallace H. and J. R., Jr. 2,869,078.
- Coulter & McKenzie Machine Co., Inc., The: *See*—  
Lewis, Thomas E., Jr. 2,868,474.  
Lewis, Thomas E., Jr. 2,893,654.  
Lewis, Thomas E., Jr., and Zaveruha. 2,868,268.
- Coulter, Samuel T., and V. H. Townley, to Regents of the University of Minnesota. Method and apparatus for spray drying. 2,887,390, 5-19-59, Cl. 99—199.
- Coulter, Wallace H. and J. R., Jr., to Coulter Electronics, Inc. Fluid metering apparatus. 2,869,078, 1-13-59, Cl. 324—71.
- Coultrap, Keith H.: *See*—  
Parker, Earl E., and Coultrap. 2,911,379.



- Counihan, Richard G., to International Business Machines Corp. Magnetic core current driver. 2,902,677, 9-1-59, Cl. 340—174.
- Counter Balance, Inc.: *See*—  
Turner, Alonzo R. 2,903,149.
- County Commercial Cars Ltd.: *See*—  
Tapp, Ernest T. J., and Davey. 2,882,984.  
Tapp, Ernest T. J., and Davey. 2,918,131.
- County Laboratories Ltd.: *See*—  
Atkins, Herbert A. 2,915,225.
- Couper, Alistair S., N. Stein, and J. A. Bowman, to Standard Oil Co. 1,2-dimethyl-4-ethylbenzene production. 2,904,604, 9-15-59, Cl. 260—668.
- Couper, John R. Pistol holster. 2,893,615, 7-7-59, Cl. 224—2.
- Coupez, Maurice: *See*—  
Pinte, Jules, Coupez, and Rochas. 2,893,892.
- Courant, Ernest D., H. S. Snyder, and M. S. Livingston, to United States of America, Atomic Energy Commission. High energy particle accelerator. 2,882,396, 4-14-59, Cl. 250—27.
- Courchesne, Joseph N. Wheel and tire construction. 2,871,906, 2-3-59, Cl. 142—418.
- Courcier, Louis K., and G. Ferguson, Jr. Adjustable mounting fixture. 2,910,291, 10-27-59, Cl. 269—134.
- Coursen, David L., to E. I. du Pont de Nemours and Co. Surface wave generator. 2,887,052, 5-19-59, Cl. 102—22.
- Coursey, Ralph W. Storage system. 2,874,822, 2-24-59, Cl. 198—85.
- Coursey, Ralph W. Parking system. 2,874,857, 2-24-59, Cl. 214—16.1.
- Coursey, Ralph W. Mass storage system. 2,916,168, 12-8-59, Cl. 214—16.1.
- Courson, Iber C., to Philco Corp. Cabinet door safety apparatus. 2,888,889, 6-2-59, Cl. 109—63.5.
- Court, Kenneth: *See*—  
Robinson, James, and Court. 2,918,902.
- Court, Patrick R. J., to Sylvania Electric Products, Inc. Television receiver. 2,877,300, 3-10-59, 178—7.5.
- Courtaulds Ltd.: *See*—  
Barratt, Harold, Forrester, and Wilson. 2,896,946.  
Bennett, Albert W., and Furness. 2,904,391.  
Bunting, James W., and Martin. 2,904,650.  
Daul, George C., Wise, and Wharton. 2,902,391.  
Eidlow, Alan J., Markowicz, and Morgan. 2,870,595.  
Ratcliffe, Charles B., and Wise. 2,888,369.  
Sharples, Edwin H. 2,867,496.  
Wormell, Robert L. 2,897,044.
- Courtier, Armand J., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Method of making melamine. 2,868,789, 1-13-59, Cl. 260—249.7.
- Courtier, Armand J., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de St. Gobain, Chauny & Cirey. Separation and purification of anhydrides of organic diacids. 2,893,924, 7-7-59, Cl. 202—42.
- Courtney, John S. Diaper pin. 2,897,565, 8-4-59, Cl. 24—157.
- Courtney, Joseph F., and A. C. Radtke, to International Harvester Co. Filament drawing mechanism. 2,885,257, 5-5-59, Cl. 18—54.
- Courtney, Orley R.: *See*—  
Courtney, Ray W. and O. 2,905,001.  
Courtney, Ray W. and O. R. 2,913,255.
- Courtney, Ray W. and O. R. Engine self-starter. 2,905,001, 9-22-59, Cl. 74—8.
- Courtney, Ray W. and O. R. Motorcycle front wheel suspension and steering arrangement. 2,913,255, 11-17-59, Cl. 280—277.
- Courtot, Louis B., to The Weatherhead Co. Nut locking mechanism with threaded pawl manipulating sleeve. 2,898,963, 8-11-59, Cl. 151—10.
- Courtot, Louis B., to The Weatherhead Co. Valve seal. 2,900,999, 8-25-59, Cl. 137—516.25.
- Courtright, William R., ½ to P. MacFadyen. Bait carrying artificial lures. 2,887,815, 5-26-59, Cl. 43—42.
- Couse, Kibbey W., to Couse Mfg., Inc. Electrical machines and change-over plates therefor. 2,874,317, 2-17-59, Cl. 310—71.
- Couse, Kibbey W., and R. D. Keehn, to Couse Mfg. Inc. Boat canopy. 2,873,751, 2-17-59, Cl. 135—6.
- Couse, Kibbey W., and R. M. Sutphen, to Couse Mfg., Inc. Detachable hinge construction. 2,882,564, 4-21-59, Cl. 20—92.
- Couse, Kibbey W., and R. D. Keehn, to Couse Mfg., Inc. Expandable building structure. 2,904,850, 9-22-59, Cl. 20—2.
- Couse Mfg., Inc.: *See*—  
Couse, Kibbey W. 2,874,317.  
Couse, Kibbey W., and Keehn. 2,873,751.  
Couse, Kibbey W., and Keehn. 2,904,850.  
Couse, Kibbey W., and Sutphen. 2,882,564.
- Cousen, Frank: *See*—  
Wynne, Hubert C., and Cousen. 2,883,799.
- Cousino, Bernard A., to Browning Research Corp. Tape feeding apparatus for magnetic sound recording and reproducing mechanisms. 2,911,215, 11-3-59, Cl. 271—218.
- Cousino, Walter F. Method of making a laminated bearing. 2,909,832, 10-27-59, Cl. 29—149.5.
- Cousins, Boyd E. Mounting for mirrors and the like. 2,893,666, 7-7-59, Cl. 248—28.
- Cousins, Boyd E. Mirror mounting bracket. 2,903,210, 9-8-59, Cl. 248—28.
- Coussement, Fernand: *See*—  
Leprince, Pierre, Coussement, and Limido. 2,899,473.
- Cousteau, Jacques Y.: *See*—  
Gagnan, Emile, and Cousteau. 2,886,033.  
Gruget, André, Cousteau, and Gagnan. 2,918,061.
- Coutermarsh, Louis E., to Aladdin Industries, Inc. Radio frequency tuner having fine tuning means. 2,872,824, 2-10-59, Cl. 74—10.6.
- Coutermarsh, Louis E., and F. G. Mason, to Aladdin Industries, Inc. Capacitive reactor tuner for very high radio and television frequencies. 2,868,984, 1-13-59, Cl. 250—40.
- Coutras, Alexander, to American Cyanamid Co. Synthetic resinous composition, process of impregnating therewith and product thereof. 2,867,600, 1-6-59, Cl. 260—29.
- Coutras, Alexander, and I. H. Updegraff, to American Cyanamid Co. Composition comprising melamine-aldehyde,  $\alpha$ -alkyl-D-glucoside and dicarbamate compound. 2,867,590, 1-6-59, Cl. 260—17.3.
- Coutts, Charles A., to Charleston Rubber Co. Inflatable inspection device. 2,885,892, 5-12-59, Cl. 73—159.
- Coutu, Albert J. Folding aid. 2,905,367, 9-22-59, Cl. 223—37.
- Couture, Clara M.: *See*—  
Couture, Wilfrid J. 2,869,269.
- Couture, Wilfrid J., deceased, by C. M. Couture, administratrix, to Olin Mathieson Chemical Corp. Safety mechanism for firearms. 2,869,269, 1-20-59, Cl. 42—70.
- Cova, Fedele, S. De Amicis, and C. Cesareni, to Cementir Cementerie Del Tirreno S.p.A. Cooling devices for the cement clinkers. 2,904,323, 9-15-59, Cl. 263—32.
- Coval, Arthur B.: *See*—  
Lee, Arthur L., and Coval. 2,915,146.
- Covault, Darrell W., and L. C. Poindexter. Electric furnace. 2,919,338, 12-29-59, Cl. 219—34.
- Covely, Frank D., 3rd, to Radio Corp. of America. Apparatus for and method of counting perturbations in a field. 2,907,519, 10-6-59, Cl. 235—92.
- Coven, Murray, and F. T. Wiehl. Tire chain. 2,898,968, 8-11-59, Cl. 152—236.
- Coven, Warren B., to The General Industries Co. Drive mechanism for record players. 2,884,795, 5-5-59, Cl. 74—200.
- Cover, Martin L. Method and apparatus for separating usable particles from collecting liquid. 2,913,116, 11-17-59, Cl. 210—73.
- Cover, Martin L. Valve structure and method of installation. 2,913,220, 11-17-59, Cl. 251—328.
- Cover, Ralph. Mill for grinding green corn. 2,878,847, 3-24-59, Cl. 146—182.
- Cover, Ralph. Pump. 2,880,679, 4-7-59, Cl. 103—126.
- Covert, Calvin C.: *See*—  
Berninger, Kenneth L., Skinner, and Covert. 2,916,094.
- Covey, Gordon W., to The W. J. Fitzpatrick Co. Method of preparing meat products. 2,907,662, 10-6-59, Cl. 99—187.
- Coviello, Anthony R. Agricultural implement particularly a reversible plow, and support vehicle therefor. 2,900,033, 8-18-59, Cl. 172—212.
- Covitt, Jack G., to International Harvester Co. Core box with sectional mold construction. 2,901,792, 9-1-59, Cl. 22—13.
- Cowan, Ben. Agitator for pulp stock tanks. 2,869,841, 1-20-59, Cl. 259—96.
- Cowan, Ben and E. Rotary pulp screens. 2,899,064, 8-11-59, Cl. 210—219.
- Cowan, David M. Extensible water supply means for a rock drill. 2,868,508, 1-13-59, Cl. 255—49.
- Cowan, David M., to Joy Mfg. Co. Work engaging support for a rock drill. 2,879,034, 3-24-59, Cl. 255—45.
- Cowan, Elijah: *See*—  
Cowan, Ben and E. 2,899,064.
- Cowan, George A., to United States of America, Atomic Energy Commission. Salicylate process for thorium separation from rare earths. 2,901,496, 8-25-59, Cl. 260—429.1.
- Cowan, Gerald de G., R. Laurensen, and P. R. Van Hemert, to Sperry Products, Inc. Rail flaw detector mechanism. 2,889,514, 6-2-59, Cl. 324—37.
- Cowan, Harold W.: *See*—  
Marshall, James W., and Cowan. 2,897,499.
- Cowan, Harold W., to Hoffman Electronics Corp. Multichannel antenna couplers or the like. 2,907,963, 10-6-59, Cl. 333—82.
- Cowan, James C., R. F. Sanders, and R. D. Shelton, to Columbia-Southern Chemical Corp. Removal of water from halogenated hydrocarbons. 2,877,276, 3-10-59, Cl. 260—654.
- Cowan, John C.: *See*—  
Gast, Lyle E., Cowan, and Teeter. 2,873,255.  
Teeter, Howard M., Danzig, and Cowan. 2,901,495.
- Cowan, John C., and H. M. Teeter, to United States of America, Agriculture. Coating compositions. 2,901,469, 8-25-59, Cl. 260—91.1.
- Cowan, Rael. Figure building puzzle. 2,886,324, 5-12-59, Cl. 273—157.
- Cowan, Tyson G., to R. M. Magnuson, deceased; G. I. Magnuson, executrix. Control circuit for filling of containers. 2,870,585, 1-27-59, Cl. 53—59.
- Cowan, Willard R., to Aeroquip Corp. Pressure testing adaptor. 2,902,297, 9-1-59, Cl. 285—88.



- Cowdery, Roger K. : *See*—  
King, Donald E., and Cowdery. 2,882,477.
- Cowell, Earl J. : *See*—  
McQuinn, Clarence F. 2,888,225.
- Cowell, Ishmael L. Collapsible life preserver. 2,890,467, 6-16-59, Cl. 9—17.
- Cowen, Richard G., to United States of America, Atomic Energy Commission. Impedance alarm system. 2,907,017, 9-29-59, Cl. 340—358.
- Cowger, Charles E. : *See*—  
Hoiberg, Arnold J., and Cowger. 2,890,967.
- Cowgill, Edward F. Orthopedic foot drop brace. 2,874,690, 2-24-59, Cl. 128—80.
- Cowherd, Robert D. Pneumatic control. 2,902,055, 9-1-59, Cl. 137—625.20.
- Cowherd, Robert D. Instantaneously acting pneumatic timer. 2,904,073, 9-15-59, Cl. 137—620.
- Cowles, John H. : *See*—  
White, Robert H., Cowles, and Clark. 2,894,791.
- Cowles, John H., R. H. White, and S. F. Clark, to The Torrington Co. Method of making roller bearings. 2,897,581, 8-4-59, Cl. 29—148.4.
- Cowles, Raymond H., to The General Tire and Rubber Co. Interlocking assembly. 2,876,485, 3-10-59, Cl. 16—42.
- Cowles, Robert J., to Quality Components, Inc. Resistor. 2,899,665, 8-11-59, Cl. 338—325.
- Cowles, Warren H. : *See*—  
Goetsch, Earl G., and Cowles. 2,896,652.  
Stroh, George B., and Cowles. 2,879,643.
- Cowley, William E., to American Saw and Tool Co. Drill elements. 2,886,081, 5-12-59, Cl. 145—125.
- Cowley, William E., to American Saw and Tool Co. Workholder. 2,895,513, 7-21-59, Cl. 143—52.
- Cowley, William E., to American Saw and Tool Co. Burning blade. 2,903,782, 9-15-59, Cl. 29—103.
- Cowley, William E., and W. M. McCord, Jr., to American Saw and Tool Co. Jointer-planer blade. 2,904,086, 9-15-59, Cl. 144—229.
- Cox, Anna P. M., A. H. Hoekstra, and P. Zalm, to North American Philips Co., Inc. Luminescent material. 2,863,733, 1-13-59, Cl. 252—301.4.
- Cox, Basil B. : *See*—  
Long, Stuart S., and Cox. 2,899,116.
- Cox, Bonnar : *See*—  
Goldberg, Jacob, and Cox. 2,867,791.  
Goldberg, Jacob, and Cox. 2,874,633.  
Goldberg, Jacob, and Cox. 2,913,707.
- Cox, Bonnar, J. Goldberg, and W. H. Kautz, to General Electric Co. Error-checking system. 2,871,289, 1-27-59, Cl. 178—23.
- Cox, Bonnar, and J. Goldberg, to General Electric Co. Magnetic tape reading system. 2,904,777, 9-15-59, Cl. 340—174.
- Cox, Bonnar, and J. Goldberg, to General Electric Co. Storage system. 2,913,705, 11-17-59, Cl. 340—174.
- Cox, Bonnar, and J. Goldberg, to General Electric Co. Magnetic tape arrangement system. 2,918,662, 12-22-59, Cl. 340—174.
- Cox, Cecil T., to The S. K. Wellman Co. Friction composition product. 2,886,882, 5-19-59, Cl. 29—182.5.
- Cox, Cecil T., to The S. K. Wellman Co. Brake material for extreme heavy duty. 2,899,740, 8-18-59, Cl. 29—182.8.
- Cox, Clare. Children's toy. 2,914,325, 11-24-59, Cl. 272—54.
- Cox, Dale W., Jr. Vertical take-off airplane. 2,913,196, 11-17-59, Cl. 244—15.
- Cox, David C., to Mandrel Industries, Inc. Inspection head for sorting machine. 2,879,407, 3-24-59, Cl. 250—222.
- Cox, Earle F. Welding machine for rails or the like. 2,911,516, 11-3-59, Cl. 219—101.
- Cox, Ethel R. Automobile window screen. 2,915,119, 12-1-59, Cl. 160—881.
- Cox, Eugene S., and J. W. Meermans, to The Garrett Corp. Turbine driven fluid circulating unit. 2,888,302, 5-26-59, Cl. 308—187.
- Cox, Eunice : *See*—  
Cox, George B. 2,895,363.
- Cox, Frank G., Jr. Spiral one-at-a-time dispenser. 2,899,046, 8-11-59, Cl. 206—42.
- Cox, George B., deceased; E. Cox, administratrix of the estate of said G. B. Cox;  $\frac{1}{2}$  to L. J. Weaver. Tool for removing and holding a radiator cap. 2,895,363, 7-21-59, Cl. 81—125.
- Cox, George C. Amphoteric metal electroplating processes. 2,919,233, 12-29-59, Cl. 204—38.
- Cox, George W., to Northrop Aircraft, Inc. Multiple position switch with built-in memory. 2,870,299, 1-20-59, Cl. 200—167.
- Cox, Harold E., to Willcraft Hosiery Mills, Inc. Releasable yarn tension device for hosiery knitting machines. 2,884,774, 5-5-59, Cl. 66—146.
- Cox, Henry C. Construction panel providing sound and heat insulation. 2,872,710, 2-10-59, Cl. 20—2.
- Cox, Hubert L. : *See*—  
Haroldson, Arthur H., and Cox. 2,870,295.
- Cox, Isaac E. : *See*—  
Hoyer, Llewellyn E., and Cox. 2,868,595.
- Cox, Isaac E., to American Brake Shoe Co. Sleeve journals for railway wheels and the like. 2,879,112, 3-24-59, Cl. 308—41.
- Cox, Joe L., to Pascoe Steel Corp. Gate mechanism for a hopper. 2,877,938, 3-17-59, Cl. 222—502.
- Cox, John E., and G. L. Hasser, to International Telephone and Telegraph Corp. Revertive call-selector circuit. 2,917,585, 12-15-59, Cl. 179—17.
- Cox, John J., Jr., to E. I. du Pont de Nemours and Co. Method of quenching metals in an aqueous silica sol. 2,910,395, 10-27-59, Cl. 148—18.
- Cox, John R. : *See*—  
Abramoska, Alfred A., and Cox. 2,871,721.
- Cox, John R., and L. F. Smrekar, to The Balas Collet Mfg. Co. Adjustably tensioned pusher. 2,872,199, 2-3-59, Cl. 279—47.
- Cox, John W., to Diamond Gardner Corp. Pulp molding machine. 2,879,696, 3-31-59, Cl. 92—56.
- Cox, John W., to Diamond Gardner Corp. Pulp molding machine. 2,881,679, 4-14-59, Cl. 92—57.
- Cox, Joseph R., and T. E. Brown, to Columbia-Southern Chemical Corp. Preparation of hydrogen peroxide. 2,886,416, 5-12-59, Cl. 23—207.
- Cox, Leslie R., deceased, by Citizens Trust Co., executor, to Bell Telephone Laboratories, Inc. Carrier distribution circuit. 2,874,220, 2-17-59, Cl. 179—15.
- Cox, Martin, to Power Jets (Research and Development) Ltd. Method and apparatus for heating fluid. 2,869,830, 1-20-59, Cl. 257—1.
- Cox, Mason C. : *See*—  
Fritz, William H., Potter, and Cox. 2,913,892.
- Cox, Norman L., and W. D. Nicoll, to E. I. du Pont de Nemours & Co. Spinning viscose. 2,910,341, 10-27-59, Cl. 18—54.
- Cox, Norman R. : *See*—  
Hess, Lawrence G., and Cox. 2,912,464.  
Johnson, Philip C., and Cox. 2,919,292.
- Cox, Paul R., Jr., to The Chemstrand Corp. Solutions of modified polyesters in thiophenols. 2,912,404, 11-10-59, Cl. 260—30.8.
- Cox, Paul R., Jr., to The Chemstrand Corp. Solutions of modified polyesters in thiol-substituted fatty acids. 2,912,405, 11-10-59, Cl. 260—30.8.
- Cox, Robert, to Slide-Lock Ltd. Adjustable holding or locking devices. 2,883,219, 4-21-59, Cl. 287—58.
- Cox, Robert M. : *See*—  
Gerwig, Harvey F., and Cox. 2,888,027.  
Gerwig, Harvey F., and Cox. 2,903,255.
- Cox, Robert P., and L. M. Yaeger, to Bjorksten Research Laboratories, Inc. Polymers of fluorinated acrylic monomers. 2,877,207, 3-10-59, Cl. 260—45.5.
- Cox, Russell E., and C. P. Lowry. Rural mailbox signal. 2-905,378, 9-22-59, Cl. 232—35.
- Cox, Stanley L., to The Kirk & Blum Mfg. Co. Air cleaner. 2,910,138, 10-27-59, Cl. 183—24.
- Cox, Thomas G., to Food Machinery and Chemical Corp. Method of and apparatus for positioning fruit. 2,901,087, 8-25-59, Cl. 198—33.
- Cox, William L. : *See*—  
Chenicek, Joseph A., and Cox. 2,888,503.
- Coxworth, Lowry, to W. H. Bailey. Circumferentially traveling type tire mounting device. 2,888,064, 5-26-59, Cl. 157—1.24.
- Coy, Carl E. Artificial transmission lines. 2,894,221, 7-7-59, Cl. 333—29.
- Coy, Homer E., to Ace Tool Engineering Co., Inc. Measuring instrument. 2,895,226, 7-21-59, Cl. 33—179.
- Coykendall, Leon H., to The Babcock & Wilcox Co. Heating system. 2,903,187, 9-8-59, Cl. 237—8.
- Coyle, Eugene F. Gas-operated automatic shotgun choke. 2,869,272, 1-20-59, Cl. 42—79.
- Coyne, John H., A. Wilson, and J. L. Vargonicsik, to The Bridgeport Hardware Mfg. Corp. Tool handles. 2,871,899, 2-3-59, Cl. 145—61.
- Coyne, William E., to Gem Oil Tool Co., Inc. Cement conditioner for well walls. 2,903,073, 9-8-59, Cl. 166—172.
- Coyne, André, and J. Bellier. Measurement of physical quantities with the aid of apparatus which converts the said quantities into variations of oscillation frequency. 2,880,612, 4-7-59, Cl. 73—88.5.
- Coyne, André, and J. Bellier. Method of and apparatus for the measurement and the control of the difference between two physical quantities. 2,912,861, 11-17-59, Cl. 73—301.
- Coyne, Donald M., and J. C. Kirk, to Continental Oil Co. Process for the production of cyclic and non-cyclic esters. 2,872,456, 2-3-59, Cl. 260—343.
- Coyne, Lawrence D. : *See*—  
Osborne, Russell E., Moyer, and Coyne. 2,882,955.
- Coyne, William R., to The Pillsbury Co. Insert feeding apparatus. 2,891,363, 6-23-59, Cl. 53—59.
- Cozine, Harold E. : *See*—  
Dapp, Robert J., and Cozine. 2,873,854.
- Cozzo, Giuseppe, to E. Loewy. Mandrel arrangement. 2,909,338, 10-20-59, Cl. 242—68.
- Crabb, Clarence R. : *See*—  
McDonald, Leighton S., Hughes, and Crabb. 2,917,555.
- Crabb, Jasper R., to National Industrial Product Co. Weighing and bagging machine for produce or other heterogeneous commodities. 2,889,130, 6-2-59, Cl. 249—17.
- Crabb, Jasper R., to National Industrial Product Co. Feeding and weighing system for produce or other heterogeneous commodities. 2,889,131, 6-2-59, Cl. 249—17.
- Crabbe, Lindsay T., to Phoenix Metal Cap Co., Inc. Force plug for molded articles. 2,904,837, 9-22-59, Cl. 18—45.
- Crabbé, René, and J. Clément, to Solvay & Cie. Process and apparatus for the decomposition of alkali metal amalgams. 2,872,291, 2-3-59, Cl. 23—184.



- Crabbe, Rene, and J. Menier, to Solvay & Cie. Device for the continuous determination of the specific gravity of liquids. 2,878,675, 3-24-59, Cl. 73-439.
- Crabbe, Rupert G. Combination bunker and residential building structure. 2,878,665, 3-24-59, Cl. 72-1.
- Crabiel, Wesley I.: *See—*
- Schultz, Thomas W., and Crabiel. 2,879,612.
- Crabs, Roy L. Mail carrier. 2,912,151, 11-10-59, Cl. 224-50.
- Crabtree, J. A., & Co. Ltd.: *See—*
- Coleman, Edward. 2,911,496.
- Crabtree, Philip B.: *See—*
- Neikirk, Marvin W., and Crabtree. 2,918,132.
- Crabtree, Leonard F., to General Telephone Laboratories, Inc. Stopping circuit for a high speed rotary switch. 2,879,339, 3-24-59, Cl. 179-18.
- Craddock, Charles L. Telephone system for alarm boxes. 2,887,535, 5-19-59, Cl. 179-5.
- Craddock, Charles L. Lighting system for alarm boxes. 2,904,782, 9-15-59, Cl. 340-288.
- Craddock-Terry Shoe Corp.: *See—*
- Lockridge, Robert S. 2,878,593.
- Crafton, John M. Method of and apparatus for producing board products. 2,877,491, 3-17-59, Cl. 18-5.
- Crafts, Cecil A.: *See—*
- McFarlane, Maynard D., and Crafts. 2,897,331.
- McFarlane, Maynard D., and Crafts. 2,897,332.
- McFarlane, Maynard D., and Crafts. 2,897,333.
- McFarlane, Maynard D., and Crafts. 2,897,334.
- McFarlane, Maynard D., and Crafts. 2,909,663.
- Wehrli, Robert L., Crafts, and McFarlane. 2,915,077.
- Crafts, Cecil A., to Robertshaw-Fulton Controls Co. Heating control device. 2,898,435, 8-4-59, Cl. 219-20.
- Crafts, Curtis S., to Miehe-Goss-Dexter, Inc. Stereotype plate holding means for printing cylinders. 2,915,010, 12-1-59, Cl. 101-378.
- Crafts, Curtis S., and H. L. McWhorter, to Miehe-Goss-Dexter, Inc. Apparatus for producing magazines and the like. 2,873,112, 2-10-59, Cl. 270-12.
- Crafts, Dermont B. Babe alarm. 2,908,899, 10-13-59, Cl. 340-280.
- Cragg, Arthur C., and D. A. Schultdt, to Donaldson Co., Inc. Engine operated insecticide sprayer. 2,901,182, 8-25-59, Cl. 239-129.
- Cragg, Hoyt J., to Ethyl Corp. Manufacture of cyclopentadienyl manganese tricarbonyl compounds. 2,868,698, 1-13-59, Cl. 202-46.
- Cragg, Hoyt J., to Ethyl Corp. Treatment of benzene hexachloride. 2,918,500, 12-22-59, Cl. 260-648.
- Cragg, Richard E., to Ditto, Inc. Duplicating machine with automatic controls. 2,916,988, 12-15-59, Cl. 101-144.
- Cragg, William D.: *See—*
- Terry, Victor J., R. and P. S. Kelly, and Cragg. 2,896,148.
- Craggs, Joseph, and K. R. McCann. Collapsible and extendible conveyor and loader. 2,880,849, 4-7-59, Cl. 198-139.
- Craig, Alfred B.: *See—*
- Ham, George E., and Craig. 2,867,602.
- Ham, George E., and Craig. 2,867,625.
- Craig, Burnie J. Door lock abutment. 2,867,837, 1-13-59, Cl. 16-85.
- Craig, Burnie J. Apparatus for making ball point pens. 2,896,250, 7-28-59, Cl. 18-5.
- Craig, Burnie M. Retractable writing instrument. 2,881,735, 4-14-59, Cl. 120-42.03.
- Craig, David, J. F. Jones, and S. T. Semegen, to The B. F. Goodrich Co. Aqueous dispersions of elastomeric polymers and method of preparation. 2,905,649, 9-22-59, Cl. 260-4.
- Craig, Dwin R., and J. N. Street, to Log Etronics, Inc. Photographic method and apparatus. 2,880,662, 4-7-59, Cl. 95-73.
- Craig, Floyd B.: *See—*
- Leonard, Frederick, and Craig. 2,906,972.
- Craig, Frank S., to General Railway Signal Co. Glass insert retainer for light signal spectacles. 2,881,420, 4-7-59, Cl. 340-383.
- Craig, George H., to Inland Steel Co. Blast furnace salamander charting. 2,915,305, 12-1-59, Cl. 266-25.
- Craig, James C., and E. H. Frederickson, to I-T-E Circuit Breaker Co. Control disconnect contact structure for draw-out circuit breakers. 2,917,592, 12-15-59, Cl. 200-50.
- Craig, John: *See—*
- Sherno, Stanley A. 2,887,668.
- Craig, Louis E., to General Aniline & Film Corp. Preparation of  $\alpha$ -chlorocyclooctanone oxime. 2,890,248, 6-9-59, Cl. 260-566.
- Craig, Louis E., to General Aniline & Film Corp. Preparation of cyclooctylamine. 2,907,793, 10-6-59, Cl. 260-563.
- Craig, Milton. Trimmer and edger attachment for lawnmowers. 2,908,127, 10-13-59, Cl. 56-26.
- Craig, Paul N., to Smith, Kline & French Laboratories. Substituted phenothiazinyl trifluoromethyl sulfones. 2,914,528, 11-24-59, Cl. 260-243.
- Craig, Paul N., to Smith, Kline & French Laboratories. Substituted phenothiazinyl trifluoromethyl sulfones. 2,919,272, 12-29-59, Cl. 260-243.
- Craig, Paul N., and J. J. Lafferty, to Smith, Kline & French Laboratories. 3-amino-1,2-dihydro-3h-pyrido[3,2,1-k]-phenothiazines. 2,919,271, 12-29-59, Cl. 260-243.
- Craig, Ralph P., to Red Point Corp. Encapsulating apparatus. 2,879,810, 3-31-59, Cl. 141-51.
- Craig, Robert D., to Metropolitan-Vickers Electrical Co. Ltd. Variable resolving slit collector for mass spectrometer. 2,887,582, 5-19-59, Cl. 250-41.9.
- Craig, Robert G.: *See—*
- Busch-Petersen, Bent, Cicalese, and Craig. 2,915,570.
- Shirk, Robert M., Craig, and Hoge. 2,915,375.
- Craig, Robert W., to General Railway Signal Co. Railway switch point connection. 2,914,274, 11-24-59, Cl. 246-449.
- Craig Systems, Inc.: *See—*
- Ewart, John M. 2,877,508.
- Craig, W. E., E. Y. Shropshire, and H. F. Wilson, to Rohm & Haas Co.  $\alpha$ -dichloromethylalkylbenzhydrols. 2,881,111, 4-7-59, Cl. 167-30.
- Craig, William A. Abduction walking splint. 2,906,261, 9-29-59, Cl. 128-80.
- Craig, Willis G., and C. O. Miller, to The Lubrizol Corp. Method for preparing esters of di (organo) phosphinothioic acids. 2,881,200, 4-7-59, Cl. 260-461.
- Craigo, Helen E.: *See—*
- Craigo, John M. and H. E. 2,902,769.
- Craigo, John M. and H. E. Denture making appliance. 2,902,769, 9-8-59, Cl. 33-174.
- Crain, R. L., Ltd.: *See—*
- Wright, Duane H. 2,875,689.
- Craine, James F. Intelligence testing apparatus. 2,870,549, 1-27-59, Cl. 35-22.
- Craine, Joseph B.: *See—*
- Robertson, Edwin J., and Craine. 2,876,114.
- Crake, Wilfred S.: *See—*
- Siebenhausen, Christian H., Jr., and Crake. 2,870,609.
- Crake, Wilfred S., to Shell Development Co. Method and apparatus for constructing offshore drilling platforms. 2,907,172, 10-6-59, Cl. 61-46.5.
- Cram, Hervey G. Drainage system and moisture control. 2,885,790, 5-12-59, Cl. 34-48.
- Cramb, Clayton V. Adjustable gage for equalizing clearance between punches and dies for accurate alinement. 2,878,576, 3-24-59, Cl. 33-185.
- Cramer, Clifford H.: *See—*
- Newell, Earl L., Wells, and Cramer. 2,903,500.
- Cramer, Eleanor: *See—*
- Cramer, Raymond H. 2,901,299.
- Cramer, Gunther: *See—*
- Schmitz, Adolf, and Cramer. 2,907,791.
- Cramer Posture Chair Co., Inc.: *See—*
- Scherer, George J. 2,909,212.
- Cramer, Raymond H., deceased, by E. Cramer and R. Gertler, executrices, to General Motors Corp. Journal box. 2,901,299, 8-25-59, Cl. 308-180.
- Cramer, Robert H., to Socony Mobil Oil Co., Inc. Preparation of chromia-copper oxide hydrogels. 2,910,444, 10-27-59, Cl. 252-467.
- Cramer, Robert H., and E. E. Jenkins, to Socony Mobil Oil Co., Inc. Preparation of alumina gels. 2,898,306, 8-4-59, Cl. 252-463.
- Cramer, Trevor K., to Plastene Corp. Mold for annular plastic articles. 2,878,517, 3-24-59, Cl. 18-42.
- Cramer, Trevor K., and A. M. Chabotte, to Plastene Corp. Apparatus for molding parts having irregular outer surfaces. 2,891,283, 6-23-59, Cl. 18-42.
- Crammond, Earle D., to L. M. Schott. Metal strap fastening means. 2,914,827, 12-1-59, Cl. 24-23.
- Crampton, Donald S., to Felt Products Mfg. Co. Gasket mounting. 2,867,464, 1-6-59, Cl. 288-22.
- Crampton, Gale W., to Victor Adding Machine Co. Deviation oscillator. 2,895,554, 8-4-59, Cl. 331-72.
- Crampton, Gale W., L. D. Barter, and R. G. Schuler, to Victor Adding Machine Co. Data reduction system. 2,918,657, 12-22-59, Cl. 340-174.
- Cranberg, Lawrence, to United States of America, Atomic Energy Commission. Apparatus for measuring neutron cross sections. 2,895,051, 7-14-59, Cl. 250-83.3.
- Cranberg, Lawrence, to United States of America, Atomic Energy Commission. Apparatus for measuring total neutron cross sections. 2,908,822, 10-13-59, Cl. 250-83.3.
- Craner, Ray A., J. R. Goertz, and J. W. Graham, to E. I. du Pont de Nemours and Co. Removal of tarry materials in the process for making vinylacetylene from acetylene. 2,914,587, 11-24-59, Cl. 260-678.
- Crandall, A. Ralph, to Phillips Petroleum Co. Brine creaming of latices. 2,886,297, 5-12-59, Cl. 259-4.
- Crandall, Charles B., to Barber-Colman Co. Yarn clearer. 2,909,828, 10-27-59, Cl. 28-64.
- Crandall, Howard W., and J. R. Thomas, to United States of America, Atomic Energy Commission. Separation process for zirconium and compounds thereof. 2,892,681, 6-30-59, Cl. 23-88.
- Crandall, Howard W., T. E. Hicks, B. Rubin, and J. R. Thomas, to United States of America, Atomic Energy Commission. Continuous chelation-extraction process for the separation and purification of metals. 2,916,349, 12-8-59, Cl. 23-14.5.
- Crandall, Loid. Rotary pump. 2,915,982, 12-8-59, Cl. 103-126.
- Crandall, Loid. Amphibian vehicle. 2,916,006, 12-8-59, Cl. 115-1.
- Crandall, Ronald E., to Northrop Aircraft, Inc. Control system components backlash removing device. 2,877,034, 3-10-59, Cl. 287-100.
- Crandell, Francis J. Microseismic detection apparatus and particularly geophones therefor. 2,891,233, 6-16-59, Cl. 340-17.



- Crandon, Albert S., Jr., to American Window Glass Co. Apparatus for drawing sheet glass. 2,896,376, 7-28-59, Cl. 49-17.
- Crandon, Harry D., to American Optical Co. Method of forming reflective surfaces. 2,875,087, 2-24-59, Cl. 117-10.
- Crandon, Harry D., to American Optical Co. Mold for producing lens of any shape from a polymerizable material. 2,890,486, 6-16-59, Cl. 18-39.
- Crane, Amos W., and H. W. Collins, to Eastman Kodak Co. Improved method of extruding a tobacco smoke filter. 2,916,777, 12-15-59, Cl. 18-55.
- Crane, Buren C., P. R. Honan, and A. S. Harlan, to Indiana Commercial Filters Corp. Unidirectionally actuated switching apparatus. 2,904,652, 9-15-59, Cl. 200-84.
- Crane, Carlton L.: *See*—  
Malm, Carl J., and Crane. 2,899,423.
- Crane, Clarence B., to United States of America, Navy. Fuze housing. 2,882,822, 4-21-59, Cl. 102-70.
- Crane Co.: *See*—  
Balje, Otto E., and Stein. 2,904,307.  
Bredtschneider, Kurt B. 2,880,620.  
Bredtschneider, Kurt B., and Hemzacek. 2,887,295.  
Bredtschneider, Kurt B., Onak, and Stuart. 2,899,667.  
Bryant, Corwin W. 2,881,784.  
Carr, Edward W., and Hansen. 2,908,288.  
Carrie, William D. 2,872,895.  
Carrie, William D. 2,885,886.  
Eckman, Harry A. 2,897,093.  
Englert, Joseph A. 2,894,718.  
Gallant, Francis W. 2,912,867.  
Hansen, George E. 2,896,851.  
Hansen, George E., and Carr. 2,868,460.  
Hjullian, Julius A. 2,888,209.  
Hrube, Arthur F. 2,903,994.  
Kanter, Jerome J. 2,912,346.  
Kanter, Jerome J., Lahr, and Havel. 2,911,710.  
Kinsey, Douglas D., Johnson, and Ashby. 2,910,704.  
Nickerson, Douglas B. 2,892,663.  
Nickerson, Douglas B. 2,897,025.  
Petrie, Eugene C. 2,908,018.  
Schmidt, Edward G., and Svabek. 2,876,458.  
Setka, Raymond P. 2,885,174.  
Stein, Clyde R. 2,916,890.  
Stone, Carl R., and Schmidt. 2,875,977.  
Till, Robert A., and Acosta. 2,905,433.  
Zinkil, Roy H. 2,885,180.
- Crane, Edward V., R. L. Curtner, and F. P. Fehn, Sr., to E. W. Bliss Co. Overload clutch. 2,911,080, 11-3-59, Cl. 192-150.
- Crane, Edward V., R. L. Curtner, and W. S. Wagner, to United States of America, Navy. Pilger mill. 2,914,973, 12-1-59, Cl. 80-14.
- Crane, George B.: *See*—  
Hayes, Harry T., and Crane. 2,918,665.
- Crane, George B., to Gillfillan Bros., Inc. Means and techniques for producing instantaneous direction finding information plan position indicator. 2,916,735, 12-8-59, Cl. 343-6.
- Crane, Harold S., to Diamond Gardner Corp. Pulp molding die. 2,903,063, 9-8-59, Cl. 162-411.
- Crane, Hewitt D., to Radio Corp. of America. Magnetic switching systems. 2,896,194, 7-21-59, Cl. 340-174.
- Crane, Hubert R.: *See*—  
Conner, Lyman C. 2,880,782.  
Conner, Lyman C. 2,894,565.
- Crane, Joseph H. Aircraft. 2,880,945, 4-7-59, Cl. 244-12.
- Crane, Moses S. Automatic internal pressure regulating pouring attachment. 2,891,702, 6-23-59, Cl. 222-479.
- Crane Packing Co.: *See*—  
Harper, Leonard L. 2,897,784.  
Hawxhurst, Stephen. 2,868,575.  
Katzke, Ernest F. 2,883,802.  
Payne, Frank E. 2,871,039.  
Payne, Frank E. 2,871,040.  
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Payne, Frank E. 2,899,219.  
Payne, Frank E., and Thayer. 2,877,026.
- Crane, Perry T.: *See*—  
Frankle, Harry R., and Crane. 2,912,240.
- Crane, Robert A., and D. J. Pye, to The Dow Chemical Co. Analytical apparatus. 2,895,055, 7-14-59, Cl. 250-218.
- Crane, Robert L., to Continental Machines, Inc. Band type cutoff saw. 2,883,736, 4-28-59, Cl. 29-68.
- Crane, Robert L., C. E. Cleland, and C. H. Whitmore, to Continental Machines, Inc. Machine for cutting off bar stock. 2,898,669, 8-11-59, Cl. 29-68.
- Crane, Robert W.: *See*—  
McIntosh, Donald J., and Crane. 2,896,799.
- Crane, Samuel P., to R. O. Kent Co. Mount for bicycle saddle cover. 2,914,168, 11-24-59, Cl. 200-79.
- Crane, Samuel P., and S. D. Kent. Casing for ventilated cushions. 2,895,543, 7-21-59, Cl. 155-182.
- Crane, Theodore B. Low bed trailer. 2,889,060, 6-2-59, Cl. 214-85.
- Crane, Walton B., to Allied Plastics Co. Fruit shipping crate. 2,875,939, 3-3-59, Cl. 229-27.
- Crane, Walton B., to Allied Plastics Co. Container for tomatoes and the like. 2,879,886, 3-31-59, Cl. 206-72.
- Crane, Walton B., to Allied Plastics Co. Paperboard shipping crate and interlocked crate unit. 2,903,176, 9-8-59, Cl. 229-27.
- Crane, Walton B., and E. R. Slate, to Allied Container Corp. Box gluing machine. 2,912,908, 11-17-59, Cl. 93-52.
- Crane, William A., and P. R. Honan, to Indiana Commercial Filters Corp. Filter tank cleaning device. 2,916,148, 12-8-59, Cl. 210-527.
- Crane, William W. T.: *See*—  
Higgins, Gary H., and Crane. 2,887,358.
- Cranford, James W., to G. C. Jenkins. Predetermined torque release wrench. 2,918,834, 12-29-59, Cl. 81-52.4.
- Cranke, Alvin L. Apparatus for molding meat products or the like. 2,880,668, 4-7-59, Cl. 100-232.
- Crankshaw, John H., to American Flexible Coupling Co. Flexible coupling. 2,873,588, 2-17-59, Cl. 64-9.
- Crankshaw, John H., to American Flexible Coupling Co. Flexible coupling sleeve with spacer connection. 2,873,589, 2-17-59, Cl. 64-9.
- Crankshaw, John H., to Zurn Industries, Inc. Sound isolating coupling. 2,900,809, 8-25-59, Cl. 64-13.
- Cranston, Albert E., Jr. Elevating turntable for conveyors. 2,897,948, 8-4-59, Cl. 198-35.
- Cranston Print Works Co.: *See*—  
Smith, Graydon. 2,870,705.
- Cranston, Wilber J., to Omak Industries, Inc. Latch mechanism for explosively actuated tool. 2,913,728, 11-24-59, Cl. 1-44.5.
- Crapez, Léon E. Methods of and apparatus for boring wells, drifts and the like. 2,915,288, 12-1-59, Cl. 255-3.
- Crapse, Hasting M.: *See*—  
Tallon, James B., and Crapse. 2,915,264.
- Crapuchettes, Paul W., to Litton Industries, Inc. Magnetron tuner. 2,876,383, 3-3-59, Cl. 315-39.61.
- Crapuchettes, Paul W., to Litton Industries, Inc. Output coupling circuit for cavity resonators. 2,898,560, 8-4-59, Cl. 333-33.
- Crapuchettes, Paul W., to Litton Industries of California. Broadband tuner. 2,906,920, 9-29-59, Cl. 315-39.61.
- Crathern, Charles F. H.: *See*—  
Bailey, Edward A., Bradicich, and Crathern. 2,890,630.
- Crauland, Marc J. L., to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Polyvinyl chloride and poly alkyl tin mercaptosuccinates. 2,910,452, 10-27-59, Cl. 260-45.75.
- Craven, Ernest C.: *See*—  
Elce, Alec, Poulson, and Craven. 2,916,422.
- Craven, Isaac: *See*—  
Huber, Henry, and Craven. 2,869,490.
- Craven, Herman R.: *See*—  
Bookout, Floyd V., Craven, and Johnson. 2,888,165.
- Craven, Wilbur J., to The Capewell Mfg. Co. Saber saw blade. 2,890,728, 6-16-59, Cl. 143-133.
- Cravens, Benjamin B. Column construction and adjustment for a radial saw. 2,870,801, 1-27-59, Cl. 143-6.
- Cravens, Samuel V., to Dominaire Constructions, Inc. Block wall structure. 2,892,338, 6-30-59, Cl. 72-38.
- Cravero, Joseph A., to Republic Aviation Corp. Engine throttle. 2,901,919, 9-1-59, Cl. 74-491.
- Cravero, Joseph A., to Republic Aviation Corp. Speed-responsive control system for vehicle steering mechanisms. 2,906,474, 9-29-59, Cl. 244-50.
- Cravits, Phillip. Wrapping machine. 2,874,527, 2-24-59, Cl. 53-378.
- Crawford, Carl F.: *See*—  
Lewis, Edwin S., and Crawford. 2,918,673.
- Crawford Collets Ltd.: *See*—  
Eve, Leonard F. 2,911,222.
- Crawford, Daniel W., 50% to A. P. Green, Jr. Detachable top for pickup truck bodies. 2,886,375, 5-12-59, Cl. 296-100.
- Crawford, David C.: *See*—  
Olsen, Henry H., and Crawford. 2,886,102.
- Crawford, David J., to International Business Machines Corp. Diode clipping circuit. 2,906,871, 9-29-59, Cl. 250-27.
- Crawford, Donald D. Truck tire bead breaker. 2,893,478, 7-7-59, Cl. 157-1.2.
- Crawford Door Co.: *See*—  
Olsen, Henry H., and Crawford. 2,886,102.  
Starr, Norbert T. 2,898,985.
- Crawford, Earl A. Printing plate and cylinder. 2,898,854, 8-11-59, Cl. 101-415.1.
- Crawford, Earl H. Music rack and instrument support. 2,901,860, 9-1-59, Cl. 45-62.
- Crawford, Francis W., to Phillips Petroleum Co. Earth boring. 2,869,825, 1-20-59, Cl. 255-1.8.
- Crawford, Francis W., to Phillips Petroleum Co. In situ combustion of stratum having an exposed face. 2,899,186, 8-11-59, Cl. 262-3.
- Crawford, Francis W., to Phillips Petroleum Co. Preventing explosions in bore holes during underground combustion operations for oil recovery. 2,913,050, 11-17-59, Cl. 166-11.
- Crawford, George H., Jr.: *See*—  
Lo, Elizabeth S., and Crawford. 2,914,512.
- Crawford, George H., Jr., and E. S. Lo, to Minnesota Mining and Mfg. Co. Fluorine-containing polymers and preparation thereof. 2,909,509, 10-20-59, Cl. 260-87.5.
- Crawford, Harry E., to E. I. du Pont de Nemours and Co. Process for preparing relief images. 2,868,124, 1-13-59, Cl. 101-401.1.



- Crawford, Herman E.: *See*—  
Routh, Herman M., and Crawford. 2,911,808.
- Crawford, Ivan L. Multi-way valve unit having rotary selector valve. 2,881,802, 4-14-59, Cl. 137—622.5.
- Crawford, John L.: *See*—  
Rabelos, Nicholas A. 2,909,236.
- Crawford, John M., and F. Clynych, to Continental Oil Co. Method of coupling a vibrator to an elastic medium. 2,910,134, 10-27-59, Cl. 181—5.
- Crawford, John T.: *See*—  
Curtis, Everett C., and Crawford. 2,888,300.
- Crawford, John W. C.: *See*—  
Cooke, William H., and Crawford. 2,886,429.
- Crawford, John W. C., to United States of America, Atomic Energy Commission. Process for production of uranium. 2,906,618, 9-29-59, Cl. 75—84.1.
- Crawford, Kenneth G.: *See*—  
Venditty, Chester G., and Crawford. 2,873,979.
- Crawford, Loyal D. Self-threading nut. 2,896,495, 7-28-59, Cl. 85—32.
- Crawford Mfg. Co., Inc., The: *See*—  
Antonevich, Michael. 2,880,381.
- Crawford, Ralph W., to Fisher-Price Toys, Inc. Action toy. 2,883,793, 4-28-59, Cl. 46—99.
- Crawford, Richard R.: *See*—  
Brown, Glenn R., Jr., Strecker, and Crawford. 2,874,116.
- Crawford, Robert T., and J. B. Stevens, to Eastman Kodak Co. Tobacco smoke filter elements. 2,900,988, 8-25-59, Cl. 131—208.
- Crawford, Robert V., to Bell Telephone Laboratories, Inc. Radiant energy highway communication system with controlled directive antenna. 2,904,674, 9-15-59, Cl. 250—6.
- Crawford, Robert V., and F. J. Henneberg, to Bell Telephone Laboratories, Inc. Control circuit for indicator. 2,879,460, 3-24-59, Cl. 318—55.
- Crawford, Thomas G., to Westinghouse Electric Corp. Resinous plastic pin. 2,879,010, 3-24-59, Cl. 242—118.32.
- Crawford, Thomas J. Method and apparatus for induction brazing of metal tubing. 2,886,690, 5-12-59, Cl. 219—67.
- Crawford, Thomas P.: *See*—  
McCabe, Ira E. 2,874,522.
- Crawford, Warren M., Jr., to Production and Marketing Co. Rotatable support for a game board. 2,873,938, 2-17-59, Cl. 248—349.
- Crawley, Arthur, T. E. Dugle, and R. W. Wagner, to Crawley Book Machinery, Inc. Single station book pressing and creasing machine. 2,893,023, 7-7-59, Cl. 11—1.
- Crawley Book Machinery, Inc.: *See*—  
Crawley, Arthur, Dugle, and Wagner. 2,893,023.
- Crawley, Carroll L., to Texaco Inc. Method of contacting feed oil with coke in the fluid contact coking of residual oils. 2,894,899, 7-14-59, Cl. 208—127.
- Crawley, Hubert J., and C. Strachey, to International Business Machines Corp. Instruction modifier means for electronics digital computing machines. 2,898,041, 8-4-59, Cl. 235—61.
- Crawley, William P., to American Viscose Corp. Yarn and thread-receiving cores. 2,906,473, 9-29-59, Cl. 242—118.32.
- Crayford, William T.: *See*—  
Wells, Archibald H., and Crayford. 2,888,902.
- Creamer and Dunlap: *See*—  
Creamer, Robert W. 2,904,355.
- Creamer, Edgar M., Jr.: *See*—  
Boothroyd, Wilson P., and Creamer. 2,878,370.
- Creamer, Helen G. Surgical bust pad. 2,867,818, 1-13-59, Cl. 3—36.
- Creamer, Robert W., to Creamer and Dunlap. Pressure responsive, orientated, double seal ring threaded joint. 2,904,355, 9-15-59, Cl. 285—113.
- Creamery Package Mfg. Co., The: *See*—  
Buehler, Leon, Jr. 2,911,801.
- Wakeman, Alden H. 2,867,994.
- Wakeman, Alden H. 2,868,353.
- Wakeman, Alden H. 2,898,861.
- Wakeman, Alden H. 2,901,981.
- Creason, Frank. Machine for pulling pins. 2,911,190, 11-3-59, Cl. 254—18.
- Creasy, Carl E.: *See*—  
Cole, Carrel D. 2,874,987.
- Creasy, Elwood E.: *See*—  
Cole, Carrel D. 2,874,987.
- Creative Metals Corp.: *See*—  
Geitner, Rudolph. 2,893,445.
- Crebbs, Earl R. Dispenser containers. 2,884,162, 4-28-59, Cl. 221—46.
- Crede, Charles E., to Barry Controls Inc. Resilient support. 2,900,161, 8-18-59, Cl. 248—358.
- Crede, Charles E., and B. S. Furbeck, to Barry Controls Inc. Resilient support. 2,900,162, 8-18-59, Cl. 248—358.
- Crede, John H., R. H. Henke, E. L. Pulaski, and C. P. Stroble, to Allegheny Ludlum Steel Corp. Method of producing silicon steel strip. 2,867,557, 1-6-59, Cl. 148—111.
- Creed, Albert B. Tool-holding devices. 2,887,904, 5-26-59, Cl. 74—813.
- Creed and Co., Ltd.: *See*—  
Mason, Frederick P. 2,889,398.
- Mason, Frederick P., and Stemp. 2,903,106.
- Mason, Frederick P., and Stevens. 2,916,682.
- Salmon, Reginald D., Turner, and Burr. 2,882,972.
- Stemp, Ronald G., and Lloyd. 2,914,372.
- Creed, Sherman H.: *See*—  
Freeman, Marshall E. C., Creed, and Bardini. 2,905,216.
- Puccinelli, Sylvio, Creed, and Freeman. 2,883,070.
- Crehan, William J.: *See*—  
Talmey, Paul, and Crehan. 2,908,419.
- Crehan, William J., W. F. Klouse, and P. Talmey, to General American Transportation Corp. Methods of making nickel phosphorous alloys. 2,908,568, 10-13-59, Cl. 75—170.
- Creighton, Albert M., Jr., to Chemical Development Corp. Patch for repairing leak holes in pipe lines and method for applying the same. 2,905,206, 9-22-59, Cl. 138—99.
- Creighton, Ethel C.: *See*—  
Creighton, Millard G. 2,899,218.
- Creighton, Millard G., deceased, by E. C. Creighton, executrix. Adjustable connector for well casings having variably coengaged rotation prevention means. 2,899,218, 8-11-59, Cl. 285—302.
- Creighton, Stanley J. Milk can rack. 2,916,157, 12-8-59, Cl. 211—75.
- Cremer, George D.: *See*—  
Onstott, Edward L., and Cremer. 2,894,837.
- Cremer, William C., and W. E. Bubel; said Cremer to said Bubel. Thread tensioning device for a shirring attachment for sewing machines. 2,881,724, 4-14-59, Cl. 112—101.
- Crep, Michael M. Current control apparatus for testing batteries or the like. 2,883,497, 4-21-59, Cl. 201—48.
- Crep, Michael M. Load rheostat. 2,883,498, 4-21-59, Cl. 201—48.
- Crepinsek, Alois. Safety lock. 2,911,815, 11-10-59, Cl. 70—153.
- Crerar, Adams & Co.: *See*—  
Martin, William O. 2,886,377.
- Crescent Corset Co., Inc.: *See*—  
Peck, Maxine D. 2,908,277.
- Crescent Paper Tube Co., Inc.: *See*—  
Seltman, Paul R. 2,895,511.
- Cresci, Anthony L. Elevating mechanism for truck bodies. 2,899,172, 8-11-59, Cl. 254—8.
- Crespi, Giovanni: *See*—  
Natta, Giulio, and Crespi. 2,896,264.
- Cress, J. J. Co. of New Jersey: *See*—  
Hankin, John H., Jr. 2,902,741.
- Cressman, George W., to General Electric Co. Coating composition for electric lamps. 2,918,595, 12-22-59, Cl. 313—113.
- Cresswell, Arthur, to American Cyanamid Co. Production of polyacrylonitrile filaments. 2,916,348, 12-8-59, Cl. 18—54.
- Cresswell, Robert A., to The British Oxygen Co. Ltd. Electric arc welding. 2,880,302, 3-31-59, Cl. 219—74.
- Cresswell, Robert A., to The British Oxygen Co. Ltd. Electric arc welding. 2,880,375, 3-31-59, Cl. 315—284.
- Cresswell, Robert A., to The British Oxygen Co. Ltd. Fusion welding of metals. 2,908,801, 10-13-59, Cl. 219—74.
- Cresswell, Robert A., and J. R. Bradshaw, to The British Oxygen Co. Ltd. Electric arc cutting. 2,908,798, 10-13-59, Cl. 219—69.
- Cresswell, Robert A., and J. R. Bradshaw, to The British Oxygen Co. Ltd. Method and apparatus for electric arc erosion. 2,908,799, 10-13-59, Cl. 219—69.
- Cresswell, Stephen G., to Sylvania Electric Products Inc. Exhaust tip shield. 2,893,027, 7-7-59, Cl. 15—21.
- Cresswell, Stephen G., and C. J. Schneringer, to Sylvania Electric Products Inc. Dummy inner leads in wafer stems. 2,892,008, 6-23-59, Cl. 174—50.61.
- Cresswell, Stephen G., and K. C. Rupert, to Sylvania Electric Products Inc. Exhaust tube stop plug. 2,911,015, 11-3-59, Cl. 141—65.
- Crest Furniture Corp.: *See*—  
Mathison, Robert V. 2,913,041.
- Crest Lock Co., Inc.: *See*—  
Levine, David. 2,896,755.
- Cretella, Mary C.: *See*—  
Juda, Walter, and Cretella. 2,870,071.
- Cretex Companies, Inc., The: *See*—  
Longfellow, Richard C. 2,869,213.
- Cretin-Maitenaz, Bernard, to Societe en commandite simple et en nom collectif a l'egard de Gerants dite: Societe Industrielle et Commerciale des Ouvriers Lunetiers (Cottet, Poichet, Tagnon & Cie). Multifocal lens having a locally variable power. 2,869,422, 1-20-59, Cl. 88—54.
- Cretin-Maitenaz, Bernard, to Societe Industrielle et Commerciale des Ouvriers Lunetiers (Cottet, Poichet, Tagnon & Cie). Machine for grinding an optical surface in a piece of refractive material. 2,915,856, 12-8-59, Cl. 51—124.
- Creutz, Edward C.: *See*—  
Szilard, Leo, Wigner, and Creutz. 2,886,503.
- Wigner, Eugene P., Szilard, and Creutz. 2,872,401.
- Creutz, Edward C., to United States of America, Atomic Energy Commission. Forming tubes and rods of uranium metal by extrusion. 2,870,907, 1-27-59, Cl. 207—10.
- Creutz, Edward C., to United States of America, Atomic Energy Commission. Refractory die for extruding uranium. 2,899,054, 8-11-59, Cl. 207—17.
- Creutz, Edward C., to United States of America, Atomic Energy Commission. Reactor component. 2,910,177, 10-27-59, Cl. 206—84.
- Creutz, Edward C., L. A. Ohlinger, A. M. Weinberg, and G. J. Young, to United States of America, Atomic Energy Commission. Neutronic reactor. 2,910,418, 10-27-59, Cl. 204—193.2.



- Creveling, Cyrus J., to United States of America, Navy. Electric circuit component. 2,898,521, 8-4-59, Cl. 317-101.
- Creveling, Robert, to United States of America, Atomic Energy Commission. Precision time-delay circuit. 2,878,382, 3-17-59, Cl. 250-27.
- Creveling, Robert, and N. A. Bourgeois, Jr., to United States of America, Atomic Energy Commission. Thyatron switch. 2,883,535, 4-21-59, Cl. 250-27.
- Creveling, Thomas V., D. J. Haag, and T. I. Abbott, to Eastman Kodak Co. Thermographic copying material. 2,899,334, 8-11-59, Cl. 117-36.
- Crevoisier, Marcel, to Societe Nouvelle Dieny & Lucas. Injection-compressor apparatus. 2,918,009, 12-22-59, Cl. 103-7.
- Crew, Beverly L.: *See*—  
Kenrich, Chester M., and Crew. 2,877,447.
- Crowdson, Henry, Jr., to American Viscose Corp. Vane adjusting assembly for pulverized fuel type burner unit. 2,898,874, 8-11-59, Cl. 110-28.
- Crews, Robert W.: *See*—  
Borden, Howard C., and Crews. 2,879,422.
- Cribben and Sexton Co.: *See*—  
Alger, Jerry T. 2,918,119.  
Hellyer, John T. 2,913,930.  
Kendall, Willard E. 2,905,115.  
Tilmann, Richard A. 2,880,717.  
Wahl, Ralph L., and Schmecht. 2,896,975.
- Crick, Leonard E. Ratchet type rotary impact tool. 2,914,978, 12-1-59, Cl. 81-52.3.
- Cridland, John E., to General Electric Co. Recessed double contact strip base. 2,899,671, 8-11-59, Cl. 339-145.
- Crimboli, Alfred P. Circular window construction. 2,868,281, 1-13-59, Cl. 160-92.
- Crimboli, Alfred P. Roll easy window. 2,886,862, 5-19-59, Cl. 20-40.
- Criener, Charles B., to Aluminum Co. of America. Aluminum base alloy. 2,915,390, 12-1-59, Cl. 75-141.
- Criener, Charles B., to Aluminum Co. of America. Aluminum base alloy. 2,915,391, 12-1-59, Cl. 75-142.
- Criener, Harry J.,  $\frac{1}{2}$  to A. G. Bush. Figure-of-eight band blade bread slicing machine. 2,906,309, 9-29-59, Cl. 146-88.
- Cripe, Gene H., to Utility Appliance Corp. Kitchen stove with grease accumulator and indicator. 2,879,708, 3-31-59, Cl. 99-342.
- Cripe, Maxwell L.: *See*—  
Blair, John W., and Cripe. 2,871,065.
- Crippen Mfg. Co.: *See*—  
Frevort, Robert E. 2,908,391.
- Cripps, Harry N., to E. I. du Pont de Nemours and Co. 3-methylene-cyclobutanes. 2,914,541, 11-24-59, Cl. 260-346.3.
- Cripps, Harry N., and J. K. Williams, to E. I. du Pont de Nemours and Co. Trialkylenecyclobutanes and polymers thereof. 2,917,499, 12-15-59, Cl. 260-93.1.
- Crisuolo, Edward L., and D. T. O'Connor, to United States of America, Navy. Radiograph by gas ionization. 2,900,515, 8-18-59, Cl. 250-65.
- Crispin, Thayer S., to Douglas Aircraft Co., Inc. Expansion or contraction compensating clamp. 2,901,012, 8-25-59, Cl. 144-302.
- Crissey, Laverne W., to E. I. du Pont de Nemours and Co. Liquid coating composition of methyl methacrylate polymer and an organophilic cation-modified clay, and process of making. 2,892,804, 6-30-59, Cl. 260-41.
- Crissinger, Woodrow W., to North Electric Co. Switch member. 2,876,307, 3-3-59, Cl. 200-87.
- Crissey, Robert J. Rotary offset printing machine with auxiliary offset cylinder. 2,909,117, 10-20-59, Cl. 101-137.
- Crist, Buckley, to The Coca-Cola Co. Faucets. 2,915,278, 12-1-59, Cl. 251-122.
- Crist, Ralph P., to United States of America, Navy. Hydrogen gas generator. 2,909,119, 10-20-59, Cl. 102-14.
- Cristy, Nicholas G.: *See*—  
Johnston, David B., Johnson, Cristy, and Trautmann. 2,909,400.
- Criswell, Daryl L., to Bendix Aviation Corp. Fuel feed and power control system for gas turbine engines having an engine temperature control. 2,867,084, 1-6-59, Cl. 60-39.28.
- Criswell, Dick M., to Wheeling Steel Corp. Methods and apparatus for induction heating. 2,867,708, 1-6-59, Cl. 219-10.43.
- Criswell, Richard H.: *See*—  
Fenske, Merrell R., and Criswell. 2,899,375.  
Johnson, George F., Marshall, and Criswell. 2,900,366.
- Critchley, William C.: *See*—  
Carlsen, Leonard O., Critchley, and Magee. 2,869,427.
- Critchlow, James T. Multiple compartment container. 2,893,604, 7-7-59, Cl. 222-129.
- Crites, Joe, to Combustion Engineering, Inc. Method of burning granular low volatile fuels. 2,867,182, 1-6-59, Cl. 110-28.
- Crites, Lucile W.: *See*—  
Crites, Virgil C. 2,914,845.
- Crites, Nelson A., to Rockwell-Standard Corp. Bellows damper. 2,878,012, 3-17-59, Cl. 267-1.
- Crites, Nelson A.,  $\frac{1}{2}$  to R. L. Alkire. Weiner-roasting fork. 2,909,987, 10-27-59, Cl. 99-419.
- Crites, Nelson A., to Rockwell-Standard Corp. Twisted spring elements. 2,918,271, 12-22-59, Cl. 267-1.
- Crites, Orr E. Clothes line hanger device. 2,868,388, 1-13-59, Cl. 211-119.1.
- Crites, Virgil C., to L. W. Crites. Method of protecting liners and casings. 2,914,845, 12-1-59, Cl. 29-450.
- Crites, William G. Safety ignition switch for engine ignition systems. 2,868,910, 1-13-59, Cl. 200-61.45.
- Critoph, David I.: *See*—  
Schoepel, John F., and Critoph. 2,909,064.
- Crittenden, Charles B.: *See*—  
Johnson, Thomas H., Mueller, and Crittenden. 2,885,958.
- Crittendon, Lexie R., E. W. Hailston, P. R. Haskell, R. P. Kelly, and W. E. Leek. Securing means for fore-end of autoloading firearm. 2,891,341, 6-23-59, Cl. 42-75.
- Croce, Robert. Garden umbrella. 2,905,187, 9-22-59, Cl. 135-46.
- Croce, Santy M., to Coty, Inc. Atomizer construction. 2,868,586, 1-13-59, Cl. 299-88.
- Croce, Santy M., and J. W. Solomon, to Coty, Inc. Method of filling lipstick containers. 2,879,548, 3-31-59, Cl. 18-59.
- Crocker, Henry P.: *See*—  
Capp, Clifford W., Crocker, and Bellinger. 2,912,471.
- Crocker, Kara: *See*—  
Sola, Samuel L., and Crocker. 2,875,010.
- Crocker, Weyman S.: *See*—  
Lemmerman, Harold H. P., and Crocker. 2,898,434.
- Crockett, Donald K.: *See*—  
Muinch, George, and Crockett. 2,869,804.
- Crockett, Thomas E. Valve device for toilet flush tanks. 2,869,578, 1-20-59, Cl. 137-444.
- Crockett, William P., Jr., to The Setwell Co. Expanding trouser hanger. 2,904,235, 9-15-59, Cl. 223-95.
- Croco, Carlton W., to E. I. du Pont de Nemours and Co. Polyurethane coating compositions. 2,901,467, 8-25-59, Cl. 260-77.5.
- Croft, Arthur, to Crofts (Engineers) Ltd. Friction clutches. 2,897,935, 8-4-59, Cl. 192-93.
- Croft, George M., to Majac, Inc. Particle mill system. 2,909,331, 10-20-59, Cl. 241-39.
- Croft, Kenneth C. Fishing lure. 2,883,785, 4-28-59, Cl. 43-42.9.
- Crofts (Engineers) Ltd.: *See*—  
Croft, Arthur. 2,897,935.
- Crofts, George B. Plural section magnetically variable inductor with frequency tracked systems. 2,870,334, 1-20-59, Cl. 250-40.
- Crohn, Frank. Button-type adjusting devices for dress forms. 2,913,157, 11-17-59, Cl. 223-68.
- Croix, Louise S., to Air Reduction Co., Inc. Preparation of 2,2,2-trifluoroethyl vinyl ether. 2,872,487, 2-3-59, Cl. 262-614.
- Croley, Leo B., to Phillips Petroleum Co. Hydraulic cyclone separation system. 2,886,287, 5-12-59, Cl. 255-1.
- Cromer, Charles F., to Westinghouse Electric Corp. Fluid-blast circuit interrupter. 2,913,559, 11-17-59, Cl. 200-148.
- Cromer, Ford, to Alabasta Optical & Plastic Co. Shoulder rest for telephone handset. 2,910,547, 10-27-59, Cl. 179-157.
- Cromoga, Walter V. Skinning knife. 2,906,021, 9-29-59, Cl. 30-293.
- Crompton, Howard E.: *See*—  
Buckley, Edwin G., and Crompton. 2,876,672.
- Crompton & Knowles Corp.: *See*—  
Cederlund, Albert. 2,897,847.  
Cederlund, Albert, and Hall. 2,918,947.  
Cederlund, Albert, and Kimmel. 2,868,235.  
Cederlund, Albert, Kimmel, and Le Blanc. 2,897,848.  
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Hall, Kenneth J. 2,918,945.  
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Howe, Wilfred C. 2,911,013.  
Kronoff, Clarence R. 2,890,726.  
Kronoff, Clarence R. 2,907,352.  
Krukonis, Alexander C. 2,895,272.  
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Turner, Richard G. 2,902,057.
- Crompton & Knowles Loom Works: *See*—  
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- Cromwell, Carroll W., Jr., to American Enka Corp. Electronic control circuit useful in the manufacture of thick-and-thin yarn. 2,887,620, 5-19-59, Cl. 315-204.
- Cromwell, Harold J.: *See*—  
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- Cromwell, Harold J., to General Motors Corp. Clutch for engine starting device. 2,900,058, 8-18-59, Cl. 192-45.1.
- Cromwell Paper Co. The: *See*—  
Le Bolt, John M., Minow, and Stritof. 2,917,223.
- Cromwell, Thomas M., and G. H. McIntyre, Jr., to United States Borax & Chemical Corp. Separation of boron trichloride. 2,877,864, 3-17-59, Cl. 183-115.
- Cron, Roger G., and R. A. Zuech, to North American Aviation, Inc. Aluminum base alloy. 2,908,566, 10-13-59, Cl. 75-147.
- Cronan, Francis P.: *See*—  
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Cronan, Philip F. and F. P. 2,885,757.
- Cronan, Philip F. and F. P., to Dolan & Bullock Co. Cuff fastener. 2,873,497, 2-17-59, Cl. 24-100.



- Cronan, Philip F. and F. P., to Dolan & Bullock Co. Cuff fastener. 2,885,757, 5-12-59, Cl. 24-97.
- Cronberger, Luther C. Magnetic toy building blocks. 2,872,754, 2-10-59, Cl. 46-26.
- Cronburg, Claude I. L., Jr., and C. S. Yeutter, to Bell Telephone Laboratories, Inc. Automatic transmission regulation. 2,870,271, 1-20-59, Cl. 179-171.9.
- Crone, Alfred F., to Acme Highway Products Corp. Guard device. 2,907,552, 10-6-59, Cl. 256-131.
- Crone, Alton H., to Colourpicture Publishers, Inc. Display support. 2,886,184, 5-12-59, Cl. 211-58.
- Crone, Billie L., and G. L. White, to B J Service, Inc. New squeeze cement process and slurry. 2,890,752, 6-16-59, Cl. 166-22.
- Crone, Robert L.: See—  
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- Cronin, Donald L., to Minneapolis-Honeywell Regulator Co. Generator control system employing semiconductor apparatus. 2,890,404, 6-9-59, Cl. 322-17.
- Cronin, Donald L., to Siegler Corp. Electronic three-phase wave generator. 2,916,687, 12-8-59, Cl. 321-5.
- Cronin, Edward F., to General Electric Co. Low voltage outlet bushing. 2,916,723, 12-8-59, Cl. 339-213.
- Cronin, John P., and A. J. Hennig, to The Upjohn Co. Low viscosity CMC pharmaceutical vehicle. 2,897,120, 7-28-59, Cl. 167-82.
- Croning, Elly M. D.: See—  
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- Croning, Johannes: See—  
Lottermoser, Manfred. 2,881,082.
- Cronk, Milo M., and R. A. Morrison. Mechanical pole switching device. 2,907,476, 10-6-59, Cl. 213-224.
- Cronkrite, John T. Combination automatic shutoff and check valve. 2,914,083, 11-24-59, Cl. 137-491.
- Cronquist, Donald H., to International Business Machines Corp. Air head. 2,905,768, 9-22-59, Cl. 179-100.2.
- Cronsten, Axel G. G.: See—  
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- Crook, Archie W., and P. F. Lewis, to English Electric Valve Co. Ltd. Means for preventing the deleterious effects of X-rays in resonant cavity magnetrons. 2,884,563, 4-28-59, Cl. 315-39.53.
- Crook, Lester O., and D. H. Kincaid, to Colgate-Palmolive Co. Apparatus for and method of controlling the rate of extrusion of a plastic material of varying workability. 2,916,792, 12-15-59, Cl. 25-8.
- Crook, Ronald C.: See—  
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- Crook, William C. H., and R. V. Willsher, to D. Napier & Son Ltd. Optical contour gauging apparatus. 2,883,905, 4-28-59, Cl. 88-24.
- Crooke, Robert C.: See—  
Moon, James, and Crooke. 2,912,495.
- Crooks, Charles E., to Spotnails, Inc. Wing head fastener. 2,875,664, 3-3-59, Cl. 85-28.
- Crooks, Horatio N., to Radio Corp. of America. Static magnetic delay-line. 2,886,799, 5-12-59, Cl. 340-174.
- Crooks, Horatio N., to Radio Corp. of America. Bidirectional static magnetic storage. 2,911,621, 11-3-59, Cl. 340-174.
- Crooks, Horatio N., and R. C. Bitting, Jr., to Radio Corp. of America. Magnetic scanning systems. 2,912,493, 11-10-59, Cl. 178-6.8.
- Crooks, Ralph K., to Westinghouse Air Brake Co. Control and testing means for carrier signaling and communication equipments. 2,914,614, 11-24-59, Cl. 179-15.5.
- Crooks, Sheridan R., and W. A. Reed, to Republic Steel Corp. Increasing the density of iron powder by alternate rolling and grinding. 2,902,357, 9-1-59, Cl. 75-5.
- Crooks, William J. J. Emergency caution lights. 2,894,257, 7-7-59, Cl. 340-366.
- Crooks, William R., to The Cooper-Bessemer Corp. Means to vary the compression ratio of an internal combustion engine during operation. 2,897,804, 8-4-59, Cl. 123-48.
- Croom, Grover C. Cigarette extinguisher. 2,905,185, 9-22-59, Cl. 131-235.
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- Crosby, George A., and H. K. Otto, to Signode Steel Strapping Co. Power strapping machine. 2,915,003, 12-1-59, Cl. 100-26.
- Crosby, Gifford W.: See—  
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- Braunwarth, John B., and Crosby. 2,875,240.
- Braunwarth, John B., and Crosby. 2,905,712.
- Millikan, Allen F., and Crosby. 2,894,951.
- Millikan, Allen F., and Crosby. 2,916,455.
- Crosby, Gilmore E., A. L. Smith, and L. E. Whitmer, to Radio Corp. of America. Activated alumina-dominated phosphors. 2,919,363, 12-29-59, Cl. 313-92.
- Crosby, Glenn R. Scaffold end frame and adapter. 2,872,251, 2-3-59, Cl. 304-2.
- Crosby, Larry: See—  
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- Crosby, Melvin A.: See—  
Shellman, Kenneth S., and Crosby. 2,888,877.
- Crosby, Murray G. Frequency modulation communication system. 2,917,623, 12-15-59, Cl. 250-6.
- Crosby, Peter F., to Sedgwick Machine Works, Inc. Slide-tilt tray filing system. 2,886,183, 5-12-59, Cl. 211-51.
- Crosby, Peter F., to Sedgwick Machine Works, Inc. Storage systems. 2,915,195, 12-1-59, Cl. 211-143.
- Crosby, Ralph H., to Shell Development Co. Catalytic cracking of hydrocarbons with recycling of the stripping vapors. 2,895,907, 7-21-59, Cl. 208-150.
- Crosby, Robert: See—  
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- Crosby, Robert E., Jr.: See—  
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- Crosby, Robert L., to Sperry Rand Corp. Binary-coded decade counter. 2,889,468, 6-2-59, Cl. 307-88.5.
- Crosby Valve & Gage Co.: See—  
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- Crosby, William H., and H. W. Kugler. Intestinal biopsy capsule. 2,881,756, 4-14-59, Cl. 128-2.
- Croset, Louis P. Flexible couplings, dampers, gearwheels and like devices. 2,873,590, 2-17-59, Cl. 64-14.
- Croset, Louis P. Transmission couplings for shafts and the like. 2,897,660, 8-4-59, Cl. 64-6.
- Crosfield, J. F., Ltd.: See—  
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- Crosfield, John F., and G. S. J. Allen, to J. F. Crosfield Ltd. Production of printing surfaces. 2,870,253, 1-20-59, Cl. 178-6.6.
- Crosfield, John F., and D. Gold, to J. F. Crosfield Ltd. Register control of moving webs. 2,873,117, 2-10-59, Cl. 271-2.6.
- Crosfield, John F., and D. Gold, to J. F. Crosfield Ltd. Register control of moving webs. 2,899,143, 8-11-59, Cl. 242-58.3.
- Crosh, Harry W. Drip and spatter guard attachment for a paint roller. 2,896,244, 7-28-59, Cl. 15-248.
- Croslier, Walter J., and J. Klink, to Standard Gage Co., Inc. Dial indicator gage. 2,898,686, 8-11-59, Cl. 33-172.
- Croslier, Walter J., and J. Klink, to Standard Gage Co., Inc. Wire holder for three wire method of measuring threads. 2,906,029, 9-29-59, Cl. 33-167.
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- Crosio, Enrico, to Pirelli Societa per Azioni. Apparatus for the manufacture of hollow articles composed of a plastic material. 2,887,716, 5-26-59, Cl. 18-5.
- Croskey, Frank A., and C. D. Tuttle, to General Motors Corp. Electrostatic spray charger. 2,890,388, 6-9-59, Cl. 317-3.
- Croskey, Frank A., and C. D. Tuttle, to General Motors Corp. Fluid flow switch actuating mechanism. 2,916,576, 12-8-59, Cl. 200-81.9.
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- Cross, Carl F., to Sinclair Refining Co. Sweetening process including reactivation of copper chloride catalyst. 2,914,467, 11-24-59, Cl. 208-195.
- Cross, Carroll D.: See—  
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- Cross, Carroll N., and C. D. Hayhow, said Hayhow assor, to Ad-A-Day Co., Inc. Collapsible stand. 2,916,242, 12-8-59, Cl. 248-198.
- Cross, Cedric B.: See—  
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- Cross, Cedric B., to Package Machinery Co. Underlap forming instrumentalities for wrapping machines. 2,882,665, 4-21-59, Cl. 53-233.
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- Cross, Christopher N. Motor vehicle steering wheel lock. 2,874,562, 2-24-59, Cl. 70-252.
- Cross, Donald J., and W. F. Scanlon, to Sylvania Electric Products Inc. Tuning mechanism. 2,897,681, 8-4-59, Cl. 74-157.
- Cross, Earl F., to The R. C. Mahon Co. Metal building construction. 2,871,998, 2-3-59, Cl. 189-34.
- Cross, Grosvenor M., and R. S. Rymer, to United States of America, Navy. Portable ditching trainer. 2,890,529, 6-16-59, Cl. 35-12.
- Cross, Harrell, and J. A. Midgley. Reversible pitch fan. 2,909,229, 10-20-59, Cl. 170-160.24.
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- Cross, Willis J., Jr., to Houdry Process Corp. Pneumatic lift disengager. 2,887,341, 5-19-59, Cl. 302-59.
- Cross, Willis J., Jr., to Houdry Process Corp. Method for contacting liquid with granular contact material. 2,906,705, 9-29-59, Cl. 208-167.
- Cross, Willis J., Jr., and A. W. Hoge, to Houdry Process Corp. Lift disengager. 2,873,146, 2-10-59, Cl. 302-59.
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- Crossen, William P., H. V. Hall, and E. S. Kant, to United Shoe Machinery Corp. Fastener inserting tools. 2,901,749, 9-1-59, Cl. 1-5.
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- Crossett Chemical Co., a division of The Crossett Co.: See—
- Sandborn, Lloyd T., and Nall. 2,913,309.
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- Crossley Machine Co., Inc.: See—
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- Crossley, Tom A. Envelope fastener. 2,889,105, 6-2-59, Cl. 229-78.
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- Crost, Munsey E., to United States of America, Army. Direct viewing moving target indicator cathode-ray storage tube. 2,873,398, 2-10-59, Cl. 313-66.
- Crost, Munsey E., to United States of America, Army. Voltage sampling apparatus. 2,874,328, 2-17-59, Cl. 315-12.
- Crothers, James W., to United States of America, Army. Insulator ring. 2,912,903, 11-17-59, Cl. 89-1.7.
- Crotty, Harold F., and J. F. Scamman, to General Electric Co. Impulse generating device. 2,894,146, 7-7-59, Cl. 250-231.
- Crotty, John V., and J. C. Tittle, Jr., to General Dynamics Corp. Valve assembly. 2,905,484, 9-22-59, Cl. 284-18.
- Crouch, Donald W., to General Electric Co. Vacuum-type circuit interrupter. 2,892,911, 6-30-59, Cl. 200-144.
- Crouch, Elmer A., to Seeger-Williams, Inc. Equalizing foot attachment. 2,914,135, 11-24-59, Cl. 182-201.
- Crouch, George A. Impact fire extinguisher. 2,911,049, 11-3-59, Cl. 169-26.
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- Crouch, Willie W., to Phillips Petroleum Co. Liquid polydiene coating modified with oil modified alkyd resin. 2,888,417, 5-26-59, Cl. 260-22.
- Croucher, Anthony H. Clutches, brakes and the like. 2,868,342, 1-13-59, Cl. 192-103.
- Crounse, Nathan N., to Sterling Drug Inc. Carboxy-esters of hydroxybenzimidazolyl-stilbenes. 2,878,248, 3-17-59, Cl. 260-240.
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- Crow, Howard M. Sprinkler head. 2,869,925, 1-20-59, Cl. 299-64.
- Crow, Howard M. Rotary fluid coupling apparatus for sprinklers and the like. 2,878,062, 3-17-59, Cl. 299-69.
- Crow, Howard M. Fluid sprinkler. 2,918,220, 12-22-59, Cl. 239-231.
- Crow, Lloyd R., Jr., L. A. Hays, and O. A. Kozeny, to Standard Oil Co. Prevention of acid carry-over and reboiler fouling in cascade sulfuric acid alkylation system. 2,914,592, 11-24-59, Cl. 260-683.62.
- Crow, Robert F. Cutter and feeder for a potato planter. 2,884,973, 5-5-59, Cl. 146-59.
- Crow, Robert P., to Motorola, Inc. Detector circuit. 2,891,156, 6-16-59, Cl. 250-31.
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- Crowder, John A., and E. E. Gilbert, to Allied Chemical Corp. Pyrolysis of benzene hexachloride. 2,895,998, 7-21-59, Cl. 260-650.
- Crowder, John R. S., to M. H. Crowder. Flag container and attaching means. 2,909,147, 10-20-59, Cl. 116-173.
- Crowder, John S.: See—
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- Crowe, Talmadge L., to Baker Oil Tools, Inc. Apparatus for retrieving tools in well bores. 2,893,491, 7-7-59, Cl. 166-103.
- Crowe, William J., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,894,216, 7-7-59, Cl. 333-7.
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- Crowley, Edgar L., N. W. Franke, and R. W. Helwig, to Gulf Research & Development Co. Process for producing dibasic carboxylic acids. 2,878,276, 3-17-59, Cl. 260-452.
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- Crowley, Thomas H., to Bell Telephone Laboratories, Inc. High speed delta modulation encoder. 2,916,553, 12-8-59, Cl. 179-15.6.
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- Crownover, Joseph W., to Electric Machinery Mfg. Co. Electrostrictive capacitive relay having tension mounted actuator. 2,916,578, 12-8-59, Cl. 200-87.
- Crownover, Joseph W. Electrostatic generator and ignition system. 2,917,670, 12-15-59, Cl. 315-209.
- Crownover, Joseph W., and N. R. Smith. Interrupted flash generator. 2,895,081, 7-14-59, Cl. 315-206.
- Crowther, Collins M. Rotary molding machine. 2,875,471, 3-3-59, Cl. 18-20.
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- Crowther, George A., to Sperry Rand Corp. Fuze setting order computer. 2,873,067, 2-10-59, Cl. 235-61.5.
- Crowther, Gerald O., to North American Philips Co., Inc. Circuit arrangement for electric discharge tube. 2,907,922, 10-6-59, Cl. 315-234.
- Crowther, Gerald O., and C. H. Tosswill, to North American Philips Co., Inc. Electric discharge tube. 2,900,551, 8-18-59, Cl. 313-193.
- Crowther, Gerald O., and G. F. Jeynes, to North American Philips Co., Inc. Cold-cathode stopping tube and circuit therefor. 2,905,860, 9-22-59, Cl. 315-84.6.
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Chang, Melvin C. S. 2,912,320.  
Hsiao, Chi-Mei, Dulis, and Payson. 2,909,425.  
Jaffee, Robert I. 2,880,087.  
Jaffee, Robert I., and Ogden. 2,867,534.  
Jaffee, Robert I., and Ogden. 2,880,088.  
Jaffee, Robert I., and Ogden. 2,892,706.  
Jaffee, Robert I., Ogden, and Maykuth. 2,892,704.  
Jaffee, Robert I., Ogden, and Vordahl. 2,892,705.  
Muns, George E., and Berkebile. 2,880,061.  
Payson, Peter. 2,876,096.  
Payson, Peter. 2,914,401.  
Payson, Peter, and Dilworth. 2,867,532.  
Schott, Charles W. 2,902,359.  
Vordahl, Milton B. 2,880,089.
- Cruikshank, George A., to National Aluminate Corp. Slimicides. 2,878,155, 3-17-59, Cl. 162-22.
- Cruise, John H.: *See*—  
Schroeder, Henry, and Cruise. 2,905,157.
- Cruise, John H., and H. Schroeder, to Combustion Engineering, Inc. Fuel firing organization and method. 2,878,792, 3-24-59, Cl. 122-478.
- Crumbliss, Ranza A. Ignition coil. 2,867,785, 1-6-59, Cl. 336-178.
- Crumley, Lloyd I., to Archer-Daniels-Midland Co. Secondary chopping unit, self feeder mounted. 2,881,815, 4-14-59, Cl. 146-119.
- Crumley, Lloyd I., and R. C. Fulton, to Archer-Daniels-Midland Co. Gas-tight seal for boxcar outlets. 2,906,327, 9-29-59, Cl. 160-380.
- Crumley, Lloyd I., and R. C. Fulton, to Archer-Daniels-Midland Co. Pressure relief valve. 2,917,071, 12-15-59, Cl. 137-251.
- Crümmenerl, Gerhard: *See*—  
Ackermann, Hugo, and Crümmenerl. 2,917,813.
- Crummer, Charles K., and J. A. C. Kehoe. Decoy. 2,880,544, 4-7-59, Cl. 43-3.
- Crump, Elmo E.: *See*—  
Foster, Harry R., Crump, and Demarest. 2,906,832.
- Crump, James S., to Jersey Production Research Co. Method of increasing recovery of oil. 2,880,801, 4-7-59, Cl. 166-9.
- Crump, Ralph E., to Electrofilm, Inc. Solid lubricant films having vitreous enamel binders. 2,901,380, 8-25-59, Cl. 117-129.
- Crumrine, Albert W.: *See*—  
Morgan, Milford B., and Crumrine. 2,886,180.
- Crumrine, Herbert E.: *See*—  
Hayford, Richard E., and Crumrine. 2,911,944.
- Cruser, Roland T. Expansion joint structures for plastered walls. 2,904,992, 9-22-59, Cl. 72-121.
- Crutcher-Rolfs-Cummings, Inc.: *See*—  
Cummings, James D. 2,909,825.
- Crutchett, Richard H.: *See*—  
Rudolph, Nathan H., and Crutchett. 2,908,416.
- Cryer, John, to The Sherwin-Williams Co. Ammonolysis of meta nitro para cresol. 2,894,988, 7-14-59, Cl. 260-581.
- Csabi, William A., to Ford Motor Co. Heater air conditioning ductwork. 2,876,998, 3-10-59, Cl. 257-7.
- Csanyi, Ladis H., to Iowa State College Research Foundation, Inc. Method for combining a bituminous binder with an aggregate material. 2,917,395, 12-15-59, Cl. 106-122.
- Csapo, John, to The Electric Storage Battery Co. Production of dry-charged battery plates. 2,889,388, 6-2-59, Cl. 136-33.
- Csendes, Ernest, to E. I. du Pont de Nemours and Co. 2,2'-di-thiobisbenzothiazole and 2-mercaptobenzothiazole ZnCl<sub>2</sub> and CdCl<sub>2</sub> complexes. 2,870,157, 1-20-59, Cl. 260-299.
- Csendes, Ernest, to E. I. du Pont de Nemours and Co. Chromic salts of o-alkoxy-o'-hydroxy monoazo compounds. 2,871,232, 1-27-59, Cl. 260-147.
- Csendes, Ernest, and I. W. Dobratz, to E. I. du Pont de Nemours and Co. Process of producing high-purity, half-chromed azo dyes. 2,885,392, 5-5-59, Cl. 260-145.
- Cserny, Ludwig, and J. Schmitz, to Chemische Werke Albert. Process for improving the flowing qualities of phenol-formaldehyde molding compositions and molding compositions resulting therefrom. 2,897,171, 7-28-59, Cl. 260-32.8.
- Csillingh, Dezsó, to "Licencia" Talalmanyoklat Ertekesito Valalat. Grid-controlled mercury-arc rectifier. 2,897,404, 7-28-59, Cl. 315-205.
- Cubitt, Kenneth H., and J. W. Leonard, to The Educational Supply Association Ltd. Aircraft hangar doors. 2,869,635, 1-20-59, Cl. 160-118.
- Cuccia, Carmen L.: *See*—  
Donal, John S., Jr., and Cuccia. 2,912,613.
- Cuccia, Carmen L., to Radio Corp. of America. Electron beam tubes. 2,870,368, 1-20-59, Cl. 315-5.49.
- Cuccia, Carmen L., to Radio Corp. of America. Color synchronizing circuit. 2,875,272, 2-24-59, Cl. 178-5.4.
- Cuchiaro, Anthony. Smoking-pipe reamer. 2,891,559, 6-23-59, Cl. 131-246.
- Cuckson, Eric E.: *See*—  
Jones, Arthur L., and Cuckson. 2,891,583.
- Cuckson Textiles Proprietary Ltd.: *See*—  
Jones, Arthur L., and Cuckson. 2,891,583.
- Cuculo, John A., to E. I. du Pont de Nemours and Co. Treatment of filaments to improve strength in tension. 2,880,057, 3-31-59, Cl. 18-54.
- Cucuro, James. Fishing pole attachment. 2,910,797, 11-3-59, Cl. 43-17.
- Cudahy Packing Co., The: *See*—  
Douglass, William F., and Phalen. 2,901,354.
- Cudd, Joseph D. Garment holder. 2,888,725, 6-2-59, Cl. 24-84.
- Cudd, Joseph D. Trousers hanger. 2,907,504, 10-6-59, Cl. 223-88.
- Cuddon-Fletcher, Angus H. Two-stroke internal combustion engines. 2,886,018, 5-12-59, Cl. 123-51.
- Cudini, Roger G., to Moynahan Bronze Co. Panel construction and assembly. 2,867,856, 1-13-59, Cl. 20-11.
- Cue Fastener, Inc.: *See*—  
Burbank, John E. 2,877,844.  
Burbank, John E. 2,880,489.  
Burbank, John E. 2,909,824.  
Neitlich, Irving M. 2,891,282.
- Cuesta, Francisco G. Safety pneumatic tire wheel. 2,884,983, 5-5-59, Cl. 152-363.
- Cuevas, Daniel S., to Mariani Frozen Foods Corp. Melon-ball forming device. 2,911,718, 11-10-59, Cl. 30-272.
- Cugini, John A., to Draper Corp. Loom thread cutter. 2,886,070, 5-12-59, Cl. 139-266.
- Cuker, Seymour, to Jacqueline Modes, Inc. High frequency luminescent sign. 2,901,674, 8-25-59, Cl. 315-248.
- Cuker, Seymour, to Jacqueline Modes, Inc. Coupling and tuning circuit for high frequency luminescent sign. 2,913,631, 11-17-59, Cl. 315-248.
- Culbertson, Harry M.: *See*—  
Williams, Byron L., Jr., and Culbertson. 2,914,508.  
Williams, Byron L., Jr., and Culbertson. 2,916,467.
- Culbertson, James A., to The Goodyear Tire & Rubber Co. Disc type brake. 2,909,245, 10-20-59, Cl. 188-72.
- Culbertson, John L., to International Telephone and Telegraph Corp. Combined toll and free-service telephone trunking system. 2,874,224, 2-17-59, Cl. 179-18.
- Culbertson, John L., to International Telephone and Telegraph Corp. Code-ringing call-intercepting telephone system. 2,888,519, 5-26-59, Cl. 179-27.
- Culbertson, Lewis A. Sectional combined onboard motor and generating plant. 2,879,738, 3-31-59, Cl. 115-17.
- Culbreth, Marvin K.: *See*—  
Monroe, Robert H., Culbreth, and Molla. 2,882,958.
- Culk, Raimund. Electric-motor drive for a compressor having a horizontal drive shaft. 2,911,549, 11-3-59, Cl. 310-86.
- Cull, Neville L.: *See*—  
Fasce, Egi V., and Cull. 2,904,542.
- Cull, Neville L., and C. L. Aldridge, to Esso Research and Engineering Co. Modified carbonylation reaction. 2,908,721, 10-13-59, Cl. 260-638.
- Cull, Neville L., and J. K. Mertzweiler, to Esso Research and Engineering Co. Polymerization process. 2,913,446, 11-17-59, Cl. 260-94.9.
- Cullen, Graeme E., and P. J. A. Turner, to Kelvin & Hughes Ltd. Force responsive servosystem. 2,904,735, 9-15-59, Cl. 318-32.
- Cullen, Orville E., to Surface Combustion Corp. Heat treating apparatus. 2,900,990, 8-25-59, Cl. 134-57.
- Cullen, Roy H., L. D. Richards, and H. H. Hodgeman, said Richards and Hodgeman assors. to said Cullen. Apparatus for handling hose or similar elongate members. 2,892,535, 6-30-59, Cl. 203-305.
- Cullen, Roy H., and L. D. Richards; said Richards assor. to said Cullen. End coupling for hose. 2,915,323, 12-1-59, Cl. 285-149.
- Cullen, Russell R.: *See*—  
Coffman, Alden W., and Cullen. 2,876,871.  
Coffman, Alden W., and Cullen. 2,918,993.
- Cullender, Henry F., to Sparklets Ltd. Valve actuating device. 2,893,259, 7-7-59, Cl. 74-424.8.
- Culleton, Robert J., and J. W. Kragh, to North American Aviation, Inc. Pressure cap with dump valve and pressure relief valve. 2,899,114, 8-11-59, Cl. 222-396.
- Culley, Lee B. Water level indicators for motor vehicles. 2,877,318, 3-10-59, Cl. 200-84.
- Culley, Lee B. Float controlled switch. 2,907,845, 10-6-59, Cl. 200-84.
- Culligan, Inc.: *See*—  
Schulze, Robert E. 2,881,091.
- Culmer, Thaddeus W., to H. Stewart. Oil additive and process for its preparation. 2,902,511, 9-1-59, Cl. 260-504.
- Culp, Eugene H.: *See*—  
Elliott, Daniel R., Culp, and Hulswit. 2,901,242.
- Culp, Stanford. Steering mechanism. 2,876,651, 3-10-59, Cl. 74-388.
- Culpepper, Albert D., 1/2 to P. Muse. Extensible conveyor. 2,919,013, 12-29-59, Cl. 198-139.
- Culpepper, William B., and J. C. McGaw, to United States of America, Navy. Means for converting polar coordinates into shaft positions. 2,889,627, 6-9-59, Cl. 33-1.
- Culver, Ezra L. Precast concrete swimming pool. 2,902,157, 9-1-59, Cl. 210-169.
- Culver, George G. and W. L. Fence post. 2,899,175, 8-11-59, Cl. 256-48.



- Culver, Leonard J., to Foster Wheeler Corp. Steam power plant including reheat boiler cycle. 2,874,543, 2-24-59, Cl. 60-73.
- Culver, Walter L.: *See*—  
Culver, George G. and W. L. 2,899,175.
- Cumberland Case Co. The: *See*—  
Camp, Dempsey C., and Robinson. 2,894,717.  
Robinson, Charles T. 2,868,222.
- Cummin, Alfred S., and J. R. Hutzler, to General Electric Co. Capacitor and dielectric material therefor. 2,872,630, 2-3-59, Cl. 317-258.
- Cummings, James M., and L. R. Ludwig, to United States of America, Atomic Energy Commission. Calutron tank. 2,900,509, 8-18-59, Cl. 250-41.9.
- Cumming, Ronald W., and J. R. Green, to Commonwealth of Australia, Crown Solicitor's Office. Gyroscope driving means. 2,918,869, 12-29-59, Cl. 102-49.
- Cummings, Albert B.: *See*—  
Moseman, Amos K., and Cummings. 2,898,691.
- Cummings, Albert K. Valve having clamped resilient inserts. 2,918,078, 12-22-59, Cl. 137-332.
- Cummings, Harold R.: *See*—  
Zunick, Michael J., and Cummings. 2,885,583.
- Cummings, Harold R., to General Electric Co. X-ray tube. 2,890,358, 6-9-59, Cl. 313-58.
- Cummings, Ira J.: *See*—  
Peterson, Norman R., and Cummings. 2,917,476.
- Stibbert, Elmer K., Jr., Cummings, and Clock. 2,912,392.
- Stibbert, Elmer K., Jr., Cummings, and Clock. 2,912,393.
- Stibbert, Elmer K., Jr., Cummings, and Clock. 2,912,394.
- Cummings, James D., to Crutcher-Rolfs-Cummings, Inc. Asphalt coating of pipe. 2,909,825, 10-27-59, Cl. 25-38.
- Cummings-Landau Laundry Machinery Co., Inc.: *See*—  
Huttrer, Martin. 2,912,194.
- Cummings, Leland W. T., to Sun Oil Co. Inhibiting vapor loss from liquids. 2,907,627, 10-6-59, Cl. 21-60.5.
- Cummings, Leslie L., to Otis Engineering Corp. Gas lift valve. 2,875,775, 3-3-59, Cl. 137-155.
- Cummings, Leslie L., to Otis Engineering Corp. Control valve for pipe strings. 2,904,058, 9-15-59, Cl. 137-155.
- Cummings, Louis F. Buckle. 2,876,516, 3-10-59, Cl. 24-75.
- Cummings, Lowell O.: *See*—  
Christenson, Roger M., and Cummings. 2,871,208.
- Christenson, Roger M., and Cummings. 2,919,261.
- Cummins, Nicholas A.: *See*—  
Shiu, Thomas B. 2,909,878.
- Cummings, Ralph J.: *See*—  
Reed, Willis E., and Cummings. 2,896,354.
- Reed, Willis E., and Cummings. 2,896,875.
- Cummings, Ralph J., and W. E. Reed, to Willis E. Reed & Co. Bober. 2,908,991, 10-20-59, Cl. 43-44.88.
- Cummings, Robert L., to Thompson Ramo Wooldridge Inc. Nozzle. 2,907,527, 10-6-59, Cl. 239-135.
- Cummings, Thomas N.: *See*—  
Shiu, Thomas B. 2,909,878.
- Cummings, Thomas N., B. R. Peterson, Jr., and T. B. Shiu, to CPS Mfg. Co. Container wrapping assemblage. 2,909,877, 10-27-59, Cl. 53-180.
- Cummington Corp.: *See*—  
Dexter, Robert G., and Willett. 2,901,249.
- Cummins-Chicago Corp.: *See*—  
Quinn, James L., and Duncan. 2,903,133.
- Quinn, James L., and Duncan. 2,910,991.
- Cummins, Claude A.: *See*—  
Bennett, Wallis R., and Cummins. 2,914,492.
- Cummins, Clessie L. Diesel engine braking control. 2,876,876, 3-10-59, Cl. 192-3.
- Cummins, Orville: *See*—  
Homer, Howard J., and Cummins. 2,916,400.
- Cundall, Lincoln A., and W. H. Blaisdell, to Eastman Kodak Co. Sheet feeding and turning apparatus. 2,904,334, 9-15-59, Cl. 271-65.
- Cunder, Joseph, and F. J. Licata, to Nopeco Chemical Co. Aluminum soap water-proofing composition and process of making the same. 2,868,666, 1-13-59, Cl. 106-243.
- Cunder, Joseph, and F. J. Licata, to Nopeco Chemical Co. Mixed aluminum soap compositions. 2,887,457, 5-19-59, Cl. 260-17.
- Cundiff, Winston H., and D. J. Donaldson, to Kaiser Aluminum & Chemical Corp. Heating apparatus and method. 2,868,523, 1-13-59, Cl. 261-77.
- Cuneo Press, Inc. The: *See*—  
Allegretti, Anthony J., and Fischer. 2,897,523.
- Cunha, Lawrence R. Bottle sorting mechanism. 2,881,918, 4-14-59, Cl. 209-90.
- Cunniff, Thomas W., to Westinghouse Electric Corp. Compensation means for cathode ray tubes. 2,900,544, 8-18-59, Cl. 313-77.
- Cunning Controller Corp.: *See*—  
Cunningham, Violet R. 2,900,984.
- Cunningham, Arthur R. Adjustable drag for tedder. 2,899,795, 8-18-59, Cl. 56-370.
- Cunningham, Atee M. Continuous weigher and feeder. 2,889,077, 6-2-59, Cl. 222-77.
- Cunningham, Claude J., and J. J. Labaj, to Horrocks-Ibbotson Co. Fishing rod. 2,885,816, 5-12-59, Cl. 43-22.
- Cunningham, Eldon R., to General Electric Co. Resilient mounting. 2,905,411, 9-22-59, Cl. 248-26.
- Cunningham, Elijah P., and D. W. Dinsmore. Anti-rust emulsion resistant mineral oil composition. 2,908,649, 10-13-59, Cl. 252-49.9.
- Cunningham, Ernest R., Jr. Power loaders and loading buckets therefor. 2,885,103, 5-5-59, Cl. 214-510.
- Cunningham, Eugene, to American Mfg. Co., Inc. Caul pulling mechanisms. 2,907,479, 10-6-59, Cl. 214-16.6.
- Cunningham, Floyd E. Anti-tilt attachment for tractors. 2,896,966, 7-28-59, Cl. 280-150.
- Cunningham, Francis V., to McGraw-Edison Co. Spark gap assembly. 2,891,193, 6-16-59, Cl. 315-36.
- Cunningham, Francis V., to McGraw-Edison Co. Spark gap constructions. 2,896,116, 7-21-59, Cl. 315-36.
- Cunningham, Francis V., to McGraw-Edison Co. Arc arrester spark gap. 2,917,662, 12-15-59, Cl. 315-36.
- Cunningham, Frederick W., to American Bosch Arma Corp. Motor control system for automatic machine tools. 2,916,931, 12-15-59, Cl. 74-409.
- Cunningham, George L., to Horizons Inc. Electrolytic production of hydrides. 2,867,568, 1-6-59, Cl. 204-61.
- Cunningham, George L., to Horizons Inc. Electrolytic process. 2,880,147, 3-31-59, Cl. 204-3.
- Cunningham, George L., to Horizons Inc. Process for producing substantially pure orthophosphoric acid. 2,885,265, 5-5-59, Cl. 23-165.
- Cunningham, George L., to Callery Chemical Co. Two liquid layer salt conversion process. 2,900,223, 8-18-59, Cl. 23-14.
- Cunningham, George L., J. M. Bryant, and E. M. Gause, to Callery Chemical Co. Preparation of potassium borohydride. 2,874,024, 2-17-59, Cl. 23-14.
- Cunningham, George L., and F. Pretka, to Callery Chemical Co. Method for recovery of trialkyl borates from metal tetraalkoxyborates. 2,894,975, 7-14-59, Cl. 260-462.
- Cunningham, George L., and F. E. Romesberg, to University of Cincinnati Research Foundation. Manufacture of peroxyhydrates and superoxides of the alkali metal peroxides. 2,908,552, 10-13-59, Cl. 23-184.
- Cunningham, Ira. Automatic equalizer adjustment mechanism for reel type lawn mowers. 2,896,390, 7-28-59, Cl. 56-249.
- Cunningham, James A., and A. W. Holt, to United States of America, Commerce. Diode amplifier and computer circuitry. 2,913,600, 11-17-59, Cl. 307-88.5.
- Cunningham, James B.: *See*—  
Harley, Joseph J., and Cunningham. 2,877,720.
- Cunningham, James M., to E. R. and D. C. Chilcott, d. b. a. Techno Instrument Co. Recording sheet and means for mounting same on a rotary drum. 2,869,966, 1-20-59, Cl. 346-74.
- Cunningham, James M., to International Business Machines Corp. Low inertia magnetic disc clutch. 2,876,880, 3-10-59, Cl. 192-84.
- Cunningham, James M., to International Business Machines Corp. Toll highway recorder. 2,907,521, 10-6-59, Cl. 235-99.
- Cunningham, James M., to International Business Machines Corp. Code converting machines. 2,910,534, 10-27-59, Cl. 178-26.
- Cunningham, Jess B. Detachable mopheads and frames therefor. 2,893,038, 7-7-59, Cl. 15-229.
- Cunningham, John C., to Olin Mathieson Chemical Corp. Apparatus for treating plastic material. 2,882,412, 4-14-59, Cl. 250-49.5.
- Cunningham, John H. Basketball no-tie net to goal attaching means. 2,884,249, 4-28-59, Cl. 273-1.5.
- Cunningham, John R., and M. Ludwig, to Standard Oil Co. of California. Chemical reactor. 2,907,644, 10-6-59, Cl. 23-284.
- Cunningham, John W., and R. S. and G. W. Singleton, to L. V. Singleton, d.b.a Russell A. Singleton & Sons. Method for producing resin treated leather. 2,885,300, 5-5-59, Cl. 117-7.
- Cunningham, Marion M., to United States Rubber Co. Towing rig for collapsible containers. 2,893,746, 7-7-59, Cl. 280-29.
- Cunningham, Robert E., and H. R. Sizler, Jr., to Rendix Aviation Corp. High frequency amplifier circuit. 2,901,561, 8-25-59, Cl. 179-171.
- Cunningham, Samuel C., and E. H. Shaw. Bucket for conveying concrete. 2,901,148, 8-25-59, Cl. 222-185.
- Cunningham, Violet R., to Cunningham Controller Corp. Foundation garment. 2,900,984, 8-25-59, Cl. 128-556.
- Cunningham, Walter F., to Superior Tabbies, Inc. Index tabs. 2,893,144, 7-7-59, Cl. 40-23.
- Cunningham, William A.: *See*—  
Pucher, Leo E., Cunningham, and Szabo. 2,880,258.
- Cunningham, William J., and C. Woolf, to Allied Chemical Corp. Manufacture of chlorofluoro propenes. 2,917,558, 12-15-59, Cl. 260-653.4.
- Cuno Engineering Corp. The: *See*—  
Ashton, Philip E. 2,873,030.
- Ashton, Philip E., and Schnick. 2,895,036.
- Sicard, Marcel C. 2,887,230.
- Cuny, Robert, to Aktiengesellschaft Brown, Boveri & Cie. Device for sealing moving parts of gas-filled machines. 2,903,280, 9-8-59, Cl. 286-9.
- Cuorato, John J., and F. P. Sims, to I-T-E Circuit Breaker Co. Circuit breaker interlock means. 2,912,533, 11-10-59, Cl. 200-50.
- Cupak, Karel, to Koh-i-noor Prosecc n. Nisou, narodni podnik. Disc device for automatically shifting the carriage of a calculating machine. 2,902,878, 9-8-59, Cl. 74-435.
- Cupak, Karel, to Koh-i-noor Prosecc n. Nisou, narodni podnik. Rotational coupling device. 2,905,002, 9-22-59, Cl. 74-84.



- Cupedo, Douwe J. Stop valve actuating mechanism. 2,872,820, 2-10-59, Cl. 74-2.
- Cupedo, Douwe J. Stop valve comprising a screw spindle. 2,885,906, 5-12-59, Cl. 74-625.
- Cupery, Martin E., to E. I. du Pont de Nemours and Co. Compositions of a copolymer of an alkoxyalkyl alpha-alkyl acrylate with acrolein and an organic heavy metal salt drier. 2,876,211, 3-3-59, Cl. 260-73.
- Cupery, Martin E., to E. I. du Pont de Nemours and Co. Composition of a polymer of an alkoxyalkyl alpha-alkyl acrylate, a heavy metal salt drier and an aldehyde. 2,876,212, 3-3-59, Cl. 260-73.
- Cupp, Frederick B.: *See*—  
Frankel, Burton, and Cupp. 2,887,671.
- Cüppers, Curt, and K. Kirchhübel, to "Oculus" Optikgerate G.m.b.H. Ophthalmological hand instrument for the examination of the retina of the eye. 2,902,899, 9-8-59, Cl. 88-20.
- Curbell Industries, Inc.: *See*—  
Newell, Robert C., and Schopf. 2,885,819.
- Curell, Conrad O., to Kaiser Aluminum & Chemical Corp. Monocoque semi-trailer construction. 2,901,283, 8-25-59, Cl. 296-28.
- Curello, Charles: *See*—  
Burgess, Robert W., Baehr, and Curello. 2,907,290.
- Curl, Robert B., and H. H. Butler, Jr. Resilient roller potato digger attachment. 2,900,068, 8-18-59, Cl. 198-65.
- Curlator Corp.: *See*—  
Buresh, Francis M., and Langdon. 2,876,500.
- Langdon, Howard H., Buresh, Castor, and Marks. 2,890,497.
- Curler, Howard J., and R. M. Bauer, to American Can Co. Method of obtaining a glossy wax coating on paper and resultant product. 2,892,735, 6-30-59, Cl. 117-64.
- Curlett, John: *See*—  
Gurries, Raymond A., and Curlett. 2,870,555.  
Gurries, Raymond A., and Curlett. 2,883,777.  
Gurries, Raymond A., and Curlett. 2,900,746.  
Gurries, Raymond A., and Curlett. 2,902,979.
- Curme, Henry G.: *See*—  
Griggs, William H., and Curme. 2,875,054.
- Curran, Bernard E., to H. H. Robertson Co. Building and air distributing structure. 2,908,211, 10-13-59, Cl. 98-31.
- Curran, Bernard E., to H. H. Robertson Co. Duct unit for an air conditioning system. 2,910,926, 11-3-59, Cl. 98-41.
- Curran, Bernard E., to H. H. Robertson Co. Building and air conditioning structure. 2,911,898, 11-10-59, Cl. 98-31.
- Curran, Bernard E., to H. H. Robertson Co. Cell end connector for use in a building and air distributing structure. 2,915,955, 12-8-59, Cl. 98-31.
- Curran, Bernard E., to H. H. Robertson Co. Airtight joints for air conducting floor cells. 2,916,110, 12-8-59, Cl. 189-34.
- Curran, Bernard E., and G. E. Kautz, to H. H. Robertson Co. Damper control apparatus for dual duct air conditioning system. 2,883,111, 4-21-59, Cl. 236-1.
- Curran, Bernard E., and G. E. Kautz, to H. H. Robertson Co. Damper control apparatus for dual duct air conditioning system. 2,898,044, 8-4-59, Cl. 236-1.
- Curran, Francis J.: *See*—  
Traudt, Stephen C., Curran, and Beale. 2,908,464.
- Curran, Frank J.: *See*—  
Sundell, Harold C. 2,871,616.
- Curran, Frank J. Packaged insect repellent. 2,896,853, 7-28-59, Cl. 239-57.
- Curran, John B., and J. L. Grahek, to Sprout, Waldron & Co., Inc. Pellet mill. 2,887,718, 5-26-59, Cl. 18-12.
- Curran, John J., to Gadget-Of-The-Month Club, Inc. Water closet ball valve guide. 2,895,141, 7-21-59, Cl. 4-57.
- Curran, John R., to General Controls Co. Valve. 2,918,087, 12-22-59, Cl. 137-625.3.
- Curran, Bertha A. Support girdle. 2,878,811, 3-24-59, Cl. 128-536.
- Currens, Ransom L.: *See*—  
Nielsen, Carl A., Bushey, and Currens. 2,888,921.
- Current, Farmer L., and G. E. Mohnkern, to United States Steel Corp. Method of coating the interior of cylinders. 2,80,109, 3-31-59, Cl. 117-22.
- Currey, Charles H.: *See*—  
Freeman, Robert L., and Currey. 2,884,567.
- Currey, Charles H., to A. C. Nielsen Co. Decimal-to-binary converter for system for recording listening or viewing habits of wave signal receiver users. 2,881,417, 4-7-59, Cl. 340-347.
- Currie, Courtland B., and R. S. Loveland, to Minneapolis-Honeywell Regulator Co. Combination valve control. 2,868,457, 1-13-59, Cl. 236-48.
- Currie, Donald. Tractor corn picker attachment. 2,903,834, 9-15-59, Cl. 56-18.
- Currie, Frank L.: *See*—  
Allen, Samuel G., II, Currie, and McManus. 2,874,218.
- Currie, Gerard: *See*—  
Jones, Clarence S., and Currie. 2,910,579.
- Currie, Grover C. Carton setting up machine. 2,887,020, 5-19-59, Cl. 93-51.
- Currie, Grover C., Jr., to Decam Corp. Carton. 2,899,123, 8-11-59, Cl. 229-40.
- Currie, Grover C., and P. L. Alexander, Jr., to Dacam Corp. Apparatus and method for packaging cans or the like. 2,885,841, 5-12-59, Cl. 53-26.
- Currie, Grover C., B. D. Dans, M. B. Dunn, and J. R. Sweginis, to Dacam Corp. Carton forming apparatus and method. 2,893,183, 7-7-59, Cl. 53-29.
- Currie, James W., and H. L. Jackson, to Westinghouse Electric Corp. Inflatable antenna structure. 2,913,726, 11-17-59, Cl. 343-872.
- Currie, Malcolm R., to Hughes Aircraft Co. Low noise traveling-wave tube. 2,869,021, 1-13-59, Cl. 315-3.5.
- Currie, Malcolm R., to The Regents of The University of California. Microwave cavity filter. 2,890,421, 6-9-59, Cl. 333-73.
- Currie, Malcolm R., to Hughes Aircraft Co. Broad-band backward-wave amplifier. 2,911,558, 11-3-59, Cl. 315-3.6.
- Currie, Malcolm R., to Hughes Aircraft Co. Low noise electron gun. 2,914,699, 11-24-59, Cl. 315-31.
- Currie, Malcolm R., to The Regents of The University of California. Backward wave tube. 2,916,658, 12-8-59, Cl. 315-3.6.
- Currier, Vernon A.: *See*—  
Bell, John B., Jr., and Currier. 2,915,550.  
Bell, John B., Jr., Currier, and Malkemus. 2,915,529.
- Currison, Loren B.: *See*—  
Atkinson, Donald L., and Currison. 2,898,765.
- Currison, Loren E., to Lear, Inc. Instrument shock mount. 2,867,405, 1-6-59, Cl. 248-358.
- Currison, Loren E., to Lear, Inc. No inertia torque tester. 2,887,875, 5-26-59, Cl. 73-9.
- Curriwan, John F. Cartons. 2,870,949, 1-27-59, Cl. 229-14.
- Curriwan, John F., to Carton Associates Inc. Packaging apparatus. 2,877,614, 3-17-59, Cl. 53-240.
- Curriwan, John F., to Carton Associates, Inc. Apparatus for loading cartons. 2,918,765, 12-29-59, Cl. 53-48.
- Curry, Arnet A., to Motorola, Inc. Radio dispatching system for railroad use. 2,883,521, 4-21-59, Cl. 250-6.
- Curry, Bruce R.: *See*—  
Panning, Martin H., and Curry. 2,894,697.  
Panning, Martin H., and Curry. 2,917,342.
- Curry, Francis J., to Jarrett, Rainsford & Laughton Ltd. Containers for toilet salves and the like. 2,919,019, 12-29-59, Cl. 206-56.
- Curry, Harold E. Atomizer. 2,906,463, 9-29-59, Cl. 239-338.
- Curry, Malcolm, to The American Thread Co. Method of and machine for wrapping articles, and wrapped articles. 2,878,628, 3-24-59, Cl. 53-30.
- Curry, Malcolm, to The American Thread Co. Spools. 2,898,057, 8-4-59, Cl. 242-118.4.
- Curry, Malcolm, to The American Thread Co. Thread spools. 2,908,093, 10-13-59, Cl. 40-10.
- Curry, Neil. Sub-miniature polar relay. 2,871,312, 1-27-59, Cl. 200-93.
- Curry, Thomas W. Nodular cast iron and process of manufacture thereof. 2,867,555, 1-6-59, Cl. 148-3.
- Curry, William J., to International Telephone and Telegraph Corp. Process of coating cathode ray tube screens. 2,888,361, 5-26-59, Cl. 117-33.5.
- Curtice, George L.: *See*—  
Morris, Earl L., and Curtice. 2,903,712.
- Curtin, John M., to Hansen-Lynn Co., Inc. Variable detent mechanism. 2,917,945, 12-22-59, Cl. 74-532.
- Curtin, Leo P. Micro-crystalline bonding coats for metal. 2,901,385, 8-25-59, Cl. 148-6.16.
- Curtin, Leonard S., to United Shoe Machinery Corp. Shoe fastening machines with cover strip guides. 2,881,723, 4-14-59, Cl. 112-52.
- Curtin, Richard L.: *See*—  
Sowell, Ernest A., Curtin, Hall, and Scallet. 2,897,086.
- Curtis, Arney L.: *See*—  
Curtis, Robert L., and A. L. 2,899,235.
- Curtis Automotive Devices, Inc.: *See*—  
Frank, Paul A., and Curtis. 2,872,783.
- Curtis, Clara M.: *See*—  
Curtis, David C. 2,913,741.
- Curtis Companies Inc.: *See*—  
Keck, Jack B. 2,874,015.
- Curtis, Daniel L., to Hughes Aircraft Co. Flip-flop for generating voltage-couple signals. 2,883,525, 4-21-59, Cl. 250-27.
- Curtis, Daniel L., to Litton Industries of California. Apparatus for analog-to-difunction conversion. 2,885,663, 5-5-59, Cl. 340-347.
- Curtis, Daniel L., to Hughes Aircraft Co. Logical decision circuitry for digital computation. 2,903,606, 9-8-59, Cl. 307-88.5.
- Curtis, Daniel L., to Hughes Aircraft Co. Timing track recording apparatus. 2,903,677, 9-8-59, Cl. 340-174.
- Curtis, Daniel L., to Litton Industries of California. Pulse width modulator. 2,913,675, 11-17-59, Cl. 332-9.
- Curtis, Daniel L., to Hughes Aircraft Co. Transistor multi-vibrator. 2,918,586, 12-22-59, Cl. 307-88.5.
- Curtis, David C., deceased; C. M. Curtis, executrix. Slip lasting and platform spotter. 2,913,741, 11-24-59, Cl. 12-15.
- Curtis, Everett C., and J. T. Crawford, to Towmotor Corp. Wear plates for mast assembly. 2,888,300, 5-26-59, Cl. 308-3.
- Curtis, Gerald R., to Consolidated Electrodynamics Corp. Electrical transducer. 2,886,678, 5-12-59, Cl. 201-48.
- Curtis, Gerald R., and J. P. Gibbs, to Consolidated Electrodynamics Corp. Transducer. 2,909,062, 10-20-59, Cl. 73-398.
- Curtis, Harold E. Game. 2,894,748, 7-14-59, Cl. 273-148.



- Curtis, Henry S.: *See*—  
Hindes, Lawrence W., Curtis, and Siemoneit. 2,902,719.
- Curtis, John C.: *See*—  
Fish, Walter D., and Curtis. 2,871,826.
- Curtis, John C., and C. T. Thompson, to Joy Mfg. Co. Rock drill. 2,908,482, 10-13-59, Cl. 255-45.
- Curtis Lighting, Inc.: *See*—  
Gilleard, George. 2,913,576.
- Henning, Donald S. 2,914,287.
- Curtis, Lorin W., to Tung-Sol Electric Inc. Multi-voltage lamp. 2,885,589, 5-5-59, Cl. 313-279.
- Curtis, Martin H., to United States of America, Atomic Energy Commission. Method of processing neutronic reactor fuel elements. 2,891,840, 6-23-59, Cl. 23-14.5.
- Curtis, Paul S. Turnbutton fastener for frame supported insert section. 2,900,678, 8-25-59, Cl. 20-36.
- Curtis, Paul W. Catcher frame for fruit and nuts. 2,913,866, 11-24-59, Cl. 56-329.
- Curtis, Richard C., and P. Nosal, to Hazeltine Research, Inc. Pulse-code-communication system. 2,917,578, 12-15-59, Cl. 178-17.
- Curtis, Robert L. and A. L. Folding van body. 2,899,235, 8-11-59, Cl. 296-27.
- Curtis, Roger C., to Dictaphone Corp. Power supply for dictating machine and the like. 2,896,097, 7-21-59, Cl. 307-150.
- Curtis, Russell R.: *See*—  
Frank, Paul A., and Curtis. 2,872,783.
- Curtis, S., and Son, Inc.: *See*—  
Scriven, Albert K., Jr. 2,913,967.
- Curtis, Truman P., and C. H. Brunswick, to General Electric Co. Window assembly. 2,869,086, 1-13-59, Cl. 333-98.
- Curtis, Westley F. Ultra high speed level recorder. 2,890,091, 6-9-59, Cl. 346-35.
- Curtis, Wilbur, Co., Inc.: *See*—  
Curtis, Wilbur D., and Park. 2,885,949.
- Curtis, Wilbur D., and R. L. Park, to Wilbur Curtis Co., Inc. Connecting and sealing means for coffee-brewing apparatus. 2,885,949, 5-12-59, Cl. 99-292.
- Curtiss, George E., Jr., and J. D. Carroll, to The Stanley Works. Magnetic latch. 2,877,040, 3-10-59, Cl. 292-251.5.
- Curtiss, Lawrence M., to The Thomas & Betts Co. Electrical conduit bushing. 2,900,435, 8-18-59, Cl. 174-83.
- Curtiss, Nathaniel H., to United States Rubber Co. Elevator conveyor belt, bucket and attaching means. 2,873,844, 2-17-59, Cl. 198-151.
- Curtiss-Wright Corp.: *See*—  
Africano, Alf-ed. 2,883,829.
- Barrett, Hillard E., and Payne. 2,872,785.
- Bergsma, Clarence J. 2,876,989.
- Black, William J. 2,880,786.
- Black, William J. 2,902,316.
- Blum, Bernard S., and Philipps. 2,914,848.
- Chillson, Charles W. 2,883,883.
- Dawson, William H., Jr. 2,882,615.
- Dolida, Nicholas R. 2,883,151.
- Fitting, Howard K. 2,901,788.
- Focht, Claude K., and Melcher. 2,880,820.
- Frantz, William. 2,910,084.
- Grandmont, Paul E., Huang, and Cheng. 2,879,486.
- Hall, John L., and Elliott. 2,917,026.
- Harshman, Daniel L. 2,880,579.
- Hjelstrom, Irving E., and Catlett. 2,883,804.
- Howald, Werner E. 2,880,574.
- Hungerford, Philip C., Jr., and Tomko. 2,885,896.
- Hurley, Roy T. 2,884,661.
- Hurley, Roy T. 2,892,489.
- Jordan, William, 3d. 2,898,551.
- Kumm, Emerson L. 2,911,957.
- La Barre, Floyd, Jr., and Nagle. 2,913,817.
- Leuthold, Edgar J. 2,874,486.
- London, Fred H. 2,883,555.
- Masse, Albert G. 2,910,968.
- Mergen, Joseph M., and Murphy. 2,887,200.
- Mergen, Joseph M., and Tiedeman. 2,872,875.
- Merlub-Sobel, Menahem, and Weigert. 2,882,593.
- Moulton, Lloyd J. 2,868,184.
- Pedersen, George H. 2,885,856.
- Pelak, Andrew. 2,895,645.
- Port, Julius. 2,909,853.
- Puderbaugh, George, and Mittenzwei. 2,877,503.
- Ruger, Robert D. 2,914,017.
- Scialla, Michael. 2,880,575.
- Sevcik, Josef K. 2,884,759.
- Steiner, James W. 2,878,585.
- Stern, Robert G., and Sherman. 2,909,852.
- Stulen, Walter H., Jr. 2,887,224.
- Tomko, Donald R. 2,894,403.
- Widmer, Emil C. 2,915,608.
- Wilde, Arthur E., Jr. 2,887,621.
- Curtiss-Wright Corp., Marquette Metal Products Division: *See*—  
Sacchini, Columbus R. 2,901,071.
- Sacchini, Columbus R., and Tomko. 2,881,881.
- Curtition Corp.: *See*—  
Schesvold, Orland S., and Breslow. 2,913,045.
- Curtner, Richard L.: *See*—  
Crane, Edward V., Curtner, and Fehn. 2,911,080.
- Crane, Edward V., Curtner, and Wagner. 2,914,973.
- Curtner, Richard L., to E. W. Bliss Co. Pull type magnetic torque limiter. 2,893,530, 7-7-59, Cl. 192-150.
- Curts, Joseph M., Jr., and D. E. Nestor, to Reiff & Nestor Co. Apparatus for sizing and finishing bar stock. 2,897,707, 8-4-59, Cl. 82-2.5.
- Curva, James. Motor vehicle speed indicator. 2,887,679, 5-19-59, Cl. 340-264.
- Curzio, Domingo V.: *See*—  
Pagliacetti, Berardo, and Curzio. 2,872,977.
- Curzon, Thomas, to C.A.V. Ltd. Electromagnetically operable electric switches. 2,883,488, 4-21-59, Cl. 200-94.
- Cusack, Frank H.: *See*—  
Boughtwood, John E., and Cusack. 2,899,548.
- Cusano, Dominic A., to General Electric Co. Preparation of transparent luminescent screens. 2,887,401, 5-19-59, Cl. 117-33.5.
- Cusano, Dominic A., to General Electric Co. Field enhanced luminescence system. 2,909,692, 10-20-59, Cl. 313-108.
- Cusano, Dominic A., and F. J. Studer, to General Electric Co. Luminescent presentation apparatus. 2,918,670, 12-22-59, Cl. 340-369.
- Cushenberry, Edward B., to Thomas Associates. Electrical bonding clamp. 2,913,699, 11-17-59, Cl. 339-251.
- Cushman, Bruce, and J. Rork, said Cushman assor, to said Rork. Recirculating fountain. 2,877,051, 3-10-59, Cl. 299-3.
- Cushman Chuck Co., The: *See*—  
Sloan, Harry E. 2,873,822.
- Swanson, Linwood B. Re. 24,684.
- Swanson, Linwood B. 2,867,443.
- Swanson, Linwood B., and Rutherford. 2,904,339.
- Cushman, Clifford E., to Pacific Scientific Aeroproducts. Quick release buckle. 2,899,732, 8-18-59, Cl. 24-205.17.
- Cushman, Clifford E., and R. J. Wrighton, to Pacific Scientific Aeroproducts. Push-pull cable apparatus. 2,899,836, 8-18-59, Cl. 74-502.
- Cushman, John R., to Eastman Kodak Co. Card stacking device. 2,874,991, 2-24-59, Cl. 294-87.
- Cushman, John R., to United States of America, Air Force. Cooling system and mounting for unitized sealed electronic assemblies. 2,883,445, 4-21-59, Cl. 174-15.
- Cushman Motor Works, Inc.: *See*—  
Von Seggern, Robert D. 2,869,919.
- Cushman, Norton, to Sprague Electric Co. Variable inductor. 2,869,088, 1-13-59, Cl. 336-110.
- Cushman, Norton, to Sprague Electric Co. Transformer structures. 2,899,631, 8-11-59, Cl. 323-44.
- Cushman, Norton, and R. H. C. Yli, to Sprague Electric Co. Variable inductor. 2,886,788, 5-12-59, Cl. 336-79.
- Cushman, Robert W., and A. P. Steensen, to The Foxboro Co. Measuring apparatus. 2,910,649, 10-27-59, Cl. 324-100.
- Cushman, Walton W. Endless tread and track assembly. 2,867,480, 1-6-59, Cl. 305-10.
- Cushman, Walton W. Weight and balance computer for loading aircraft. 2,890,826, 6-16-59, Cl. 235-61.
- Cushman, Walton W. Suction lift means for industrial lift trucks. 2,893,581, 7-7-59, Cl. 214-651.
- Cushman, Walton W. Tractor hitch. 2,916,301, 12-8-59, Cl. 280-491.
- Cushman, William H. Rail connecting device. 2,911,154, 11-3-59, Cl. 238-314.
- Cusi, Dante S., to International Pulp Products, Inc. Method of producing cellulosic pulp. 2,913,362, 11-17-59, Cl. 162-55.
- Cusie, John W., to G. D. Searle & Co. Esters of N-(halo-10-phenothiazinylalkyl)-N-alkylaminoalkanois. 2,890,219, 6-9-59, Cl. 260-243.
- Cusie, John W., and R. W. Hamilton, to G. D. Searle & Co. N - chlorophenothiazinealkyl - N' - oxoalkylpiperazines. 2,874,155, 2-17-59, Cl. 260-243.
- Cuskie, Herman C.: *See*—  
Muller, George H., and Cuskie. 2,916,282.
- Cuss, John F. Fasteners for panels and the like. 2,900,697, 8-25-59, Cl. 24-221.
- Cussons, Richard C., to Dowty Equipment Ltd. Liquid springs. 2,879,987, 3-31-59, Cl. 267-64.
- Cutarelli, Joseph A.: *See*—  
West, Michael J., and Cutarelli. 2,876,824.
- Cutcrete Mfg. Corp.: *See*—  
Lewis, William H. 2,901,232.
- Lewis, William H. 2,912,232.
- Cutler, Albert E., to Communications Patents Ltd. Radar simulation or the like. 2,902,670, 9-1-59, Cl. 340-24.
- Cutler, Albert E., to Communications Patents Ltd. Electrical apparatus for generating non-linear functions. 2,909,722, 10-20-59, Cl. 323-74.
- Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Impedance matching by means of coupled helices. 2,905,858, 9-22-59, Cl. 315-39.3.
- Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,906,914, 9-29-59, Cl. 315-3.5.
- Cutler, Cassius C., to Bell Telephone Laboratories, Inc. Corrugated wave guide devices. 2,912,695, 11-10-59, Cl. 343-781.
- Cutler, Earl F. Insulation. 2,890,499, 6-16-59, Cl. 20-4.
- Cutler, Earl F. Roofing. 2,890,663, 6-16-59, Cl. 108-7.
- Cutler, Frank A., Jr., and J. M. Chemerda, to Merck & Co., Inc. 5,6-dichloro pregnanes. 2,884,417, 4-28-59, Cl. 260-239.55.
- Cutler, Frank A., Jr., and J. M. Chemerda, to Merck & Co., Inc. Substituted piperidines and methods for making same. 2,897,204, 7-28-59, Cl. 260-294.3.



- Cutler-Hammer, Inc.: *See*—  
 Brown, Harry W. 2,908,777.  
 Charbonneau, Allan P. 2,868,937.  
 Charbonneau, Allan P. 2,882,376.  
 Eck, Robert N. 2,883,597.  
 Eck, Robert N., and Simson. 2,870,392.  
 Freundlich, Martin M. 2,882,502.  
 Fubini, Eugene G., and Fromm. 2,913,686.  
 Gilbert, Thomas M. 2,873,180.  
 Heller, Herbert E., Kelto, Kuhn, and Rosing. 2,889,426.  
 Hodgson, Howard E. 2,870,382.  
 Iglehart, Marion M. 2,918,804.  
 Kearney, Joseph W., and Spencer. 2,868,978.  
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 Koenig, Martin F. Re. 2,74,725.  
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 Kuhn, Clarence W. 2,916,586.  
 Kuhn, Clarence W., Perrine, and Radley. 2,874,258.  
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 Larkin, Robert E. 2,885,905.  
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 Nolden, William F., and Robbins. 2,878,368.  
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 Nolden, William F., and Robbins. 2,908,776.  
 Nolden, William F., and Seeger. 2,901,276.  
 Park, Rodney F., and Welch. 2,892,068.  
 Pell, Eric. 2,874,917.  
 Pell, Eric, and Smith. 2,885,628.  
 Peterson, Norman L. 2,899,607.  
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 Ranson, Richard E. 2,904,649.  
 Robbins, Clyde F. 2,908,175.  
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 White, Warren D. 2,882,395.
- Cutler, Leonard H.: *See*—  
 Black, Otis D., and Cutler. 2,908,557.
- Cutler, Norman, to Royal Factories, Inc. Name and number sign. 2,867,926, 1-13-59, Cl. 40-140.
- Cutshall, Garold W. Cylinder head and liner hoists. 2,905,337, 9-22-59, Cl. 212-34.
- Cutsorge, George A., to Specialties Development Corp. Electrical network automatically responsive to a change in condition. 2,901,740, 8-25-59, Cl. 340-233.
- Cutter, Fred A., to Cutter Laboratories. Check valve for the administration of parenteral solutions. 2,879,784, 3-31-59, Cl. 137-192.
- Cutter, Fred A., to Cutter Laboratories, Inc. In-dwelling cannula. 2,915,063, 12-1-59, Cl. 128-214.
- Cutter Laboratories, Inc.: *See*—  
 Beacham, Robert C., and Butler. 2,912,980.  
 Brady, Sherwood J. 2,874,981.  
 Butler, William F., and Willet. 2,915,062.  
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 Hidalgo, John, Williams, and Halverstadt. 2,871,258.  
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 McQuarrie, Ernest B. 2,879,205.
- Cutting, Alan B.: *See*—  
 Beck, Arnold H. W., Cutting, Brisbane, and King. 2,912,611.
- Cuttino, William H., to Westinghouse Electric Corp. Capacitor protection scheme. 2,888,613, 5-26-59, Cl. 317-12.
- Cuttler, Leonard R. Garment belts. 2,884,647, 5-5-59, Cl. 2-321.
- Cutts, Richard M. Adjustable muzzle choke. 2,894,348, 7-14-59, Cl. 42-79.
- Cuykendall, Marie: *See*—  
 Hamlin, Jerry F., and Newman. 2,909,302.
- Cuykendall, Ralph M.: *See*—  
 Hamlin, Jerry F., and Newman. 2,909,302.
- Cuzzone, Raymond: *See*—  
 Wilk, Stanley H., and Cuzzone. 2,869,579.
- Cyba, Henry A., to Universal Oil Products Co. Curing of epoxy resins. 2,899,407, 8-11-59, Cl. 260-47.
- Cyba, Henry A., and R. B. Thompson, to Universal Oil Products Co. Curing of epoxy resins. 2,868,767, 1-13-59, Cl. 260-47.
- Cybrivsky, Alexander: *See*—  
 Mostovych, Nicholas, and Cybrivsky. 2,901,412.
- Cycle Equipment Co.: *See*—  
 Lawrence, Joseph L., and Allen. 2,910,292.
- Cyclone Seeder Co., Inc., The: *See*—  
 Speicher, Paul L. 2,882,060.
- Cycloptic Anstalt fur Optik und Mechanik in Vaduz: *See*—  
 Tiller, Hans. 2,897,719.
- Cycon, Inc.: *See*—  
 Jacobsen, Dan. 2,899,087.
- Cygan, Stanley J., to Poster Products, Inc. Changeable sign. 2,880,537, 4-7-59, Cl. 40-142.
- Cykler, John F.: *See*—  
 Owen, Robert R., Cykler, and Tribble. 2,913,060.
- Cymara, Hermann K. Curtain rod. 2,880,883, 4-7-59, Cl. 211-105.3.
- Cypher, Hugh F., deceased; M. E. Cypher, executrix. Plugging tool for a well pipe. 2,888,079, 5-26-59, Cl. 166-139.
- Cypher, May E.: *See*—  
 Cypher, Hugh F. 2,888,079.
- Cyphers, Alexander D., Jr., and A. A. Gruber, to E. I. du Pont de Nemours and Co. Chloroform extraction process for improving recovery of adipic acid. 2,870,203, 1-20-59, Cl. 260-537.
- Cyphers, Harold J. Sealing device for mechanical respirator. 2,879,764, 3-31-59, Cl. 128-30.
- Cyprane Ltd.: *See*—  
 Edmondson, William, and Jones. 2,915,061.
- Cyr, Cyrille A., to Wesson Tool Co. Inserted blade cutter. 2,916,804, 12-15-59, Cl. 29-105.
- Czapek, Emil: *See*—  
 Hitchens, Aaron L., and Czapek. 2,915,972.
- Czapiewski, Joseph S.: *See*—  
 Krist, William M., and Czapiewski. 2,886,887.
- Czapski, Hermann R. Micro photo viewer. 2,889,644, 6-9-59, Cl. 40-70.
- Czarnetzky, Edward J., to Wilson & Co., Inc. Treating whey. 2,904,437, 9-15-59, Cl. 99-9.
- Czarnocki, Witold, to Massey-Harris-Ferguson (Sales) Ltd. Hydraulic systems for tractors. 2,888,805, 6-2-59, Cl. 60-52.
- Czay, Mary. Protector for the shoulder of a hanger-supported garment. 2,876,941, 3-10-59, Cl. 223-98.
- Czay, Mary. Cake separator. 2,898,677, 8-11-59, Cl. 30-124.
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- Czuha, Michael, Jr.: *See*—  
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- Czwerwinski, Wacław, to Avro Aircraft Ltd. Ball and socket coupling having air bearing means. 2,869,901, 1-20-59, Cl. 285-181.
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- Daams, Jasper: *See*—  
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- Daane, Robert A.: *See*—  
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- Daane, Robert A., to Beloit Iron Works. Dryer stationary syphon. 2,875,527, 3-3-59, Cl. 34-124.
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- Dachs, Karl: *See*—  
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- Daffin, Douglas E.: *See*—  
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- Daggett, Byron G. Machine for sharpening handsaws. 2,899,847, 8-18-59, Cl. 76-43.
- Daggett, John H. Pouring and carrying adapter for milk cartons. 2,888,179, 5-26-59, Cl. 224-45.
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- D. S. Plugs Ltd.: *See*—  
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- D. & S. Processing Co., Inc.: *See*—  
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- Dahl, Knut O., to A/S Myrens Verksted. Press for bulk material. 2,901,967, 9-1-59, Cl. 100-148.
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- Dahlberg, Theodore L., to Deady Chemical Co. Bleed-off structure for cooling towers. 2,891,574, 6-23-59, Cl. 137-577.
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- Dahle, Donald E., to Wood Conversion Co. Manufacture of resilient foam with contoured face. 2,902,091, 9-1-59, Cl. 164-39.
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- Dahlgren, George, to United States Steel Corp. Apparatus for keying-up rolling mill housings. 2,901,931, 9-1-59, Cl. 80-55.
- Dahlgren, Harold P. Lithographic offset press plate dampening device. 2,868,118, 1-13-59, Cl. 101-147.
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- Dahlgren, John V. S., to The Wilcolator Co. Circuit regulating and control mechanism. 2,872,535, 2-3-59, Cl. 200-6.
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- Dahlund, Ervin L., to Fairbanks, Morse & Co. Variable delivery lubricant supply means for engines. 2,873,002, 2-10-59, Cl. 184-6.
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- Dailey, Glenn H. Reversible side delivery hay rake. 2,896,388, 7-28-59, Cl. 56-23.
- Dailey, Marvel C., and E. S. Johnson, to United States Gypsum Co. Process for the production of high strength low consistency calcined gypsum. 2,913,308, 11-17-59, Cl. 23-122.
- Dailey, William H., Jr., and R. M. Woolcott, to Surface Combustion Corp. Slant wall construction for metallurgical furnaces. 2,883,175, 4-21-59, Cl. 263-46.
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- Daily, Arthur M., M. B. Arisman, and D. A. Pierce, to Chicago Telephone Supply Corp. Variable resistor with a plug-in mounting. 2,874,254, 2-17-59, Cl. 201-55.
- Daily, John B., to Waldorf Paper Products Co. Display cartons. 2,913,101, 11-17-59, Cl. 206-45.19.
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 Steiner, Oscar, and Dalton. 2,888,868.  
 Dalton, Thomas B., to West Michigan Steel Foundry Co. Shock absorbing support for semi-trailer landing gear. 2,885,220, 5-5-59, Cl. 280-150.5.  
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- D'Altrui, Thomas N. Specially mounted attachment pin for underfloor tow conveyor truck. 2,878,758, 3-24-59, Cl. 104-172.
- Daly, James E.: *See*—  
Gagliano, Louis J., and Daly. 2,878,134.
- Daly, James U., to Robertshaw-Fulton Controls Co. Time and timed delay control. 2,902,089, 9-1-59, Cl. 161-9.
- Daly, James U., to Robertshaw-Fulton Controls Co. Snap acting control apparatus. 2,906,460, 9-29-59, Cl. 236-48.
- Daly, Thomas A.: *See*—  
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- Daly, Thomas A., and H. L. Prescott, to United States of America, Navy. Sound damping apparatus for torpedo propulsion mechanisms. 2,899,923, 8-18-59, Cl. 114-20.
- Daly, Webster J. Fluoroscopic X-ray apparatus. 2,912,587, 11-10-59, Cl. 250-53.
- Dalziel, William, and W. T. Dow, to Lever Brothers Co. Shortening and apparatus. 2,882,165, 4-14-59, Cl. 99-118.
- Daman, Arthur C., to Denver Equipment Co. Apparatus for concentrating pulp. 2,876,905, 3-10-59, Cl. 210-298.
- Daman, Arthur C., to Mining Process and Patent Co. Aerating apparatus for flotation pulps. 2,883,169, 4-21-59, Cl. 261-77.
- Daman, Arthur C., to Mining Process and Patent Co. Aerator assembly with pulp elevating discharge. 2,892,543, 6-30-59, Cl. 209-169.
- Damasio, Lucas A.: *See*—  
Kemmerer, Ralph R., and Damasio. 2,891,143.
- Damask, Arthur C., to United States of America, Atomic Energy Commission. Electron irradiation of solids. 2,911,533, 11-3-59, Cl. 250-49.5.
- Damaskus, Charles W., to Armour and Co. Preparation of adrenocorticotrophin. 2,909,468, 10-20-59, Cl. 167-74.
- D'Amato, Flory M. Wheel dressing tool. 2,897,810, 8-4-59, Cl. 125-11.
- Dambacher, Xaver, to Windmüller & Hölscher. Device for folding paper so as to form the block bottom of a paper bag. 2,888,859, 6-2-59, Cl. 93-28.
- D'Amelio, Louis A., to Lion Fastener Co., Inc. Lock fasteners. 2,886,872, 5-19-59, Cl. 24-221.
- Dameral, Ray C., to S. Herst, d.b.a. Peerless Electric Co. Fluorescent light fixture. 2,887,567, 5-19-59, Cl. 240-51.11.
- Damerau, Edward A.: *See*—  
Baer, John S., and Damerau. 2,903,687.
- Damerau, Edward A., to Radio Corp. of America. Ribbon reversal mechanism. 2,884,111, 4-28-59, Cl. 197-165.
- Damgen, Wilhelm: *See*—  
Rumberg, Alfred, Damgen, and Theis. 2,872,494.
- Damiani, John H.: *See*—  
Maas, Bernard N., Damiani, and Silver. 2,907,548.
- Damiano, Victor V., to Burroughs Corp. Method of processing magnetic cores. 2,914,840, 12-1-59, Cl. 29-155.57.
- Damidot, Rene G. M.: *See*—  
Riffet, Marcel, and Damidot. 2,918,187.
- D'Amico, Anthony F., to Winchester Electronics, Inc. Polarized electrical connectors. 2,902,665, 9-1-59, Cl. 339-184.
- D'Amico, John J.: *See*—  
Harman, Marion W., and D'Amico. 2,876,243.  
Harman, Marion W., and D'Amico. 2,900,299.  
Harman, Marion W., and D'Amico. 2,912,357.  
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- D'Amico, John J., to Monsanto Chemical Co. 2-(2,6-dimethyl-4-morpholinylmercapto)-benzothiazoles. 2,871,239, 1-27-59, Cl. 260-247.1.
- D'Amico, John J., to Monsanto Chemical Co. Propynyl sulfenamides. 2,875,208, 2-24-59, Cl. 260-306.6.
- D'Amico, John J., to Monsanto Chemical Co. Lower-alkyl cyclopentylmethyl, benzothiazolyl sulfenamides. 2,885,405, 5-5-59, Cl. 260-306.6.
- D'Amico, John J., to Monsanto Chemical Co. Unsymmetrical-1,4-piperazines. 2,906,754, 9-29-59, Cl. 260-268.
- D'Amico, John J., to Monsanto Chemical Co. Method of destroying vegetation. 2,914,392, 11-24-59, Cl. 71-2.5.
- D'Amico, John J., to Monsanto Chemical Co. 5-carbalkoxy-4-alkyl-2-thiazole-sulfenamides. 2,914,535, 11-24-59, Cl. 260-302.
- D'Amico, John J., and C. C. Tung, to Monsanto Chemical Co. Making dinitrosoanilines. 2,880,240, 3-31-59, Cl. 260-577.
- Damijonaitis, Alexandra: *See*—  
Skillin, Walter F., and Damijonaitis. 2,867,442.
- Damijonaitis, Alexandra, to Union Mfg. Co. Chuck with pivoted jaws. 2,890,888, 6-16-59, Cl. 279-35.
- Damijonaitis, Kestutis: *See*—  
Godfrey, James H., and Damijonaitis. 2,897,302.
- Damiron, Paul. Brake shoes. 2,911,075, 11-3-59, Cl. 188-264.
- Damkroger, Fred W. Windrow harvester. 2,878,635, 3-24-59, Cl. 56-192.
- Damm, Lennart R.: *See*—  
Corneliusson, Karl G. E., Damm, Landqvist, Linnarson, and Svansson. 2,892,470.
- Damm, Victor W.: *See*—  
Wille, Herbert S., and Damm. 2,871,524.
- Dammert, Earl D., to The Gleason Works. Quenching press with work handling mechanism. 2,874,853, 2-24-59, Cl. 214-1.
- Dammert, Earl D., and W. W. White, to The Gleason Works. Machine having rolling pressure device for splined shafts and the like. 2,874,952, 2-24-59, Cl. 266-6.
- Dammond, Howard R., to Landam Products Corp. Heat exchangers. 2,879,372, 3-24-59, Cl. 219-39.
- Damon, Glenn H., and J. Ribovich. Fuel and rapid ignition apparatus for ignition of fuel in ram jets and rockets. 2,906,094, 9-29-59, Cl. 60-39.47.
- Damon, James J., to Ford Motor Co. Shock absorber valve. 2,908,284, 10-13-59, Cl. 137-493.3.
- Damon, Neil F., to Raytheon Mfg. Co. Electrical connectors and attaching means therefor. 2,872,655, 2-3-59, Cl. 339-59.
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- Damon, Ralph S.: *See*—  
Hunter, Robert H., and Damon. 2,876,763.
- Damon, Richard W., to General Electric Co. Target plate. 2,898,490, 8-4-59, Cl. 313-65.
- Damon, Richard W., and J. R. Eshbach, to General Electric Co. Photoconductor of lead oxide and method of making. 2,888,370, 5-26-59, Cl. 117-201.
- Damond, Emile. Vibrating chutes. 2,897,956, 8-4-59, Cl. 198-220.
- Damone, Thomas A. Eye protector. 2,871,642, 2-3-59, Cl. 54-80.
- Damron, William F.: *See*—  
Midkiff, Abraham H., and Damron. 2,880,715.
- Dana Corp.: *See*—  
Burkhalter, Robert R., and Mazzlotti. 2,897,023.  
Hess, Werner G. 2,878,555.  
Lewis, Robert P. 2,903,973.  
Ludwig, John R. 2,899,897.  
Miller, Fred F., Jr. 2,916,896.  
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- Dana, Eugene H.: *See*—  
Sage, Stanley J., and Dana. 2,874,988.
- Dancy, William B., and W. N. Stanley, Jr., to International Minerals & Chemical Corp. Process for recovering potassium values from kainite. 2,895,794, 7-21-59, Cl. 23-38.
- Dancy, William B., and A. F. Nylander, to International Minerals & Chemical Corp. Ion exchange process—removal of sulfate ions from eluate. 2,900,227, 8-18-59, Cl. 23-14.5.
- D'Andrea, Dan. Container cabinet. 2,874,016, 2-17-59, Cl. 312-328.
- D'Andrea, Leonard L.: *See*—  
Rogers, Russell E., and D'Andrea. 2,883,195.
- Dane, Bruce W. Beater for drums. 2,896,492, 7-28-59, Cl. 84-422.
- Dane, Harold B. Internal combustion powered fluid motor and hydraulic propulsion system. 2,872,778, 2-10-59, Cl. 60-12.
- Danel, Pierre F., to Etablissements Neyrpic. Mold for molding concrete blocks presenting irregular surfaces. 2,900,699, 8-25-59, Cl. 25-118.
- Danel, Pierre F., and P. A. D'Auriac, to Etablissements Neyrpic. Artificial blocks for structures exposed to the action of moving water. Re. 24,632, 4-14-59, Cl. 61-4.
- Danel, Pierre F., S. X. Casacci, and P. Jarrian, to Etablissements Neyrpic. Hydroelectric turbo-generator installation. 2,875,979, 3-3-59, Cl. 253-31.
- Danforth, Dirwood M.: *See*—  
Gall, Francis A., and Danforth. 2,871,504.
- Danfoss ved ingeniør Mads Clausen: *See*—  
Enemark, Arne F. 2,893,323.  
Enemark, Arne F. 2,915,974.  
Matthiesen, Peter C. 2,884,951.
- D'Angelo, Joseph, to Roto Bag Machine Corp. Bag making machine. 2,884,988, 5-5-59, Cl. 154-42.
- Dangerfield, Kenneth J., to The Austin Motor Co. Ltd. Centrifugal compressors. 2,900,126, 8-18-59, Cl. 130-130.
- Danhier, Francois G., to La Soundure Electrique Autogene, S.A. Automatic arc welding process and machine. 2,900,484, 8-18-59, Cl. 219-74.
- Danhier, Francois G., to La Soundure Electrique Autogene, S.A. Process and device to retain in position the liquid metal in automatic visible arc welding in 3 o'clock butt joints. 2,900,487, 8-18-59, Cl. 219-126.
- Daniel, Georges H. M., to Societe Triflux. Glow discharge tube supply system. 2,882,451, 4-14-59, Cl. 315-166.
- Daniel, Hermann: *See*—  
Lutz, Friedrich, and Daniel. 2,901,992.
- Daniel, John H., Jr.: *See*—  
Drucker, Arnold, and Daniel. 2,917,501.
- Daniel, John H., Jr., to American Cyanamid Co. Composition containing polymethylol melamine and an ammonium salt of a copolymer of an unsaturated monocarboxylic acid and an alkyl ester of such an acid. 2,906,724, 9-29-59, Cl. 260-45.2.
- Daniel, John H., Jr. Quaternized aqueous-dispersible resinous composition. 2,914,513, 11-24-59, Cl. 260-85.7.
- Daniel, John P., Sr. Method of positioning charges and removing drill stems from shot holes. 2,883,154, 4-21-59, Cl. 255-1.8.
- Daniel, Kenneth R.: *See*—  
Cooper, Jacob L., Daniel, and Lowery. 2,913,784.  
Cooper, Jacob L., Daniel, Patton, and Vandergrift. 2,870,496.
- Daniel, Kenneth R., J. O. Patton, Jr., and S. V. Vines, to American Cast Iron Pipe Co. Apparatus for lining centrifugal casting molds. 2,873,716, 2-17-59, Cl. 118-55.
- Daniel, Luther. Valve spring shim. 2,899,954, 8-18-59, Cl. 123-188.
- Daniel, Robert E.: *See*—  
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- Daniel, William A., to Bendix Aviation Corp. Method of making ceramic cylinders. 2,914,834, 12-1-59, Cl. 25-157.
- Daniels, Albert A. Sink structure and method of assembly. 2,913,733, 11-24-59, Cl. 4-187.
- Daniels, Alfred J.: *See*—  
Bell, Richard L., Holmes, and Daniels. 2,877,644.
- Daniels, Charles J.: *See*—  
Cotton, Robert B., and Daniels. 2,872,136.  
Fackler, Bernard E., Donnelly, and Daniels. 2,916,569.
- Daniels, Farrington, to United States of America, Atomic Energy Commission. Neutronic reactor. 2,910,416, 10-27-59, Cl. 204-193.2.
- Daniels, Herbert E., to The Jampco Co., Inc. Stack transfer and bottom wrapper insertion unit. 2,882,659, 4-21-59, Cl. 53-74.
- Daniels, John W., to Hoffman Electronics Corp. Electrical chassis mounting construction or the like. 2,917,676, 12-15-59, Cl. 317-99.
- Daniels, Lee G. Valve. 2,876,798, 3-10-59, Cl. 137-625.29.
- Daniels, Mark. Devices for indicating and playing card games. 2,867,044, 1-6-59, Cl. 35-8.
- Daniels, Paul J. Liquid dispensers. 2,909,125, 10-20-59, Cl. 103-149.
- Daniels, Paul J. Liquid dispensers. 2,915,094, 12-1-59, Cl. 141-82.
- Daniels, Philip H.: *See*—  
Bailey, Denis R., and Daniels. 2,891,851.
- Daniels Roy P., to Gulf Oil Corp. Vapor phase sulfurization of olefinic hydrocarbons. 2,917,503, 12-15-59, Cl. 260-139.
- Daniels, Rupert S.: *See*—  
Keutgen, William A., Davall, Daniels, and Noyes. 2,901,337.
- Daniels, Rupert S., and A. J. Mostello, to Union Carbide Corp. Water-resistant abrasive structures. 2,878,111, 3-17-59, Cl. 51-298.
- Daniels, Ruthven H.: *See*—  
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- Daniels, Wilbert P., to Green Bay Box Co. Carton. 2,919,060, 12-29-59, Cl. 229-61.
- Danielsen, Dale A., to Riddle Airlines, Inc. Portable chimney type chick container assembly. 2,900,955, 8-25-59, Cl. 119-15.
- Danielson, Irvin S.: *See*—  
Aiston, Stewart, and Danielson. 2,879,202.
- Danielson Mfg. Co., The: *See*—  
Holt, John E. 2,884,771.  
McKinlay, William. 2,903,772.
- Danielson, Vernon S., to W. H. Miner, Inc. Draft gear for railway draft riggings. 2,912,124, 11-10-59, Cl. 213-45.
- Danielsson, Karl E. H. Method for counting red blood corpuscles in blood. 2,908,160, 10-13-59, Cl. 73-61.
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- Danielsson, Karl E. H., and J. F. S. Lundmark, to Bo Nyman Abn Aktiebolag. Centrifuges. 2,885,145, 5-3-59, Cl. 233-26.
- Danielsson, Nils A. Means for making spectral analysis on pulverized material. 2,883,901, 4-28-59, Cl. 88-14.
- Danielsson, Paul, to Arencio Aktiebolag. Devices for positioning fish. 2,895,163, 7-21-59, Cl. 17-2.
- Danilewicz, Ludomir, to Inertia Starter Developments Ltd. Inertia starter. 2,877,755, 3-17-59, Cl. 123-179.
- Daninhrsch, Harry: *See*—  
Argentieri, Peter, Daninhrsch, and Day. 2,896,849.
- Danis, Louis J., to Eaton Mfg. Co. Composite ductile wire. 2,888,740, 6-2-59, Cl. 29-191.2.
- Danison, Robert C.: *See*—  
Gooding, William T., Jr., and Danison. 2,869,985.
- Danly, James C., to Danly Machine Specialties, Inc. Power press tie rod heating system. 2,910,933, 11-3-59, Cl. 100-214.
- Danly Machine Specialties, Inc.: *See*—  
Danly, James C. 2,910,933.  
Kennedy, Daniel T., and Heiberger. 2,889,507.
- Dann, John R., J. W. Gates, Jr., D. A. Smith, and C. C. Unruh, to Eastman Kodak Co. Photographic emulsions containing synthetic polymer vehicles. 2,882,161, 4-14-59, Cl. 96-114.
- Dann, Morris, and J. J. Peterson, to American Home Products Corp. Cartridge for metering syringe. 2,870,766, 1-27-59, Cl. 128-218.1.
- Dann, Morris, and J. J. Peterson, to American Home Products Corp. Hinged syringe body. 2,871,858, 2-3-59, Cl. 128-218.
- Dann, Morris, E. J. Lockwood, and H. S. Cloyd, to American Home Products Corp. Tamper-proof injection cartridge housing. 2,884,123, 4-28-59, Cl. 206-43.
- Dannback, Tovia M.: *See*—  
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Rogers, Stanley, Kalbfeld, and Dannback. 2,878,441.
- Dannehl, Kurt H., and J. Houwelling, to Toledo-Werk-Fabrik automatischer Waagen und Prüfmaschinen Dipl. Ing. Th. Prumm & Ed. Leopold. Device to prevent the indicating or the printing of erroneous weights of erratically moving loads. 2,883,177, 4-21-59, Cl. 265-5.
- Dannehl, Melvin A., to Continental Oil Co. Casing pusher. 2,874,934, 2-24-59, Cl. 254-29.
- Dannelly, Clarence C.: *See*—  
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- Dannen, Charles, to The Deg Corp. Prosthetic genital devices. 2,868,192, 1-13-59, Cl. 128-79.
- Dannenberg, Hans, to Shell Development Co. Method for minimizing the formation of craters in surface coatings. 2,884,339, 4-28-59, Cl. 117-72.
- Dannenburg, Naomi L. Hospital bed standard support. 2,893,677, 7-7-59, Cl. 248-228.
- Danner, Frederick G., and G. C. Browne, to Sperry Rand Corp. Flip-flop resetting circuit. 2,903,607, 9-8-59, Cl. 307-88.5.
- Danner, Jack D., and G. Rogers, to Sylvania Electric Products Inc. Lens coating apparatus and process. 2,912,351, 11-10-59, Cl. 117-106.
- Dannevig, Tord, to General Electric Co. Constant flow positive displacement mechanical hydraulic unit. 2,882,831, 4-21-59, Cl. 103-161.
- Dan River Mills, Inc.: *See*—  
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Stephens, Roy M. 2,877,505.
- Dans, Bernard D.: *See*—  
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- Dansie, Robert R.: *See*—  
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- Dansk Spare-Selskab: *See*—  
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- Danta, Robert C.: *See*—  
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- D'Antini, Pasquale I. Safety assembly for protecting drivers and passengers of automotive vehicles. 2,899,214, 8-11-59, Cl. 280-87.
- Dantowitz, Philip: *See*—  
Carleton, Granville E., Harrison, Heitman, and Dantowitz. 2,894,521.
- Danvers, Ellis: *See*—  
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- Danz, Willi: *See*—  
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- Danzig, Morris J.: *See*—  
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- Dapp, Robert J., and H. E. Cozine, to Owens-Illinois Glass Co. Glass tube and cane gauging and sorting apparatus. 2,873,854, 2-17-59, Cl. 209-88.
- D'Aprile, Joseph E., and R. A. Witt, to Chrysler Corp. Control device. 2,914,629, 11-24-59, Cl. 200-61.86.
- Dapses, William F., to Wolverine Equipment Co. Apparatus for thermally treating articles. 2,874,484, 2-24-59, Cl. 34-187.
- Darash, Nicholas P.: *See*—  
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- Darata, John, deceased, by M. Darata, administratrix. Apparatus for making bows. 2,909,308, 10-20-59, Cl. 223-46.
- Darata, Mary: *See*—  
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- Darby, Joseph R., to Monsanto Chemical Co. Composition containing halogenated vinylidene resin plus non-volatile liquid monophenyl alkane plasticizer. 2,885,378, 5-5-59, Cl. 260-31.8.
- Darby, Joseph R., and P. R. Graham, to Monsanto Chemical Co. Vinyl halide polymers stabilized with phosphites and benzoic acid esters. 2,889,295, 6-2-59, Cl. 260-23.
- D'Arcey, Alfred C.: *See*—  
Lee, Ferman N., MacKenzie, D'Arcey, and Cicchetti. 2,904,788.
- Darco Industries, Inc.: *See*—  
Hampton, Andrew T. 2,889,448.
- Darde, Peter, to American Machine and Metals, Inc. Clamp. 2,891,296, 6-23-59, Cl. 24-81.
- Dardig, Ben V. Automobile buffer. 2,904,805, 9-22-59, Cl. 15-97.
- Da Re, Paolo, to Dr. Recordati-Laboratorio Farmacologico S.p.A. Hydroxychromone derivatives and method of preparing the same. 2,897,211, 7-28-59, Cl. 260-345.2.
- Dare Products, Inc.: *See*—  
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Doerr, Raymond S. 2,898,948.
- Dargie, Robert E., to American Optical Co. Lens surfacing machines. 2,916,857, 12-15-59, Cl. 51-124.
- Darigo, Julius, to Remington Arms Co., Inc. Staking apparatus. 2,897,713, 8-4-59, Cl. 86-10.
- Da Riva, Antonio. Telephone intercommunication system having means for interconnecting any two stations. 2,871,303, 1-27-59, Cl. 179-39.
- Dark, Ralph H. Tile laying device. 2,880,031, 3-31-59, Cl. 294-87.
- Darken, Lawrence S., to United States Steel Corp. Self-ventilating thermocouple well. 2,906,800, 9-29-59, Cl. 136-4.
- Darkenwald, George A. Eye piece cover. 2,889,629, 6-9-59, Cl. 33-50.
- Darland, William G., Jr., and M. T. Ross, to Union Carbide Corp. Gas-depolarized battery. 2,914,595, 11-24-59, Cl. 136-86.
- Darling, Donald C.: *See*—  
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- Darling, L. A., Co.: *See*—  
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- Darling, Horace E., to The Foxboro Co. Measuring apparatus. 2,918,619, 12-22-59, Cl. 323-66.
- Darling, James W. Combination sleeping garment and cover. 2,908,912, 10-20-59, Cl. 2-83.



- Darling, Robert F., to The Parsons and Marine Engineering Turbine Research and Development Assn. Cylindrical furnaces. 2,915,877, 12-8-59, Cl. 60—39.69.
- Darling, Samuel M., and R. W. Foreman, to The Standard Oil Co. Fuel for internal combustion engines. 2,914,390, 11-24-59, Cl. 44—58.
- Darlington, Henry S., Jr., to A. H. Wirz, Inc. Method and apparatus for the molding of threaded articles. 2,899,705, 8-18-59, Cl. 18—2.
- Darlington, Sidney, and J. H. Felker, to Bell Telephone Laboratories, Inc. Temperature compensated transistor amplifier. 2,885,494, 5-5-59, Cl. 179—171.
- Darlington, Thomas J.: *See—*  
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- Darmann, Otto, H. Kobusch, and K. G. Speith, to Mannesmann Akt. Process for cleaning the chambers of regenerative furnaces. 2,900,285, 8-18-59, Cl. 134—2.
- Darnell, Clarence E. Land leveler. 2,881,541, 4-14-59, Cl. 37—169.
- Darnell, Rex C. Centrifugal hydraulic governor. 2,882,915, 4-21-59, Cl. 137—34.
- Darnell, Rex C., to Michigan Wire Cloth Co. Fuel filter. 2,893,629, 7-7-59, Cl. 233—27.
- Darnell, Victor L., and F. J. Burst, to Hill-Rom Co., Inc. Mechanically controlled electric bed. 2,913,300, 11-17-59, Cl. 5—68.
- Darnutzer, Donna J., L. R. Marsh, and I. E. Kofoed. Hair cutting cape. 2,892,909, 6-30-59, Cl. 2—50.
- Daroci, Joseph, to Esso Research and Engineering Co. Expander tool. 2,879,101, 8-24-59, Cl. 294—97.
- Da Rold, James J.: *See—*  
Moore, Jimmy J., and Da Rold. 2,877,360.
- Darou, William T., Jr.: *See—*  
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- Darr, Samuel M., to United States of America, Navy. Centrifugal switch with fluent conductor for rotating projectiles. 2,901,569, 8-25-59, Cl. 102—70.
- Darrach, Marvin, and W. J. Polglase, to Canadian Patents and Development Ltd. Derivatives of para-aminosalicylic acid. 2,891,091, 6-16-59, Cl. 260—479.
- Darragh, Frank H., Jr., to Darragh Mechanisms, Inc. Tracks for crawler type machines. 2,897,014, 7-28-59, Cl. 305—10.
- Darragh Mechanisms, Inc.: *See—*  
Darragh, Frank H., Jr. 2,897,014.
- Darrel, Bernard: *See—*  
Szpak, Stanislaw J., and Darrel. 2,910,351.
- Darroch, Albert C.: *See—*  
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- Darrow, Burgess. Pressure sealed multi-part rim with confined rubber-like sealing gasket. 2,894,556, 7-14-59, Cl. 152—410.
- Darrow, John O. G.: *See—*  
Bauman, Edward, and Darrow. 2,875,366.
- Darrow, Kenneth A., to General Electric Co. Turbine drive surface cleaner with integral generator. 2,915,774, 12-8-59, Cl. 15—324.
- Darrow, Merritt I.: *See—*  
Sengelaub, John F., and Darrow. 2,885,291.
- Darsie, George. Headlight. 2,879,425, 3-24-59, Cl. 313—115.
- Dart, Jack C.: *See—*  
Kirkbride, Chalmers G., and Dart. 2,915,459.
- Darvie, Samuel. Fastening means for heel construction. 2,910,788, 11-3-59, Cl. 36—34.
- Daschke, Arthur W., to J-B-T Instruments, Inc. Frequency-responsive device. 2,916,700, 12-8-59, Cl. 324—80.
- D'Ascoli, Ralph G.: *See—*  
Ebel, Lawrence C., and D'Ascoli. 2,881,243.  
Ebel, Lawrence C., and D'Ascoli. 2,913,515.  
Whalen, Richard T., and D'Ascoli. 2,885,737.
- D'Ascoli, Ralph G., to Anaconda Wire and Cable Co. Insulated electric conductor splice. 2,906,810, 9-29-59, Cl. 174—87.
- D'Ascoli, Ralph G., to Anaconda Wire and Cable Co. Reaction product of mineral oil polyisobutylene, polyethylene and resinous petroleum polymerization product. 2,914,501, 11-24-59, Cl. 260—33.6.
- Dasenbrock, John. Speedy can opener. 2,918,193, 12-22-59, Cl. 220—52.
- Dasey, Homer H., to "Visual" Plant Layouts Inc. Chemical process layout. 2,907,122, 10-6-59, Cl. 35—16.
- Dashiell, John W., Jr., and E. W. Jacobson, to Gulf Research & Development Co. Method of and apparatus for testing liquefied gas meters. 2,911,820, 11-10-59, Cl. 73—3.
- Daskiewicz, Zbigniew: *See—*  
Zakrzewski, Andrew S., Ashby, Daskiewicz, and Moore. 2,870,805.
- Dassauid, Robert: *See—*  
Foulletier, Louis, and Dassauid. 2,897,064.
- Dasse, Lester F., and F. D. Griswold, to Lambert Brake Corp. Self-energizing disc brake for high-speed aircraft and other heavy duty uses. 2,916,105, 12-8-59, Cl. 188—72.
- Dassetto, Paolo, to Intonacatrice Tigre s.r.l. Spraying apparatus. 2,895,325, 7-21-59, Cl. 72—130.
- Date, Kazuo H.: *See—*  
Van Ryan, Anthony, and Date. 2,907,562.
- Date, Kazuo H., to McGraw-Edison Co. Repeating circuit interrupter with selectable reclosing time. 2,891,121, 6-16-59, Cl. 200—89.
- Date, Kazuo H., to McGraw-Edison Co. Repeating circuit interrupter. 2,898,421, 8-4-59, Cl. 200—89.
- Date, Shigehiro: *See—*  
Hiratsuka, Kizo, Yonemitsu, Itabashi, Ishikawa, Date, and Keimatsu. 2,889,368.
- Dater, Maury M. Hog ring tool. 2,885,681, 5-12-59, Cl. 1-187.
- Datex Corp.: *See—*  
Spaulding, Carl P. 2,909,769.
- Dath, George E., to Enterprise Railway Equipment Co. Hopper-car discharge outlet construction. 2,898,871, 8-11-59, Cl. 105—253.
- Datin, Richard C., to Allied Chemical Corp. Ammoniated superphosphates and process of producing same. 2,874,036, 2-17-59, Cl. 71—43.
- Dauberman, William H., and F. A. Woodbury, to Westinghouse Electric Corp. Selective polarity system for field application of synchronous motors. 2,871,434, 1-27-59, Cl. 318—175.
- Daugert, Peter C. Wedge anchors. 2,916,785, 12-15-59, Cl. 24—136.
- Daugherty, Charles C., to Republic Steel Corp. Recovery of manganese from ores. 2,890,103, 6-9-59, Cl. 23—145.
- Daugherty, Charles C., to Republic Steel Corp. Recovery of manganese from ores. 2,890,104, 6-9-59, Cl. 23—145.
- Daugherty, Daniel J.: *See—*  
Donan, John F., and Daugherty. 2,902,214.
- Daugherty, Donald A.: *See—*  
Mika, Daniel F., and Daugherty. 2,868,902.
- Daugherty, Earl W., to Y. Daugherty. Method of and apparatus for recording television signals. 2,915,584, 12-1-59, Cl. 178—7.4.
- Daugherty, Harry V. Combination caliper, divider and compass. 2,886,893, 5-19-59, Cl. 33—157.
- Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Multiple line feed for translatable machine elements. 2,892,388, 6-30-59, Cl. 90—15.
- Daugherty, Jesse, to Giddings & Lewis Machine Tool Co. Suspension mechanism for machine tools. 2,899,869, 8-18-59, Cl. 90—16.
- Daugherty, Jesse, and T. K. Talbott: said Daugherty assor. to Giddings & Lewis Machine Tool Co.; said Talbott assor. to Lockheed Aircraft Corp. Headstock for milling machines. 2,887,016, 5-19-59, Cl. 90—16.
- Daugherty, Patrick E.: *See—*  
Dull, William B., and Daugherty. 2,876,313.
- Daugherty, Robert A., to The Fish Engineering Corp. Separator of well fluids. 2,916,103, 12-8-59, Cl. 183—2.7.
- Daugherty, Robert L., to Robertshaw-Fulton Controls Co. Controller. 2,906,131, 9-29-59, Cl. 74—84.
- Daugherty, Yvonne: *See—*  
Daugherty, Earl W. 2,915,584.
- Daughtry, Albert E.: *See—*  
Dowdy, Lloyd F., and Daughtry. 2,904,373.
- Daugirdas, Kristupas, to National Pneumatic Co., Inc. Door controlling linkage. 2,893,506, 7-7-59, Cl. 180—82.
- Dauguet, Alexandre, to North American Philips Co., Inc. Stereophonic transmission system. 2,874,221, 2-17-59, Cl. 179—15.
- D'Augustine, Frank: *See—*  
Weingarten, Morris, D'Augustine, and Bange. 2,902,973.
- Dauksher, Walter J., and S. Fox, to United States of America. Air Force. Variable frequency crystal controlled oscillator. 2,881,321, 4-7-59, Cl. 250—36.
- Daul, George C., H. F. Wise, and J. Wharton, to Courtaulds, Inc. Process for improving the properties of regenerated cellulose fibrous material wherein said material is treated while still in the gel state. 2,902,391, 9-1-59, Cl. 117—145.
- Daum, Edward J., to Boeing Airplane Co. Means and method of orienting a scale. 2,914,855, 12-1-59, Cl. 33—74.
- Dauman, Arnold, to Stamford Metal Specialty Co., Inc. Counter rack. 2,886,182, 5-12-59, Cl. 211—49.
- D'Auriac, Paul A.: *See—*  
Danel, Pierre F., and D'Auriac. Re. 24,632.
- Daus, John J., Jr., to Anchor Supply Co. Inc. Prefabricated tent frame. 2,874,708, 2-24-59, Cl. 135—4.
- Däusch, Ernst, to SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Textile drawing mechanism. 2,900,675, 8-25-59, Cl. 19—135.
- Dausch, Ernst, to SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Support for the upper roller-carrying and load-applying arm of the drafting mechanism of spinning machines. 2,917,786, 12-22-59, Cl. 19—135.
- Dausch, Erwin, to SKF Kugellagerfabriken G. m. b. H. Drafting mechanism for spinning machines. 2,867,852, 1-13-59, Cl. 19—135.
- Dausch, Erwin, to SKF Kugellagerfabriken G. m. b. H. Textile drawing mechanisms. 2,870,487, 1-27-59, Cl. 19—134.
- Dauskardt, Franz, to Aktiebolaget Separator. Heat exchange system. 2,890,867, 6-16-59, Cl. 257—215.
- Davall, Charles R.: *See—*  
Keutgen, William A., Davall, Daniels, and Noyes. 2,901,337.
- Daveat Milk Processes Co.: *See—*  
Davies, Elmer S., and Petersen. 2,899,320.
- Davenport, Carlton R., and J. L. Mittler, to Lockheed Aircraft Corp. Barrel nut retainer having flexible resilient overlying web. 2,903,035, 9-8-59, Cl. 151—41.75.
- Davenport, Charles H., and B. E. Helberg, to Monsanto Chemical Co. Semi-chemical pulping process. 2,882,147, 4-14-59, Cl. 92—6.
- Davenport, Howard D. Well drilling apparatus. 2,883,156, 4-21-59, Cl. 255—4.



- Davenport Machine and Foundry Co.: *See*—  
Fischer, Albert M. 2,903,054.  
Follett, Louis W., and Hagen. 2,902,263.
- Davenport, Ross G. Sub-caliber mechanism including a movable subcaliber barrel. 2,872,850, 2-10-59, Cl. 89-159.
- Davenport, William G., to Beaumont Birch Co. Recirculator conveyor. 2,916,134, 12-8-59, Cl. 198-85.
- Daverio & Cie. A.-G.: *See*—  
Reist, Walter. 2,885,064.
- Davey, Edward L., to British Insulated Callender's (Submarine Cables) Ltd. Manufacture of multi-core electric cables. 2,882,677, 4-21-59, Cl. 57-156.
- Davey, Edward L., and W. Y. Murray, to British Insulated Callender's (Submarine Cables) Ltd. Mechanical protection of electric cables. 2,897,253, 7-28-59, Cl. 174-70.
- Davey, Gerald F., to Riley Stoker Corp. Air heater and dust collector. 2,886,294, 5-12-59, Cl. 257-1.
- Davey, Ira C.,  $\frac{1}{4}$  to F. J. Griesing, and  $\frac{1}{4}$  to A. N. De Falco. Remotely controlled fencing score register. 2,916,287, 12-8-59, Cl. 273-1.
- Davey, James R., to Bell Telephone Laboratories, Inc. Diode comparison gate. 2,912,582, 11-10-59, Cl. 250-27.
- Davey, James R., and W. T. Rea, to Bell Telephone Laboratories, Inc. Telegraph start-stop synchronizer and corrector. 2,914,612, 11-24-59, Cl. 178-53.1.
- Davey, Joseph: *See*—  
Tapp, Ernest T. J., and Davey. 2,882,984.  
Tapp, Ernest T. J., and Davey. 2,918,131.
- Davey, Merton H., to D & P Minerals, Inc. Method of manufacturing briquettes and other bodies from serpentine. 2,879,155, 3-24-59, Cl. 75-3.
- Davey, Paul H.,  $\frac{1}{2}$  to P. H. Davey, Jr., and  $\frac{1}{2}$  to J. T. Myers. Light metal vane for rotary compressor. 2,905,376, 9-22-59, Cl. 230-152.
- Davey, Paul H., Jr.: *See*—  
Davey, Paul H. 2,905,376.
- Davey, Peter E., to General Electric Co. Oil cooling system for compressors. 2,907,515, 10-6-59, Cl. 230-58.
- David, Albert, Ltd.: *See*—  
Mukherjee, Sudhir L. 2,891,067.
- David, Casimir: *See*—  
Booharin, Leo Y. 2,901,021.
- David & David, Inc.: *See*—  
Nichols, Victor L., and Carshelis. 2,878,514.
- David, John L.: *See*—  
Micciche, Frank, and David. 2,894,574.
- David, William F. Trolling jig. 2,893,155, 7-7-59, Cl. 43-16.
- Davidoff, Dorsey, to International Telephone and Telegraph Corp. Bias power supply source. 2,906,964, 9-29-59, Cl. 331-144.
- Davidson, William C., to Nuclear-Chicago Corp. Nuclear radiation counters. 2,917,648, 12-15-59, Cl. 313-93.
- Davidson, Alex B., to Schenley Industries, Inc. Process for treatment of sewage. 2,875,151, 2-24-59, Cl. 210-4.
- Davidson, Allen R.: *See*—  
Merchant, Chester O., and Davidson. 2,877,814.
- Davidson, Arthur P. Pump. 2,887,958, 5-26-59, Cl. 103-103.
- Davidson, Carl E. Method of making expandable and retractable closures. 2,906,657, 9-29-59, Cl. 154-116.
- Davidson, Charles S.: *See*—  
Van Hartesveldt, Carroll H., and Davidson. 2,869,173.
- Davidson Corp.: *See*—  
Miaskoff, Leonard. 2,893,730.
- Willet, John A. 2,878,122.
- Davidson, Donald E. Elevator for tripod. 2,883,875, 4-28-59, Cl. 74-424.6.
- Davidson, Donald T.: *See*—  
Handy, Richard L., and Davidson. 2,877,647.
- Davidson, Gareth M.: *See*—  
Bock, Robert O., and Davidson. 2,874,903.
- Davidson, Gareth M., to American Bosch Arma Corp. Trigonometric converter utilizing thermal elements. 2,917,237, 12-15-59, Cl. 235-179.
- Davidson, Glenn. Cigarette filter tip. 2,900,989, 8-25-59, Cl. 131-208.
- Davidson, Harold F., to Alamac Knitting Mills, Inc. Diapers. 2,905,176, 9-22-59, Cl. 128-284.
- Davidson, Haskell B. Infant chair attachment for a table. 2,895,536, 7-21-59, Cl. 155-78.
- Davidson, Haskell B. Infant chair attachment for a table. 2,895,537, 7-21-59, Cl. 155-78.
- Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Compressor and turbine blades. 2,917,274, 12-15-59, Cl. 253-77.
- Davidson, Jack H. Convertible test probe. 2,918,646, 12-22-59, Cl. 339-31.
- Davidson, James J.: *See*—  
Kidd, Marshall C., and Davidson. 2,905,747.
- Davidson, James J., to Radio Corp. of America. Direct coupled feedback transistor amplifier circuits. 2,900,456, 8-18-59, Cl. 179-171.
- Davidson, James P.: *See*—  
Renard, Roland E., Thorpe, and Davidson. 2,868,373.
- Davidson, James W., to Thompson Ramo Wooldridge, Inc. Wire cutting machine. 2,888,075, 5-26-59, Cl. 164-42.
- Davidson, Joe B. Collapsible plant container. 2,893,167, 7-7-59, Cl. 47-37.
- Davidson, John C.: *See*—  
Ingham, Lawrence A., and Davidson. 2,890,427.
- Davidson, John K.: *See*—  
Alter, Henry W., Davidson, Miller, and Mewherter. 2,868,707.
- Davidson, John T.: *See*—  
Kroemer, John H., and Davidson. 2,873,983.
- Davidson, John T., to The Standard Register Co. Auto-graphic register. 2,869,897, 1-20-59, Cl. 282-20.
- Davidson, John T., to The Standard Register Co. Strip feeding mechanism. 2,885,053, 5-5-59, Cl. 197-133.
- Davidson, John T., R. D. Georgan, and R. L. Fortune, to The Standard Register Co. Capacitor control unit. 2,870,399, 1-20-59, Cl. 323-75.
- Davidson, Leo R. Apparatus for polishing work pieces. 2,891,357, 6-23-59, Cl. 51-7.
- Davidson, Leo R. Method, apparatus and compound for mechanically finishing work pieces. 2,899,777, 8-18-59, Cl. 51-7.
- Davidson, Norman R.: *See*—  
Seaborg, Glenn T., Thompson, and Davidson. 2,903,335.
- Davidson, Norman R., and S. Fried, to United States of America, Atomic Energy Commission. Method of preparing UF<sub>6</sub>. 2,910,344, 10-27-59, Cl. 23-14.5.
- Davidson, Philip H., to United States of America, Atomic Energy Commission. Charge bottle for a mass separator. 2,894,135, 7-7-59, Cl. 250-41.9.
- Davidson, Philip H., to United States of America, Atomic Energy Commission. Apparatus for charging a receptacle with a dense sublimate form of uranium chloride. 2,900,237, 8-18-59, Cl. 23-264.
- Davidson, Richard C.: *See*—  
Bandy, Kenneth L., and Davidson. 2,900,143.
- Davidson, Robert H. Latch for dump truck tail gates. 2,908,529, 10-13-59, Cl. 296-56.
- Davidson, Ronald, to Cornell-Dubilier Electric Corp. Sealing means for capacitors. 2,873,304, 2-10-59, Cl. 174-52.
- Davidson, Samuel H.: *See*—  
Haslam, Robert, and Davidson. 2,871,786.
- Davidson, Samuel H., to Imperial Chemical Industries Ltd. Packages containing a material for use in blasting. 2,892,377, 6-30-59, Cl. 86-1.
- Davidson, Samuel H., D. A. Love, and H. T. Williams, to Imperial Chemical Industries Ltd. Blasting device. 2,869,462, 1-20-59, Cl. 102-25.
- Davidson, Theodore D.: *See*—  
Hollins, Jesse R. 2,886,743.
- Davidson, Trevor O., and G. J. Storatz, to International Harvester Co. Hydraulic carrying-lock for earth-working scrapers. 2,897,613, 8-4-59, Cl. 37-126.
- Davidson, William A.: *See*—  
Gimpel, Donald J., and Davidson. 2,877,398.
- Gimpel, Donald J., and Davidson. 2,918,574.
- Davidson, William E., to General Electric Co. Vacuum cleaner vaporizer. 2,890,761, 6-16-59, Cl. 183-37.
- Davidson, William W. Multi-purpose rotary printing press. 2,911,907, 11-10-59, Cl. 101-137.
- Davies, Charles. Air diffuser. 2,907,260, 10-6-59, Cl. 98-40.
- Davies, David K., and E. E. Schoessow, to The Babcock & Wilcox Co. Heat exchange apparatus. 2,904,013, 9-13-59, Cl. 122-32.
- Davies, David O.: *See*—  
Johnson, Christopher L., Morley, and Davies. 2,886,968.
- Davies, David O., to Rolls-Royce Ltd. Gas-turbine engine reheat fuel supply system with air turbine driven fuel pump. 2,872,781, 2-10-59, Cl. 60-35.6.
- Davies, David O., to Rolls-Royce Ltd. Temperature-sensitive arrangement for gas turbine engines. 2,911,831, 11-10-59, Cl. 73-343.
- Davies, David O., and J. S. Jones, to Rolls-Royce Ltd. Axial flow fluid machines. 2,910,268, 10-27-59, Cl. 253-39.15.
- Davies, Donald A., and J. O. Lalli, to Sperry Rand Corp. Auxiliary optical systems for use with computing gun sights. 2,884,829, 5-5-59, Cl. 88-1.
- Davies, Donald W.: *See*—  
Newman, Edward A., Davies, and Clayden. 2,891,723.
- Davies, Drury N., and L. F. Bull, to The Distillers Co. Ltd. Method of making glass reinforced plastic articles. 2,873,226, 2-10-59, Cl. 154-83.
- Davies, Elmer S., and F. D. Petersen, to Daveat Milk Processes Co. Process for the sterilization of milk. 2,899,320, 8-11-59, Cl. 99-216.
- Davies, Enoch D., to The Oilgear Co. Tensioning apparatus for extrusion presses. 2,893,552, 7-7-59, Cl. 207-1.
- Davies, Eric, and H. Mirzinski, to Marconi's Wireless Telegraph Co. Ltd. Receiver distortion suppression circuit. 2,882,393, 4-14-59, Cl. 250-20.
- Davies, Eric, and H. Mirzinski, to Marconi's Wireless Telegraph Co. Ltd. Interference reduction in television and other communication systems. 2,907,822, 10-6-59, Cl. 178-7.3.
- Davies, Gail F., and H. W. Dodds, to Clevite Corp. Method of producing powdered titanium and titanium alloys. 2,892,697, 6-30-59, Cl. 75-5.
- Davies, Harold, to Thiokol Chemical Corp. Temperature compensating nozzle. 2,909,032, 10-20-59, Cl. 60-35.6.
- Davies, John T. Loose leaf holder and display device. 2,889,036, 6-2-59, Cl. 206-45.2.
- Davies, Leonard T., to Colcrete Ltd. Pumping apparatus. 2,879,920, 3-31-59, Cl. 222-23.
- Davies, Lloyd A.: *See*—  
Robinson, Glen, and Davies. 2,883,903.



- Davis, Richard E.: *See*—  
Marshall, Henry P., and Davis. 2,880,193.
- Davis, Robert R., to Imperial Chemical Industries Ltd. Met-  
allisable azo dyestuffs. 2,872,440, 2-3-59, Cl. 260-143.
- Davis, Thomas H., to United States of America, Atomic  
Energy Commission. Separation of fission product values  
from hexavalent plutonium by carrier precipitation.  
2,917,359, 12-15-59, Cl. 23-14.5.
- Davis, Thomas T., and D. G. Roberts, to Shell Development  
Co. Multi-stage sweetening process employing an alkaline  
hypochlorite solution. 2,915,461, 12-1-59, Cl. 208-190.
- Davis, William, to The United Steel Companies Ltd. Prepara-  
tion of material for sintering. 2,914,395, 11-24-59,  
Cl. 75-5.
- Davis Aircraft Products Inc.: *See*—  
Davis, Frank L. 2,867,406.
- Davis, Alfred, to United States of America, Army. Azimuth  
sensing device. 2,885,565, 5-5-59, Cl. 250-231.
- Davis, Andrew W., to The Proctor Counter Co. Shoe counter.  
2,877,571, 3-17-59, Cl. 36-68.
- Davis, Ariel R. Electric switchboards. Re. 24,586, 1-13-59,  
Cl. 200-16.
- Davis, Arnold R., to American Cyanamid Co. Process of  
plasticizing rubber with a 2-alkoxy-1-naphthalenethiol and  
products thereof. 2,912,403, 11-10-59, Cl. 260-30.8.
- Davis, Arthur E., to Sonoco Products Co. Concrete column  
form for square columns. 2,873,503, 2-17-59, Cl. 25-118.
- Davis, Benajah L., to The Upjohn Co. Washing clamp.  
2,899,079, 8-11-59, Cl. 211-74.
- Davis, Benjamin H., to Standard Machinery Division of  
Franklin Research Corp. Automatic stock feed into extru-  
sion apparatus. 2,875,469, 3-3-59, Cl. 18-2.
- Davis, Benjamin H., to The Standard Machinery Co. Stock  
anchor for snagless continuous stock reeling operations.  
2,893,652, 7-7-59, Cl. 242-25.
- Davis, Benjamin I. Tool for closing bags and the like.  
2,886,932, 5-19-59, Cl. 53-285.
- Davis, Carl H., and C. G. Grand, to Carlen Corp. Skin dis-  
infectant containing polyoxyethylene alkyl phenol, calcium  
chelating agent and either an organic sulfate or sulfonate  
salt. 2,904,468, 9-15-59, Cl. 167-58.
- Davis, Charles A., to The Ohio Brass Co. Transformer valve.  
2,872,153, 2-3-59, Cl. 251-98.
- Davis, Charles A., to The Ohio Brass Co. Dispenser for  
liquid petroleum gas. 2,886,055, 5-12-59, Cl. 137-382.
- Davis, Charles A., to W. J. Young Machinery Co., Inc. Clamp  
for heel doweling machines. 2,892,200, 6-30-59, Cl. 12-  
123.3.
- Davis, Charles C., to Westrex Corp. Magnetic tape record  
bearing a sound track and a control track. 2,878,321,  
3-17-59, Cl. 179-100.2.
- Davis, Charles C., to Westrex Corp. Magnetic head with ad-  
justable shield for controlling stray magnetic flux.  
2,886,652, 5-12-59, Cl. 179-100.2.
- Davis, Charles F. Sliding door storage track arrangement.  
2,904,852, 9-22-59, Cl. 20-19.
- Davis, Charles J., to Massey-Ferguson Inc. Boom actuating  
mechanism for mechanical shovels. 2,883,067, 4-21-59,  
Cl. 212-66.
- Davis, Charles J., to Massey-Ferguson Inc. Mechanical  
shovel apparatus for transport vehicles. 2,897,986, 8-4-59,  
Cl. 214-131.
- Davis, Charles J., to Massey-Ferguson Inc. Swivel seat for  
mechanical shovels. 2,912,130, 11-10-59, Cl. 214-131.
- Davis, Claude W. Fresh air breathing device. 2,902,032,  
9-1-59, Cl. 128-145.
- Davis, Clifton H.: *See*—  
Hawkins, Harold V., Davis, Mahar, and Vinicky.  
2,892,601.
- Davis, Clyde W., F. A. Ehlers, and T. G. Traylor, to The Dow  
Chemical Co. Copolymers of acrylonitrile and alkenyl-  
aromatic sulfonates, and dyeable fibers thereof. 2,913,438,  
11-17-59, Cl. 260-79.3.
- Davis, David R., to General Electric Co. Pipe coupling hav-  
ing a radially expandable positive lock. 2,894,768, 7-14-59,  
Cl. 285-39.
- Davis, Dean W., to International Telephone and Telegraph  
Corp. Storage cathode ray tube. 2,916,661, 12-8-59, Cl.  
315-11.
- Davis, Delmar B., and A. R. Tarsey, to Titanium Metals Corp.  
of America. Purification of crude titanium tetrachloride.  
2,890,100, 6-9-59, Cl. 23-87.
- Davis, Donald W.: *See*—  
Hultkrans, Paul B., Griem, and Davis. 2,901,875.
- Davis, Dwight E.: *See*—  
Kolk, Anthony J., Jr., and Davis. 2,894,887.
- Davis, Edward A. Position indicating circuit. 2,902,685,  
9-1-59, Cl. 340-332.
- Davis, Edwin P., to Van Norman Industries, Inc. Me-  
chanical indicating apparatus for computing machines.  
2,894,683, 7-14-59, Cl. 235-61.
- Davis, Ernest, and R. D. McCallum, to Ward Industries Corp.  
Filter for dry cleaning solvent and vibrating means for  
backwashing same. 2,886,178, 5-12-59, Cl. 210-333.
- Davis, Erwin S.: *See*—  
Langford, Robert C., and Davis. 2,902,648.
- Davis, Ethel M.: *See*—  
Davis, George A. 2,899,012.
- Davis, Fenimore E. Patient transfer device. 2,918,681,  
12-29-59, Cl. 5-81.
- Davis, Flavius E., to Anchor Mfg. Co. Meter box cover lock.  
2,870,238, 1-20-59, Cl. 174-50.
- Davis, Flavius E., III, to Anchor Mfg. Co. Means for locking  
a cover on a meter box. 2,882,454, 4-14-59, Cl. 317-109.
- Davis, Francis J., G. S. Hurst, and P. W. Reinhardt, to United  
States of America, Atomic Energy Commission. Fast neu-  
tron spectrometer. 2,900,516, 8-18-59, Cl. 250-71.5.
- Davis, Frank L., to Davis Aircraft Products Inc. Heavy  
duty cargo tie-down. 2,867,406, 1-6-59, Cl. 248-361.
- Davis, Frank L. Web end connector. 2,896,288, 7-28-59,  
Cl. 24-230.
- Davis, Frank L. Litter brackets. 2,901,204, 8-25-59, Cl.  
248-229.
- Davis, Frank L. Variable cargo tie-down equipment.  
2,913,216, 11-17-59, Cl. 248-361.
- Davis, Frederick L., to Welex, Inc. Detachable shaft collars.  
2,902,303, 9-1-59, Cl. 287-52.
- Davis & Furber Machine Co.: *See*—  
Kooistra, John A. 2,871,650.
- Davis, George. Clutch or brake mechanism. 2,891,644,  
6-23-59, Cl. 192-75.
- Davis, George A., deceased, by E. M. Davis, legal representa-  
tive, to Allied Chemical Corp. Process and apparatus for  
cooling coke oven gas. 2,899,012, 8-11-59, Cl. 183-2.
- Davis, George E., Jr.,  $\frac{1}{2}$  to C. E. Justason. Lifting and  
mounting device for outboard motors. 2,903,147, 9-8-59,  
Cl. 214-512.
- Davis, George J. Hydraulic pallet lift truck. 2,877,982,  
3-17-59, Cl. 254-10.
- Davis, George L.: *See*—  
Charlton, Maurice G., Davis, and Gentry. 2,873,208.
- Davis, George M., to National Research Development Corp.  
Control gating means for a digital computer. 2,902,217,  
9-1-59, Cl. 235-152.
- Davis, Harlan L.: *See*—  
Stern, Lewis J., and Davis. 2,909,216.
- Davis, Harlan L., to Stubnitz-Greene Spring Corp. Seat  
springs. 2,880,787, 4-7-59, Cl. 155-179.
- Davis, Harold C., Jr.: *See*—  
Borup, Ronald J., and Davis. 2,896,056.
- Davis, Harry E. Method of making cellophane sticks.  
2,884,757, 5-5-59, Cl. 57-165.
- Davis, Herbert B. Anti-corrosive valve having a rubber  
spring. 2,910,998, 11-3-59, Cl. 137-375.
- Davis, Herbert W. Beach cleaning attachment. 2,895,557,  
7-21-59, Cl. 171-63.
- Davis, Hildred L.: *See*—  
Stern, Lewis J., and Davis. 2,909,216.
- Davis, Hollie M. Question and answer device using multiple  
rotating discs. 2,871,577, 2-3-59, Cl. 35-9.
- Davis, Horace R.: *See*—  
Errede, Louis A., Landrum, and Davis. 2,914,511.
- Sorensen, David P., and Davis. 2,870,216.
- Davis, Horace R., and D. P. Sorensen, to The M. W. Kellogg  
Co. Conversion of organic sulfides to sulfones. 2,870,163,  
1-20-59, Cl. 260-327.
- Davis, Horace R., and D. B. Brandon, to The M. W. Kellogg  
Co. Alkylation of hydrocarbons. 2,880,255, 3-31-59, Cl.  
260-683.63.
- Davis, Horace R., Jr., and D. P. Sorensen, to The M. W. Kel-  
logg Co. Disproportionation of organic sulfoxides.  
2,870,215, 1-20-59, Cl. 260-607.
- Davis, Howard C., and H. H. Kouns. Deferred action battery.  
2,886,619, 5-12-59, Cl. 136-6.
- Davis, Hugh N., Jr. Panel wall construction. 2,877,877,  
3-17-59, Cl. 189-85.
- Davis, Hyman, and J. J. Hartman, to Paramount Products,  
Inc. Dual sofa-bed assembly. 2,899,691, 8-18-59, Cl. 5-2.
- Davis, Jack. Self adjusting shaper for shoes. 2,879,527,  
3-31-59, Cl. 12-115.8.
- Davis, Jacob M., and G. H. Hochmuth, to Kearney & Trecker  
Corp. Method of forming spiral blades. 2,903,569, 9-8-59,  
Cl. 219-153.
- Davis, Jacques A., Inc.: *See*—  
Fingerhut, Rudolph. 2,881,239.
- Davis, James F. Coffee maker. 2,868,109, 1-13-59, Cl.  
99-282.
- Davis, James K., to Corning Glass Works. Electrical resistor  
and method. 2,915,730, 12-1-59, Cl. 338-309.
- Davis, James L., and J. H. Rowen, to Bell Telephone Labo-  
ratories, Inc. Broadband nonreciprocal devices. 2,909,738,  
10-20-59, Cl. 333-98.
- Davis, James R., to The Trane Co. Multi-zone air condition-  
ing unit. 2,894,728, 7-14-59, Cl. 257-9.
- Davis, John B. Double hung window. 2,886,148, 5-12-59,  
Cl. 189-65.
- Davis, John E.: *See*—  
Andrews, Kenneth E., and Davis. 2,878,346.
- Davis, John H.: *See*—  
Potosky, Maurice, Davis, and Hansburg. 2,886,773.
- Davis, John V., to The Udyllite Corp. Work-handling appa-  
ratus. 2,894,517, 7-14-59, Cl. 134-77.
- Davis, John V., to The Udyllite Corp. Plating apparatus.  
2,912,094, 11-10-59, Cl. 198-85.
- Davis, John V., and L. J. Pianowski, to The Udyllite Corp.  
Conveyor apparatus with controllable lifting and lowering  
means. 2,881,711, 4-14-59, Cl. 104-128.
- Davis, John W., to Girling Ltd. Disc brake for vehicles.  
2,915,147, 12-1-59, Cl. 188-73.
- Davis, John W., to Girling Ltd. Disc brakes for vehicles.  
2,918,990, 12-29-59, Cl. 188-73.
- Davis, Joseph E., to Sylvania Electric Products Inc. Color  
television receiver. 2,892,023, 6-23-59, Cl. 178-5.4.



- Davis, Joseph E., to Sylvania Electric Products Inc. Color television receiver. 2,892,024, 6-23-59, Cl. 173-5.4.
- Davis, Joseph E., to Sylvania Electric Products Inc. Screen grid, color burst separation circuit. 2,894,059, 7-7-59, Cl. 178-5.4.
- Davis, Kenneth J.: *See—*  
Gates, Thomas S., Bassoff, and Davis. 2,873,652.
- Davis, Kent L.: *See—*  
King, Donald L., and Davis. 2,899,068.
- Davis, L. Bernard: *See—*  
Herron, De Witt A. 2,885,077.
- Davis, Lawrence E.: *See—*  
Stiff, Henry A., Jr., and Davis. 2,875,836.
- Davis, Lincoln K., to United States of America, Navy. Pendulum potentiometer. 2,903,665, 9-8-59, Cl. 338-43.
- Davis, Luther, Jr., to Raytheon Mfg. Co. Microwave circuit controls. 2,892,984, 6-30-59, Cl. 333-31.
- Davis, Lynn N.: *See—*  
Brooks, William, Schray, and Davis. 2,890,059.
- Davis, Lynn N., to United Steel & Wire Co. Baby seat for telescoping cart. 2,890,057, 6-9-59, Cl. 280-33.99.
- Davis, Lynn N., to United Steel and Wire Co. Collapsible child's seat for a nesting type shopping carrier. 2,911,227, 11-3-59, Cl. 280-33.99.
- Davis, Lynn N., and W. H. Schray, to United Steel & Wire Co. Frame construction for a nesting shopping cart. 2,898,123, 8-4-59, Cl. 280-33.99.
- Davis, Lysander C., Jr., and J. W. Richardson, to Charleston Hosiery Processing Co., Inc. Circular knit fabric with raised areas. 2,872,800, 2-10-59, Cl. 66-172.
- Davis, Mace W. Backwater valve. 2,904,064, 9-15-59, Cl. 137-410.
- Davis, Martin A.: *See—*  
Winthrop, Stanley O., and Davis. 2,914,527.
- Davis, Melvin C. Well casing support and packing device. 2,880,806, 4-7-59, Cl. 166-138.
- Davis, Melvin C. Slip anchored type well casing support and packing device. 2,908,514, 10-13-59, Cl. 285-146.
- Davis, Merlin. Electronic musical instruments. 2,900,861, 8-25-59, Cl. 84-128.
- Davis, Michael. Travel bags. 2,887,196, 5-19-59, Cl. 190-43.
- Davis, Nelson L. Method and apparatus for sink and float separation for minerals of small particle size. 2,877,897, 3-17-59, Cl. 208-172.5.
- Davis, Paul B., to General Electric Co. Cathode. 2,913,615, 11-17-59, Cl. 313-178.
- Davis, Paul F., and H. T. Iveson, to The Glidden Co. Process for preparing a water-dispersible alcohol-soluble phosphatide composition. 2,910,362, 10-27-59, Cl. 99-15.
- Davis, Peter J. Minnow and tackle container. 2,870,932, 1-27-59, Cl. 220-23.
- Davis, Philip E., Jr. Well tool for determining the torque applied to well pipe sections. 2,916,954, 12-15-59, Cl. 81-52.4.
- Davis, Putnam, to Jet Ignition Co., Inc. Spark plugs. 2,895,069, 7-14-59, Cl. 313-143.
- Davis, Ralph A.: *See—*  
Ruh, Robert P., and Davis. 2,871,274.  
Ruh, Robert P., and Davis. 2,908,724.  
Ruh, Robert P., Davis, and Broadworth. 2,885,427.  
Ruh, Robert P., Stowe, and Davis. 2,889,379.
- Davis, Ralph A., to The Dow Chemical Co. 1,1,2-trifluoroethylfluorosulfonate and fumigation process. 2,878,156, 3-17-59, Cl. 167-39.
- Davis, Ralph B.: *See—*  
Walters, Peter C., and Davis. 2,896,528.
- Davis, Ralph C., to The Firestone Tire & Rubber Co. Vehicle suspension. 2,874,957, 2-24-59, Cl. 267-65.
- Davis, Raymond C.: *See—*  
Frei, Arthur J., and Davis. 2,895,312.
- Davis, Richard, to Standard Machinery Division of Franklin Research Corp. Extrusion apparatus with stock-displacing discharge end on feed screw. 2,878,512, 3-24-59, Cl. 18-12.
- Davis, Richard E.: *See—*  
Nitka, Norbert J., and Davis. 2,902,825.
- Davis, Robert G., to E. K. Cole Ltd. Ionisation chamber. 2,913,614, 11-17-59, Cl. 313-93.
- Davis, Robert O., to Gene Olsen Corp. Apparatus for stacking and unstacking building blocks. 2,869,739, 1-20-59, Cl. 214-16.4.
- Davis, Robert O., to Gene Olsen Corp. Pallet conveyor mechanism. 2,907,446, 10-6-59, Cl. 198-159.
- Davis, Robert S. Infant's crib with an adjustable mattress-supporting frame. 2,873,455, 2-17-59, Cl. 5-63.
- Davis, Roderic A., R. M. Gustafson, and S. Hnat, to International Business Machines Corp. Record card accounting machine. 2,880,932, 4-7-59, Cl. 235-61.7.
- Davis, Rodger E.: *See—*  
Beers, Max I., and Davis. 2,888,219.
- Davis, Roger A.: *See—*  
Ash, Denis J., and Davis. 2,885,956.
- Davis, Roy C., and P. E. Pierce, to The Guiberson Corp. Method and apparatus for gas lifting fluid from plural zones of production in a well. 2,917,004, 12-15-59, Cl. 103-233.
- Davis, Roy S. Egg grading machine. 2,872,040, 2-3-59, Cl. 209-121.
- Davis, Russell B., to E. I. du Pont de Nemours and Co. Device for transferring liquids. 2,917,068, 12-15-59, Cl. 137-205.
- Davis, Russell S.: *See—*  
Platz, Elwood T., and Davis. 2,874,247.
- Davis, Russell S., and J. Wittenberg, to I-T-E Circuit Breaker Co. Trolley duct with formed bus bars. 2,882,356, 4-14-59, Cl. 191-23.
- Davis, Sidney: *See—*  
Bock, Charles D., and Davis. 2,880,388.
- Davis, Sidney R.: *See—*  
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- Davis, Stanley W., Jr.: *See—*  
Levine, Morton A., and Davis. 2,915,607.
- Davis, Walter C., to The Sharples Corp. Food products. 2,890,961, 6-16-59, Cl. 99-205.
- Davis, Walter M.: *See—*  
Sargent, Neil A., and Davis. 2,868,280.
- Davis, Walter M., and A. L. Fisher, to Monsanto Chemical Co. Process for producing substantially white sodium bisulfate. 2,893,836, 7-7-59, Cl. 23-121.
- Davis, Walter T., to Wheeling Stamping Co. Collapsible tube for ointments and the like. 2,893,613, 7-7-59, Cl. 222-566.
- Davis, Walter W. Polarized outlet and plug. 2,911,614, 11-3-59, Cl. 339-182.
- Davis, Weldon V.: *See—*  
Bayley, Emery P., Davis, Diederichs, Vaupell, and Perrow. 2,886,918.
- Davis, Wilbur M. Game. 2,906,534, 9-29-59, Cl. 273-93.
- Davis, William H. Fishing lure. 2,892,280, 6-30-59, Cl. 43-42.5.
- Davis, William R.: *See—*  
Chase, Wallace P., Davis, and Snyder. 2,917,732.
- Davis, William W. Control for a room air conditioner. 2,917,904, 12-22-59, Cl. 62-162.
- Davison, Alan, and R. Threadgold, to Automatic Telephone & Electric Co. Ltd. Counting circuits. 2,872,619, 2-3-59, Cl. 315-84.5.
- Davison, Alan, and R. Threadgold, to Automatic Telephone & Electric Co. Ltd. Electronic telephone system. 2,882,342, 4-14-59, Cl. 179-18.
- Davison, Alan, and R. Threadgold, to Automatic Telephone & Electric Co. Ltd. Telecommunication systems. 2,888,612, 5-26-59, Cl. 315-84.5.
- Davison, Alan, and L. J. Allen, to Automatic Telephone & Electric Co., Ltd. Telephone systems. 2,898,406, 8-4-59, Cl. 179-18.
- Davison, Alan, and R. Threadgold, to Automatic Telephone & Electric Co. Ltd. Circuit arrangements for registering and retransmitting numbers. 2,909,763, 10-20-59, Cl. 340-173.
- Davison, Delphine L. Collapsible double wall container. 2,886,084, 5-12-59, Cl. 150-5.
- Davison, James M., and J. F. Erdmann, to Union Carbide Corp. Ethylene polymers. 2,870,130, 1-20-59, Cl. 266-94.9.
- Davison, Joseph W., to Phillips Petroleum Co. Thermal cracking process with an improved heat conservative quenching technique. 2,899,475, 8-11-59, Cl. 260-683.
- Davison, Joseph W., and J. R. Cobb, Jr., to Phillips Petroleum Co. Demethanization of cracked gases. 2,880,592, 4-7-59, Cl. 62-25.
- Davison, Joseph W., J. R. Williams, and R. A. Koble, to Phillips Petroleum Co. Cracking and separation process for making ethylene. 2,905,734, 9-22-59, Cl. 260-683.
- Davison, Lawrence L. Cable clamp. 2,867,875, 1-13-59, Cl. 24-133.
- Davison, Robert T. B., E. A. Eriksson, W. J. J. Gordon, and C. S. Marden, to American Machine and Metals, Inc. Liquid dispensing attachment for bottle, with means for automatically measuring a charge upon inversion of bottle. 2,883,086, 4-21-59, Cl. 222-67.
- Davission, Jacob W., and A. C. Finlay, to Chas. Pfizer & Co., Inc. Catenulin and its production. 2,895,876, 7-21-59, Cl. 167-65.
- Davission, Kenneth R.: *See—*  
Baldridge, Walter M., and Davission. 2,871,021.
- Davitt, John H. Trash bag holder. 2,884,174, 4-28-59, Cl. 224-42.46.
- Davol Rubber Co.: *See—*  
Bray, Calvin S. 2,888,714.  
Bray, Calvin S. 2,888,929.  
Bray, Calvin S. 2,889,063.  
De Luca, Walter G., and Gants. 2,883,986.  
Kilcup, Ernest I. 2,898,941.  
Raiche, Paul A. 2,892,559.
- Davy, Geoffrey S., and G. E. Williams, to Imperial Chemical Industries Ltd. 2-allyl, 4-alkoxy phenol natural rubber stabilizers. 2,880,256, 3-31-59, Cl. 260-810.
- Davy, John C.: *See—*  
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- Davy, John C., to Powers-Samas Accounting Machines Ltd. Card feeding apparatus. 2,867,437, 1-6-59, Cl. 271-44.
- Dawidowicz, Jan: *See—*  
Brown, Norman E., and Dawidowicz. 2,886,045.
- Dawkins, Edwin F., to Dewrance & Co. Ltd. Apparatus for depositing an annular metal coating upon a work-piece. 2,876,732, 3-10-59, Cl. 118-47.
- Dawkins, John E., to Collins Radio Co. Detent mechanism. 2,909,940, 10-27-59, Cl. 74-527.
- Dawkins, Kenneth, and W. G. Lind., to Franklin Mfg. Co. Nonpolarity sensitive indicating device. 2,912,650, 11-10-59, Cl. 324-106.
- Dawkins, Lacy L. High frequency tape recorder. 2,907,572, 10-6-59, Cl. 274-41.4.



- Dawkins, Percy R.: *See*—  
Robinson, Thomas P., and Dawkins. 2,881,856.
- Dawson, Arden H., Jr. Process and apparatus for preventing loss of drilling fluid. 2,879,846, 3-31-59, Cl. 166—23.
- Dawson Carbide Industries: *See*—  
Stuber, Bernard K. 2,871,731.
- Dawson, Collins T., to The W. E. Bassett Co. Case for tool. 2,876,336, 3-10-59, Cl. 30—155.
- Dawson, Dorothy L. Peripheral frame for throw rug. 2,918,397, 12-22-59, Cl. 154—49.
- Dawson, Fred: *See*—  
Smith, John F., and Dawson. 2,866,987.
- Dawson, Fred, to Compo Shoe Machinery Corp. Adhesive applying machine. 2,867,189, 1-6-59, Cl. 118—409.
- Dawson, Fred, C. R. Illsley, J. L. Moilliet, and H. W. G. Ziegler, to Imperial Chemical Industries Ltd. Compositions for use in the manufacture of light-sensitive photographic materials. 2,893,867, 7-7-59, Cl. 96—97.
- Dawson, Harvey B. Convertible vehicle and freight carrier. 2,883,231, 4-21-59, Cl. 296—1.
- Dawson, Horace: *See*—  
Kritchever, Mathew F. 2,867,912.  
Kritchever, Mathew F. 2,916,620.
- Dawson, Horace. Button sewing and sewing implement. 2,883,096, 4-21-59, Cl. 223—102.
- Dawson, John W.: *See*—  
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- Dawson, John W., to Sylvania Electric Products, Inc. Crystal diodes. 2,892,156, 6-23-59, Cl. 324—158.
- Dawson, Joseph C. Liquid dispensing apparatus. 2,895,649, 7-21-59, Cl. 222—318.
- Dawson, Joseph C., and L. E. McQuillen, to Ferguson Fumigants, Inc. Liquid dispensing apparatus. 2,876,932, 3-10-59, Cl. 222—70.
- Dawson, Lyle R., to United States of America, Atomic Energy Commission. Method of separation of plutonium from carrier precipitates. 2,905,525, 9-22-59, Cl. 23—145.
- Dawson, Lyle R., and P. R. Fields, to United States of America, Atomic Energy Commission. Neptunium solvent extraction process. 2,907,628, 10-6-59, Cl. 23—145.
- Dawson, Max E.: *See*—  
Lanier, Lewis H., Sr., and L. H., Jr., and Dawson. 2,870,588.
- Dawson, Norman E., to H. Fishlove & Co. Oscillating toy. 2,881,560, 4-14-59, Cl. 46—131.
- Dawson, Orlie W., to M-W Sales. Fixture for positioning tool relative to grinding head. 2,911,770, 11-10-59, Cl. 51—219.
- Dawson, Robert H., to The Dole Valve Co. Liquid metering device and control valve therefor. 2,918,936, 12-29-59, Cl. 137—599.1.
- Dawson, Robert J.: *See*—  
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Mittell, Frank C., Chase, Matey, Pollock, Dawson, and Bower. 2,902,696.
- Dawson, Thomas P., E. R. Lovejoy, C. E. Williamson, and B. Witten. Some phosphorus containing derivatives of alkyl acetothiolacetate. 2,913,367, 11-17-59, Cl. 167—22.
- Dawson, Timothy L., to Imperial Chemical Industries Ltd. Textile finishing process. 2,899,341, 8-11-59, Cl. 117—138.8.
- Dawson-Vogel Engineering Co.: *See*—  
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Vogel, Arthur E. 2,903,271.
- Dawson, Wainwright: *See*—  
Miles, Robert L., and Dawson. 2,894,508.
- Dawson, William H., Jr., to Curtiss-Wright Corp. Apparatus for simulating turbo-jet aircraft engine operation. 2,882,615, 4-21-59, Cl. 35—12.
- Day-Brite Lighting, Inc.: *See*—  
Stahlhut, Leo G. 2,913,214.
- Day, Carl L., F. E. Fauth, and W. D. Regnier, to Crown Cork & Seal Co., Inc. Method and apparatus for preparing beverages. 2,870,016, 1-20-59, Cl. 99—79.
- Day, Carl L., and W. D. Regnier, to The Crown Cork & Seal Co. Case filling machine. 2,881,575, 4-14-59, Cl. 53—59.
- Day, Carl L., and W. D. Regnier, to Crown Cork & Seal Co., Inc. Case filling machine. 2,890,553, 6-16-59, Cl. 53—61.
- Day, Carl L., F. E. Fauth, H. F. Finke, and M. A. Reymann, Jr., to Crown Cork & Seal Co., Inc. Filling head. 2,896,674, 7-28-59, Cl. 141—39.
- Day, Chester B. Reverse circulation rotary rock bit. 2,887,301, 5-19-59, Cl. 255—306.
- Day, Cyril L.: *See*—  
Orthuber, Richard K., Stanley, and Day. 2,894,163.
- Day, Cyril L., to International Telephone and Telegraph Corp. Electron discharge assembly. 2,892,087, 6-23-59, Cl. 250—49.5.
- Day, Cyril L., to International Telephone and Telegraph Corp. Electron discharge device. 2,894,167, 7-7-59, Cl. 313—291.
- Day, Howard Q. Trailer placement tractor. 2,884,870, 5-5-59, Cl. 105—27.
- Day, J. H., Co., Inc., The: *See*—  
Beaman, Norman V. 2,903,998.  
Sexauer, William O. 2,893,534.
- Day, John T., to Merck & Co., Inc. Halogenation of 3-keto steroids. 2,907,776, 10-6-59, Cl. 260—397.45.
- Day, John T., R. L. Erickson, and R. H. Pettebone, to Merck & Co., Inc. N,N-dialkyl acylamide solvate of 1,4-pregnadiene-17 $\alpha$ , 21-diol-3,11,20-trione-21-acylate and process of preparing such. 2,873,284, 2-10-59, Cl. 260—397.45.
- Day, John W. Wall mounted rotary vibrator. 2,876,765, 3-10-59, Cl. 128—46.
- Day, Lawrence, J. Dobrick, and A. Kay, to Spitfire Tool and Machine Co., Inc. Conditioning ring holding apparatus for lapping machines. 2,895,261, 7-21-59, Cl. 51—131.
- Day, Leslie, and W. A. MacNerland. Lubricator and sealing device. Re. 24,694, 9-1-59, Cl. 308—87.
- Day, Richard A., and L. J. Bateman, to Hughes Aircraft Co. Transistor voltage comparator. 2,872,596, 2-3-59, Cl. 307—88.5.
- Day, Thomas: *See*—  
Argentieri, Peter, Daninhirsch, and Day. 2,896,849.
- Day, William C.: *See*—  
Allen, Robert E., Palopoli, Schumann, Day, and Feil. 2,891,957.
- Day, William H., Jr.: *See*—  
De Ford, Robert K., and Day. 2,891,712.
- Day, Winterton U.: *See*—  
Bletzinger, John C., and Day. 2,902,038.
- Daykin, Donald R., to International Business Machines Corp. Digital analog computer. 2,876,950, 3-10-59, Cl. 235—154.
- Dayonnet, Francois J. D., and P. F. M. Gloess. Multiplex telephone switching system. 2,894,070, 7-7-59, Cl. 179—15.
- Days, Terence E.: *See*—  
Tosswill, Christopher H., Weston, and Days. 2,878,419.
- Daystrom, Inc.: *See*—  
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Barton, Webley E. 2,918,820.  
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Eadie, Edward M., and Shallcross. 2,883,489.  
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Gach, June E. and R. L. 2,900,614.  
Gilbert, Roswell W. 2,874,951.  
Gilbert, Roswell W. 2,875,403.  
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Langford, Robert C., and Davis. 2,902,648.  
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Miller, John H. 2,902,170.  
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- Dayton Bait Co.: *See*—  
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- Dayton Formold, Inc.: *See*—  
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- Dayton, Ernest L. Hydraulic valve tappet. 2,870,755, 1-27-59, Cl. 123—90.
- Dayton, Ernest L. Hydraulic valve tappet. 2,870,756, 1-27-59, Cl. 123—90.
- Dayton, Ernest L. Hydraulic valve tappet. 2,870,757, 1-27-59, Cl. 123—90.
- Dayton Perforators, Inc.: *See*—  
Gargrave, Robert A. 2,917,960.
- Dayton Rubber Co., The: *See*—  
Bellmann, Bernard R., and Voris. 2,870,641.  
Freedlander, Abraham L. 2,869,148.  
Freedlander, Abraham L. 2,870,490.  
Freedlander, Abraham L. 2,906,312.  
Howell, Emory L. 2,912,722.  
Kidd, Malcolm H. 2,912,797.  
Meyer, Daniel A. 2,899,715.  
Moorman, Edward W., and Noyes. 2,917,568.  
Noyes, Howard, and Moorman. 2,890,489.  
Noyes, Howard, and Rothermel. 2,913,011.  
Noyes, Howard, and West. 2,895,001.  
Oppen, Lincoln I. 2,916,927.  
Richter, Raymond R. 2,898,855.  
Rockoff, Joseph. 2,870,489.  
Rockoff, Joseph. 2,894,924.  
Rothermel, Edward M. 2,898,942.  
Wagner, William T. 2,877,472.  
Wagner, William T. 2,898,975.  
Wagner, William T. 2,905,970.  
Wyman, Charles G. 2,917,087.



- Dayton Steel Foundry Co., The: *See*—  
Walther, George, Sr., and William Walther. 2,885,222.  
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- Dazey Corp.: *See*—  
Lehmann, George A., and Gundelfinger. 2,872,063.
- Dazzi, Joachim: *See*—  
Knowles, William S., and Dazzi. 2,885,377.
- Dazzi, Joachim, to Monsanto Chemical Co. Composition comprising polyvinyl chloride plasticized with a turpentine-dicarboxylic ester adduct. 2,867,598, 1-6-59, Cl. 260—29.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Process of producing turpentine-unsaturated dicarboxylic ester adducts. 2,867,648, 1-6-59, Cl. 260—468.
- Dazzi, Joachim, to Monsanto Chemical Co. Vinyl chloride polymers plasticized with polycarboxylates. 2,870,111, 1-20-59, Cl. 260—31.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Ethers of the furan series. 2,870,169, 1-20-59, Cl. 260—347.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Amides. 2,875,218, 2-24-59, Cl. 260—404.5.
- Dazzi, Joachim, to Monsanto Chemical Co. Adducts of polyethylene and fumarates. 2,883,367, 4-21-59, Cl. 260—78.4.
- Dazzi, Joachim, to Monsanto Chemical Co. Adducts of alkyl fumarates and mesityl oxide. 2,883,419, 4-21-59, Cl. 260—483.
- Dazzi, Joachim, to Monsanto Chemical Co. Adducts of alkyl fumarates and aliphatic olefinic aldehydes. 2,887,507, 5-19-59, Cl. 260—483.
- Dazzi, Joachim, to Monsanto Chemical Co. Vinyl chloride polymers plasticized with a condensate of a tetrahydrofurfuryl ester of a mono-olefinic mono-carboxylic acid and a dialkyl fumarate. 2,889,300, 6-2-59, Cl. 260—30.4.
- Dazzi, Joachim, to Monsanto Chemical Co. Polyvinyl chloride plasticized with esters of N-aroylaspartic acids. 2,889,301, 6-2-59, Cl. 260—31.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Polyvinyl chloride plasticized with adducts of hydrogenated terphenyl and dialkyl fumarates. 2,889,302, 6-2-59, Cl. 260—31.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Epoxidized esters. 2,889,338, 6-2-59, Cl. 260—348.
- Dazzi, Joachim, to Monsanto Chemical Co. Fumarate and mixed glyceride adduct. 2,891,083, 6-16-59, Cl. 260—404.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Polyvinyl chloride plasticized with acrylinoleate-fumarate adducts. 2,893,967, 7-7-59, Cl. 260—31.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Plasticized polyvinyl halide polymers. 2,897,169, 7-28-59, Cl. 260—31.4.
- Dazzi, Joachim, to Monsanto Chemical Co. Adducts of alkylated aromatic hydrocarbons and fumarate esters. 2,897,230, 7-28-59, Cl. 260—475.
- Dazzi, Joachim, to Monsanto Chemical Co. Alkadienedioate-fumarate adducts, method of making and polyvinyl chloride plasticized therewith. 2,909,500, 10-20-59, Cl. 260—31.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Sperm oil ester adducts. 2,909,536, 10-20-59, Cl. 260—404.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Polyvinyl chloride plasticized with adducts of long chain olefinic acid amides and fumaric acid esters. 2,913,431, 11-17-59, Cl. 260—31.8.
- Dazzi, Joachim, to Monsanto Chemical Co. Adducts of fumarate esters and alkenyl-substituted aromatic compounds. 2,913,482, 11-17-59, Cl. 260—475.
- Dazzi, Joachim, to Monsanto Chemical Co. Chloro-ethers. 2,913,499, 11-17-59, Cl. 260—613.
- D'Azzo, Errol P. Awning support. 2,890,853, 6-16-59, Cl. 248—273.
- D'Azzo, Errol P. Awning head rod holder. 2,916,247, 12-8-59, Cl. 248—273.
- Deackoff, Leon P., to Manton-Gaulin Mfg. Co., Inc. Hydraulic pressure exchange pump. 2,898,866, 8-11-59, Cl. 103—152.
- Deady Chemical Co.: *See*—  
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- Deady, Emmett F.: *See*—  
Blake, James C., Deady, and Haske. 2,910,077.
- Deady, William F. Resiliently supported rider-actuated apparatus. 2,882,050, 4-14-59, Cl. 272—52.5.
- Deahl, Thomas J., A. P. Paul, and S. E. Steinle, to Shell Development Co. Conversion of hydrogen iodide to iodine. 2,892,687, 6-30-59, Cl. 23—216.
- Deakin, Stanley T., to Siemens Edison Swan Ltd. Processes for bonding polymerisable substances. 2,886,480, 5-12-59, Cl. 154—100.
- Deakin, Stanley T., to Siemens Edison Swan Ltd. Socket holders for electrical components. 2,908,885, 10-13-59, Cl. 339—193.
- Deakin, Stanley T., to Siemens Edison Swan Ltd. Electronic equipment. 2,917,286, 12-15-59, Cl. 257—263.
- Deakins, Thomas A., J. A. Lasater, and S. C. Northington, Jr., to Combustion Engineering, Inc. Back weighing and pouring of molten metal into foundry molds. 2,882,567, 4-21-59, Cl. 22—82.
- Deal, Carl H., Jr.: *See*—  
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- Deal, George D. Sheet film developing rack. 2,915,954, 12-8-59, Cl. 95—100.
- De Alencar Cabral, George O. Machine for plastering walls. 2,877,641, 3-17-59, Cl. 72—130.
- Dealer Associates, Inc.: *See*—  
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- De Amicis, Sergio: *See*—  
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- Dean, Charles A. Underreamers. 2,868,510, 1-13-59, Cl. 255—76.
- Dean, Gilbert L., and H. O. Kramer. Fish lure hooks. 2,896,355, 7-28-59, Cl. 43—35.
- Dean, John G., to United States of America, General Services Administration. Nickel ore reduction process using asphalt additive. 2,913,331, 11-17-59, Cl. 75—7.
- Dean, John G., to United States of America, General Services Administration. Process for separating cobalt and nickel from ammoniacal solutions. 2,913,334, 11-17-59, Cl. 75—108.
- Dean, John G., to United States of America, General Services Administration. Process for separating cobalt and nickel from ammoniacal solutions. 2,913,335, 11-17-59, Cl. 75—108.
- Dean, John G., to United States of America, General Services Administration. Process for separating cobalt and nickel from ammoniacal solutions. 2,913,336, 11-17-59, Cl. 75—108.
- Dean, John G., to United States of America, General Services Administration. Process for separating cobalt and nickel from ammoniacal solutions. 2,913,389, 12-1-59, Cl. 75—108.
- Dean, Lawrence R.: *See*—  
Gunn, Donald A., Dean, and Senechal. 2,868,608.
- Dean, Lloyd E.: *See*—  
Hall, Dick S., Dean, Seyer, and Forkel. 2,880,078.
- Dean, Lloyd E., to Phillips Petroleum Co. Pebble flow rate controller. 2,897,008, 7-28-59, Cl. 302—53.
- Dean, Lloyd E., and F. S. Ivey, to Phillips Petroleum Co. Hydrogenation of unsaturated compounds present in hydrocarbons. 2,906,784, 9-29-59, Cl. 260—667.
- Dean, Lloyd G.: *See*—  
Williams, Edward J., Dean, and McCutchen. 2,888,389.
- Dean, Lloyd G., F. Olstowski, and K. Posey, Jr., to The Dow Chemical Co. Electrolytic production of magnesium metal. 2,880,151, 3-31-59, Cl. 204—70.
- Dean, Norman L. System for converting rotary motion into unidirectional motion. 2,886,976, 5-19-59, Cl. 74—112.
- Dean, Peter P. Overload protection for power drives. 2,901,076, 8-25-59, Cl. 192—150.
- Dean, Reginald S., to Chicago Development Corp. Method of producing crystalline metal. 2,875,038, 2-24-59, Cl. 75—84.5.
- Dean, Reginald S., to Chicago Development Corp. Method of reducing titanium oxide. 2,904,428, 9-15-59, Cl. 75—84.
- Dean, Reginald S., to Chicago Development Corp. Process for producing titanium crystals. 2,909,472, 10-20-59, Cl. 204—64.
- Dean, Reginald S., and L. D. Resnick, to Chicago Development Corp. Control methods for fused baths. 2,881,055, 4-7-59, Cl. 23—230.
- Dean, Reginald S., and W. W. Gullett, to Chicago Development Corp. Two step electrorefining of titanium alloys. 2,913,378, 11-17-59, Cl. 204—64.
- Dean, Reginald S., and W. W. Gullett, to Chicago Development Corp. Electro-refining titanium. 2,901,410, 8-25-59, Cl. 204—64.
- Dean, Reginald S., and W. W. Gullett, to Chicago Development Corp. Process for producing titanium group metals. 2,909,473, 10-20-59, Cl. 204—64.
- Dean, Robert P., to The Budd Co. Apparatus for making tab connections especially for forming honeycomb structures. 2,905,123, 9-22-59, Cl. 113—1.
- Dean, Russell T., and R. J. Scheffbauer, to Interchemical Corp. Coating vehicle. 2,867,593, 1-6-59, Cl. 260—22.
- Dean, Walter B., to The Budd Co. Chassis frame with tubular side sills for automobiles. 2,880,013, 3-31-59, Cl. 280—106.
- Dean, Walter B., to The Budd Co. Interior lining and baggage rack for vehicles such as railway cars and the like. 2,882,836, 4-21-59, Cl. 105—329.
- Dean, Walter B., to The Budd Co. Shaft drive assembly. 2,882,703, 4-21-59, Cl. 64—1.
- Dean, Walter B., to The Budd Co. Railway car truck. 2,908,230, 10-13-59, Cl. 105—182.
- Dean, Walter B., and H. M. Russell-French, to The Budd Co. Level control means for air spring supported vehicles. 2,883,179, 4-21-59, Cl. 267—3.
- Dean, Walter N., to Sperry Rand Corp. Pulse synchronizer. 2,873,444, 2-10-59, Cl. 343—103.
- Deanesly, Richard M., to Universal Oil Products Co. Production and recovery of aromatic hydrocarbons. 2,870,226, 1-20-59, Cl. 260—668.
- De Angelis, Angelo C., and H. E. Butterfield, Jr., to Dynamics Corp. of America. Grinding mill. 2,896,867, 7-28-59, Cl. 241—259.
- De Angelis, Angelo C., and H. E. Butterfield, Jr., to Dynamics Corp. of America. Ice cracking device. 2,905,397, 9-22-59, Cl. 241—188.
- De Angelis, Angelo C., and H. E. Butterfield, Jr., to Dynamics Corp. of America. Ice cracking apparatus. 2,905,398, 9-22-59, Cl. 241—257.
- De Angelis, Armand, to American Optical Co. Ophthalmic mountings. 2,868,074, 1-13-59, Cl. 88—47.
- De Angelus, Millet R.: *See*—  
Dersch, Fritz, and De Angelus. 2,897,081.



- Deans, Frederick E., W. Widdowson, and S. R. Davis, to The Bentley Engineering Co. Ltd. Knitting machine. 2,888,813, 6-2-59, Cl. 66—42.
- Deans, Frederick E., and C. H. Wainwright, to The Bentley Engineering Co., Ltd. Circular knitting machine of the superimposed needle cylinder type. 2,910,847, 11-3-59, Cl. 66—14.
- Dear, Jack B.: *See*—  
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- Dearborn Chemical Co.: *See*—  
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Denman, Wayne L., and Hwa. 2,889,193.  
Gunderson, Lewis O., and Kerst. 2,902,447.  
Hui, In W., and Kruty. 2,897,841.  
Hwa, Chih M. 2,903,432.
- Dearborn, Elizabeth C.: *See*—  
Shepherd, Ridgley G., Jr., and Dearborn. 2,871,221.
- Dearborn Fabricating & Engineering Co.: *See*—  
Daigle, Leo T. 2,896,772.
- Dearborn, Frank K. Optical filters. 2,881,663, 4-14-59, Cl. 88—106.
- Dearborn, Frederick E. Sulfurized sterols. 2,910,468, 10-27-59, Cl. 260—239.5.
- Dearborn Gage Co.: *See*—  
Tomkow, Edward. 2,876,553.
- Deardorff, Eldon R.: *See*—  
Meyer, Alfred W., Roorck, and Deardorff. 2,902,940.
- De Arespacochaga, Fernando. Headlights. 2,905,850, 9-22-59, Cl. 313—113.
- Dearholt, John W., to Will Ross, Inc. Wrapper for surgical gloves. 2,908,308, 10-13-59, Cl. 150—52.
- Dearing, Clarence W., H. H. Gruczek, and H. A. Stone, to American Flange & Mfg. Co. Inc. Threaded closure flange with locking projections. 2,889,156, 6-2-59, Cl. 285—55.
- De Armond Harry, and L. N. Meeker, to Rowe Industries. Electrical pick ups for musical instruments. 2,909,092, 10-20-59, Cl. 84—115.
- Dearsley, George, to American Machine & Foundry Co. Cigarette turn around apparatus. 2,919,012, 12-29-59, Cl. 198—33.
- Dearstyne, John T., to General Aniline & Film Corp. Self setting shutters with flash synchronization. 2,909,976, 10-27-59, Cl. 95—11.5.
- Dearwater, Jerold R.: *See*—  
Capuder, Fred C., and Dearwater. 2,873,174.
- Deaton, Charles U. Light-ray baffle construction. 2,870,883, 1-27-59, Cl. 189—82.
- Deaton, Charles U., and C. D. Graber, to Diebold, Inc. Vault door construction. 2,869,485, 1-20-59, Cl. 109—61.
- Deatrick, Arthur H.: *See*—  
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- Deavenport, Joe E.: *See*—  
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- Deavers, Clyde J.: *See*—  
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- De Back, William: *See*—  
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- De Back, William, and S. Puccinelli, to Food Machinery and Chemical Corp. Fruit preparation machine. 2,882,945, 4-21-59, Cl. 146—40.
- De Barbieris, Irvin H.: *See*—  
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- De Bardeleben, Walker P.: *See*—  
Morgan, George C., and De Bardeleben. 2,888,966.
- Debarre, Francois: *See*—  
Gailliot, Paul, and Debarre. 2,898,336.
- De Barrie, William E. Adjustable fitting. 2,895,752, 7-21-59, Cl. 287—20.
- Debat, Jacques, and A. Polgar; said Debat assor. to Societe Anonyme des Laboratoires du Dr. Debat. Mixing containers. 2,900,100, 8-18-59, Cl. 215—6.
- De Baun, John E., and E. E. Friedrich; said Friedrich assor. to said De Baun. Combined anti-skid and parking device. 2,893,500, 7-7-59, Cl. 180—1.
- Debay, Andre, and O. Sackur, to Societe Francaise de Recherches Biochimiques H. Besson & Cie. (Societe en Commandite par Actions). Phosphatidyl choline compounds. 2,899,449, 8-11-59, Cl. 260—403.
- De Bell, John M., Jr., to Allen B. Du Mont Laboratories, Inc. Multiplexing device. 2,909,774, 10-20-59, Cl. 343—176.
- De Benedictis, Aldo, and K. E. Furman, to Shell Development Co. Preparation of carboxylic acids. 2,913,489, 11-17-59, Cl. 260—514.
- De Benedictis, William, to I-T-E Circuit Breaker Co. Operating mechanism for variable depth enclosure. 2,890,302, 6-9-59, Cl. 200—50.
- De Benneville, Peter L.: *See*—  
Hurwitz, Marvin J., and de Benneville. 2,876,234.
- De Benneville, Peter L., and M. J. Hurwitz, to Rohm & Haas Co. Organic silicon compounds and methods for making them. 2,876,209, 3-3-59, Cl. 260—45.4.
- De Benneville, Peter L., and L. S. Luskin, to Rohm & Haas Co. Oxazine and oxazoline polymers. 2,897,182, 7-28-59, Cl. 260—85.5.
- De Benneville, Peter L., and L. S. Luskin, to Rohm & Haas Co. N-(vinylalkoxy) acylamidoguanamines, method of making same, and copolymers thereof. 2,899,406, 8-11-59, Cl. 260—47.
- De Benneville, Peter L., and C. S. Hollander, to Rohm & Haas Co. Bis-iminodiacetamidoximes. 2,902,514, 9-1-59, Cl. 260—564.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. Surface-active formal. 2,905,680, 9-22-59, Cl. 260—410.6.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. Surface-active formal. 2,905,681, 9-22-59, Cl. 260—410.6.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. Surface-active formal. 2,905,682, 9-22-59, Cl. 260—410.6.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. Surface-active acetals and formal. 2,905,718, 9-22-59, Cl. 260—609.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. Surface-active acetals and formal. 2,905,719, 9-22-59, Cl. 260—609.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. Surface-active acetals and formal. 2,905,720, 9-22-59, Cl. 260—609.
- De Benneville, Peter L., and H. J. Sims, to Rohm & Haas Co. Surface-active acetals and formal and sulfur analogs thereof. 2,905,721, 9-22-59, Cl. 260—609.
- De Benneville, Peter L., and M. J. Hurwitz, to Rohm & Haas Co. New organic silicon compounds and methods of making them. 2,906,756, 9-29-59, Cl. 260—309.7.
- De Berry, Charles H., deceased (M. De Berry, administratrix), and A. J. Guidi, to De Berry, Guidi, and Andreadis d.b.a. Skyline Products. Apparatus for brewing coffee. 2,899,887, 8-18-59, Cl. 99—310.
- De Berry, Guidi, and Andreadis: *See*—  
De Berry, Charles H., and Guidi. 2,899,887.
- De Berry, Marcella: *See*—  
De Berry, Charles H., and Guidi. 2,899,887.
- De Blasio, Conrad G. Direct current power source. Re. 2,459,8, 2-10-59, Cl. 323—22.
- Debo, Arno, to Joh. A. Benckiser G.m.b.H. Chemische Fabrik. Production of phosphoric and thiophosphoric dialkyl ester-hydrazides. 2,906,770, 9-29-59, Cl. 260—461.
- De Boer, Clarence, and J. W. Hinman, to The Upjohn Co. Amicetin A and its salts. 2,909,463, 10-20-59, Cl. 167—65.
- De Boer, Clarence, and J. W. Hinman, to The Upjohn Co. Amicetin C and its salts. 2,909,464, 10-20-59, Cl. 167—65.
- De Boer, Clarence, and J. W. Hinman, to The Upjohn Co. Amicetin and its production. 2,909,517, 10-20-59, Cl. 260—211.5.
- De Boer, Jan H., and A. L. de Gelder, to Stamicarbon N.V. Removing contaminations from water using paraffin oil and ferric chloride. 2,919,246, 12-29-59, Cl. 210—21.
- De Boer, Willis, and J. F. Conte, to Optical Gaging Products Inc. 3-dimension contour machine. 2,913,963, 11-24-59, Cl. 90—13.
- De Bolt, Richard R., and B. E. Powell, to California Research Corp. pH electrode holder. 2,884,365, 4-28-59, Cl. 204—195.
- De Boo, Jerome L., to Teletype Corp. Telegraph transmitter. 2,879,333, 3-24-59, Cl. 178—33.
- De Bozay, Frank. Self loading rapid painter. 2,916,755, 12-15-59, Cl. 15—132.5.
- Debrey, Michael. General purpose electric relay. 2,890,308, 6-9-59, Cl. 200—103.
- Debrie, Andre V. L. C. Apparatus for drying cinematographic films and the like. 2,882,611, 4-21-59, Cl. 34—71.
- Debrie, Andre V. L. C. Friction drive for photographic or cinematographic films and the like. 2,913,885, 11-24-59, Cl. 64—30.
- De Brigard, Juan P., and Q. B. Angarita. Apparatus for making masonry structures. 2,902,745, 9-8-59, Cl. 25—131.5.
- De Bruin, Hugo J., to Ideal Industries, Inc. Chuck for drill or the like. 2,894,759, 7-14-59, Cl. 279—97.
- De Bruyne, Norman A., G. S. Newell, and K. R. C. Perry, to Ciba Ltd. Self-sustaining adhesive sheet and process for producing the same as well as for uniting surfaces with it. 2,872,365, 2-3-59, Cl. 154—79.
- De Bruyne, Willem A. Cigarette rolling machine. 2,870,770, 1-27-59, Cl. 131—37.
- De Buda, Rudolf G., to Canadian General Electric Co., Ltd. Autotransformer tap changing connection. 2,883,612, 4-21-59, Cl. 323—57.
- De Buigne, Frank, to La Salle Tool Co. Shuttle mechanism. 2,909,265, 10-20-59, Cl. 198—19.
- De Bulgne, Frank, to La Salle Tool, Inc. Fluid actuated clamping device. 2,917,896, 12-22-59, Cl. 60—52.
- Debus, Allen G., to Abbott Laboratories. Production of procaine dihydrogen phosphate. 2,874,180, 2-17-59, Cl. 260—472.
- Debus, Erwin: *See*—  
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- Debusk, Ralph E.: *See*—  
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- Decam Corp.: *See*—  
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- Decamp, Andre E. Artificial flowers. 2,881,545, 4-14-59, Cl. 41—13.
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- Decarie, Alexander S. Distress signal for aeroplanes. 2,867,799, 1-6-59, Cl. 340—366.
- De Caro, Charles J., to Olin Mathieson Chemical Corp. Fastener arresting device for a power actuated tool. 2,904,787, 9-22-59, Cl. 1—44.5.
- De Castro, Arthur, C. H. Lighthipe, and T. F. Groll, Jr., to Nopco Chemical Co. Liquid defoaming composition. 2,868,734, 1-13-59, Cl. 252—358.



- De Cat, Arthur H., and R. K. Van Poucke, to Gevaert Photo-Producten N.V. Production of colored photographic images with oxodiazole couplers. 2,897,079, 7-28-59, Cl. 96-55.
- Decat, Jules. Mechanical shoveller. 2,890,783, 6-16-59, Cl. 198-7.
- De Caumont, Albert S., to Societe Anonyme Hyperion. Electrode for discharge tubes. 2,917,650, 12-15-59, Cl. 313-205.
- Decca Record Co. Ltd. The: See—  
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- De Cenzo, Herbert A., and B. B. Willis, to On Mark Couplings, Inc. Split coupling for joining beaded tubes. 2,913,262, 11-17-59, Cl. 285-233.
- Decepoli, Carmine. Shuffleboard weight. 2,878,023, 3-17-59, Cl. 273-128.
- De Changy, Francois. Variator for calculating machines. 2,914,958, 12-1-59, Cl. 74-344.
- De Changy, Gilbert. Recording decelerometer. 2,903,320, 9-8-59, Cl. 346-7.
- Dechary, Joseph M.: See—  
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- De Christoforo, George J., to E. I. du Pont de Nemours and Co. Coating composition comprising at least two vinyl polymers and lecithin. 2,877,922, 3-17-59, Cl. 220-64.
- Deckard, Leonard F.: See—  
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- Deckel, Hans: See—  
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Gebele, Kurt. 2,900,885.  
Gebele, Kurt. 2,900,886.  
Gebele, Kurt. 2,897,737.  
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- Deckel, Hans and F. W.: See—  
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- Decker, Edmond L., to Southern Car and Mfg. Co. Valve actuating mechanism. 2,868,496, 1-13-59, Cl. 251-147.
- Decker, Edmond L., to R. W. Keiser. Means for transferring cargo shipping containers between container supporting means. 2,892,554, 6-30-59, Cl. 214-38.
- Decker, Elmer L.: See—  
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- Decker, Ferdinand A., Jr.: See—  
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- Decker, Frederick J.: See—  
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- Decker, Frederick J., and M. H. Gregg, to The Caldwell Mfg. Co. Removable sash balance. 2,871,506, 2-3-59, Cl. 16-202.
- Decker, Frederick J., and M. H. Gregg, to The Caldwell Mfg. Co. Sash balance locking device. 2,901,768, 9-1-59, Cl. 16-202.
- Decker, Glenn E., deceased; H. C. Decker, administratrix. Garbage and refuse incinerator. 2,877,723, 3-17-59, Cl. 110-18.
- Decker, Hazel C.: See—  
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- Decker, Judson: See—  
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- Decker, Lambert. Toy earth satellite. 2,870,550, 1-27-59, Cl. 35-46.
- Decker, Lambert. Thermal gravity motor. 2,878,641, 3-24-59, Cl. 60-10.
- Decker, Lewellin C. Gun support. 2,873,902, 2-17-59, Cl. 224-1.
- Decker, Richard O., G. F. Pittman, Jr., R. I. Van Nice, J. P. Conner, W. G. Hall, and W. G. Evans, to Westinghouse Electric Corp. Control apparatus. 2,888,549, 5-26-59, Cl. 219-80.
- Decker, Richard O., and K. Chen, to Westinghouse Electric Corp. Multiplier circuit. 2,891,726, 6-23-59, Cl. 235-184.
- Decker, Robert W.: See—  
Sanner, Weldon E., and Decker. 2,911,735.
- De Claire, Alton G., Jr.: See—  
Holley, George M., Jr., and De Claire. 2,886,023.
- De Claire, Alton G., Jr., and R. E. Leibold, to Holley Carburetor Co. Spark advance control mechanism for spark ignition internal combustion engines. 2,871,840, 2-3-59, Cl. 123-117.
- De Clerck, Charles E., to Hazeltine Research, Inc. Typewriter carriage position indicator. 2,905,307, 9-22-59, Cl. 197-187.
- De Cola, Rinaldo E., to Admiral Corp. Mounting means. 2,869,041, 1-13-59, Cl. 317-101.
- De Cola, Rinaldo E., R. C. Carlson, and A. F. Adel, to Admiral Corp. Sonic wave generator. 2,868,156, 1-13-59, Cl. 116-137.
- De Cola, Rinaldo E., R. C. Carlson, and E. H. Schrot. Turret tuner with peripherally extending contact carrying straps forming part of tuned circuit. 2,898,563, 8-4-59, Cl. 336-142.
- Decorated Metal Mfg. Co., Inc.: See—  
Atwood, Rawson, and L'Allemand. 2,881,987.  
Atwood, Rawson, and L'Allemand. 2,883,124.
- De Coriolis, Ernest G., to Surface Combustion Corp. Rotating drum heat-treating furnace with internal fan. 2,898,099, 8-4-59, Cl. 263-34.
- De Coriolis, Ernest G., R. Hanna, and A. W. Peters, to Surface Combustion Corp. Dew point indicator. 2,893,237, 7-7-59, Cl. 73-17.
- Decourt, Ralpho R. Automatic process and apparatus for indicating the necessity of readjusting the level of the electrolyte in accumulators of automotive vehicles. 2,869,114, 1-13-59, Cl. 340-249.
- De Crescenzo, Anthony. Portable vibrating and water therapy device. 2,905,171, 9-22-59, Cl. 128-53.
- Decuir, Perry J. Wire fishing tool. 2,886,369, 5-12-59, Cl. 294-86.
- Dede, Joseph B., Jr., to Monsanto Chemical Co. Modified urea adhesives. 2,890,148, 6-9-59, Cl. 154-133.
- Dedekind, Lowell W. Rotary cutter. 2,893,111, 7-7-59, Cl. 29-105.
- Dedman, Noel, to Bernardin Bottle Cap Co., Inc. Caps for fuel tanks. 2,918,192, 12-22-59, Cl. 220-44.
- Dedmon, James F. Wirebound snap-on crate. 2,901,141, 8-25-59, Cl. 217-48.
- De Dominicis, Giovanni. Smoke suction installation for electric metal melting furnaces. 2,908,737, 10-13-59, Cl. 13-10.
- De Dona, Mario J., to General Motors Corp. Hinge and hold-open. 2,873,470, 2-17-59, Cl. 16-146.
- Dee, John C. Swimming pool filter. 2,878,938, 3-24-59, Cl. 210-193.
- Deebel, George F., and P. C. Hamm, to Monsanto Chemical Co. Method of destroying undesired grass. 2,879,150, 3-24-59, Cl. 71-25.
- Deecke, Lore A. K.: See—  
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- Deedman, Alfred R.: See—  
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- Deeds, Karl S. Applicator for drill pipe protector rings. 2,878,558, 3-24-59, Cl. 29-236.
- Deegan, Claude C.: See—  
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- Deems, Frank E., and A. L. Smith, to Continental Gin Co. Cotton drier and feed control. 2,883,709, 4-28-59, Cl. 19-69.
- Deenik, Johan F., and J. A. Elisses, to N.V. Nederlandse Spanbeton Maatschappij. Device for connecting a block and two rods or tubes arranged at an angle to each other. 2,904,361, 9-15-59, Cl. 287-54.
- Deer, Leon L., to The Diversey Corp. Cleaning aluminum. Re. 24,596, 1-27-59, Cl. 134-3.
- Deer Lodge Mfg. Co.: See—  
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- Deere & Co.: See—  
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 Harriott, Billie L. 2,900,193.  
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 Jones, Frank D. 2,882,669.  
 Kroll, Everett R. 2,872,200.  
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- Deere, John, Plover Co. (Ltd.): See—  
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- Deere Mfg. Co.: See—  
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 Klein, Norman E. 2,869,315.  
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 Murray, Edward A., and McCullough. 2,907,094.  
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 Smith, Philip N. 2,911,835.  
 Williams, James C. 2,869,802.  
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- Deering, Roland F., and H. F. Wilkinson, to Union Oil Co. of California. Differential ash scraper drive for a retort. 2,895,887, 7-21-59, Cl. 202-222.
- Deering, Roland F., J. H. Duir, and R. P. Vaell, to Union Oil Co. of California. Solids-fluid contacting process and apparatus. 2,913,399, 11-17-59, Cl. 208-136.
- Defabaugh, Charles E.: See—  
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- De Falco, Anthony N.: See—  
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- De Falco, Anthony,  $\frac{1}{2}$  to M. M. Merriam, and  $\frac{1}{2}$  to L. J. Garofalo. Foldable play pen. 2,895,717, 7-21-59, Cl. 256-25.
- De Falco, Joseph J.: See—  
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- De Faymoreau, Etienne, to International Telephone and Telegraph Corp. Potentiometer. 2,912,662, 11-10-59, Cl. 338-148.
- De Faymoreau, Etienne, F. Singer, Jr., and H. R. Wolter, to International Telephone and Telegraph Corp. Test set. 2,912,688, 11-10-59, Cl. 343-106.
- De Faymoreau, Etienne C. L., to International Telephone and Telegraph Corp. Radio navigation system. 2,912,689, 11-10-59, Cl. 343-106.
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- De Faymoreau, Etienne C. L., and M. Mandel, to International Telephone and Telegraph Corp. Triggered pulse generator. 2,906,874, 9-29-59, Cl. 250-27.
- De Faymoreau, Etienne C. L., and M. Mandel, to International Telephone and Telegraph Corp. Searching and tracking receiver. 2,916,738, 12-8-59, Cl. 343-106.
- De Fazio, Charles A.: See—  
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- Defensor A. G.: See—  
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- Deffenbaugh, James F.: See—  
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- Deffenbaugh, James F., and I. R. Taylor, to The Federal Machine & Welder Co. Resilient lost-motion device for welding apparatus and the like. 2,912,564, 11-10-59, Cl. 219-59.
- De Fillips, Paul: See—  
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- De Fino, Armond A.: See—  
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- De Fino, Frank J., and A. A. Trouser waistband and pleat presser. 2,908,427, 10-13-59, Cl. 223-73.
- De Fiore, Joseph: See—  
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- De Flon, James G., to The Fluor Corp., Ltd. Scavengable water delivery ducts for cooling towers. 2,886,126, 5-12-59, Cl. 183-26.
- De Flon, James G., to The Fluor Corp., Ltd. Cooling tower wall assembly. 2,889,584, 6-9-59, Cl. 20-5.
- Deford, Donald E.: See—  
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- De Ford, Perl E., 25% to R. Goold, and 25% to E. Tolman. Hydraulic and planetary gear transmission. 2,869,398, 1-20-59, Cl. 74-688.
- De Ford, Robert K., and W. H. Day, Jr.; said Day assor. to said De Ford. Cigarette package with self-locking closure and built-in match supply. 2,891,712, 6-23-59, Cl. 229-44.
- De Fore, Thomas M. Pedal operated stool or similar device. 2,884,989, 5-5-59, Cl. 155-93.
- De France, Henri G. Color television systems. 2,876,278, 3-3-59, Cl. 178-5.2.
- De Fromont, Michel: See—  
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- Deg Corp., The: See—  
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- Dega, Robert L., to General Motors Corp. Centrifuge for liquids. 2,878,993, 3-24-59, Cl. 233-27.
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- De Ganahl, Carl. Methyl cellulose coated polyester tape. 2,897,099, 7-28-59, Cl. 117-138.8.
- De Gee, Bob, to American Enka Corp. Apparatus for the production of high tenacity viscose rayon yarn. 2,898,629, 8-11-59, Cl. 18-8.
- De Gelder, Arthur L.: See—  
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- De Gelleke, Gerrit, to Cameron Machine Co. Carrier for rotary knife for web-slitting machine. 2,895,553, 7-21-59, Cl. 164-70.
- De Gelleke, Gerrit, to Cameron Machine Co. Fluid pressure actuated operator for a disk brake. 2,911,071, 11-3-59, Cl. 188-72.
- Degen, Alexander A. C. Recording machines. 2,906,583, 9-29-59, Cl. 346-94.
- Degenhardt, Gilbert. Feed and process of and apparatus for producing same. 2,905,557, 9-22-59, Cl. 99-2.
- Degenhardt, Wilmar W., to J. I. Case Co. Adjustable crop pickup drum stripper. 2,880,564, 4-7-59, Cl. 56-364.
- De Genova, Andrew. Tool for removing spring nuts. 2,915,927, 12-8-59, Cl. 81-3.
- Degering, Edward F.: See—  
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- Degginger, Edward R., and E. E. Gilbert, to Allied Chemical Corp. Method for combating fungus and fungicidal composition therefor. 2,899,355, 8-11-59, Cl. 167-30.
- De Giers, Clarence A., to The Liquidometer Corp. Three-dimensional lattice-type capacitor for tank gauging. 2,911,576, 11-3-59, Cl. 317-246.



- De Giers, Clarence A., and E. V. Soreny, to Liquidometer Corp. Indicators for telemetering systems. 2,875,431, 2-24-59, Cl. 340-316.
- Degen, William J., to The M. W. Kellogg Co. Means for introducing lift gas to vertical catalyst riser within a reaction chamber. 2,919,240, 12-29-59, Cl. 208-47.
- Degen, William J., to The M. W. Kellogg Co. Method and means for introducing a reactant vapor to a fluidized bed of contact material. 2,919,243, 12-29-59, Cl. 208-150.
- De Goereynd, Peter M. J. K.: *See*—  
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- De Goereynd, Peter M. J. K., and L. J. Saxty, to Peterlite Products Ltd. Mouldable materials. 2,910,456, 10-27-59, Cl. 260-77.5.
- De Gozzaldi, Alfred J.: *See*—  
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- De Graaf, Eduard M.: *See*—  
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- De Graffenried, Albert L., to R. J., R. Q., S. R., and M. V. Stockholm, jointly. Tire alarm system. 2,894,246, 7-7-59, Cl. 340-52.
- De Gray, William G., 50% to H. Verdes. Hand rail mounting bracket. 2,903,223, 9-8-59, Cl. 248-221.
- De Grazia, Joseph, to United States of America, Army. Garment hood. 2,870,452, 1-27-59, Cl. 2-203.
- De Groote, Melvin, and F. E. Mange, to Petrolite Corp. Process of oxidizing mixture of microcrystalline wax, hydroxylated polyethylene and polyethylene, and products produced thereby. 2,879,237, 3-24-59, Cl. 260-28.5.
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- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for breaking emulsions employing lactone-derived compounds of certain oxyalkylated resins. 2,888,403, 5-26-59, Cl. 252-342.
- De Groote, Melvin, and O. H. Pettingill, to Petrolite Corp. Process for breaking petroleum emulsions employing certain oxyalkylated N-methylglucamines. 2,888,404, 5-26-59, Cl. 252-344.
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- De Groote, Melvin, K.-T. Shen, and J.-P. Cheng, to Petrolite Corp. Certain polyeoxide modified phenol-aldehyde resins and oxyalkylation derivatives of same. 2,888,426, 5-26-59, Cl. 260-43.
- De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Certain oxyalkylated polyeoxide-treated amine-modified thermoplastic phenol aldehyde resins, and method of making same. 2,888,427, 5-26-59, Cl. 260-45.
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- De Haan, Fred B., to The Okonite Co. Continuous vulcanizer. 2,908,035, 10-13-59, Cl. 18-6.
- De Hardit, William M. Land clearing machine. 2,883,775, 4-28-59, Cl. 37-144.
- De Hart, Arnold O., to General Motors Corp. Hydrostatic bearing. 2,879,113, 3-24-59, Cl. 308-122.
- De Haven, Clark G., to Phillips Petroleum Co. Feeding device for particulate solids. 2,885,246, 5-5-59, Cl. 302-49.
- De Haven, Robert M., to Hughes Aircraft Co. Aircraft control console. 2,885,163, 5-5-59, Cl. 244-83.
- De Havilland Aircraft of Canada Ltd., The: *See*—  
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- De Havilland Engine Co. Ltd., The: *See*—  
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- De Havilland Propellers Ltd.: *See*—  
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- De Hay, William H.: *See*—  
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- De Hertelendy, Andor. Gravity propelled vehicle. 2,909,145, 10-20-59, Cl. 115-1.
- Dehm, Henry C., and L. G. Maury, to Hercules Powder Co. Production of hexahydroterephthalic acid. 2,888,484, 5-26-59, Cl. 260-514.
- Dehn, Roy F., to The Cleveland Crane & Engineering Co. Adjustable clutch for metal forming machines. 2,874,816, 2-24-59, Cl. 192-111.
- Dehn, William F., and C. R. Dickinson, to Allen-Bradley Co. Variable resistance control. 2,868,931, 1-13-59, Cl. 201-55.
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Gündel, Wolfgang. 2,907,786.  
Gündel, Wolfgang, and Strauss. 2,876,177.  
Gündel, Wolfgang, Strauss, and Haas. 2,892,760.  
Haas, Hermann, Kirstahler, Gündel, and Strauss. 2,893,932.  
Höpfner, Konrad, and Götte. 2,895,933.  
Höpfner, Konrad, and Götte. 2,902,449.  
Höpfner, Konrad, and Götte. 2,912,352.  
Kirstahler, Alfred, Willmund, and Strauss. 2,905,602.  
Strauss, Wennemar. 2,903,403.  
Strauss, Wennemar, and Wedell. 2,910,413.
- Deibel, Raymond, to Trico Products Corp. Windshield wiper drive mechanism. 2,892,206, 6-30-59, Cl. 15-253.
- Deibel, Raymond A., and M. Bitzer, to Trico Products Corp. Windshield cleaner. 2,869,167, 1-20-59, Cl. 15-253.
- Deibel, Raymond A., and W. C. Riester, to Trico Products Corp. Windshield cleaning system. 2,877,486, 3-17-59, Cl. 15-250.4.
- Deibel, Robert H.: *See*—  
Niven, Charles F., Jr., Deibel, and Wilson. 2,907,661.
- De-Icers, Inc.: *See*—  
Bauer, Dale A. 2,900,642.
- Deichert, Robert W., to Allen B. Du Mont Laboratories, Inc. Gamma correction amplifier. 2,884,484, 4-28-59, Cl. 178-5.4.
- Deighton, William W., to Burroughs Corp. Program scanning apparatus. 2,906,838, 9-29-59, Cl. 200-105.
- Deighton, William W., G. M. Du Gan, A. G. Markgraf, and D. E. Stromback, to Burroughs Corp. Data storage, read-out and transfer apparatus. 2,914,759, 11-24-59, Cl. 340-365.
- Deilly, Frederic H.: *See*—  
Ortloff, John E., and Deilly. 2,885,184.
- Deilly, Fredric H., to Jersey Production Research Co. Coring subterranean formations. 2,915,285, 12-1-59, Cl. 255-1.4.
- Deininger, Clifford F.: *See*—  
Robuck, Edmund R., and Deininger. 2,914,733.
- Deinlein, Victor E., and T. B. Tisdale, to Acme Visible Records, Inc. Adjustable partitions for receptacle. 2,914,211, 11-24-59, Cl. 220-22.
- Deis, Louis P., to American Viscose Corp. Pressure measuring instrument. 2,881,617, 4-14-59, Cl. 73-395.
- Deise, Louis F., and R. E. Lee, to United States of America, Navy. Frequency shift transmission system. 2,883,524, 4-21-59, Cl. 250-17.
- Deist, Herbert H., to The Firestone Tire & Rubber Co. Control device for vehicle pneumatic suspension systems. 2,905,430, 9-22-59, Cl. 251-54.
- Deist, James C., to Scovill Mfg. Co. Automatic coffee percolator. 2,904,667, 9-15-59, Cl. 219-44.
- Deitch, Jacob, to Charwick Cabinet Corp. Adjustable shelf bracket. 2,890,012, 6-9-59, Cl. 248-242.
- Deitrick, Stapleton C., Jr., to Combustion Engineering, Inc. Vapor generator having a vapor heater with a novel outlet header. 2,900,174, 8-18-59, Cl. 257-241.
- Deitrickson, Roy H.: *See*—  
Guier, William, and Deitrickson. 2,905,200.
- Deitrickson, Roy H., to The National Supply Co. Control valve for fluid operated engines for down well pumps. 2,870,749, 1-27-59, Cl. 121-150.
- Deitz, Jennings D. Cover for telephone exchange apparatus. 2,869,606, 1-20-59, Cl. 150-52.
- De Jager, Frank, to North American Philips Co., Inc. Single-sideband system. 2,874,222, 2-17-59, Cl. 179-15.5.
- De Jager, Frank, and J. A. Greefkes, to North American Philips Co., Inc. Single-sideband system for the transmission of speech. 2,907,831, 10-6-59, Cl. 179-15.5.
- De Jarnett, Frank D., 1/4 to P. A. Medearis. Scratcher construction for abrading well bore holes. 2,867,280, 1-6-59, Cl. 166-173.
- De Jarnett, Frank D., 1/4 to P. A. Medearis. Pine-handling apparatus for oil wells. 2,885,096, 5-5-59, Cl. 214-2.5.
- De Jarnette, Van T., and W. L. Weems. Liquid injection device for roof systems. 2,874,658, 2-24-59, Cl. 111-7.3.
- De Jilovice, Vladimir J. H. Process for obtaining polysaccharide material from plants of the genus "cecropia". 2,871,235, 1-27-59, Cl. 260-209.
- Dejo, Inc.: *See*—  
Evins, David E. 2,907,058.
- De Jong, Geert J., to Stamicarbon N. V. Selective ion-permeable membranes. 2,867,575, 1-6-59, Cl. 204-296.
- De Jong, Geert J., to Stamicarbon N.V. Production of phenols. 2,883,430, 4-21-59, Cl. 260-621.
- De Jong, Tobias: *See*—  
Robeer, Andries G., and de Jong. 2,887,666.
- De Jonge, Jelis: *See*—  
Dijkstra, Rinse, de Jonge, and Klasens. 2,873,205.



- De Jonge, Jelis, H. Jonker, K. J. Kuening, and C. J. Dippel, to North American Philips Co., Inc. Method of forming photographic images. 2,868,643, 1-13-59, Cl. 96-48.
- De Jongh, David K.: *See*—  
Janssen, Paul A. J., and de Jongh. 2,877,156.  
Janssen, Paul A. J., and de Jongh. 2,881,165.  
Janssen, Paul A. J., and de Jongh. 2,884,436.  
Janssen, Paul A. J., and de Jongh. 2,894,033.
- De Jur-Amsco Corp.: *See*—  
Drewitz, Edwin W., and Stein. 2,898,567.  
Lunzer, Frederic A. 2,893,287.
- De Keizer, Adrianus, to Shell Development Co. Production of diisopropyl benzenes. 2,881,227, 4-7-59, Cl. 260-671.
- De Keizer, Adrianus, C. P. van Dijk, and A. A. Gips, to Shell Development Co. Production of meta-diisopropyl benzene. 2,870,229, 1-20-59, Cl. 260-671.
- De Keizer, Adrianus, and J. N. Wilson, to Shell Development Co. Alkylation process with treated silica-alumina catalyst. 2,897,246, 7-28-59, Cl. 260-671.
- De Keyser, Lodewijk F., and L. A. Van Dessel, to Gevaert Photo-Production N. V. Gelatin adhesive layers. 2,867,542, 1-6-59, Cl. 117-34.
- Dekker, Jan M. D., and H. Feiner, to North American Philips Co., Inc. Carrier-wave telephony system. 2,881,262, 4-7-59, Cl. 179-78.
- De Klerk, Antonie C.: *See*—  
Starreveld, Jaap, and de Klerk. 2,874,275.
- Deknatel, J. A., & Son, Inc.: *See*—  
Kurtz, Leonard D. 2,869,550.
- De Koning, Arie A. and K. K. K. Shock absorber. 2,888,107, 5-26-59, Cl. 188-88.
- De Koning, Kornelis K. K.: *See*—  
De Koning, Arie A. and K. K. K. 2,888,107.
- De La Bretoniere, André B., to American Enka Corp. Electric motor drive system. 2,885,615, 5-5-59, Cl. 318-44.
- De Lacheisserie, Henri: *See*—  
Lamberton, Jean, and de Lacheisserie. 2,873,237.
- De Lachner Helicopters, Inc.: *See*—  
De Wiess, Ferdinand A., and Abbott. 2,881,282.
- De Lacy, Joseph H. Camera shutter. 2,870,697, 1-27-59, Cl. 95-61.
- De la Flor, Felix C. Demountable rim for vehicle tires. 2,899,239, 8-11-59, Cl. 301-31.
- Delafontaine, Charles, to The Bank of America National Trust and Savings Association. Strip cleaning device. 2,879,779, 3-31-59, Cl. 134-64.
- Delafontaine, Charles, to Bank of America Trust and Savings Association. Strip sharpening machine. 2,911,762, 11-10-59, Cl. 51-87.
- De La Hunt, Stanley G.: *See*—  
Bauer, Armand C. 2,916,008.
- De Lallo, Louis D., to Sperry Rand Corp. Magnetic amplifier. 2,904,744, 9-15-59, Cl. 323-89.
- De La Mater, George B., to Mallinckrodt Chemical Works. X-ray contrast composition comprising substantially amylose-free amylopectin in aqueous solution of contrast agent. 2,870,063, 1-20-59, Cl. 167-95.
- De La Mater, George B., to Mallinckrodt Chemical Works. Iodophenylamidoalkanesulfonic acid compounds. 2,913,451, 11-17-59, Cl. 260-211.
- De Lamater, Georgia K. Therapeutic boot. 2,888,016, 5-26-59, Cl. 128-260.
- Delamater, Roland E., to The Foote-Burt Co. Cutting tool support. 2,918,720, 12-29-59, Cl. 29-26.
- Deland, Paul. Dispensing machine for heavy articles. 2,916,186, 12-8-59, Cl. 221-106.
- Delander, John B. Ironing board cover. 2,871,590, 2-3-59, Cl. 38-140.
- Delaney, Alice M. Feminine hygienic device. 2,917,049, 12-15-59, Cl. 128-285.
- Delaney, Cyril T.: *See*—  
Broad, Charles S. 2,871,338.
- Delaney, Edward J. Combination tow, lift and light bar. 2,907,295, 10-6-59, Cl. 114-235.
- Delaney, John R. Writing board. 2,881,009, 4-7-59, Cl. 281-44.
- De Lang, Hendrik, to North American Philips Co., Inc. Dichroic cross-mirror optical system. 2,889,734, 6-9-59, Cl. 88-1.
- De Lang, Hendrik, to North American Philips Co., Inc. Colour-selective optical system corrected with regard to astigmatism. 2,896,499, 7-28-59, Cl. 88-1.
- De Lange, Owen E., to Bell Telephone Laboratories, Inc. Pulse modulation regenerative repeaters. 2,868,965, 1-13-59, Cl. 250-15.
- De Lange, Owen E., to Bell Telephone Laboratories, Inc. Microwave pulse circuits. 2,912,581, 11-10-59, Cl. 250-27.
- De Lange, Owen E., to Bell Telephone Laboratories, Inc. Microwave switching circuits. 2,914,671, 11-24-59, Cl. 250-27.
- De Langen, Lambertus H., to American Enka Corp. Deaeration of viscous liquids. 2,887,267, 5-19-59, Cl. 233-27.
- De Langen, Lambertus H., to American Enka Corp. Anti-friction bearing arrangement for spindles and the like. 2,906,087, 9-29-59, Cl. 57-77.45.
- Delano, Clyde N. Operating mechanism for amusement devices. 2,915,311, 12-1-59, Cl. 272-53.1.
- De Lano, Ralph B., Jr.: *See*—  
Koelsch, Albert C., Jr., and de Lano. 2,909,973.
- De Lano, Ralph B., Jr., to International Business Machines Corp. Display apparatus employing electrooptical devices. 2,909,972, 10-27-59, Cl. 95-4.5.
- De Lano, Ralph B., Jr., and D. R. Young, to International Business Machines Corp. Non-volatile barium titanate storage tube. 2,872,612, 2-3-59, Cl. 315-12.
- De Lany, Beatrice P., and P. L. Copeland. Cathode. 2,902,618, 9-1-59, Cl. 313-163.
- De Lap, Robert A., to The Dow Chemical Co. Stabilized ethyl cellulose compositions. 2,914,416, 11-24-59, Cl. 106-177.
- Delaplace, René P., to Societe Anonyme dite: Societe Generale Isothermos. Device for protecting the end faces of plain bearings. 2,913,291, 11-17-59, Cl. 308-237.
- De La Rue Co. Ltd.: *See*—  
Knops, Ivan P., and Camps. 2,887,046.  
Knops, Ivan P., and Camps. 2,901,970.  
Richardson, Frank A. 2,911,216.  
Richardson, Frank A. 2,912,242.
- Delarue, Henri P., to Compagnie Francaise des Matieres Colorantes. New dyestuffs derived from perinones and a process for their preparation. 2,891,061, 6-16-59, Cl. 260-251.
- De Lassus St-Genies, Anne H. J. Devices for viewing with magnification relief images on lenticulated films. 2,873,643, 2-17-59, Cl. 88-1.
- De la Tramery, Raymond, and J. Hébert. Motor vehicle with articulated body sections to facilitate parking. 2,915,132, 12-1-59, Cl. 180-1.
- De Laval Separator Co.: *See*—  
Schlosser, Johann C. 2,871,889.  
Sullivan, Frank E. 2,906,449.
- De Laval Steam Turbine Co.: *See*—  
Birmann, Rudolph. 2,899,797.  
Birmann, Rudolph. 2,911,138.  
Halvarsson, Harald. 2,901,831.
- Delavan Mfg. Co.: *See*—  
Johnson, Alsin K. 2,908,293.  
Tate, Roger W., and Volkmann. 2,904,263.
- Delaware Tool Steel Corp.: *See*—  
Levy, William B., and Roehm. 2,902,832.
- De Lay, Manford S. Adjustable king pin and landing gear assembly for trailer trucks. 2,889,154, 6-2-59, Cl. 280-407.
- De Lay, Manford S. Load equalizer for trailer. 2,900,194, 8-18-59, Cl. 280-34.
- Del Camp, Scipione M., to Cinch Mfg. Corp. Tube socket and capacitor assembly. 2,874,342, 2-17-59, Cl. 317-257.
- Delcellier, Henri A.: *See*—  
Weinberger, Jan V., and Delcellier. 2,901,884.
- Delcellier, Henri A., and J. V. Weinberger. Heat resistant woven cloth. 2,884,018, 4-28-59, Cl. 139-408.
- Del Cerro, Horacio G. P. Wind-screen wiper of combined effect. 2,879,535, 3-31-59, Cl. 15-256.
- De Leonardis, Michael J. Device for heating a heat transfer medium. 2,894,493, 7-14-59, Cl. 122-135.
- Del Faro, Gordon P.: *See*—  
Overmire, Milton O., and Del Faro. 2,881,985.
- Del Francia, Joel A. Gas fired broiler. 2,898,846, 8-11-59, Cl. 99-443.
- Del Francia, Joel A. Adjustable grid broiler. 2,905,076, 9-22-59, Cl. 99-443.
- Del Francia, Joel A. Quick heat broiler. 2,905,077, 9-22-59, Cl. 99-446.
- Del Francia, Joel A. Deep fat fryer. 2,912,975, 11-17-59, Cl. 126-391.
- Delfs, Detlef: *See*—  
Müller, Karl W., and Delfs. 2,872,355.  
Niese, Manfred, and Delfs. 2,875,209.  
Schultheis, Heinz, Kallert, and Delfs. 2,912,414.
- Delfs, Detlef, and F. Münz, 1/2 to Mobay Chemical Co. Production of aromatic isocyanates. 2,901,497, 8-25-59, Cl. 260-453.
- Del Guidice, Dominic: *See*—  
Miller, Julius, and Del Guidice. 2,897,186.
- Del Guidice, Frank P.: *See*—  
Hinckley, Alfred A., and Del Guidice. 2,900,224.
- Delhi-Taylor Oil Corp.: *See*—  
Bartlett, Joseph W., and Soltes. 2,890,941.  
Bludworth, Joseph E. 2,884,472.  
Bludworth, Joseph E., and Leatherwood. 2,911,067.
- Delia, Nicola. Therapeutic device. 2,878,493, 3-24-59, Cl. 5-327.
- Deline, Albert E., to Michigan Chemical Corp. Methyl bromide package. 2,890,794, 6-16-59, Cl. 206-84.
- Deliot, Maurice J., to Societe: Peugeot & Cie. Electric hammer. 2,873,735, 2-17-59, Cl. 125-33.
- De Lipna, Michael: *See*—  
Huddle, Roy A. U., Pearson, and de Lipna. 2,901,346.
- Deliso, John. Socket and rod coupling. 2,869,907, 1-20-59, Cl. 287-126.
- Deliso, John. Socket and rod coupling. 2,893,769, 7-7-59, Cl. 287-126.
- Delker, Thomas C., to Bendix Aviation Corp. Co-rotating dual wheel construction. 2,893,784, 7-7-59, Cl. 301-36.
- Delker, Thomas C., and W. J. Eaton, to Bendix Aviation Corp. Castered dual wheel assembly. 2,905,505, 9-22-59, Cl. 301-36.
- Dell Foods Specialties Co.: *See*—  
Roser, Robert A., and Hedin. 2,893,332.
- Dell, Gaillard W., to Parker Rust Proof Co. Chromate-fluoride type coating solutions and method of treating metal surfaces therewith. 2,868,682, 1-13-59, Cl. 148-6.16.
- Dell, Hugh A., and M. A. Snelling, to North American Philips Co., Inc. Flying spot scanning system for particle counting apparatus. 2,903,597, 9-8-59, Cl. 250-217.



- Dell, Jacob H.: *See—*  
Clevenger, Walton S., and Dell. 2,902,271.
- Dell, Thomas D., 50% to Palizzio, Inc. Shoe heel applying apparatus. 2,881,439, 4-14-59, Cl. 1—32.
- Della Libera, Juan B. Musical instrument. 2,910,906, 11-3-59, Cl. 84—170.
- Della Porta, Paolo. Getter container. 2,907,451, 10-6-59, Cl. 206—4.
- Dellinger, Daniel H., and J. W. McIlwraith, to Associated Box Corp. Platform. 2,870,981, 1-27-59, Cl. 248—120.
- Dellner, Raymond P., to Westinghouse Air Brake Co. Airline oiler. 2,897,919, 8-4-59, Cl. 184—55.
- Dellweg, Hanswerner: *See—*  
Bernhauer, Konrad, Friedrich, Dellweg, and Becher. 2,893,988.
- Delman Co., The: *See—*  
Neufeld, Leonard C. 2,869,164.  
Neufeld, Leonard C. 2,876,483.
- Del Mar, Bruce E., to Del Mar Engineering Laboratories, Inc. Tow target. 2,898,058, 8-4-59, Cl. 244—3.
- Del Mar Engineering Laboratories: *See—*  
Lolmaugh, Orson B., Thornton, and Smith. 2,869,120.  
Thornton, William E. 2,909,772.
- Del Mar Engineering Laboratories, Inc.: *See—*  
Del Mar, Bruce E. 2,898,058.
- Del Matter, Lofton L., 50% to J. Bellinod. Bait dipping and holding device. 2,883,783, 4-28-59, Cl. 43—4.
- Delmonte, John, to Furane Plastics Inc. Epoxy resin compositions. 2,890,204, 6-9-59, Cl. 260—47.
- Deloffre, Leon E., and E. A. Pierre. Device for localizing the impact point of rays. 2,895,067, 7-14-59, Cl. 313—95.
- De Long Corp.: *See—*  
De Long, Leon B., and Suderow. 2,877,629.  
De Long, Leon B., and Suderow. 2,906,100.  
Suderow, George E. 2,870,639.  
Suderow, George E. 2,873,580.  
Suderow, George E. 2,908,142.  
Suderow, George E. 2,909,900.  
Suderow, George E. 2,909,901.
- De Long, Herbert K., to The Dow Chemical Co. Anodizing magnesium. 2,901,409, 8-25-59, Cl. 204—56.
- De Long, Leon B., and G. E. Suderow, to De Long Corp. Method and apparatus for erecting a deep water offshore platform. 2,877,629, 3-17-59, Cl. 61—46.5.
- De Long, Leon B., and G. E. Suderow, to De Long Corp. Method of operating portable marine structure. 2,906,100, 9-29-59, Cl. 61—46.5.
- De Long, Vincent R., to Collins Radio Co. Servosystem adapted for automatic adjustment of radio transmitters. 2,886,752, 5-12-59, Cl. 318—28.
- De Long, William A. Reel construction. 2,874,919, 2-24-59, Cl. 242—118.6.
- De Lorean, John Z., to Studebaker-Packard Corp. Transmission. 2,873,618, 2-17-59, Cl. 74—64.5.
- De Lorean, John Z., to Studebaker-Packard Corp. Transmission. 2,885,908, 5-12-59, Cl. 74—677.
- De Lorean, John Z., to Studebaker-Packard Corp. Automatic transmission with split drive in high range. 2,889,715, 6-9-59, Cl. 74—688.
- De Lorean, John Z., to General Motors Corp. Universal joint. 2,898,750, 8-11-59, Cl. 64—8.
- De Lorean, John Z., to General Motors Corp. Universal joint. 2,906,105, 9-29-59, Cl. 64—8.
- De Lorean, John Z., to General Motors Corp. Brake mechanism. 2,912,085, 11-10-59, Cl. 192—4.
- Delorenzis, Dominic F.: *See—*  
Mears, John S., Delorenzis, and Watson. 2,888,536.
- Delp, Kyle I. Livestock oiler. 2,888,906, 6-2-59, Cl. 119—157.
- Delp, Preston P. Knockdown scaffold. 2,897,013, 7-28-59, Cl. 304—2.
- Del Papa, Torello A. Utensil retainer stove grill. 2,878,803, 3-24-59, Cl. 126—24.
- Delphi Products Co., Inc.: *See—*  
Haggard, John M., and McMurray. 2,870,928.  
McMurray, Paul H. 2,914,025.
- Delpierre, Jean P. Multi-purpose convertible hand tool. 2,873,460, 2-17-59, Cl. 7—14.55.
- Del Pozo Villalba, Pedro. Lock mechanism. 2,874,560, 2-24-59, Cl. 70—134.
- Del Raso, Americo. Self-heating can. 2,914,061, 11-24-59, Cl. 126—262.
- Del Raso, Americo. Self-heating can of the type provided with impact-responsive heating means. 2,914,062, 11-24-59, Cl. 126—263.
- Delrieu, Pierre, to Societe Anonyme Pour les Applications de l'Electricite et des Gas Rares-Etablissements Claude-Paz & Silva. Activated electrode for electric discharge lamp. 2,879,427, 3-24-59, Cl. 313—185.
- Delron Co., Inc., The: *See—*  
Hawks, William L., and Patrick. 2,868,901.
- Del Rosso, Victor, to Hi-Speed Checkweigher Co., Inc. Rotary feeding and timing device. 2,907,443, 10-6-59, Cl. 198—34.
- Delta Dynamics, Inc.: *See—*  
Bretz, Frank E., Jr. 2,906,461.
- Delta Engineering Corp.: *See—*  
Cleveland, Eric G., and Standley. 2,899,784.
- Delta-T, Inc.: *See—*  
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- Delta Tank Mfg. Co.: *See—*  
Spann, Delroy O. 2,893,510.
- Delta Tank Mfg. Co., Inc.: *See—*  
Friedman, Isidore H., Jr. 2,915,341.  
Spann, Delroy O. 2,903,088.  
Spann, Delroy O. 2,911,059.
- Deltour, Basil V. Pulse autopilot system. 2,873,932, 2-17-59, Cl. 244—77.
- Deltux Rug Co.: *See—*  
Dorschner, Clarence C. 2,883,822.
- Del-Tra Co.: *See—*  
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- Deltuvia, Andrew A., Jr.: *See—*  
Callaway, William B., and Deltuvia. 2,909,608.
- De Luca, Robert M.: *See—*  
Brown, Abbott A., and De Luca. 2,901,716.
- De Luca, Walter G., and W. A. Gants, to Davol Rubber Co. Endotracheal cuff. 2,883,986, 4-28-59, Cl. 128—351.
- De Lucia, Anastasia. Slip-on shoe cover. 2,901,842, 9-1-59, Cl. 36—72.
- De Lucia, Marion S.: *See—*  
Gartner, Stanley J., and De Lucia. 2,889,446.
- De Lue, Jerome. Weeding tool. 2,868,503, 1-13-59, Cl. 254—132.
- Deluxe Coils, Inc.: *See—*  
Jefferson, Robert O., and Trinkle. 2,904,836.
- De Luxe Girdlecraft Co., Inc.: *See—*  
Scheinberg, Morris M. 2,870,769.  
Scheinberg, Morris M. 2,897,823.
- De Luxe Metal Furniture Co.: *See—*  
Sandberg, Robert E. 2,912,120.
- De Luxe Products Corp.: *See—*  
Yelinek, Gustav H. 2,891,674.  
Yelinek, Gustav H. 2,910,814.
- Del Vecchio, Deno. Apparatus for controlling backwater in sewage lines. 2,868,380, 1-13-59, Cl. 210—111.
- Del Vecchio, Louis A. Anti-skid attachment for motor vehicle wheels. 2,882,949, 4-21-59, Cl. 152—181.
- Demag-Baggerfabrik G.m.b.H.: *See—*  
Jung, Bernhard, Flach, and Kratz. 2,912,131.
- Demag-Elektrometallurgie G.m.b.H.: *See—*  
Ernst, Hans. 2,908,736.  
Meffert, Walter. 2,903,494.  
Sorg, Wilhelm, and Pfutzner. 2,886,617.  
Tostmann, Johannes. 2,892,878.  
Wronka, Bodo. 2,886,313.
- Demarest, Daniel D. Brick packages. 2,896,781, 7-28-59, Cl. 206—65.
- Demarest, Frank. Coupling for tractor and trailer vehicles. 2,871,029, 1-27-59, Cl. 280—477.
- Demarest, Le Roy E.: *See—*  
Lapeyre, Fernand S., and J. M., and Demarest. 2,886,844.
- Demarest, Philip C.: *See—*  
Foster, Harry R., Crump, and Demarest. 2,906,832.
- Demarest, Russell G., Jr. Loose-leaf binder. 2,878,817, 3-24-59, Cl. 129—24.
- Demarest, William C., and E. Malmstrom; said Malmstrom assor. to said Demarest. Portable traction device. 2,871,853, 2-3-59, Cl. 128—84.
- Demaret, Jules. Means for washing and the like operations. 2,873,600, 2-17-59, Cl. 68—183.
- De Maria, John, to Chemical Products Corp. Relief printing plates and method for fabricating the same. 2,875,051, 2-24-59, Cl. 96—67.
- De Mario, Joseph. Tea bag tags. 2,879,613, 3-31-59, Cl. 40—2.
- Demarkis, Peter J. Gun checking tool. 2,898,957, 8-11-59, Cl. 144—136.
- De Mars, Paul A.: *See—*  
Burns, Harold S., and de Mars. 2,880,817.
- De Mart, Le Roy S. Long retracting soot blower. 2,885,711, 5-12-59, Cl. 15—317.
- De Matteis, John J., to International Business Machines Corp. Supervisory and clock control apparatus. 2,895,122, 7-14-59, Cl. 340—147.
- De Mattia, Andrew D., and N. Pusta, Jr., to Rolock, Inc. Slatted framework and method of making. 2,877,008, 3-10-59, Cl. 263—47.
- De Mauro, Evelyn: *See—*  
Shepard, Donald. 2,891,300.
- De Mauro, Peter, to Globe Lighting Products, Inc. Fluorescent light fixture. 2,899,541, 8-11-59, Cl. 240—51.11.
- De Mauro, Peter, to Globe Lighting Products, Inc. Ceiling-recess light fixture. 2,899,542, 8-11-59, Cl. 240—78.
- Demay, Peter P., to Minneapolis-Honeywell Regulator Co. Valve apparatus. 2,879,971, 3-31-59, Cl. 251—61.
- Demelenne, Anatole A. K. a. Mine blasts. 2,867,171, 1-6-59, Cl. 102—22.
- De Mengel, Gaston P.: *See—*  
Beck, Arnold H. W., and de Mengel. 2,918,599.
- De Ment, Jack R.: *See—*  
Anthony, Harry E., Burnham, Dement, Hahn, and Hepler. 2,886,396.
- Dement, James F., H. H. J. Benson, Jr., and E. H. Niemeyer, to ACF Industries, Inc. Instrument tilt simulator for non-flying aircraft trainer. 2,867,915, 1-13-59, Cl. 35—12.
- Demeny, Adam, to Dr. Ing. F. L. Fenyves. Massage apparatus. 2,893,382, 7-7-59, Cl. 128—38.
- Demer, Frederick M., and B. Marks, to International Business Machines Corp. Electrical assembly housing. 2,881,364, 4-7-59, Cl. 317—100.
- Demer, Frederick M., and R. H. Harrington, to International Business Machines Corp. High speed printer. 2,895,411, 7-21-59, Cl. 101—93.



- De Merritt, Roger F.: *See—*  
Zack, Albert, Wroblewski, and De Merritt. 2,915,811.
- Demers, Edward A.: *See—*  
Ware, Colin C., Blake, and Demers. 2,899,566.  
Cl. 81—15.
- Demetriades, Anthony, to Lear, Inc. Automatic diffuser control for air-breathing engines. 2,870,601, 1-27-59, Cl. 60—35.6.
- Demi, Roy C., to Robertshaw-Fulton Controls Co. Time and timed delay control. 2,897,890, 8-4-59, Cl. 161—1.
- De Millar, Floyd O., to The Radian Corp. Motor starting apparatus. 2,869,682, 1-20-59, Cl. 185—41.
- De Milleville, Maurice M. J. Device for injecting a fluid under pressure. 2,908,259, 10-13-59, Cl. 123—32.
- Deming, Mark A., and R. H. Bolster, to Clark Equipment Co. Transmission control valve. 2,906,135, 9-29-59, Cl. 74—364.
- De Miranda, Heine A. R., and T. J. Tulp, to North American Philips Co., Inc. Circuit arrangement for converting impedances. 2,904,758, 9-15-59, Cl. 333—80.
- Demler, Henry W., to AMP Inc. Crimping tool. 2,892,368, 6-30-59, Cl. 81—15.
- Demler, Henry W., to A M P Inc. Crimping tool with double-ended floating die member. 2,914,976, 12-1-59, Cl. 81—15.
- Demler, Henry W., to AMP Inc. Tool with lost motion linkage for crimping electrical connectors. 2,915,929, 12-8-59.
- Demler, Henry W., to AMP Inc. Hand crimping tool. 2,916,953, 12-15-59, Cl. 81—15.
- Demmel, Anton, to Olympia Werke Akt. Typewriter of sectional construction. 2,881,896, 4-14-59, Cl. 197—186.
- Demmon, Floyd E., to United States Steel Corp. Apparatus for automatically distributing the air blast to blast furnaces. 2,886,307, 5-12-59, Cl. 266—30.
- Demolon, Pierre: *See—*  
Matis, Ernest, Demolon, Nobecourt, and Henri. 2,899,189.
- De Mong, Maurice D., to United States of America, Navy. Full wave detector. 2,912,584, 11-10-59, Cl. 250—27.
- De Monge, Louis. Equalizer type vehicle suspension and locking means therefor. 2,887,322, 5-19-59, Cl. 280—104.
- De Montard, Robert L. M.: *See—*  
Foures, Andre G., Girard, and De Montard. 2,867,209.
- De Montebello, Roger. Light-box. Re. 24,728, 10-27-59, Cl. 240—2.
- De Monterey, Francis G. A., to General Electric Co. Glass coating compositions. 2,874,135, 2-17-59, Cl. 260—18.
- De Montmolin, Jean-Pierre: *See—*  
Bethge, Walther. 2,900,290.
- De Mornay-Bonardi, Inc.: *See—*  
Fonda-Bonardi, Giusto. 2,894,229.
- De Moss, Albert H., to The American Laundry Machinery Co. Drying tumbler. 2,906,035, 9-29-59, Cl. 34—45.
- De Moss, Leonard. Fish skinning apparatus. 2,881,469, 4-14-59, Cl. 17—2.
- De Mott, Alfred E., to General Electric Co. Toaster. 2,870,701, 1-27-59, Cl. 99—391.
- De Motte, Frank E., E. C. Denton, and T. R. Hoffman, to Bell Telephone Laboratories, Inc. Circuits for improving the stability of ultrasonic delay lines. 2,897,489, 7-28-59, Cl. 343—7.7.
- Dempsey, James F., to Sun Oil Co. Manufacture of isoprene. 2,914,588, 11-24-59, Cl. 260—680.
- Dempsey, Joseph B., to Pattin Mfg. Co., Inc. Mine roof bolt with abutting shoulder preventing over-expansion. 2,870,666, 1-27-59, Cl. 85—2.4.
- Dempster, Alexander: *See—*  
Lamb, Francis X., Huber, Estoppey, Roy, and Dempster. 2,875,409.
- Dempster Brothers, Inc.: *See—*  
Dempster, George R., and Herpich. 2,900,096.  
Herpich, William A. 2,888,162.  
Jones, Harry W. 2,878,051.  
Jones, Harry W., and Radel. 2,883,075.  
Standifer, Lafayette B., Jr., and Simpson. 2,872,237.
- Dempster, George R. Transporting equipment. 2,869,740, 1-20-59, Cl. 214—75.
- Dempster, George R., and W. A. Herpich, said Herpich assor. to Dempster Brothers, Inc. Front end loaders. 2,900,096, 8-18-59, Cl. 214—302.
- Dempster, George R., and A. H. Morgan. Containers. 2,915,331, 12-1-59, Cl. 294—69.
- Dempster, Peter B.: *See—*  
Dolan, John E., Brimley, and Dempster. 2,891,475.
- Demtchenko, Basile, to Societe du Carburateur Zenith. Gear pumps. 2,915,976, 12-8-59, Cl. 103—41.
- Denault, Donald R., and G. Minchenko, to Western Electric Co., Inc. Electrical testing fixture. 2,867,771, 1-6-59, Cl. 324—158.
- De Navarre, Maison G., to Beauty Counselors, Inc. Sun screening compositions. 2,880,140, 3-31-59, Cl. 167—90.
- Denbo, Weldon O. Man's undergarment. 2,872,685, 2-10-59, Cl. 2—224.
- Denby, James F.: *See—*  
Pearce, James G., and Denby. 2,883,578.
- Denby, James F., to Automatic Telephone & Electric Co. Ltd. Circuit arrangements for converting information from one form to another. 2,898,583, 8-4-59, Cl. 340—347.
- Denby, James F., to Automatic Telephone & Electric Co. Ltd. Circuit arrangements for counting impulses. 2,898,584, 8-4-59, Cl. 340—347.
- Dence, Donald S., to Clark Equipment Co. Vehicle drive means. 2,871,724, 2-3-59, Cl. 74—665.
- Dence, Richard B., and W. A. Schaich, to Owens-Illinois Glass Co. Ball-type applicator assembly. 2,904,810, 9-22-59, Cl. 15—132.7.
- Dench, Edward C., to Raytheon Mfg. Co. Traveling wave tubes. 2,888,610, 5-26-59, Cl. 315—39.3.
- Dench, Edward C., to Raytheon Mfg. Co. Traveling wave amplifiers. 2,890,372, 6-9-59, Cl. 315—3.5.
- Dench, Edward C., to Raytheon Mfg. Co. Traveling wave electronic devices. 2,890,384, 6-9-59, Cl. 315—39.3.
- Dench, Edward C. Traveling wave oscillator. 2,892,963, 6-30-59, Cl. 315—39.3.
- Dench, Edward C., to Raytheon Co. Traveling wave oscillator. 2,907,913, 10-6-59, Cl. 315—3.5.
- Dench, Edward C., and A. D. La Rue, to Raytheon Mfg. Co. Traveling wave tube system. 2,888,649, 5-26-59, Cl. 332—17.
- Dendrol, Inc.: *See—*  
Snyder, Francis H. 2,875,180.
- De Neergaard, Leif E., deceased, Northern Trust Co., executor; F. W. Olmstead, H. W. Trechsel, D. A. Gerard, J. J. Kojis, N. S. Parker, M. S. Bradway, and said L. F. de Neergaard, as trustees. Recording system and method for displaced traces. 2,885,256, 5-5-59, Cl. 346—74.
- De Neergaard, Leif E., deceased; The Northern Trust Co., executor, to F. W. Olmstead, H. W. Trechsel, D. A. Gerard, J. J. Kojis, N. S. Parker, M. S. Bradway, and said de Neergaard, trustees. Machine tool control system. 2,882,475, 4-14-59, Cl. 318—162.
- De Neergaard, Leif E., deceased; The Northern Trust Co., executor, to F. W. Olmstead, H. W. Trechsel, D. A. Gerard, J. J. Kojis, N. S. Parker, M. S. Bradway, and said de Neergaard, trustees. Record sensing system. 2,882,516, 4-14-59, Cl. 340—174.
- De Neergaard, Leif E., to F. W. Olmstead, H. W. Trechsel, D. A. Gerard, J. J. Kojis, N. S. Parker, M. S. Bradway, and said de Neergaard as trustees, The Northern Trust Co., executor of said de Neergaard, deceased. Method of recording displacements. 2,916,342, 12-8-59, Cl. 346—8.
- Denelsbeck, David: *See—*  
Russell, Robert G., and Denelsbeck. 2,910,806.
- Denend, Lowell E., and K. C. Schroeder, to T. E. Parr. Rope fenders for boats. 2,905,129, 9-22-59, Cl. 114—219.
- Dengler, Rudolf. Disposable hand tooth brush. 2,893,031, 7-7-59, Cl. 15—123.
- Den Haan, Jose J. W.: *See—*  
Köhler, Jacob W. L., and Den Haan. 2,898,166.
- Den Haan, José J. W., and E. L. Van Weenen, to North American Philips Co., Inc. Braking device associated with a centrifugal clutch. 2,916,119, 12-8-59, Cl. 192—15.
- Denham, Frederick R.: *See—*  
Kitchen, John A., and Denham. 2,898,978.
- Denham, William L., to General Electric Co. Mounting structure for stationary inductive device. 2,897,463, 7-28-59, Cl. 336—65.
- Den Herder, Marvin J.: *See—*  
Brooks, John A., and Den Herder. 2,895,898.  
Goretta, Louis A., and Den Herder. 2,911,352.  
Gutberlet, Louis C., and Den Herder. 2,871,185.
- Den Herder, Marvin J., to Standard Oil Co. Increasing platinum catalyst activity for hydroforming hydrofined naphtha. 2,899,378, 8-11-59, Cl. 208—65.
- Den Herder, Marvin, and R. V. Malo, to Standard Oil Co. Fluid platinum catalyst hydroforming system. 2,870,086, 1-20-59, Cl. 208—140.
- Den Hertog, Martinus, to International Standard Electric Corp. Electrical identification or selection equipment. 2,884,489, 4-28-59, Cl. 179—18.
- Den Hertog, Martinus, to International Standard Electric Corp. Relay recorder. 2,887,624, 5-19-59, Cl. 317—137.
- Den Hertog, Martinus, and C. De Zeeuw, to International Standard Electric Corp. Telecommunication exchange systems. 2,912,510, 11-10-59, Cl. 179—18.
- Den Hertog, Martinus, and C. De Zeeuw, to International Standard Electric Corp. Scanning circuit. 2,913,528, 11-17-59, Cl. 179—15.
- Denholm, John. Suitcase having retractable, removable wheels. 2,917,317, 12-15-59, Cl. 280—43.24.
- Deniau, André J. A., to Societe Generale de Construction Electriques et Mecaniques. Means for protecting transition impedances. 2,875,399, 2-24-59, Cl. 323—43.5.
- De Niet, Edmond, and D. Kleis, to North American Philips Co., Inc. Magnetic recording apparatus. 2,912,521, 11-10-59, Cl. 179—100.2.
- Denim Maid Mfg. Co., Inc.: *See—*  
Weaver, John H., and Houdeshell. 2,893,035.
- Dening, Donald G.: *See—*  
Krautwurst, Homer V., and Dening. 2,883,510.
- Dening, Robert D., to Garlinghouse Brothers. Device for kneading and surfacing plastic material. 2,900,883, 8-25-59, Cl. 94—45.
- Dening, Robert D., and L. H. Garlinghouse, to Garlinghouse Brothers. Compactor. 2,917,979, 12-22-59, Cl. 94—45.
- Denis, Walter. Lady's handbag. 2,916,841, 12-15-59, Cl. 40—152.2.
- Denison, Jack T., M. W. Farlow, E. L. Muetterties, and G. H. Whipple, to E. I. du Pont de Nemours, and Co. Preparation of fluorocarbon compounds from phosphorous V fluoride and carbon. 2,884,467, 4-28-59, Cl. 260—653.3.
- Denker, Charles T. Washing machines. 2,885,877, 5-12-59, Cl. 68—156.
- Denker, Charles T. Suction cleaners. 2,886,125, 5-12-59, Cl. 183—22.



- Denkert, Henry, to M. Denkert & Co. Baseball glove with pre-formed pocket. Re. 24,610, 2-24-59, Cl. 2-19.
- Denkert, M., & Co.: See—
- Denkert, Henry. Re. 24,610.
- Denkowski, George S., to Monsanto Chemical Co. Polymerization process. 2,915,514, 12-1-59, Cl. 260-94.9.
- Denkowski, Walter J.: See—
- Kron, Harold O., and Denkowski. 2,878,687.
- Kron, Harold O., and Denkowski. 2,912,087.
- Denlinger, Carl E., to Buckeye Iron & Brass Works. Method and apparatus for dispensing liquids. 2,867,249, 1-6-59, Cl. 141-208.
- Denman, Robert R., and U. P. Trudeau, to Owens-Illinois Glass Co. Machines for press molding hollow glassware. 2,903,824, 9-15-59, Cl. 49-38.
- Denman, Wayne L., to Dearborn Chemical Co. Corrosion inhibiting composition and method. 2,882,171, 1-14-59, Cl. 106-14.
- Denman, Wayne L., and C. M. Hwa, to Dearborn Chemical Co. Filming type corrosion inhibitor for steam and condensate lines. 2,889,193, 6-2-59, Cl. 21-2.7.
- Denmark, Herbert H.: See—
- Simpson, Arthur A., and Denmark. 2,872,790.
- Denn, John H. Tire rim removal tool. 2,898,977, 8-11-59, Cl. 157-1.33.
- Dennard, James J.: See—
- Dupres, Marion R. 2,896,389.
- Dennard, Margaret D.: See—
- Dupres, Marion R. 2,896,389.
- Dennerlein, William H.: See—
- Schladermundt, Peter, Dennerlein, and Simons. 2,889,039.
- Denney, Ralph E.,  $\frac{1}{2}$  to P. Ganson. Power lawn mower. 2,888,796, 6-2-59, Cl. 56-25.4.
- Denning Co., Inc., The: See—
- Denning, Wade F. 2,879,536.
- Denning, Wade F., to The Denning Co., Inc. Means for cleaning floors in textile mills. 2,879,536, 3-31-59, Cl. 15-312.
- Dennis, George P., to Lockers (Engineers) Ltd. Means for generating pulsating direct currents. 2,873,383, 2-10-59, Cl. 307-1.
- Dennis, Jack. Composite link structures for collapsible ladders, conveyors, or the like. 2,905,264, 9-22-59, Cl. 182-163.
- Dennis, James H.: See—
- Hocks, Robert W., and Dennis. 2,881,759.
- Dennis, William H., Jr., to Phillips Petroleum Co. Reforming process. 2,917,454, 12-15-59, Cl. 208-134.
- Dennis, William P., to E. I. du Pont de Nemours and Co. Process for forming composite cellular structures. 2,906,642, 9-29-59, Cl. 117-56.
- Dennis, William P., to E. I. du Pont de Nemours and Co. Process for forming composite cellular structures. 2,906,643, 9-29-59, Cl. 117-56.
- Dennis, Wolcott, to Air Reduction Co., Inc. Argon purification. 2,874,030, 2-17-59, Cl. 23-209.
- Dennis, Wolcott, and J. J. Rendos, to Air Reduction Co., Inc. Degreasing process. 2,911,331, 11-3-59, Cl. 134-22.
- Dennison Mfg. Co.: See—
- Agulnick, Arnold. 2,917,396.
- Bone, Arnold R., and Sloan. 2,890,650.
- Dumont, Donald C. 2,872,030.
- Flood, Carl A. 2,914,768.
- Flood, Carl A. 2,915,177.
- Gottschalk, Ira S., and Hirschey. 2,874,499.
- Dennison, Robert C., and A. C. Luther, Jr., to Radio Corp. of America. Composite color signal transmission systems. 2,877,296, 3-10-59, Cl. 178-5.4.
- De Nobel, Dirk: See—
- Kröger, Ferdinand A., and de Nobel. 2,890,142.
- Denovan, Alexander E. C., D. J. Hodgson, and H. Kremer. Electrically heated jet propulsion unit. 2,918,004, 12-22-59, Cl. 102-49.
- Denoyer-Geppert Co.: See—
- Miller, William S. 2,867,918.
- Densham, Coston L.: See—
- Tunncliffe, Edward A. J., and Densham. 2,875,946.
- Densham, Costin L., to Wade Engineering Ltd. Engine with exhaust gas extractor. 2,888,800, 6-2-59, Cl. 60-32.
- Denslow, Keith R.: See—
- McMillan, William J., and Denslow. 2,884,386.
- Densmore, Richard M. Hydraulic cylinder rod seal mechanism. 2,874,983, 2-24-59, Cl. 286-12.
- Denson, Joseph F. Gun dispenser. 2,908,425, 10-13-59, Cl. 222-262.
- Densow, Max,  $\frac{1}{4}$  to S. Meerkrebs. Closure assembly for containers. 2,877,920, 3-17-59, Cl. 220-30.5.
- Denss, Rolf: See—
- Eugster, Conrad H., Denss, Hafziger, Hofer, Pfister, and Zimmermann. 2,895,965.
- Denss, Rolf, and F. Hafziger, to Geigy Chemical Corp. N-acylated hydroxybenzylamino phenols. 2,906,777, 9-29-59, Cl. 260-558.
- Denss, Rolf, R. Pfister, and F. Hafziger, to Geigy Chemical Corp. 4-substituted 1,2-diaryl-3,5-dioxo-pyrazolidines. 2,910,481, 10-27-59, Cl. 260-310.
- Dentists' Supply Co. of New York, The: See—
- Lee, Pyungtoo W. 2,897,595.
- Lee, Pyungtoo W., and Müller. 2,895,050.
- Safir, Jacob A. 2,888,747.
- Safir, Jacob A. 2,889,625.
- Dentler, Arnold E., to W. H. Miner, Inc. Draft gear for railway draft rigging. 2,880,884, 4-7-59, Cl. 213-40.
- Dentler, Arnold E., to W. H. Miner, Inc. Draft gear for railway draft rigging. 2,892,551, 6-30-59, Cl. 213-40.
- Denton, Bryce A.: See—
- Finlayson, Frank E., Swenson, Herman, Logg, and Denton. 2,892,272.
- Denton, Bryce A., to General Electric Co. Electrically heated device. 2,914,646, 11-24-59, Cl. 219-25.
- Denton, Eugene C.: See—
- De Motte, Frank E., Denton, and Hoffman. 2,897,489.
- Denton, Harvey R. Bag and header therefor including bag supporting means. 2,873,905, 2-17-59, Cl. 229-55.
- Denton, Harvey R. Device for use in packaging; package, and method. 2,882,660, 4-21-59, Cl. 53-135.
- Denton, Harvey R., to Diamond Gardner Corp. Packaging apparatus and method. 2,902,907, 9-8-59, Cl. 93-54.
- Denton, Richard A., to The New York Air Brake Co. Vacuum diffusion pump. 2,886,235, 5-12-59, Cl. 230-101.
- Denton, Richard A., to The New York Air Brake Co. Vapor jet pump. 2,888,190, 5-26-59, Cl. 230-101.
- Denton, Robert L. Transistorized frequency standard. 2,882,404, 4-14-59, Cl. 250-36.
- De Nucci, Joseph M.: See—
- Hannon, Gilbert H., and De Nucci. 2,884,694.
- Hannon, Gilbert H., and De Nucci. 2,903,793.
- Denver Brick and Pipe Co.: See—
- Hileman, Dean S. 2,869,742.
- Denver Chemical Mfg. Co., The: See—
- Manchey, Lessel L., and Bidlack. 2,872,378.
- Denver Equipment Co.: See—
- Daman, Arthur C. 2,876,905.
- Denz, Arthur R.: See—
- Radeliffe, Arthur J., Jr., and Denz. 2,874,312.
- Denz, Arthur R., to International Telephone and Telegraph Corp. Temperature-compensated direct-current amplifier. 2,918,627, 12-22-59, Cl. 330-13.
- Denzer, Richard E.: See—
- Bowser, Philip C., and Denzer. 2,906,526.
- Brunsdon, William E., Denzer, Olley, and Schilling. 2,908,508.
- Denzler, Emil: See—
- Bieri, Hans, and Denzler. 2,875,718.
- De Oliveira, Agenor R. Electric current distributor. 2,902,552, 9-1-59, Cl. 200-28.
- De Palma, Ambrogio, and B. Viscardi. Joint for uniting three structure members in shelvings and scaffoldings. 2,917,332, 12-15-59, Cl. 287-54.
- De Palma, James A. Highway signalling system. 2,874,362, 2-17-59, Cl. 340-31.
- De Paolo-Fletcher, Inc.: See—
- De Paolo, Joseph J. 2,910,700.
- De Paolo, Joseph J., to De Paolo-Fletcher, Inc. Power operated securing device. 2,910,700, 11-3-59, Cl. 1-101.
- Department of Mines: See—
- Bonneau, Louis P. 2,910,178.
- De Pataky, Veronica. Stenciling apparatus. 2,899,928, 8-18-59, Cl. 118-301.
- De Peu, Evans A. Pipe cutting indicator. 2,893,131, 7-7-59, Cl. 33-174.
- De Pew, Chester C.: See—
- Gaines, Clarence F. and J. R., De Pew, and Carry. 2,896,962.
- Gaines, John R. and C. F., and De Pew. 2,892,514.
- Depew, Harlan A., to American Zinc, Lead & Smelting Co. Method of impregnating wood with a chromated zinc sulfate composition and product therewith. 2,886,486, 5-12-59, Cl. 167-38.5.
- Depew, Harlan A., P. D. Quinn, and G. R. Waitkins, to American Zinc, Lead & Smelting Co. Treatment of materials. 2,868,673, 1-13-59, Cl. 117-137.
- De Pew, Thomas N., to Arrowhead Products, Inc. Pallet construction. 2,919,090, 12-29-59, Cl. 248-120.
- De Pew, Thomas N., W. H. Sardo, Jr., and P. H. Koenig, to National Wooden Pallet Manufacturers' Association. Pallet with draft-barrier. 2,873,935, 2-17-59, Cl. 248-120.
- De Philippo, William J., and K. L. Chien, to Radio Corp. of America. Information translating system. 2,902,679, 9-1-59, Cl. 340-174.
- De Phillips, Gerard: See—
- De Phillips, Paul, De Phillips, and De Phillips. 2,907,593.
- De Phillips, Paul, also known as P. De Phillips, deceased, by G. De Phillips, executor, to R. H. Jenkins. Unpacked ball and socket with spring-biased ball. 2,907,593, 10-6-59, Cl. 285-269.
- Depken, Andrew F., to McGraw-Edison Co. Shear machine with electromagnetically operated control responsive to metallic strip being fed to shear. 2,890,750, 6-16-59, Cl. 164-49.
- Depp, Marlin C.: See—
- Halpern, William, Depp, and Fragola. 2,887,873.
- Halpern, William, Depp, and Trenchard. 2,887,872.
- Deppe, Arnold. Article holders. 2,911,173, 11-3-59, Cl. 248-113.
- De Pree, David O.: See—
- Closson, Rex D., and De Pree. 2,918,494.
- De Pree, David O., to Ethyl Corp. Aminolead compound and herbicidal composition containing same. 2,893,857, 7-7-59, Cl. 71-2.7.
- De Pree, David O., to Ethyl Corp. Production of organo-metallic compounds. 2,909,565, 10-20-59, Cl. 260-541.



- Deprez, Charles, to Solvay & Cie. Composite anode assembly for use in electrolytic cells. 2,868,712, 1-13-59, Cl. 204-288.
- De Priest, Coral L., to California Research Corp. Gas-air burner with check valve. 2,895,555, 7-21-59, Cl. 166-59.
- De Priest, Coral L., to California Research Corp. Liner packing method. 2,905,245, 9-22-59, Cl. 166-15.
- De Priest, Coral L., and C. N. Simm, to California Research Corp. Apparatus for well stimulation by gas-air burners. 2,887,160, 5-19-59, Cl. 166-59.
- De Prisco, Carmine F., W. C. Elmore, and N. Maropis, to Aeroprojects, Inc. Automatic power and frequency control for electro-mechanical devices. 2,917,691, 12-15-59, Cl. 318-118.
- Depuy, Robert P., to General Electric Co. Power resistor assembly. 2,902,664, 9-1-59, Cl. 338-176.
- Deranian, Minas, and B. V. Vonderschmitt, to Radio Corp. of America. Deflection circuits. 2,869,030, 1-13-59, Cl. 315-27.
- Deranja, John E., and M. Jang. Skirt form hanger. 2,908,430, 10-13-59, Cl. 223-95.
- Derby, Richard F., and A. Biery. Leg length adjusting apparatus. 2,890,824, 6-16-59, Cl. 228-63.
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- Derby Sealers, Inc.: *See*—  
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- Derby, William F. Tool for removal of valve lifters. 2,883,740, 4-28-59, Cl. 29-213.
- Deren, Pincus, to Pabst Brewing Co. Apparatus and method for extracting air from beverages. 2,906,624, 9-29-59, Cl. 99-79.
- Derhalli, Zouhdi M.: *See*—  
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- Derham, Leslie J.: *See*—  
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- Derham, Leslie J., to Metallurgical Processes Ltd. and The National Smelting Co. Ltd., carrying on business together under the name and style of Metallurgical Development Co. Condensing of zinc in liquid form from zinc vapour. 2,886,309, 5-12-59, Cl. 266-37.
- Derham, Leslie J., and J. W. Haywood, to The Metallurgical Processes Ltd. and National Smelting Co. Ltd., doing business as Metallurgical Development Co. Condenser for condensing metal vapours. 2,871,007, 1-27-59, Cl. 266-15.
- Derick, Lincoln, and C. J. Frosch, to Bell Telephone Laboratories, Inc. Vapor-solid diffusion of semiconductive material. 2,873,222, 2-10-59, Cl. 148-15.
- De Ridder, Alphonse: *See*—  
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- De Ridder, Gysbert F., and W. P. Bryan, to Shell Development Co. Production of carbon black oil. 2,895,895, 7-21-59, Cl. 208-40.
- De Rijk, Willy: *See*—  
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- Dering, Roger. Metallurgical processing of uranium ores. 2,890,795, 6-16-59, Cl. 209-12.
- Derksen, Jan W.: *See*—  
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- Derman, Sam. Double closure knockdown wardrobes. 2,902,056, 9-8-59, Cl. 160-90.
- Dermer, Otis C., and F. B. Slezak, to Cities Service Research and Development Co. Olefin oxide ortho ester condensation products. 2,867,667, 1-6-59, Cl. 260-615.
- Dermond, Franklin, and C. A. Nickerson, to Bell Telephone Laboratories, Inc. Indexing means for drum-feed screw type translating device. 2,883,476, 4-21-59, Cl. 179-100.2.
- Dermond, Lawrence C.: *See*—  
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- Dermond, Lawrence C., to General Motors Corp. Windshield cleaning apparatus. 2,869,165, 1-20-59, Cl. 15-250.4.
- Dermond, Lawrence C., to General Motors Corp. Thermostatically controlled air bleed. 2,873,958, 2-17-59, Cl. 261-39.
- Dermond, Lawrence C., to General Motors Corp. Windshield wiper actuating mechanism. 2,876,747, 3-10-59, Cl. 121-123.
- Dermond, Lawrence C., to General Motors Corp. Fuel control system. 2,894,499, 7-14-59, Cl. 123-119.
- Dermond, Lawrence C., to General Motors Corp. Fuel injection acceleration enrichment device. 2,899,950, 8-18-59, Cl. 123-119.
- Dermond, Lawrence C., to General Motors Corp. Fuel injection metering valve. 2,900,167, 8-18-59, Cl. 251-321.
- Dermond, Lawrence C., to General Motors Corp. Idle fuel control. 2,916,270, 12-8-59, Cl. 261-37.
- Dermond, Lawrence C., and E. Olson, to General Motors Corp. Fuel injection system. 2,898,096, 8-4-59, Cl. 261-37.
- Derndinger, Hans-Otto: *See*—  
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- De Rooy, Antonius J.: *See*—  
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- De Rosa, Louis A., M. Masonson, and F. J. Lundburg, to International Telephone and Telegraph Corp. Radio navigation beacon. 2,915,750, 12-1-59, Cl. 343-106.
- De Rose, John P. Adjustable seat mount. 2,892,483, 6-30-59, Cl. 155-14.
- De Rose, Paradise. Combined movie camera, viewer and projector. 2,883,904, 4-28-59, Cl. 88-17.
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- Derossi, Agostino D. Caging device for gyrocompasses having a floating sensitive element. 2,872,821, 2-10-59, Cl. 74-5.1.
- De Rouen, Rudolph R. Linesman's marker pole. 2,881,543, 4-14-59, Cl. 40-125.
- Derouet, Brice, to Compagnie Generale de Telegraphie Sans Fil. Device for improving the reception of pulse-type radio signals in the presence of noise. 2,914,666, 11-24-59, Cl. 250-20.
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- Derr, Willard A., and E. J. Cham, to Westinghouse Electric Corp. Circuit breaker control systems using logic decision elements. 2,909,707, 10-20-59, Cl. 317-22.
- Derrah, Helen J.: *See*—  
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- Derrah, Norman S. and H. J. Bags and bag handling machines. 2,892,297, 6-30-59, Cl. 53-136.
- Derrick, Daniel M. Drum clamp. 2,874,432, 2-24-59, Cl. 24-81.
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- Peterson, C. Lynn, and Derringe. 2,885,083.
- Derringer, Paul. Animated display unit. 2,904,913, 9-22-59, Cl. 40-33.
- Derringer, Ray, to International Oil Burner Co. Air duct register. 2,901,962, 9-1-59, Cl. 98-106.
- Dersch, Fritz, and M. R. De Angelis, to General Aniline & Film Corp. Antifogging agent and bactericide for photographic emulsions. 2,897,081, 7-28-59, Cl. 96-66.
- Dersch, John A.: *See*—  
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- Dersch, John A., and H. G. Burman, to Baker Perkins Inc. Synchronizing means for oven conveyors and associated handling mechanism. 2,885,973, 5-12-59, Cl. 107-57.
- Dersch, William C., Jr.: *See*—  
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- De Rugeris, John. Ignition system for internal combustion engines. 2,905,775, 9-22-59, Cl. 200-26.
- De Rugeris, John. Soldering iron. 2,905,799, 9-22-59, Cl. 219-27.
- De Ruggieri, Petro, and C. Ferrari. Steroids. 2,873,273, 2-10-59, Cl. 260-239.55.
- Dery, Aldege L. Loading magazine for a work holding fixture. 2,869,433, 1-20-59, Cl. 90-59.
- De Rycker, Henry G. E. L., and M. F. V. G. Mathieu, to Societe Belge de l'Azote et des Produits Chimiques du Marly. Catalytic reactor. 2,887,365, 5-19-59, Cl. 23-288.
- De Saint Chamant, Henri: *See*—  
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- De Santis, Sabatino, to The Eyelet Specialty Co. Cosmetic container. 2,901,101, 8-25-59, Cl. 206-56.
- De Santis, Vincent J., and M. J. Slivka, to General Electric Co. High power electron tube. 2,879,429, 3-24-59, Cl. 313-293.
- Desbois, Theodore J. Pallet. 2,913,205, 11-17-59, Cl. 248-120.
- Desbrandes, Robert, to Schlumberger Well Surveying Corp. Borehole apparatus. 2,872,230, 2-3-59, Cl. 288-6.
- Descaries, Raymond, to Aktiebolaget Electrolux. Combined handle and switch control. 2,919,332, 12-29-59, Cl. 200-157.
- Desch, Joseph R., to The National Cash Register Co. Electronic counter. 2,871,408, 1-27-59, Cl. 315-84.5.
- Deschamps, Desire J., to Hydroaire, Inc. High pressure variable delivery rotary vane pump. 2,885,960, 5-12-59, Cl. 103-4.
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- Deschmann, Heinrich: *See*—  
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- Descouvemont, Pierre A., to Compagnie des Machines Bull (Societe Anonyme). Tabulator commutators for recording and the like machines. 2,892,048, 6-23-59, Cl. 200-46.
- De See, Peter G., to Halkey-Roberts Corp. Valve. 2,887,120, 5-19-59, Cl. 137-223.
- De Selms, Jesse E., deceased, by E. D. Brandon, sole heir. Hydraulic torque tool. 2,900,811, 8-25-59, Cl. 64-28.
- De Selms, Paul R.: *See*—  
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- De Seversky, Alexander P. Food seasoning injection device. 2,887,035, 5-19-59, Cl. 99-234.
- De Shano, Alphonse D., to Emmett Conrad. Hoisting crane. 2,867,333, 1-6-59, Cl. 212-144.
- Deshaw, Heinz: *See*—  
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- De Shazor, James C., Jr., to Columbia Basin Plastics Co. Shake and pour device. 2,889,090, 6-2-59, Cl. 222-555.
- Desiato, Gene G. Lens surfacing machine. 2,871,626, 2-3-59, Cl. 51-124.
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- Kaiser, Herman D., Jr. 2,879,678.
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- Brink, Raymond J., and Buelow. 2,867,859.
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- De Simone, Benjamin J., and D. F. Crozat, to Precision Development Co., Inc. Spray unit assembly. 2,876,040, 3-3-59, Cl. 299-84.
- Desjarlais, Arthur and F. E. Life preserver. 2,895,147, 7-21-59, Cl. 9-19.
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- Desjarlais, Arthur and F. E. 2,895,147.
- De Smidt, Woodrow A., F. F. Loock, and C. E. Zarwell, to Allen-Bradley Co. Control-station. 2,897,327, 7-28-59, Cl. 200-168.
- Desnoyers, Doris: *See—*
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- Desnoyers, Joseph R. 50% to D. Desnoyers. Railroad car drawbar. 2,885,094, 5-5-59, Cl. 213-120.
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- Siggelin, Gert K. A. 2,884,949.
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- De Spain, Thomas H., to Southern Textile Machinery Co., Inc. Hosiery inspection apparatus and method. 2,902,193, 9-1-59, Cl. 223-75.
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- Despard, Victor R., to Pass & Seymour, Inc. Automatic wire gripping terminal. 2,883,641, 4-21-59, Cl. 339-216.
- Despres, Urban H., to Keyes Fibre Co. Individual serving pack. 2,917,216, 12-15-59, Cl. 229-25.
- Dessane, Despres. Toothbrush and tooth powder kit-toothbrush powder fountain. 2,880,738, 4-7-59, Cl. 132-84.
- Dessauer, John H., R. W. Gundlach, and G. R. Mott, to Haloid Xerox Inc. Method for fixing xerographic images. 2,894,840, 7-14-59, Cl. 96-1.
- Dessauer, John H., and H. E. Clark, to Haloid Xerox Inc. Radiation sensitive photoconductive member. 2,901,348, 8-25-59, Cl. 96-1.
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- Dessureau, Joseph T. and J. B. Re. 24,660.
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- De Stevens, George, to Ciba Pharmaceutical Products, Inc. Certain 3-substituted cycloalkano-[d]-4-thiazoline-2-ones. 2,877,231, 3-10-59, Cl. 260-306.7.
- De Stevens, George, to Sperry Rand Corp. Sensitizing dyes from 2-methyl-5,6-dihydro-4-cyclopentathiazoles. 2,882,160, 4-14-59, Cl. 96-105.
- De Stevens, George, to Ciba Pharmaceutical Products, Inc. 2,3-dihydro-1,4-thiazene-3-ones. 2,887,483, 5-19-59, Cl. 260-243.
- De Stevens, George, to Sperry Rand Corp. Cyanine dyes containing a saturated heterocyclic nucleus. 2,892,835, 6-30-59, Cl. 260-240.4.
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- De Stevens, George, to Ciba Pharmaceutical Products, Inc. Certain 4-pyridyl thiazoline-2-ones and process. 2,910,479, 10-27-59, Cl. 260-294.8.
- De Stevens, George, to Sperry Rand Corp. New thiazole base and cyanine dyes prepared therefrom. 2,916,487, 12-8-59, Cl. 260-240.4.
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- De Stevens, George, and R. H. Sprague, to Sperry Rand Corp. Cyanine dyes. 2,892,834, 6-30-59, Cl. 260-240.4.
- De Stevens, George, and R. H. Sprague, to Sperry Rand Corp. Preparation of 2-methyl-4,5,6,7-tetrahydro benzoxazole and cyanine dyes therefrom. 2,892,837, 6-30-59, Cl. 260-240.4.
- De Stevens, George, and L. H. Werner, to Ciba Pharmaceutical Products, Inc. 3,7-disulfamyl-benzothiadiazine 1,1-dioxides. 2,894,948, 7-14-59, Cl. 260-243.
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- De Stevens, George, and R. H. Sprague, to Sperry Rand Corp. Preparation of indenothiazoles and cyanine dyes therefrom. 2,912,434, 11-10-59, Cl. 260-240.1.
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- Destriau, Georges, to Westinghouse Electric Corp. X-ray method. 2,885,560, 5-5-59, Cl. 250-71.
- Destriau, Georges, to Westinghouse Electric Corp. Electroluminescent cell. 2,901,651, 8-25-59, Cl. 313-108.
- Desvaux, Jacques, and F. Berthet. Driving or extracting piles or like members. 2,867,984, 1-13-59, Cl. 61-73.
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- Detrie, Arthur J., D. J. Lingenfelter, E. J. O'Neil, P. J. Stayboldt, and E. P. Troeger, to Douglas Aircraft Co., Inc. Compartmented container. 2,916,197, 12-8-59, Cl. 229-56.
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- Detwiler, Harry S., O. R. Petters, and H. B. Thompson, to Hamilton Watch Co. Battery holder for electric wrist watches. 2,907,810, 10-6-59, Cl. 136-173.
- Detwiler, Samuel R. Post operative arm sling. 2,916,034, 12-8-59, Cl. 128-94.
- Detwiler, William L., and N. C. Stone. Electrical discharge direction locator. 2,885,671, 5-5-59, Cl. 343-123.



- Deuble, Edward C., 30% to R. W. Caudell. Window screen for motor vehicles. 2,914,123, 11-24-59, Cl. 160-105.
- Deucher, Adolf H. Device for hanging up clothes. 2,915,232, 12-1-59, Cl. 223-88.
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- Deuth, Albert F. Signal transmission system. 2,897,264, 7-28-59, Cl. 178-6.6.
- Deuth, Albert F., to Clairex Corp. Light responsive control device. 2,912,593, 11-10-59, Cl. 250-214.
- Deutsch, Alexander T. Method of forming particulate material. 2,902,364, 9-1-59, Cl. 75-214.
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- Deutschmann, Herbert, to Daimler-Benz Akt. Fuel injection timing apparatus. 2,914,054, 11-24-59, Cl. 123-139.
- De Vaan, Walter H. Rear view mirror attaching bracket. 2,898,070, 8-4-59, Cl. 248-226.
- De Val, Eugene J., to Westinghouse Electric Corp. Lightning arrester. 2,871,390, 1-27-59, Cl. 313-231.
- Devaney, John L., Jr., to American Brake Shoe Co. Adjustable rail brace. 2,904,256, 9-15-59, Cl. 238-292.
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- Devaud, Albert J., to Raytheon Mfg. Co. Apparatus for control of machine operations. 2,892,526, 6-30-59, Cl. 192-142.
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- De Vault, Jess E. Molding. 2,875,467, 3-3-59, Cl. 16-7.
- Devaux, Raymond H. P., to Societe Anonyme Schobesta. Nut with coil spring locking means. 2,881,819, 4-14-59, Cl. 151-25.
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- Develotte, Jean E.: *See—*  
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- De Venezia, Edward J., to Becton, Dickinson and Co. Control syringe assembly and attachment. 2,882,901, 4-21-59, Cl. 128-218.
- Deverell-Smith, Raymond, J. Mitchell, and H. J. Twitchett, to Imperial Chemical Industries Ltd. Polymeric compositions. 2,874,146, 2-17-59, Cl. 260-45.85.
- De Versterre, William I.: *See—*  
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- Devery, James J., to Philco Corp. Cabinet structure. 2,904,853, 9-22-59, Cl. 20-38.
- Devery, Michael H., to Philco Corp. Appliance cabinet structure. 2,874,971, 2-24-59, Cl. 230-46.
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- De Vilbiss Co., The: *See—*  
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- Devine, James H. Blind bolt with pivoting ledge. 2,875,674, 3-3-59, Cl. 85-1.
- De Vito, Angelo R., to L. W. Menzimer. Electric switch. 2,897,326, 7-28-59, Cl. 200-167.
- De Vito, Angelo R., to L. W. Menzimer, as trustee. Door holding device. 2,915,778, 12-8-59, Cl. 16-82.
- De Vito, Felix. Machine for blocking or shaping shoes. 2,883,686, 4-28-59, Cl. 12-53.5.
- De Vivo, Robert. Safety device for refrigerators. 2,917,010, 12-15-59, Cl. 109-63.5.
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- De Voe, George. Battery cable terminal. 2,892,179, 6-23-59, Cl. 339-225.
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- Devol, George C., to Sperry Rand Corp. Random printing method and means. 2,918,864, 12-29-59, Cl. 101-93.
- Devonshire, William H., and E. R. Behnke, to Columbus McKinnon Chain Corp. Conveyor drive mechanism. 2,887,213, 5-19-59, Cl. 198-194.
- Devonshire, William H., and E. E. Robins, to Columbus McKinnon Chain Corp. Electric hoist control. 2,891,132, 6-16-59, Cl. 200-168.
- Devonshire, William H., and E. R. Behnke, to Columbus McKinnon Chain Corp. Chain link having identification and a replacement gauging means. 2,895,290, 7-21-59, Cl. 59-90.
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- De Vore, Solomon L. Portable ink fountain. 2,893,317, 7-7-59, Cl. 101-365.
- Devos, Gaston L. A. Homokinetic universal joint. 2,914,931, 12-1-59, Cl. 64-21.
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- Dewan, John T., to Schlumberger Well Surveying Corp. Well logging apparatus. 2,874,301, 2-17-59, Cl. 250-71.
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- Dewas, Raymond. Weft feeders for weaving looms with continuous feed. 2,868,233, 1-13-59, Cl. 139-123.
- Deweese, Alexander H. Safety device for automotive vehicles. 2,879,078, 3-24-59, Cl. 280-150.
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- Dewey, Davis R., II, and A. J. Gale, to High Voltage Engineering Corp. Method of and apparatus for the more efficient use of high-energy charged particles in the treatment of gas-phase systems. 2,892,946, 6-30-59, Cl. 250-49.5.
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- Dewey, Raymond J. Automobile trunk liner. 2,911,253, 11-3-59, Cl. 296-39.
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- De Wiess, Ferdinand A., and E. F. Abbott, to De Lackner Helicopters, Inc. Switching device. 2,881,282, 4-7-59, Cl. 200-91.
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- De Witt, Leslie, Jr. Aircraft for toy aircraft. 2,896,370, 7-28-59, Cl. 46-79.
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- Dewitz, Gerhard H., to C. G. S. Laboratories, Inc. Magnetic control device. 2,886,789, 5-12-59, Cl. 336-155.
- Dewitz, Gerhard H., to C. G. S. Laboratories, Inc. Electrically variable delay line. 2,907,957, 10-6-59, Cl. 333-29.
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- De Wolff, Lambertus J., to N. V. Koninklijke Nederlandsche Vliegtuigenfabriek Fokker. Aircraft wing. 2,908,454, 10-13-59, Cl. 244-42.
- De Wolff, Pieter M., and W. Parrish, to North American Philips Co., Inc. X-ray diffraction method and apparatus. 2,887,585, 5-19-59, Cl. 250-53.
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- Dexter, Robert G., and J. A. Willett, to Cummington Corp. Collating machine. 2,901,249, 8-25-59, Cl. 271-26.
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- De Zeeuw, John R., and F. Sauer. Animal feed compositions. 2,910,360, 10-27-59, Cl. 99-2.
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- Deziel, Fred T., to Minneapolis-Honeywell Regulator Co. Condition sensing apparatus. 2,919,438, 12-29-59, Cl. 340-227.
- Dgetluck, John, to Pioneer Folding Box Inc. Display devices. 2,914,184, 11-24-59, Cl. 211-55.
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 Ballard, Wiley P., Dickens, McKinley, and Smith. 2,888,393.  
 Dickerson, Henry A., to Westinghouse Electric Corp. Motor control apparatus. 2,913,146, 11-17-59, Cl. 222-55.  
 Dickerson, John L., and R. H. Herring, to Rockwell Mfg. Co. Jacketed valve. 2,900,995, 8-25-59, Cl. 137-340.  
 Dickerson, Julian D., to Republic Steel Corp. Manufacture of gun barrels. 2,876,095, 3-3-59, Cl. 75-126.  
 Dickerson, Malon H., to United States of America, Air Force. Rapid photo-processing developer. 2,877,116, 3-10-59, Cl. 96-66.  
 Dickerson, Malon H., to United States of America, Air Force. High speed developers. 2,882,152, 4-14-59, Cl. 96-66.  
 Dickerson, Malon H., to United States of America, Air Force. High speed developer. 2,887,377, 5-19-59, Cl. 96-66.  
 Dickerson, Raymond L. Chain-type flails having bark-cutting bosses on the outer links thereof. 2,893,451, 7-7-59, Cl. 144-208.  
 Dickey, Herbert C., to General Motors Corp. Bearing seal. 2,908,536, 10-13-59, Cl. 308-187.1.  
 Dickey, John W., to Bendix Aviation Corp. Dampened pintle nozzle. 2,901,185, 8-25-59, Cl. 239-453.  
 Dickey, Joseph B.: *See*—  
 Coover, Harry W., Jr., and Dickey. 2,882,290.  
 Dickey, Joseph B., and T. E. Stanin, to Eastman Kodak Co. Magnesium and iodine catalysts for polyester preparation. 2,891,928, 6-23-59, Cl. 260-75.  
 Dickey, Joseph B., and M. A. McCall, to Eastman Kodak Co. Organophosphorus derivatives of thiazyl halides. 2,904,577, 9-15-59, Cl. 260-461.  
 Dickey, Leonide, to S. N. Marep. Piston rod stuffing boxes. 2,896,980, 7-28-59, Cl. 286-34.  
 Dickey, Paul S., to Bailey Meter Co. Indicating system. 2,886,201, 5-12-59, Cl. 220-3.6.  
 Dickey, Robert C., F. P. Hauck, and H. M. Archer, to Michigan Abrasive Co. Apparatus for propelling particulate matter. 2,869,511, 1-20-59, Cl. 118-638.  
 Dickey, Wallace J., and K. R. McClure; said K. R. McClure assor. to said W. J. Dickey. Self-locking shackle seal. 2,869,911, 1-20-59, Cl. 292-324.  
 Dickie, John A., to Textron Inc. Fluid-operated vibration test exciter. 2,890,584, 6-16-59, Cl. 73-71.6.  
 Dickie, William A., J. G. N. Drewitt, and H. E. B. Young, to British Celanese Ltd. Filamentary material. 2,869,848, 1-20-59, Cl. 263-30.  
 Dickinson, Arthur H.: *See*—  
 Paulsen, Robert C., and Dickinson. 2,901,608.  
 Dickinson, Arthur H., to International Business Machines Corp. Electronic amplifier. 2,872,570, 2-3-59, Cl. 250-27.  
 Dickinson, Arthur H., to International Business Machines Corp. Electronic amplifier. 2,872,592, 2-3-59, Cl. 307-88.5.  
 Dickinson, Arthur H., to International Business Machines Corp. Device to manifest an unknown voltage as a numerical quantity. 2,872,670, 2-3-59, Cl. 340-347.  
 Dickinson, Arthur H., to International Business Machines Corp. Multi-collector transistor providing different output impedances, and method of producing same. 2,882,463, 4-14-59, Cl. 317-235.  
 Dickinson, Arthur H., to International Business Machines Corp. Bi-quinary accumulator. 2,884,192, 4-28-59, Cl. 235-159.



- Dickinson, Arthur H., to International Business Machines Corp. Electronic multiplying system. 2,895,672, 7-21-59, Cl. 235-160.
- Dickinson, Clarence R.: *See*—  
Dehn, William F., and Dickinson. 2,868,931.
- Dickinson, Clayton D., to Allis-Chalmers Mfg. Co. Alloyed nodular iron. 2,885,285, 5-5-59, Cl. 75-124.
- Dickinson, Edward D. Device for cleaning soldering tips. 2,898,620, 8-11-59, Cl. 15-160.
- Dickinson, Fairleigh S., Jr., to Becton, Dickinson and Co. Coupling. 2,880,722, 4-7-59, Cl. 128-214.
- Dickinson, Frank C., to Rotol, Ltd. Methods and apparatus for recording electrical and mechanical vibrations. 2,878,094, 3-17-59, Cl. 346-107.
- Dickinson, Frank R., to Bell Telephone Laboratories, Inc. Cable termination. 2,871,283, 1-27-59, Cl. 174-50.52.
- Dickinson, George A.: *See*—  
Jellyman, Philip E., Dickinson, and Macintosh. 2,895,260.
- Dickinson, Harold W. Mechanism for manufacturing rafters. 2,876,451, 3-10-59, Cl. 1-148.
- Dickinson, Henry M. N.: *See*—  
Endicott, Clarence J., Dallavis, and Dickinson. 2,881,085.
- Dickinson, Howard E., 40% to J. F. Briganti, and 20% to I. J. Kunik. Hot bituminous concrete surface treatment and process. 2,884,841, 5-5-59, Cl. 94-23.
- Dickinson, Monroe M., Jr.: *See*—  
Rogers, Mortimer D., and Dickinson. 2,880,314.
- Dickinson, Norman L., to The M. W. Kellogg Co. Treatment of carbon-containing materials. 2,886,421, 5-12-59, Cl. 48-206.
- Dickinson, Oral W. Door push bar. 2,871,050, 1-27-59, Cl. 292-336.3.
- Dickinson, Robert C., to Westinghouse Electric Corp. Circuit interrupter. 2,871,319, 1-27-59, Cl. 200-144.
- Dickinson, Robert V. C., and E. Gould, to The Hallcrafters Co. Reactance modulator circuit and method. 2,884,598, 4-28-59, Cl. 332-28.
- Dickinson, Wesley E., to International Business Machines Corp. Electric cable self guiding arcuate set. 2,897,254, 7-28-59, Cl. 174-117.
- Dickson, Harry A. Tension spring supporting means for trailers. 2,869,889, 1-20-59, Cl. 280-104.5.
- Dickson, William: *See*—  
Tidd, Victor S., and Dickson. 2,886,251.
- Dicks, Arthur. Paint can holder. 2,880,953, 4-7-59, Cl. 248-210.
- Dickson, Clifford C., to M. F. Murray. Adjustable chair. 2,901,027, 8-25-59, Cl. 155-160.
- Dickson, Donald C., Jr., to Hoffman Electronics. Thermal zener device or the like. 2,893,904, 7-7-59, Cl. 148-33.
- Dickson, James J., to United States of America, Atomic Energy Commission. Control device. 2,904,487, 9-15-59, Cl. 204-193.2.
- Dickson, John, to General Motors Corp. Intake and exhaust manifold system. 2,873,575, 2-17-59, Cl. 60-29.
- Dickson, John, to General Motors Corp. Piston. 2,909,160, 10-20-59, Cl. 123-32.
- Dickson, Ralph W.: *See*—  
Clarke, Otto A., and Dickson. 2,867,951.
- Dickson, Ronald, and E. Swainson, to Imperial Chemical Industries Ltd. Arc melting furnace and method of melting high melting point metallic material. 2,903,495, 9-8-59, Cl. 13-32.
- Dickson, Woodrow J.: *See*—  
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- Dictaphone Corp.: *See*—  
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- Taylor, Douglas E., Jones, and Mitchell. 2,870,264.
- Dictograph Products Co., Inc.: *See*—  
Curtis, Roger C. 2,896,097.
- Flower, Guiles, Jr., Roberts, and Rowe. 2,898,112.
- Lehr, Philip N. 2,886,623.
- Lehr, Philip N. 2,890,297.
- Lehr, Philip N. 2,890,311.
- Roberts, Bruce. 2,900,191.
- Roberts, Frederick W., and Montgomery. 2,894,700.
- Diczfalusy, Egon R., O. B. Fernö, H. J. Fex, and K. B. Högborg, to Aktiebolaget Leo. Esters of testosterone and 19-nortestosterone and method for the production thereof. 2,904,562, 9-15-59, Cl. 260-397.4.
- Diday, Jesse N., to Belmont Casket Mfg. Co. Casket-lid locking system. 2,916,317, 12-8-59, Cl. 292-26.
- Didier-Kogaz-Hinselmann, Koksofenbau und Gasverwertung, A. G.: *See*—  
Hartewig, Heinrich, Steding, and Eidel. 2,872,385.
- Didier-Werke A. G.: *See*—  
Bieneck, Edmund, and Schroth. 2,881,048.
- Steinhoff, Eduard. 2,889,229.
- Di Domenico, Domenic. Tire traction chain securing device. 2,898,967, 8-11-59, Cl. 152-233.
- Didszuns, Fritz, to General Electric Co. Clutch with magnetic powder mixture for force transmitting devices. 2,897,931, 8-4-59, Cl. 192-21.5.
- Didszuns, Fritz, to General Electric Co. Magnetic material force transmitting device. 2,903,109, 9-8-59, Cl. 192-21.5.
- Diebold, Anton, to The Wilcolator Co. Electric motor circuit breaker or protector. 2,892,910, 6-30-59, Cl. 200-113.
- Diebold, Edward J.: *See*—  
Kesselring, Fritz, and Diebold. 2,916,579.
- Diebold, Edward J., to United States of America, Army. High-speed electromagnetic switch. 2,872,547, 2-3-59, Cl. 200-93.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Cooling system for mechanical rectifiers. 2,882,479, 4-14-59, Cl. 321-48.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Power supply circuit for electromagnetic clutches. 2,883,873, 4-28-59, Cl. 74-365.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Six phase half wave mechanical rectifier. 2,884,583, 4-28-59, Cl. 321-48.
- Diebold, Edward J., to International Rectifier Corp. Rectifier mounting means. 2,886,747, 5-12-59, Cl. 317-234.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Automatic overlap control for mechanical rectifiers. 2,905,883, 9-22-59, Cl. 321-48.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Electromagnetic rectifier. 2,905,884, 9-22-59, Cl. 321-48.
- Diebold, Edward J., to International Rectifier Corp. Hermetically sealed rectifier. 2,909,714, 10-20-59, Cl. 317-234.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Adjustable instantaneous overload trip device. 2,914,702, 11-24-59, Cl. 317-13.
- Diebold, Edward J., to International Rectifier Corp. Dry rectifier assembly and housing therefor. 2,915,685, 12-1-59, Cl. 317-234.
- Diebold, Edward J., to I-T-E Circuit Breaker Co. Voltage equalizer for series connected rectifiers. 2,917,697, 12-15-59, Cl. 321-11.
- Diebold, Edward J., to International Rectifier Corp. Current rectification utilizing interphase transformers. 2,918,616, 12-22-59, Cl. 321-11.
- Diebold, Edward J., and O. Jensen, to I-T-E Circuit Breaker Co. Electrical means for mechanical rectifiers to limit contact wear. 2,884,585, 4-28-59, Cl. 321-48.
- Diebold, Inc.: *See*—  
Behrens, Herbert C., and Graber. 2,912,118.
- Deaton, Charles U., and Graber. 2,869,485.
- Graber, Carl D., and Badenell. 2,918,883.
- Diederich, Norman F., to The Electric Products Co. Protective circuit for synchronous motors. 2,876,405, 3-3-59, Cl. 318-170.
- Diederich, Norman F., to The Electric Products Co. Electric switch. 2,879,347, 3-24-59, Cl. 200-50.
- Diederichs, Herbert: *See*—  
Bayley, Emery P., Davis, Diederichs, Vaupell, and Perrow. 2,886,918.
- Diedring, John H., to General Motors Corp. Spring located outlook lens. 2,909,653, 10-20-59, Cl. 240-8.3.
- Diedring, John H., to General Motors Corp. Snap-in lens. 2,918,570, 12-22-59, Cl. 240-151.
- Diefenbach, Attilio. Centrifugal decanter with horizontal axis, separating drum and discharge of residues by means of a scraper. 2,873,064, 2-10-59, Cl. 233-10.
- Diefenderfer, William E., to United Aircraft Corp. Fluid directing means for relief valve. 2,915,277, 12-1-59, Cl. 251-118.
- Dieffenbacher, George W., and O. A. Meykar, to General Electric Co. Fluid distribution system. 2,885,999, 5-12-59, Cl. 118-602.
- Die-Form Circuits of Delaware, Inc.: *See*—  
Zimmerman, Jack J. 2,878,475.
- Diehl, Charles, to The M. W. Kellogg Co. Apparatus for welding a joint. 2,910,572, 10-27-59, Cl. 219-60.
- Diehl, Glenn A., to Rota Parking, Inc. Shuttle-lift device for use in parking automobiles. 2,904,200, 9-15-59, Cl. 214-392.
- Diehl, Gordon H., to General Motors Corp. Counter-flow warm air furnace. 2,871,847, 2-3-59, Cl. 126-110.
- Diehl, Hans. Portable steam bath. 2,881,755, 4-14-59, Cl. 126-271.1.
- Diehl, Max H., to General Electric Co. Pulse detection method and apparatus. 2,874,217, 2-17-59, Cl. 178-69.5.
- Diehl, William L. Backing support for wall veneer. 2,882,713, 4-21-59, Cl. 72-19.
- Diehl, William L., and H. S. Bell, to Wheeling Steel Corp. Continuous hot dip galvanizing of metal strip. 2,875,096, 2-24-59, Cl. 117-131.
- Diehr, Charles A. Archery bow. 2,900,973, 8-25-59, Cl. 124-24.
- Diels, Albert, and H. Orth, to Poudreries Reunies de Belgique S. A. Apparatus for molding plastic explosive materials. 2,874,604, 2-24-59, Cl. 86-1.
- Diem, Hugh E., and H. Tucker, to The B. F. Goodrich Co. Process for polymerizing conjugated diolefins using a mixture of metallic lithium and alkyl lithium as the catalyst. 2,913,444, 11-17-59, Cl. 260-94.2.
- Diemakers Ltd.: *See*—  
Weiner, Morris. 2,884,634.
- Dieman, Edgar A., to Standard Oil Co. Accelerated condensation corrosion testing system. 2,897,060, 7-28-59, Cl. 23-253.
- Dieman, Edgar A., and J. W. Gaynor, to Standard Oil Co. Rust preventative compositions. 2,875,072, 2-24-59, Cl. 106-14.
- Dieman, Edgar A., and A. T. Swanson, to Standard Oil Co. Rust preventive composition. 2,893,880, 7-7-59, Cl. 106-14.



- Diemer, Fritz: *See*—  
Vogt, Ernst, and Diemer. 2,895,103.
- Diemer, Fritz, to EMA A-G. Electric measuring instrument. 2,870,410, 1-20-59, Cl. 324-141.
- Diemer, Gerhard H.: *See*—  
Julian, Percy L., Cole, and Diemer. 2,876,237.
- Diemer, Giesinus, and J. G. van Santen, to North American Philips Co., Inc. Image reproducing device. 2,882,419, 4-14-59, Cl. 250-213.
- Diemer, Giesinus, and H. J. Lemmens, to North American Philips Co., Inc. Electron tube for decimetre- and centimetre-waves. 2,887,606, 5-19-59, Cl. 313-256.
- Diener, Henry C., Jr., to Westinghouse Electric Corp. Electrical circuitry using static electromagnetic devices. 2,909,259, 10-20-59, Cl. 192-144.
- Diener, Richard. Chucking device for machine tools. 2,883,889, 4-28-59, Cl. 77-5.
- Diener, Richard, to Berliner Maschinenbau-Actien-Gesellschaft vormals L. Schwartzkopf. Apparatus for positioning a stop or other part of a machine, more particularly a machine tool. 2,901,917, 9-1-59, Cl. 74-472.
- Dierner, John A. Self-opening package. 2,911,129, 11-3-59, Cl. 222-83.
- Diepenhorst, Gerald, and M. S. Dunenfeld, to Ford Motor Co. Voltage regulator. 2,896,046, 7-21-59, Cl. 200-102.
- Dier, Stephen A., to Thompson Products, Inc. Stamped socket assembly. 2,910,316, 10-27-59, Cl. 287-90.
- Dierdorf, Paul R., to Union Carbide Corp. Acetylene relief valve. 2,884,004, 4-28-59, Cl. 137-522.
- Dierichs, Wolfgang: *See*—  
Kohler, Rudolf, and Dierichs. 2,881,161.  
Köhler, Rudolf, and Dierichs. 2,919,198.
- Dierker, Hugh E. Driving tool and holder attachment. 2,884,971, 5-5-59, Cl. 145-52.
- Dierksen, Adolph. Resilient valve lifters for engines. 2,882,877, 4-21-59, Cl. 123-90.
- Dierksen, Adolph. Combined timing gears and oil pump. 2,883,001, 4-21-59, Cl. 184-31.
- Dierstein, Roy H., to General Electric Co. Core member for inductive device. 2,907,966, 10-6-59, Cl. 336-165.
- Dierstein, Roy H., and W. L. R. Henderson, to General Electric Co. Enclosure for electrical device. 2,878,301, 3-17-59, Cl. 174-50.
- Diesbach, F. B.: *See*—  
Becker, Aloysius. 2,883,210.  
Diesbach, Frederick B. 2,917,324.
- Diesbach, Frederick B., to B. Benninghofen and F. B. Diesbach, trustees. Manifolding stationery. 2,917,324, 12-15-59, Cl. 282-3.
- Diesel, John W., to Erdco Inc. Electrostatic relays and controls. 2,885,509, 5-5-59, Cl. 200-87.
- Diesel, John W., to Erdco, Inc. Electrostatic relays. 2,885,511, 5-5-59, Cl. 200-87.
- Diesen, Anton K., and W. J. H. Adenstedt, to Telefonaktiebolaget L M Ericsson. Semi-automatic telephone exchange. 2,889,412, 6-2-59, Cl. 179-27.
- Diesfeld, Franz, to J. P. Sauer & Sohn, Gesellschaft mit beschränkter Haftung. Device for the shifting of gear speed in motor vehicle by the use of eddy-current-clutches. 2,916,944, 12-15-59, Cl. 74-472.
- Dietch, Leonard: *See*—  
Stark, John, Jr., and Dietch. 2,872,617.
- Dietch, Leonard, to Radio Corp. of America. Cathode ray beam deflection apparatus. 2,869,029, 1-13-59, Cl. 315-27.
- Dietch, Leonard, to Radio Corp. of America. Signal operated automatic color-killer system. 2,906,814, 9-29-59, Cl. 178-54.
- Dieterich, Richard E., and F. A. Werstein, to Phillips Drill Co. Combined handle and key for a percussive drill. Re. 24,639, 4-21-59, Cl. 121-36.
- Dieterle, Paul, to General Aniline & Film Corp. Duplicating machine. 2,918,858, 12-29-59, Cl. 95-94.
- Dietert, Harry W., Co.: *See*—  
Dietert, Harry W., and Micksch. 2,902,681.  
Dietert, Harry W. and R. L. 2,886,868.
- Dietert, Harry W. and R. L., to Harry W. Dietert Co. End point moisture content control apparatus for sand. 2,886-868, 5-19-59, Cl. 22-89.
- Dietert, Harry W., and J. E. Micksch, to Harry W. Dietert Co. Graphic control panel. 2,902,681, 9-1-59, Cl. 340-225.
- Dietert, Randolph L.: *See*—  
Dietert, Harry W. and R. L. 2,886,868.
- Dietrich, Alfred: *See*—  
Kuss, Ernst, Emert, Dietrich, Elbel, and Zirngibl. 2,910,348.
- Dietrich, Arnold K., to Link Aviation, Inc. Low noise contact modulator. 2,919,322, 12-29-59, Cl. 200-90.
- Dietrich, Howard H., to General Motors Corp. Degasser. 2,868,521, 1-13-59, Cl. 261-41.
- Dietrich, Howard H., and L. W. Paterson, to General Motors Corp. Carburetor. 2,908,363, 10-13-59, Cl. 192-084.
- Dietrich, Leo, to Metallgesellschaft Akt., A. G. Separation of dust from sinter waste gas. 2,876,864, 3-10-59, Cl. 183-114.
- Dietrich, Paul, to Maschinenfabrik Augsburg-Nürnberg A.G. Series offset rotary printing press. 2,887,045, 5-19-59, Cl. 101-177.
- Dietrich, William G., and J. A. Shaw, to Essex Corp. Ball pen. Re. 24,649, 5-12-59, Cl. 120-42.03.
- Dietsch, Arne K.: *See*—  
Brunberg, Gunnar K., and Dietsch. 2,871,307.
- Dietsch, Francis W.: *See*—  
Musser, C. Walton, and Dietsch. 2,873,648.
- Dietsch, Frank W., and C. W. Musser, to United States of America, Army. Bias mechanism for matching the trajectories of guns. 2,876,679, 3-10-59, Cl. 89-41.
- Dietz, Albert: *See*—  
Cauwenberg, Winfred J., and Dietz. 2,879,131.  
Cauwenberg, Winfred J., and Dietz. 2,879,132.
- Dietz, Dorothy H.: *See*—  
Dietz, Harry F. 2,898,262.
- Dietz, Gerald E., to Baso Inc. Magnetic control structure. 2,881,366, 4-7-59, Cl. 317-198.
- Dietz, Gerald E., and A. J. Hilgert, to Baso Inc. Electromagnetic control device. 2,869,049, 1-13-59, Cl. 317-166.
- Dietz, Harry F., deceased, by D. H. Dietz, executrix, to E. I. du Pont de Nemours and Co. Compositions and methods. 2,898,262, 8-4-59, Cl. 167-22.
- Dietz, Henry G., to Henry G. Dietz Co., Inc. Multiple circuit timer with adjustable time intervals. 2,905,239, 9-22-59, Cl. 161-1.
- Dietz, Henry G., Co., Inc.: *See*—  
Dietz, Henry G. 2,905,239.
- Dietz, Karl, H. Greune, and R. Stroh, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Aqueous slurry of comminuted argillaceous limestone material and process of producing same. 2,905,565, 9-22-59, Cl. 106-100.
- Dietz, R. E., Co.: *See*—  
Stube, Fred F. 2,918,668.
- Dietz, Richard E., to Phillips Petroleum Co. Method of recovering hydrogenated rubbery polymers in crumb form. 2,905,658, 9-22-59, Cl. 260-85.1.
- Dietze, Arthur. Toy roundabout. 2,910,295, 10-27-59, Cl. 272-31.
- Dietzgen, Eugene, Co.: *See*—  
Weegar, Ralph P., and Unkauf. 2,871,119.  
Weegar, Ralph P., and Unkauf. 2,873,207.
- Dietzler, Andrew J., to The Dow Chemical Co. Bisphenols. 2,894,004, 7-7-59, Cl. 260-395.
- Dietzler, Andrew J., to The Dow Chemical Co. 4,4'-alkylidenebis-(2-tert-butyl phenols). 2,917,550, 12-15-59, Cl. 260-619.
- Dietzler, Andrew J., and F. Bryner, to The Dow Chemical Co.  $\alpha$ -substituted chlorocresols. 2,872,489, 2-3-59, Cl. 260-619.
- Dietzler, Andrew J., and E. C. Britton, to The Dow Chemical Co. Process for making hydrocarbonylmercaptophenones. 2,905,715, 9-22-59, Cl. 260-591.
- Diffusion Alloys Ltd.: *See*—  
Borgnon, Jean. 2,872,176.
- Di Gaetano, John. Heel for shoes. 2,879,610, 3-31-59, Cl. 36-34.
- Digby, James J.: *See*—  
Buxton, James E., and Digby. 2,903,892.
- Digby, James J., to Bendix Aviation Corp. Engine starter drive. 2,880,619, 4-7-59, Cl. 74-7.
- Digby, James J., to Bendix Aviation Corp. Engine starter gearing. 2,901,912, 9-1-59, Cl. 74-7.
- Digby, James J., to Bendix Aviation Corp. Engine starter drives. 2,902,864, 9-8-59, Cl. 74-7.
- Digby, James J., to Bendix Aviation Corp. Engine starter gearing. 2,914,951, 12-1-59, Cl. 74-9.
- Digby, James J., to Bendix Aviation Corp. Engine starter gearing. 2,915,904, 12-8-59, Cl. 74-7.
- Digby, James J., and M. P. Whitney, to Bendix Aviation Corp. Engine starter drive for internal combustion engines. 2,915,903, 12-8-59, Cl. 74-7.
- Dighera, George, and E. E. Bennett. Lamp tube changing tool. 2,910,320, 10-27-59, Cl. 294-20.
- Dight, Evelyn M. Combined skewer and thermometer. 2,898,845, 8-11-59, Cl. 99-421.
- Di Giacomo, Anthony J.: *See*—  
Castellini, Nello R., and Di Giacomo. 2,900,633.
- Di Giacomo, Erasmus. Wheel mounting tool. 2,877,912, 3-17-59, Cl. 214-332.
- Di Giovanni, Mario, to Stratham Instruments, Inc. Pressure transducer. 2,885,520, 5-5-59, Cl. 201-63.
- Di Giovanni, Mario M., to Statham Instruments, Inc. Motion sensing device. 2,889,526, 6-2-59, Cl. 338-2.
- Di Giovanni, Mario, to Statham Instruments, Inc. Electrical accelerometer. 2,909,744, 10-20-59, Cl. 338-6.
- Di Giovanni, Mario, to Statham Instruments, Inc. Electrical strain wire transducer. 2,918,641, 12-22-59, Cl. 338-4.
- Di Giovanni, Norman P. Accelerator foot control and adjustment mechanisms. 2,908,183, 10-12-59, Cl. 74-513.
- Digitac, Inc.: *See*—  
Nemeth, Otto R. 2,884,792.
- Digital Control Systems, Inc.: *See*—  
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Cooley, Austin G. 2,907,826.  
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Steele, Floyd G. 2,898,040.  
Steele, Floyd G. 2,898,578.  
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Steele, Floyd G. 2,910,584.  
Steele, Floyd G. 2,912,684.  
Steele, Floyd G. 2,914,681.
- Digital Techniques, Inc.: *See*—  
Engelbart, Douglas C. 2,869,036.
- Digney, Frank J., Jr., and F. Bevilacqua, to United States of America, Atomic Energy Commission. Velocity indicator for extrusion press. 2,881,391, 4-7-59, Cl. 234-70.



- Dihydrol Co.: See—  
Smits, Clarence W. 2,868,904.
- Dijksterhuis, Popko R., and A. R. Hovingh, to North American Philips Co., Inc. Vacuum tube. 2,918,596, 12-22-59, Cl. 313—257.
- Dijkstra, Hendrik, and B. S. Sieswerda, to Stamicarbon N.V. Specific radiation absorption capacity measurement of a solid substance. 2,914,676, 11-24-59, Cl. 250—83.3.
- Dijkstra, Renger, to Shell Development Co. Alkylation of ortho-alkyl phenols. 2,874,193, 2-17-59, Cl. 260—624.
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- Dike, Thompson & Sanborn: See—  
St. John, Sylvester L. 2,902,397.
- Dilday, Sidney A. Concrete pipe making and laying machine. 2,878,544, 3-24-59, Cl. 25—32.
- Dilke, Max H., to The Distillers Co. Ltd. Plasticized linear polyethylene composition. 2,881,148, 4-7-59, Cl. 260—33.6.
- Dill, Bert L. Combination shock absorber, elevator and depressor for motor vehicles. 2,902,288, 9-1-59, Cl. 280—43.23.
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- Dille, Kenneth L.: See—  
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- Dille & McGuire Mfg. Co.: See—  
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- Dillen, Warren A., to Reynolds Metals Co. Display frame having detachable interlocking joints. 2,869,263, 1-20-59, Cl. 40—155.
- Dillenburg, Albert, to Procedo G.m.b.H. Noiseless piston device. 2,912,069, 11-10-59, Cl. 188—88.
- Dilling, Elmer D.: See—  
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- Dilling, Elmer D., to Titanium Metals Corp. of America. Electrode sealing and power connection apparatus. 2,871,178, 1-27-59, Cl. 204—246.
- Dilling, Elmer D., to Titanium Metals Corp. of America. Electrode handling and storing apparatus. 2,897,129, 7-28-59, Cl. 204—225.
- Dilling, Marion R.: See—  
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- Dillingham, Frederick L., to Soderhamn Machine Mfg. Co. Debarking rotor having cushioned flails. 2,867,252, 1-6-59, Cl. 144—208.
- Dillingham, Frederick L., to Soderhamn Machine Mfg. Co. Means for moving elongated objects transversely of the line of travel thereof. 2,870,899, 1-27-59, Cl. 198—25.
- Dillman, Earnest J., to American Radiator & Standard Sanitary Corp. Control device. 2,887,888, 5-26-59, Cl. 74—97.
- Dillon, Ambrose P. Electrical circuit breakers. 2,886,670, 5-12-59, Cl. 200—116.
- Dillon, Oscar W.: See—  
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- Dillon, Vincent J. Printing press sheet registry indicator. 2,867,794, 1-6-59, Cl. 340—259.
- Dillon, Walter E., Jr. Toy water pistol. 2,915,221, 12-1-59, Cl. 222—79.
- Dillon, Wendell M., to Watts Regulator Co. Air line lubricator. 2,887,181, 5-19-59, Cl. 184—55.
- Dillonaire, Allen E., to The Louis Allis Co. Motor control circuit for constant cutting speed lathe. 2,891,206, 6-16-59, Cl. 318—145.
- Di Loreto, Albert. Window ventilating fan. 2,885,946, 5-12-59, Cl. 98—94.
- Dilts, Lee E.: See—  
Flaws, John, Jr., and Dilts. 2,880,347.  
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- Di Luco, Eugene. Ribbon inserter. 2,895,586, 7-21-59, Cl. 197—172.
- Dilworth, David I., Jr.: See—  
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- Dilworth, J. E., Co.: See—  
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- Dilworth, John P.: See—  
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- Dilworth, John P., T. B. Jordan, and B. L. Bengt, to The Texas Co. Method of grease manufacture which comprises shearing the grease mixture at high temperatures. 2,886,525, 5-12-59, Cl. 252—32.
- Dilworth, Richard M., to General Motors Corp. Railway vehicle truck. 2,874,648, 2-24-59, Cl. 105—185.
- Dim, Jacob, and M. Kurnow. Painting device. 2,889,804, 6-9-59, Cl. 118—504.
- Di Marco, Aurelio, and C. Spalla, to Società Farmaceutici Italia. Process of producing cobalamines by fermenting culture media with nocardia rugosa. 2,886,490, 5-12-59, Cl. 195—80.
- Di Mattia, Samuel P., and J. N. Bruce, to United States of America, Army. Surge pressure absorber. 2,908,294, 10-13-59, Cl. 138—30.
- Dimick, Keene P., and B. Makower, to United States of America, Agriculture. Process for preparing a solid flavoring composition. 2,904,440, 9-15-59, Cl. 99—140.
- Dimitriadis, James C. Spring operated teeter totter. 2,873,118, 2-10-59, Cl. 272—55.
- Dimitriadis, James C. Children's riding toy. 2,919,131, 12-29-59, Cl. 272—30.
- Dimmer, Donald J. Fishing line propeller guard. 2,916,010, 12-8-59, Cl. 115—42.
- Dimmer, Robert P., to General Telephone Laboratories, Inc. Party line paystation. 2,883,462, 4-21-59, Cl. 179—6.3.
- Di Mola, Joseph, Jr. Automatic griddle cleaner. 2,871,636, 2-3-59, Cl. 51—241.
- Dimond, Harold L., and M. O. Shrader, to Pittsburgh Coke & Chemical Co. Process of preparing thiophosphoryl chloride. 2,911,281, 11-3-59, Cl. 23—14.
- Dimond, Merrill R. Inflatable tents. 2,895,490, 7-21-59, Cl. 135—1.
- Dimond, Thomas L., to Bell Telephone Laboratories, Inc. Selective signaling receiver. 2,919,428, 12-29-59, Cl. 340—167.
- Di Nardo, Frank L.: See—  
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- Dinden, Henry R., to Institute of Gas Technology. Cyclic regenerative process for catalytic gasification of petroleum. 2,907,647, 10-6-59, Cl. 48—214.
- Dinger, Alfons W., and H. G. E. Strelow, to Schoppe & Faeser G.m.b.H. Mechanical recording indicator. 2,885,254, 5-5-59, Cl. 316—17.
- Dingman, Neville W.: See—  
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- Dingman, Robert E. Wallet card holding and display book and clamp therefor. 2,888,055, 5-26-59, Cl. 150—39.
- Dings Magnetic Separator Co.: See—  
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- Di Nicola, Joseph. Horizontal type pulley for clotheslines. 2,910,272, 10-27-59, Cl. 254—190.
- Dinkelkamp, Henry T., to Stewart-Warner Corp. Pressure reducing valve. 2,917,073, 12-15-59, Cl. 137—495.
- Dinneen, Henry H.: See—  
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- Dinning, Robert W.: See—  
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- Di Noble, Dominic. Key holder. 2,897,866, 8-4-59, Cl. 150—40.
- Di Norscia, Gaetano A., to The B. F. Goodrich Co. Coating process preventing discoloration of chlorosulfonated polyolefin polymer coatings by vulcanization of an under coat of same. 2,881,098, 4-7-59, Cl. 117—162.
- Dinowitz, Edward E., to Radio Corp. of America. Magnetic storage system. 2,911,630, 11-3-59, Cl. 340—174.
- Dinsmore, David W.: See—  
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- Dinsmore, Thomas L., and A. G. Thorp II, to McGraw-Edison Co. Mounting of sheet records. 2,889,191, 6-2-59, Cl. 346—138.
- Dinstman, Hyman. Waterproof snap case for watches. 2,875,574, 3-3-59, Cl. 58—90.
- Dinwiddie, James A.: See—  
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- Dinwiddie, James A., M. A. Mosesman, and C. L. Thorpe, to Esso Research and Engineering Co. Cracking asphaltic materials. 2,882,221, 4-14-59, Cl. 208—111.
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- Diodati, Giacomo F., to Western Electric Co., Inc. Control system for flywheel equipped machines. 2,892,519, 6-30-59, Cl. 192—02.
- Diodati, Giacomo F., L. A. McCarthy, and J. C. Souter, to Western Electric Co., Inc. Apparatus for embedding electric units. 2,889,027, 6-2-59, Cl. 198—19.
- Dion, George C. Simulated animal tricycle adapter mechanism. 2,905,478, 9-22-59, Cl. 280—1.188.
- Dion, Vincent L.: See—  
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- Di Pasquale, Renato, and C. M. Gold, to Yardney International Corp. Battery electrode structure. 2,905,738, 9-22-59, Cl. 136—6.
- Di Persio, Joseph M. Blackboard-eraser cleaner. 2,874,398, 2-24-59, Cl. 15—94.
- Dipert, Steven R. Adjustable support fixture. 2,869,244, 1-20-59, Cl. 33—180.
- Di Pietro, Carmelo V. Broiler. 2,881,695, 4-14-59, Cl. 99—416.
- Di Pietro, Henry, to Andy Brothers Tire Shop. Curing flap for recapping pneumatic tires. 2,873,479, 2-17-59, Cl. 18—45.
- Dippel, Cornelis J.: See—  
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- Di Russo, Amedeo: *See*—  
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- Di Salvo, Beatrice G. Color guide and harmony selector. 2,916,833, 12-15-59, Cl. 35-28.3.
- Di Salvo, Walter A.: *See*—  
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- Di Santi, Nicholas, A. E. Canfora, and A. Liguori, to Radio Corp. of America. Signal distortion measuring system. 2,868,875, 1-13-59, Cl. 178-69.
- Dischert, Robert A., and R. G. Thomas, to Radio Corp. of America. Signal wave analyzer. 2,906,947, 9-29-59, Cl. 324-57.
- Disinger, Frank A., and J. W. Godfrey, to General Motors Corp. Evaporator arrangement. 2,874,555, 2-24-59, Cl. 62-525.
- Dispenza, Charles. Rain recording apparatus. 2,908,165, 10-13-59, Cl. 73-171.
- Dispenza, Michael. Piston, wrist pin and connecting rod assembly. 2,877,069, 3-10-59, Cl. 309-20.
- Diss, Edward M.: *See*—  
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- Diss, Edward M., and R. R. Walker, to The Dow Chemical Co. Method for heat treating oriented fibers of blended polyvinyl chloride polymers and cellulose acetate and products produced thereby. 2,877,084, 3-10-59, Cl. 8-130.1.
- Disson, Stanley B., to Burroughs Corp. Compensation means in magnetic core systems. 2,876,442, 3-3-59, Cl. 340-174.
- Disson, Stanley B., and P. Winsor, III, to Burroughs Corp. Pulse duration indicator. 2,915,702, 12-1-59, Cl. 324-68.
- Di Stefano, John R., to Thompson Ramo Wooldridge, Inc. Submerged booster pump. 2,887,959, 5-26-59, Cl. 103-113.
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- Davies, Drury N., and Bull. 2,873,226.
- Dilke, Max H. 2,881,148.
- Elce, Alec, Poulson, and Craven. 2,916,422.
- Fox, William J. 2,910,503.
- Gasson, Edward J., and Hadley. 2,904,552.
- Gasson, Edward J., and Hadley. 2,914,553.
- Graham, Archibald R. 2,884,451.
- Hall, Reginald H., and Graham. 2,870,221.
- Hamilton-Peters, Rodney, and Philip. 2,908,290.
- Hawkins, Edwin G. E. 2,879,311.
- Hawkins, Edwin G. E., and Watt. 2,903,469.
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- Lacey, Richard N. 2,871,257.
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- Millane, James J. 2,891,018.
- Millidge, Alfred F., and Robson. 2,907,699.
- Munday, Charles W. 2,884,543.
- Norrish, Ronald G. W. 2,902,420.
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- Short, John F. 2,907,923.
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- Distler, Edward C., to Jennings Machine Corp. Containers and methods of making them. 2,911,681, 11-10-59, Cl. 18-56.
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- Ditesheim, Bernard, to Fabriques Movado. Watch wound by enclosing sheath. 2,871,653, 2-3-59, Cl. 58-80.
- Dithmar, Karl, and E. Debus, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Printing ink compositions. 2,876,119, 3-3-59, Cl. 106-20.
- Dithmar, Karl, and U. Hoffmann, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for washing and bleaching compositions therefor. 2,898,181, 8-4-59, Cl. 8-137.
- Dithmar, Karl, and E. Naujoks, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Protection of polyamide fibers during treatment with peroxide containing bleaching or washing agents. 2,909,404, 10-20-59, Cl. 8-111.
- Di Tirro, Domenic A., and R. J. Cameron, to Ross Operating Valve Co. Control system for fluid actuated devices. 2,906,246, 9-29-59, Cl. 121-38.
- Ditlea, Joseph. Sealed oil packets and the like and methods of making same. 2,876,602, 3-10-59, Cl. 53-29.
- Ditmer, Clyde A., and R. A. Hirsch, to General Motors Corp. Variable pitch propeller and oil reservoir therefor. 2,891,627, 6-23-59, Cl. 170-160.23.
- Ditmer, Richard L.: *See*—  
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- Di Toro, Michael J., to International Telephone and Telegraph Corp. Communication system. 2,868,882, 1-13-59, Cl. 179-15.55.
- Ditter, Francis J., to Federal Hardware Products, Inc. Support. 2,900,158, 8-18-59, Cl. 248-166.
- Ditter, Francis J., to Sod-Master Corp. Sod cutting machine. 2,905,253, 9-22-59, Cl. 172-19.
- Ditter, Francis J., and W. C. Kaercher, Jr. Protective tape applicator. 2,873,789, 2-17-59, Cl. 154-1.
- Dittmar, Harry R.: *See*—  
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- Dittmayer, Wolfram K., Fastener. 2,876,519, 3-10-59, Cl. 24-205.13.
- Dittmore-Freimuth Corp.: *See*—  
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- Trickle, Russell W., Jr. 2,884,477.
- Dittmore, Ray H., W. Richter, D. Shadd, J. A. McMillan, and R. W. Trickle, Jr., to Dittmore-Freimuth Corp. Dielectric sheath splicing mold for coaxial cables. 2,885,735, 5-12-59, Cl. 18-36.
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- Di Tullio, Flavia, to Sacony Foundations, Inc. Brassieres. 2,896,632, 7-28-59, Cl. 128-484.
- Divco-Wayne Corp.: *See*—  
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- Dive, Pierre: *See*—  
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- Divers, Raymond T.: *See*—  
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- Dvorkovitz, Vladimir, Berst, and Leist. 2,878,190.
- Dvorkovitz, Vladimir, and Brooks. 2,890,960.
- Di Vette, Randolph E., to Minneapolis-Honeywell Regulator Co. Fluid filter apparatus. 2,885,026, 5-5-59, Cl. 183-7.
- Divine Brothers Co.: *See*—  
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- Divine, Ralph D., to American Cyanamid Co. Preparation of di-esters of sulfo-dicarboxylic acids. 2,879,214, 3-24-59, Cl. 204-158.
- Divine, Ralph D., and J. F. Yost, to American Cyanamid Co. Odor removal and stabilization of phosphate-containing pesticides. 2,879,284, 3-24-59, Cl. 260-461.
- Divine, Wayne J.: *See*—  
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- Di Vito, Salvatore S. Fountain comb and formula measuring and mixing device. 2,897,826, 8-4-59, Cl. 132-114.
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- Dix, Cyril H., and V. A. Heathcote, to The M-O Valve Co. Ltd. Magnetrans. 2,899,604, 8-11-59, Cl. 315-39.75.
- Dix, Edgar L. Printed circuit selector switch. 2,916,674, 12-8-59, Cl. 317-112.
- Dix, Herbert. Jet operated rotary lifting vehicle. 2,871,954, 2-3-59, Cl. 170-135.4.
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- Dixie Products, Inc.: *See*—  
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- Pellegrin, Elmer D. 2,879,760.
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- Dixon, Eric W. C., and R. Fowler, to Placket Closing Corp. of America. Sewing machine foot for use in sewing concealed sliding clasp fasteners. 2,909,136, 10-20-59, Cl. 112-235.
- Dixon, George F., Jr. Rapid sinking articulated revetment. 2,876,628, 3-10-59, Cl. 61-38.
- Dixon, George M.: *See*—  
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- Dixon, Harold F. E.: *See*—  
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- Dixon, Henry O.: *See*—  
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- Dixon, Irma G., and B. F. Thornton, Jr. Underarm perspiration pad. 2,911,647, 11-10-59, Cl. 2-53.
- Dixon, James K., S. Du Breuil, and N. L. Boardway, to American Cyanamid Co. Dialkyl pyrazinyl phosphorothioates. 2,918,468, 12-22-59, Cl. 260-250.
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- Dixon, Lawrence D. Automatic cut-off nozzle. 2,882,939, 4-21-59, Cl. 141-209.
- Dixon, Max D. Floral spray holder. 2,917,256, 12-15-59, Cl. 248-27.8.
- Dixon, Paul H., to Dixon Automatic Tool, Inc. Feed control mechanism. 2,911,081, 11-3-59, Cl. 193-40.
- Dixon, Richard L., 50% to V. B. Dixon. Label applying machine. 2,893,586, 7-7-59, Cl. 216-12.
- Dixon, Robert R., to Westinghouse Electric Corp. Refrigeration apparatus. 2,901,872, 9-1-59, Cl. 53-28.
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- Dixon, Stanley, to E. I. du Pont de Nemours and Co. Fluorolefins and process for preparing them. 2,874,166, 2-17-59, Cl. 260—346.1.
- Dixon, Stanley, to E. I. du Pont de Nemours and Co. Perfluorostyrene derivatives. 2,874,197, 2-17-59, Cl. 260—651.
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- Dixon, Sue M.: *See—*
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- Dixon, Thomas P., and S. E. Howse, to Technicolor Corp. Automatic print timer. 2,897,259, 7-28-59, Cl. 178—5.2.
- Dixon, Thomas R., to The Enzymic Malt Co. Ltd. Process for the production of acidified malt. 2,903,399, 9-8-59, Cl. 195—70.
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- Djerassi, Carl, and G. Rosenkranz, to Syntex S.A. Pregnane derivatives. 2,899,427, 8-11-59, Cl. 260—239.55.
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- Glugi, Bertha A. Sanitary appliance for birds. 2,882,858, 4-21-59, Cl. 119—143.
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- Doak, Kenneth W., to Koppers Co., Inc. Styrene polymerization process. 2,907,756, 10-6-59, Cl. 260—93.5.
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- Doane Agricultural Service, Inc.: *See—*
- Garrison, Harold K., and Locke. 2,884,670.
- Doane, Harry C.: *See—*
- Boylan, Henry W., Doane, and McManama. 2,893,700.
- Boylan, Henry W., Doane, and Muller. 2,883,161.
- Doane, Malcolm E.: *See—*
- Hardman, Kenneth V., Lang, and Doane. 2,913,751.
- Doane, Wright D. Herring harness. 2,894,351, 7-14-59, Cl. 43—44.6.
- Doban, Robert C., to E. I. du Pont de Nemours and Co. Method for the preparation of cementable fluorocarbon polymer surfaces. 2,871,144, 1-27-59, Cl. 117—138.8.
- Doban, Robert C., to E. I. du Pont de Nemours and Co. Method for the preparation of cementable fluorocarbon polymer surfaces. 2,906,658, 9-29-59, Cl. 154—139.
- Dobbins, Eugene V.: *See—*
- Brown, Ernest K., Dobbins, and Burge. 2,886,506.
- Dobbratz, Edward J., and A. M. Ellington,  $\frac{1}{4}$  to J. E. Dobbratz and  $\frac{1}{4}$  to L. F. Ellington. Metallic slides for facilitating the extending of table tops and the like. 2,872,261, 2-3-59, Cl. 311—71.
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- Dobbs, David L., R. F. Gill, Jr., and R. B. Howes, to Lewco, Inc. Silver plating bath. 2,883,288, 4-21-59, Cl. 106—1.
- Dobbs, David L., R. F. Gill, Jr., and R. B. Howes, to Research Laboratories, Inc. Irreversible temperature change color indicator. 2,892,798, 6-30-59, Cl. 252—408.
- Dobbs, Ira D.: *See—*
- Olson, Mark W., Fournier, and Dobbs. 2,873,227.
- Dobbs, Frank G. and S. H. Releasable container holder. 2,899,999, 8-18-59, Cl. 150—34.
- Dobbs, Stephan H.: *See—*
- Dobbs, Frank G. and S. H. 2,899,999.
- Dobbs, William G.: *See—*
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- Dobell, Curzon, to The Preload Co., Inc. Method of making prestressed structural member. 2,887,762, 5-26-59, Cl. 29—155.
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- Dobkin, Israel T., to Allied Block Chemical Co. Container supporting and retaining bracket. 2,883,139, 4-21-59, Cl. 248—311.
- Dobkin, William J. Powder dispensers. 2,878,970, 3-24-59, Cl. 222—181.
- Dobkin, William J., to American Dispenser Co., Inc. Soap dispensers. 2,878,974, 3-24-59, Cl. 222—321.
- Dobkin, William J. Safety devices for projecting bath wall fixtures. 2,913,731, 11-24-59, Cl. 4—1.
- Doble, Warren: *See—*
- McCray, Maurice C., and Doble. 2,918,011.
- Doble, Warren, to Jabsco Pump Co. Impeller-shaft connection. 2,892,646, 6-30-59, Cl. 287—53.
- Dobleske, Walter, to M. Turchan, d.b.a. Turchan Follower Machine Co. Dial feed control for tracers. 2,891,573, 6-23-59, Cl. 137—553.
- Dobmeier, Paul. Portable lunch warmer. 2,889,443, 6-2-59, Cl. 219—35.
- Dobner, Reinhold: *See—*
- Braun, Oskar, Dobner, and Winz. 2,910,028.
- Dobosy, Elmer A., to Chase Brass & Copper Co., Inc. Coil-removal guide means for bull-blocks. 2,885,060, 5-5-59, Cl. 198—29.
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- Linsday, Elton A., and Dobras. 2,901,655.
- Dobratz, Elmer H., to Koppers Co., Inc. Activation of aluminum. 2,892,738, 6-30-59, Cl. 134—2.
- Dobratz, Elmer H., to Koppers Co., Inc. Activation of aluminum. 2,908,562, 10-13-59, Cl. 75—68.
- Dobratz, Irvin W.: *See—*
- Csendes, Ernest, and Dobratz. 2,885,392.
- Dobratz, Robert E. Disposable trap. 2,869,280, 1-20-59, Cl. 43—77.
- Dobrick, Herbert O., to Bendix Aviation Corp. Liquid-gas converter system. 2,884,943, 5-5-59, Cl. 137—202.
- Dobrick, Herbert O., to Bendix Aviation Corp. Automatic pressure operated valve. 2,885,173, 5-5-59, Cl. 251—61.
- Dobrick, Herbert O., to Bendix Aviation Corp. Check valve. 2,909,192, 10-20-59, Cl. 137—542.
- Dobrick, Joseph: *See—*
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- Dobrin, Edward P., and G. Becker, to Weksler Instrument Corp. Adjustable-length thermometer. 2,875,614, 3-3-59, Cl. 73—368.
- Dobrin, Milton B., to Socony Mobil Oil Co., Inc. Elimination of near surface reflection effects. 2,882,988, 4-21-59, Cl. 181—5.
- Dobrohruska, Jindrich, to Vyzkumny a zkusebni letecky ustav. Transmission gear for a combined device. 2,880,628, 4-7-59, Cl. 74—810.
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- Dobrovoly, Henry. Electron tube analyzer. 2,903,643, 9-8-59, Cl. 324—23.
- Dobrowolski, Raymond M., and D. C. Seeley, to International Telephone and Telegraph Corp. Selenium rectifier. 2,912,353, 11-10-59, Cl. 117—200.
- Dobry, Joseph E.: *See—*
- Benedict, Walter E., and Dobry. 2,880,464.
- Dobson, Austin: *See—*
- Scrags, Ernest P. R., and Dobson. 2,872,769.
- Dobson, Franklin A., and N. O. Mykelstad, to North American Aviation, Inc. Method for producing corrugated core sandwich-type structural material. 2,881,304, 4-7-59, Cl. 219—117.
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- Dobson, Joseph E., to Keuffel & Esser Co. Surveyor's target. 2,913,827, 11-24-59, Cl. 33—74.
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- Dodd, Arthur E., to Westinghouse Air Brake Co. Apparatus for providing protection against momentary loss of track circuit shunt. 2,902,593, 9-1-59, Cl. 246—41.
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- Dodds, Earl B.: *See—*
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- Dodds, Frank D., to Artloom Carpet Co., Inc. Pile faced fabric. 2,913,803, 11-24-59, Cl. 28—78.



- Dodds, Harry W.: *See*—  
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- Dodds, Irvine. Margin setting attachment for typewriters. 2,872,012, 2-3-59, Cl. 197-63.
- Dodds, Robert B., K. H. Conley, and S. Manicone, to Safety Industries, Inc. Centrifugal impacting machine. 2,867,387, 1-6-59, Cl. 241-275.
- Dodds, Robert B., K. H. Conley, and R. B. Seidel, to Safety Industries, Inc. Centrifugal impact milling process of impact milling. 2,879,004, 3-24-59, Cl. 241-7.
- Dodds, Wellesley J., to Radio Corp. of America. Traveling wave tube. 2,887,609, 5-19-59, Cl. 315-3.6.
- Dodge, Adiel Y. Air conditioning systems, combined cooling and warming. 2,873,583, 2-17-59, Cl. 62-179.
- Dodge, Adiel Y., to Borg-Warner Corp. One way clutch and bearing. 2,879,869, 3-31-59, Cl. 192-45.1.
- Dodge, Adiel Y. Transmissions. 2,881,642, 4-14-59, Cl. 74-751.
- Dodge, Adiel Y. Transmission. 2,892,363, 6-30-59, Cl. 74-677.
- Dodge, Adiel Y. Variable speed drive. 2,916,024, 12-8-59, Cl. 123-41.11.
- Dodge, Adiel Y. Variable speed drive. 2,917,937, 12-22-59, Cl. 74-336.
- Dodge Chemical Co., The: *See*—  
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- Dodge, Eugene R., R. E. Kleint, C. H. Krummel, and L. C. Stuhlmiller, to Tecpo, Inc. Triggering device. 2,891,478, 6-23-59, Cl. 102-70.2.
- Dodge Mfg. Corp.: *See*—  
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- Dodge, Milton,  $\frac{1}{2}$  to A. Okrend. Infant feeding device. 2,868,202, 1-13-59, Cl. 128-252.
- Dodge, Paul E. Awning type window. 2,916,782, 12-15-59, Cl. 70-42.
- Dodge, Raymond A., to Clark Equipment Co. Device for lifting and transporting bundled material. 2,902,183, 9-1-59, Cl. 214-392.
- Dodge, Robert D. Base structure for centrifugal machines. 2,875,967, 3-3-59, Cl. 248-22.
- Dodge, Robert J., to Buoyis, Inc. Off-shore gas flare line, and anchor and float therefor. 2,894,269, 7-14-59, Cl. 9-8.3.
- Dodge, Robert W. Materials handling machine. 2,883,772, 4-28-59, Cl. 37-117.5.
- Dodge, Robert W. Collapsible cab structure. 2,919,156, 12-29-59, Cl. 296-107.
- Dodge, Ronald D., to International Business Machines Corp. Decelerating mechanism. 2,879,879, 3-31-59, Cl. 197-183.
- Dodge, Ronald D., to International Business Machines Corp. Type bar trip mechanism. 2,897,941, 8-4-59, Cl. 197-17.
- Dodge, Ronald D., to International Business Machines Corp. Drive mechanism. 2,909,935, 10-27-59, Cl. 74-27.
- Dodge, Ronald D., and N. D. Walton, to International Business Machines Corp. Rotary proportional escapement. 2,903,304, 9-22-59, Cl. 197-84.
- Dodge, William L. Combined color mixing chart and palette. 2,878,590, 3-24-59, Cl. 35-28.5.
- Dodge, William W., and O. L. Hibbard, to International Business Machines Corp. Card positioning means. 2,877,081, 3-10-59, Cl. 346-85.
- Dodge, William W., and E. J. Ryan, Jr., to International Business Machines Corp. Toll ticket dispensers. 2,896,531, 7-28-59, Cl. 101-19.
- Dodgen, Durward F., Jr.: *See*—  
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- Dodin, Lucien J. E. A., to Zeiss Ikon A.G. Verifier finder system for reflex cam. 2,887,019, 5-19-59, Cl. 95-42.
- Dodington, Sven H. M.: *See*—  
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- Dodington, Sven H. M., to International Telephone and Telegraph Corp. Transmitter-receiver tuning system. 2,877-344, 3-10-59, Cl. 250-13.
- Dodington, Sven H. M., to International Telephone and Telegraph Corp. Pulse transmitting and receiving system using a common source of oscillations. 2,916,614, 12-8-59, Cl. 250-15.
- Dodington, Sven H. M., and B. B. Mahler, to International Telephone and Telegraph Corp. Distance measuring equipment. 2,912,686, 11-10-59, Cl. 343-7.3.
- Dods, Jean E. J.: *See*—  
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- Dodson, Guy R., to Electric Steel Foundry Co. Flight fixture assembly. 2,910,170, 10-27-59, Cl. 198-200.
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- Dodson, Raymond M.: *See*—  
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- Dodson, Raymond M., to G. D. Searle & Co. 3,11,20-trioxygenated 16-nitromethylpregnene derivatives. 2,913,466, 11-17-59, Cl. 260-397.3.
- Dodson, Raymond M., and R. C. Tweit, to G. D. Searle & Co. 1-acylthio substitution products of 3,17-dioxygenated androstane derivatives. 2,875,215, 2-24-59, Cl. 260-397.4.
- Dodson, Raymond M., and P. B. Sollman, to G. D. Searle & Co. Steroidal sulfonium salts. 2,882,281, 4-14-59, Cl. 260-397.3.
- Dodson, Raymond M., and P. B. Sollman, to G. D. Searle & Co. 17-alkylsulfonyl and 17-alkylsulfinyl estratrien-3-ols. 2,882,283, 4-14-59, Cl. 260-397.5.
- Dodson, Raymond M., and R. C. Tweit, to G. D. Searle & Co. 1a,7a-di (acylthio) substitution products of 4-pregnene-3,20-diones. 2,889,345, 6-2-59, Cl. 260-397.45.
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- Dodson, Rowland W., Jr.: *See*—  
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- Dodsworth, James W., to Monroe Calculating Machine Co. Full stroke positive feed printing platen. 2,902,134, 9-1-59, Cl. 197-114.
- Dodwell, John M. Clutch. 2,895,577, 7-21-59, Cl. 192-41.
- Dodwell, John M. Clutch. 2,917,144, 12-15-59, Cl. 192-41.
- Doe, Robert E., R. E. Daniel, and G. C. Alvey, to California Research Corp. Method and apparatus for amplifying seismic signals. 2,871,970, 2-3-59, Cl. 181-5.
- Doe, Walter P., and L. W. Sly, to Fisher-Price Toys, Inc. Action toy. 2,908,998, 10-20-59, Cl. 46-113.
- Doedens, James D., to The Dow Chemical Co. Poly-(aromatic ether) compositions and method of making same. 2,911,380, 11-3-59, Cl. 260-2.5.
- Doeg, Ralph W. Tennis ball projecting machine. 2,918,915, 12-29-59, Cl. 124-1.
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- Doelman, Henry, to Eldema Corp. Indicator circuit. 2,876,387, 3-3-59, Cl. 315-171.
- Doelman, Henry, and R. B. Bonney, to United States of America, Navy. Direct current to digital coding and decoding system. 2,869,115, 1-13-59, Cl. 340-347.
- Doelp, Walter L., Jr., to Philco Corp. Fabrication of electrical units. 2,916,604, 12-8-59, Cl. 219-85.
- Doelz, Melvin L., to Collins Radio Co. Two end wire mechanical filter. 2,888,650, 5-26-59, Cl. 333-6.
- Doelz, Melvin L., and D. F. Babcock, to Collins Radio Co. High information capacity phase-pulse multiplex system. 2,905,812, 9-22-59, Cl. 250-8.
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- Doepke, Charles W., and B. S. Aston, to Nestier Corp. Feeder for dispensing small articles. 2,899,107, 8-11-59, Cl. 222-143.
- Doering, Felix F., Jr.: *See*—  
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- Doerner, Mona P., to The Dow Chemical Co. Method of increasing engine thrust. 2,901,886, 9-1-59, Cl. 60-35.4.
- Doerner, Otto, to Dormeyer Corp. Portable power drill. 2,876,369, 3-3-59, Cl. 310-77.
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- Doerpinghaus, Ernst H., to WASAG Chemie Aktiengesellschaft. Capacitor blasting detonating machine. 2,903,625, 9-8-59, Cl. 317-80.
- Doerr, Dale D., to Kaiser Aluminum & Chemical Corp. Floor construction. 2,907,417, 10-6-59, Cl. 189-34.
- Doerr, Dale D., and W. H. Grip, to Kaiser Aluminum & Chemical Corp. Container. 2,869,750, 1-20-59, Cl. 220-4.
- Doerr, Edward L.: *See*—  
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- Doerr, Edward L., to Monsanto Chemical Co. Process for the manufacture of (alkylmercapto) alkyl sulfates. 2,909,554, 10-20-59, Cl. 260-458.
- Doerr, Edward L., and V. R. Gaertner, to Monsanto Chemical Co. Organic thiosulfates. 2,892,861, 6-30-59, Cl. 260-453.
- Doerr, Edward L., and W. E. Weesner, to Monsanto Chemical Co. Polyglycol esters. 2,904,585, 9-15-59, Cl. 260-488.
- Doerr, Raymond S., to Dare Products, Inc. Machine for making barbed wire. 2,898,948, 8-11-59, Cl. 140-59.
- Doerr, Raymond S., to Dare Products, Inc. Barbed wire. 2,909,360, 10-20-59, Cl. 256-2.
- Doerr, Richard L.: *See*—  
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- Doerrfeld, Robert L., to Teletype Corp. Automatic telegraph station selector. 2,874,210, 2-17-59, Cl. 178-2.
- Doerrfeld, Robert L., and F. H. Fryksdale, to Teletype Corp. Line feed delete mechanism. 2,892,029, 6-23-59, Cl. 178-23.
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- Doesken, Henry. Electric control swinging drawer movement device. 2,885,252, 5-5-59, Cl. 312-223.



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- Oransky, Raymond L., and Doggett. 2,876,134.
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- Case, Noel L., and Dohanic. 2,890,887.
- Doherty, George O. Sterile package. 2,902,146, 9-1-59, Cl. 206-63.2.
- Doherty, James J., and C. M. McClure, to United States Rubber Co. Method of laminating vinyl film to sheet metal. 2,877,151, 3-10-59, Cl. 154-106.
- Doherty, Thomas H., and R. M. Melin, to United States Rubber Co. Device for forming a pleat in thermoplastic materials. 2,903,724, 9-15-59, Cl. 12-103.
- Doherty, William H., to Bell Telephone Laboratories, Inc. Electrical conductor having transposed conducting members. 2,886,628, 5-12-59, Cl. 174-34.
- Doherty, William H. Shoe arch support apparatus. 2,896,229, 7-28-59, Cl. 12-1.
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- Dohler, Oscar, and J. Nalot, to Compagnie Generale de Telegraphie Sans Fil. Travelling wave oscillator tubes. 2,888,597, 5-26-59, Cl. 315-3.5.
- Dohman, Kenneth O.: *See*—
- Bennett, Walter, and Dohman. 2,876,504.
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- Dohmen, Heinrich. Briquetting of ores. 2,914,394, 11-24-59, Cl. 75-3.
- Dohn, Leo F., to Guild Arts & Crafts, Inc. Plastic jewelry finding device made of two parts integrally joined. 2,893,095, 7-7-59, Cl. 24-265.
- Dohner, Carol J. Magnetic spoon for removing ferromagnetic particles from a medium. 2,873,027, 2-10-59, Cl. 210-222.
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- Doi, Midori. Cooling water circulating apparatus. 2,879,975, 3-31-59, Cl. 257-122.
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- Dolan, Francis D., to American-Lincoln Corp. Suction tank head. 2,884,185, 4-28-59, Cl. 230-117.
- Dolan, John E., K. J. Brimley, and P. B. Dempster, to Imperial Chemical Industries Ltd. Fuse. 2,891,475, 6-23-59, Cl. 102-27.
- Dolan, John P., Sr. Abrasive attachments for electric shavers. 2,917,056, 12-15-59, Cl. 132-75.8.
- Doland, George D., to Philco Corp. Receiver color primary transformation system. 2,868,871, 1-13-59, Cl. 178-5.4.
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- Kleist, Herman W. 2,889,694.
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- Dole Valve Co., The: *See*—
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- Bauerlein, Carl C. 2,873,714.
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- Rimsha, Victor E. 2,873,083.
- Rimsha, Victor E. 2,893,638.
- Rimsha, Victor E., and Couffer. 2,893,425.
- Rimsha, Victor E., and Kozel. 2,905,386.
- Wolf, Forrest R., and Cerveney. 2,889,497.
- Doleman, Thomas. Pneumatic wheels for vehicles. 2,904,092, 9-15-59, Cl. 152-57.
- Dolenz, Stanley. Siphon breaker and backflow preventer. 2,878,826, 3-24-59, Cl. 137-216.
- Dolish, James A.: *See*—
- Parisoe, Wilbert, and Dolish. 2,887,889.
- Dolgorukov, Gregory S. Drafting instrument. 2,908,082, 10-13-59, Cl. 33-110.
- Dolhun, Leonard M., to Chicago Rawhide Mfg. Co. Self contained seals. 2,879,093, 3-24-59, Cl. 288-3.
- Dolhun, Leonard N.: *See*—
- Meyer, Walter W., Hicks, and Dolhun. 2,888,280.
- Dolida, Nicholas R.: *See*—
- Spitzli, Donald H., and Dolida. 2,897,625.
- Dolida, Nicholas R., to Curtiss-Wright Corp. Turbine cooling system. 2,883,151, 4-21-59, Cl. 253-39.15.
- Dolin, Martin, A. M. Scandurra, and N. M. Poulos, to Applied Research Inc. Coaxial line attenuator. 2,891,223, 6-16-59, Cl. 333-81.
- Dolinko, Louis: *See*—
- Wilkins, Henry J., and Dolinko. 2,889,501.
- Doliva, Joseph K. Television cabinet lighting fixture. 2,875,321, 2-24-59, Cl. 240-4.
- D'Olive, Charles R., to Chamberlain Corp. Sliding refrigerator shelf. 2,872,270, 2-8-59, Cl. 312-332.
- Doll, Gregory W. Spacer for packages. 2,905,315, 9-22-59, Cl. 206-46.
- Doll, Henri G., to Schlumberger Well Surveying Corp. Tabular function generator. 2,879,942, 3-31-59, Cl. 235-197.
- Doll, Henri-Georges, to Schlumberger Well Surveying Corp. Electro-optical function generator. 2,884,195, 4-28-59, Cl. 235-197.
- Doll, Henri-Georges, to Schlumberger Well Surveying Corp. Automatic computing apparatus. 2,915,242, 12-1-59, Cl. 235-61.6.
- Doll, Richard C., to United States Steel Corp. Adjustable form for repairing refractory around a taphole. 2,877,009, 3-10-59, Cl. 266-43.
- Dollar Savings & Trust Co.: *See*—
- Sampson, Ralph R. 2,879,909.
- Dollenberg, Frederick P. Spark plug. 2,899,585, 8-11-59, Cl. 313-143.
- Dollinger, Robert E., to Phillips Petroleum Co. Non premix burner for producing carbon black. 2,890,746, 6-16-59, Cl. 158-7.
- Dollison, William W., to Otis Engineering Corp. Balanced pilot valve. 2,902,046, 9-1-59, Cl. 137-467.
- Dollman, David Y.: *See*—
- Newhard, Nelson J., Jr., and Dollman. 2,909,455.
- Dollscheck, Charles W., to Philco Corp. Remote control for a signal transfer channel employing feedback means. 2,871,304, 1-27-59, Cl. 179-171.
- Dolman, Henry J., J. I. Hamilton, and J. A. S. Ball, to Brecknell Dolman & Rogers Ltd. Machine for filling foldable containers. 2,890,554, 6-16-59, Cl. 53-126.
- Dolnick, Benjamin I., to Rhea Mfg. Co. Wire garment hanger. 2,877,939, 3-17-59, Cl. 223-88.
- Dolnicki, Bohdan: *See*—
- Mueller, Josef, Dolnicki, and Manzinger. 2,915,720.
- Dolza, John: *See*—
- Chayne, Charles A., and Dolza. 2,916,027.
- Dolza, John, to General Motors Corp. Combustion chamber for internal combustion engine. 2,868,181, 1-13-59, Cl. 123-32.
- Dolza, John, to General Motors Corp. Refrigerating apparatus. 2,868,443, 1-13-59, Cl. 230-186.
- Dolza, John, to General Motors Corp. Valve means. 2,869,526, 1-20-59, Cl. 123-119.
- Dolza, John, to General Motors Corp. Charge forming means for an internal combustion engine. 2,871,842, 2-3-59, Cl. 123-119.
- Dolza, John, to General Motors Corp. Charge forming means. 2,874,944, 2-24-59, Cl. 261-36.
- Dolza, John, to General Motors Corp. Economy engine and method of operation. 2,875,742, 3-3-59, Cl. 123-119.
- Dolza, John, to General Motors Corp. Water jacket coring for casting internal combustion engine blocks. 2,880,485, 4-7-59, Cl. 22-167.
- Dolza, John. Fuel injection systems. 2,882,879, 4-21-59, Cl. 123-119.



- Dolza, John, and J. B. Burnell, to General Motors Corp. Cylinder block. 2,867,201, 1-6-59, Cl. 123-195.
- Dolza, John, and W. H. Kolbe, to General Motors Corp. Fuel injection system. 2,877,002, 3-10-59, Cl. 261-23.
- Dolza, John, and W. H. Kolbe, to General Motors Corp. Split engine. 2,878,798, 3-24-59, Cl. 123-127.
- Dolza, John, and A. J. Sagady, to General Motors Corp. Fuel distributing valve for fuel injection system. 2,879,046, 3-24-59, Cl. 261-23.
- Dolza, John, and W. H. Kolbe, to General Motors Corp. Fuel injection filter system. 2,886,057, 5-12-59, Cl. 137-434.
- Dolza, John, to General Motors Corp. Fuel injection system. 2,890,690, 6-16-59, Cl. 123-119.
- Dolza, John, to General Motors Corp. Charge forming means. 2,891,527, 6-23-59, Cl. 123-119.
- Dolza, John, to General Motors Corp. Fuel injection system. 2,909,165, 10-20-59, Cl. 123-52.
- Dolza, John, and S. H. Mick, to General Motors Corp. Idle air valve. 2,891,528, 6-23-59, Cl. 123-119.
- Dolza, John, and W. H. Kolbe, to General Motors Corp. Pump. 2,913,991, 11-24-59, Cl. 103-148.
- Signal modifier for fuel injection system. 2,914,051, 11-24-59, Cl. 123-119.
- Dom, George R. Shotgun shell case neck resizer. 2,868,058, 1-13-59, Cl. 86-23.
- Domagk, Gerhard: *See—*
- Brüning, Eberhard F., Domagk, and Mietzsch. 2,888,379.
- Gauss, Walter, Petersen, and Domagk. 2,868,782.
- Kühle, Engelbert, and Domagk. 2,906,755.
- Meiser, Werner, and Domagk. 2,882,275.
- Petersen, Siegfried, Gauss, and Domagk. 2,913,453.
- Domal, Stanley A., to Borg-Warner Corp. Heat exchanger. 2,878,656, 3-24-59, Cl. 62-290.
- Dombeck, Edward K., to Bendix Aviation Corp. Self-centering brake assembly. 2,885,032, 5-5-59, Cl. 188-79.5.
- Dombre, Pierre. Mixing valves. 2,898,938, 8-11-59, Cl. 137-635.
- Dome Chemicals, Inc.: *See—*
- Wershaw, Irving B. 2,876,164.
- Dome, Robert B., to General Electric Co. Saw-tooth wave generator. 2,871,357, 1-27-59, Cl. 250-36.
- Dome, Robert B., to General Electric Co. Sweep generator circuit. 2,874,291, 2-17-59, Cl. 250-36.
- Dome, Robert B., to General Electric Co. Controllable trap circuit for intercarrier sound television receiver. 2,880,269, 3-31-59, Cl. 178-5.8.
- Dome, Robert B., to General Electric Co. Angular modulation detector. 2,880,315, 3-31-59, Cl. 250-27.
- Dome, Robert B., to General Electric Co. Squelch-limiter circuit for color television. 2,909,593, 10-20-59, Cl. 178-5.4.
- Domenech, Gerardo A. and V. A., to Waldes Kohinoor, Inc. Fastening devices. 2,908,059, 10-13-59, Cl. 24-217.
- Domenech, Vicente A.: *See—*
- Domenech, Gerardo A. and V. A. 2,908,059.
- Domeshek, Sol. Field mask for stereoscopic projection on monocular projector. 2,906,036, 9-29-59, Cl. 35-25.
- Dominaire Constructions, Inc.: *See—*
- Cravens, Samuel V. 2,892,338.
- Dominion Corset Co. Ltd.: *See—*
- Gingras, Marcel. 2,887,113.
- Verreault, Joseph. 2,876,805.
- Verreault, Joseph. 2,881,764.
- Verreault, Joseph. 2,911,975.
- Dominion Electric Corp.: *See—*
- Burreson, Zina A. M. 2,901,587.
- Dominion Engineering Works Ltd.: *See—*
- Berlyn, Martin J. 2,882,966.
- Berlyn, Martin J. 2,885,954.
- Berlyn, Martin J. 2,903,061.
- Stewart, Alexander E. 2,869,436.
- Stewart, Alexander E. 2,903,060.
- Stewart, Alexander E., and Grater. 2,884,059.
- Dominion Fasteners Ltd.: *See—*
- Bradner, Ernest G. 2,910,155.
- Dominion Glass Co. Ltd.: *See—*
- Bauman, Thomas S. 2,876,733.
- Dominion Road Machinery Co. Ltd. The: *See—*
- Macdonald, John G. 2,882,620.
- Dominion Tar & Chemical Co. Ltd.: *See—*
- Gattiker, David C. G., Liang, and Schulz. 2,877,277.
- Dominion Textile Co. Ltd.: *See—*
- Johnson, Roland. 2,888,854.
- Domitrovic, William. Silo sealing cover. 2,888,717, 6-2-59, Cl. 20-1.4.
- Domizi, Dante J., to Clary Corp. Punched card sensing apparatus. 2,883,107, 4-21-59, Cl. 235-61.11.
- Domke, Richard, and W. Eikermann, to Glanzstoff-Courtaulds G.m.b.H. Apparatus for use in the wet spinning of artificial threads. 2,914,803, 12-1-59, Cl. 18-8.
- Domnick, Ludwig. Apparatus for the discharge of condensation water. 2,912,166, 11-10-59, Cl. 236-59.
- Domore Chair Co., Inc.: *See—*
- Shinn, Kenneth R. 2,915,351.
- Donahue, Daniel J., and S. A. Hoshowsky, to Radio Corp. of America. Water-stabilized zinc phosphate phosphors. 2,867,587, 1-6-59, Cl. 252-301.6.
- Donahue, Douglas J.: *See—*
- Horning, Wendell A., Lanning, and Donahue. 2,907,706.
- Donahue, John P., to D. & S. Processing Co., Inc. Method and apparatus for the production of flock-coated sheet material. 2,903,376, 9-8-59, Cl. 117-20.
- Donahue, William J., Jr., and L. E. Burkhardt, to United States of America, Navy. Missile nose fuze. 2,872,868, 2-10-59, Cl. 102-78.
- Donal, John S., Jr., and C. L. Cuccia, to Radio Corp. of America. Electron beam tubes and circuits therefor. 2,912,613, 11-10-59, Cl. 315-5.16.
- Donald, Alexander W., III, to Advanced Research Associates, Inc. Semiconductor amplifiers. 2,877,310, 3-10-59, Cl. 179-171.
- Donald, Harold J., to Reading Anthracite Co. Self braking electrode construction. 2,917,441, 12-15-59, Cl. 204-67.
- Donald, Philip J., to Minneapolis-Honeywell Regulator Co. Pressure transducer apparatus. 2,891,226, 6-16-59, Cl. 338-38.
- Donald, Russell S., R. L. Briggs, and J. J. Casey. Electric arc torch. 2,892,067, 6-23-59, Cl. 219-75.
- Donaldson Co., Inc.: *See—*
- Baden, Thomas A., Olson, Miller, and Copp. 2,907,406.
- Copp, Kenneth W., and Olson. 2,889,008.
- Cragg, Arthur C., and Schudt. 2,901,182.
- Mund, Mark G., and Anderson. 2,887,177.
- Sivesind, Hjalmer J., and Rowley. 2,918,789.
- Donaldson, David. Static balancer for rotating parts. 2,878,677, 3-24-59, Cl. 73-480.
- Donaldson, Donald J.: *See—*
- Cundiff, Winston H., and Donaldson. 2,868,523.
- Donaldson, George R.: *See—*
- Haensel, Vladimir, and Donaldson. 2,906,691.
- Haensel, Vladimir, and Donaldson. 2,906,699.
- Haensel, Vladimir, and Donaldson. 2,915,453.
- Donaldson, George R., to Universal Oil Products Co. Combination catalytic reforming-thermal reforming-fractionation process. 2,891,901, 6-23-59, Cl. 208-64.
- Donaldson, George R., to Universal Oil Products Co. Combination catalytic reforming-thermal reforming process. 2,915,454, 12-1-59, Cl. 208-64.
- Donaldson, George R., to Universal Oil Products Co. Combination catalytic reforming-catalytic dehydrogenation process. 2,915,455, 12-1-59, Cl. 208-65.
- Donaldson, George R., and V. Haensel, to Universal Oil Products Co. Production of aromatics in the presence of nitrogen compounds. 2,872,492, 2-3-59, Cl. 260-668.
- Donaldson, Godfrey R., to Australian Paper Manufacturers Ltd. Apparatus for continuous measurement of basis weight of paper, board or like fibrous material. 2,878,570, 3-24-59, Cl. 33-147.
- Donaldson, Harry C., Jr., to Cluett, Peabody & Co., Inc. Sewing machine with finger to control bobbin thread. 2,884,882, 5-5-59, Cl. 112-154.
- Donaldson, John S. Slide fastener closure with quick-operable installation connector means. 2,873,741, 2-17-59, Cl. 128-303.
- Donaldson, Ralph K. Boat anchor. 2,894,474, 7-14-59, Cl. 114-208.
- Donaldson, Robert D., to General Aniline & Film Corp. Process for manufacturing alpha-anthraquinonesulfonates containing low amounts of mercury. 2,900,397, 8-18-59, Cl. 260-370.
- Donaldson, Robert E., to Gulf Research & Development Co. Pretreatment of catalytic cracking feed to remove metals. 2,906,693, 9-29-59, Cl. 208-37.
- Donaldson, Walter E., and A. W. Hanson, to The Dow Chemical Co. Modification and control of plastic foam density and foam bodies obtained thereby. 2,899,708, 8-18-59, Cl. 18-48.
- Donaldson, Warren J., and J. C. Jacobs, Jr., to General Electric Co. Vibration-attenuating sealing structure. 2,873,411, 2-10-59, Cl. 317-99.
- Donaldson, William K., to Tootal Broadhurst Lee Co. Ltd. Testing of the crease resistance of textile fabrics. 2,909,921, 10-27-59, Cl. 73-100.
- Donaldson, William K., and D. Ainscough, to Tootal Broadhurst Lee Co. Ltd. Control of gaseous media in manufacturing processes. 2,870,628, 1-27-59, Cl. 73-29.
- Donan, John F., and D. J. Daugherty, to The National Cash Register Co. Computer input-output system. 2,902,214, 9-1-59, Cl. 235-61.7.
- Donath, Ernest E., to Koppers Co., Inc. Process of manufacturing iron-coke. 2,919,231, 12-29-59, Cl. 202-34.
- Donath, Erwin: *See—*
- Brinster, John F., and Donath. 2,868,449.
- Donath, Wilm E. Method and apparatus for producing purified water from aqueous saline solutions. 2,904,511, 9-15-59, Cl. 210-59.
- Donavy, Alain, to Compagnie Generale de Telegraphie Sans Fil. Adjustable inductance coils. 2,916,714, 12-8-59, Cl. 336-110.
- Doncaster, Daniel P., to Columbia Broadcasting System, Inc. Phonograph tone arm. 2,873,978, 2-17-59, Cl. 274-23.
- Donceel, Jules L. J.: *See—*
- Kruithof, Jakob, Nys, and Donceel. 2,892,134.
- Donceel, Jules L. J., and H. C. J. Van Der Hark, to International Standard Electric Corp. Electromagnetic transducer. 2,914,621, 11-24-59, Cl. 179-100.2.
- Donde Gorozpe, Raul. Apparatus for preparing a quick-cooking rice product from broken rice. 2,914,005, 11-24-59, Cl. 107-14.
- Dondes, Seymour: *See—*
- Harteck, Paul, and Dondes. 2,898,277.
- Donee, William W., Jr., to Gadget-Of-The-Month Club, Inc. Combination guide and gauge unit for portable drills. 2,891,428, 6-23-59, Cl. 77-55.



- Donegon, Roy E.: *See*—  
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- Donehower, William P., to M. H. and B. D. Hartzell. Space band cleaning apparatus. 2,866,990, 1-6-59, Cl. 15-93.
- Donehue, Val K. Vehicle fire extinguisher apparatus. 2,867,281, 1-6-59, Cl. 169-2.
- Doneit, Frederick. Program timing switch assembly. 2,874,239, 2-17-59, Cl. 200-38.
- Doner, Sherman R., to Raybestos-Manhattan, Inc. Brake cup for an hydraulic brake. 2,884,292, 4-28-59, Cl. 309-33.
- Donia, Robert A., and A. C. Ott, to The Upjohn Co. 19-nortestosterone phenyl alkanoates. 2,868,809, 1-13-59, Cl. 260-397.4.
- Donin, Milton N., J. Fried, and R. W. Thoma, to Olin Mathieson Chemical Corp. 11,15-dioxygenated progesterones. 2,881,189, 4-7-59, Cl. 260-397.3.
- Don-Itte Co.: *See*—  
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Kempen, Edward F. 2,901,378.
- Donkersvoort, Teunis, to Vennootschap onder Firma Exploitatie-Ofonderneming van Oetrootrechten Noortich. Method of welding or brazing aluminum. 2,916,815, 12-15-59, Cl. 29-504.
- Donkin, William H., to Godfrey Holmes (Plastics) Ltd. Storage containers for detonators. 2,868,360, 1-13-59, Cl. 206-3.
- Donlan, Theodore R., to Esso Research and Engineering Co. Anti-stalling gasoline agent. 2,872,303, 2-3-59, Cl. 44-72.
- Donley Bros. Co.: *See*—  
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- Donn Products, Inc.: *See*—  
Brown, Donald A. 2,903,104.
- Donnan, Robert A.: *See*—  
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- Donnard, Reed E., to United States of America, Army. Non-corrosive percussion primer material. 2,887,370, 5-19-59, Cl. 52-4.
- Donnay, Jacques, to Societe Nouvelle de l'Outillage R. B. V. et de la Radio-Industrie (R. B. V.-R. d.). Television camera equipments. 2,875,276, 2-24-59, Cl. 178-7.2.
- Donnay, Jacques R., to Societe Nouvelle de l'Outillage R. B. V. et de la Radio Industrie (R. B. V.-R. I.). Wave shaping network for television equipment. 2,872,509, 2-3-59, Cl. 178-7.1.
- Donnay, Jacques R., to Ste Nouvelle de l'Outillage R. B. V. et de la Radio-Industrie. Television cameras. 2,885,937, 5-12-59, Cl. 95-45.
- Donnay, Jacques R., to Societe Nouvelle de L'Outillage R.B.V. et de La Radio-Industrie S.A. Video mixer for television transmissions. 2,911,467, 11-3-59, Cl. 178-7.1.
- Donnell, Conard K.: *See*—  
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- Donnell, Conard K., R. M. Kennedy, and A. Schneider, to Sun Oil Co. Catalytic reforming process of selective fractions. 2,890,994, 6-16-59, Cl. 208-65.
- Donnell, Frederick L., to Saranac Machine Co. Tapered socket and plug therefor. 2,884,274, 4-28-59, Cl. 287-126.
- Donnell, John W.: *See*—  
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- Donnell, William F.: *See*—  
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- Donnelley, R. R., & Sons Co.: *See*—  
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Kile, Otho, and Treptow. 2,884,246.  
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- Donnelly, James J.: *See*—  
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- Donnelly, Jesse, to W. McC. Donnelly. Process of cold rolling steel sheets. 2,896,486, 7-28-59, Cl. 80-60.
- Donnelly, Lenore B.: *See*—  
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- Donnelly, Wallace McC.: *See*—  
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- Donner, Hans O. Diaphragm means for subcalibre non-spinning projectiles. 2,901,973, 9-1-59, Cl. 102-93.
- Donner, Verne P., W. W. Henning, and G. S. Allin, to International Harvester Co. Fluid power steering system. 2,917,125, 12-15-59, Cl. 180-79.2.
- Donnison, George H., to Abbott Laboratories. Manufacture of therapeutic substances. 2,876,225, 3-3-59, Cl. 260-257.
- D'Onofrio, Anthony, L. Cetran, and L. J. Lapointe, to Royal McBee Corp. Head rests for typewriters. 2,903,119, 9-8-59, Cl. 197-42.
- Donoghue, Robert J. Paint can closure means. 2,885,108, 5-5-59, Cl. 220-42.
- Donohue, John C., and J. De Fiore, to United States of America, Navy. Electrically non-conductive flange connector device for waveguides. 2,906,975, 9-29-59, Cl. 333-98.
- Donohue, John F.: *See*—  
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- Donovan, Allen F., to United States of America, Air Force. Vibration damping device for helicopter rotor blades. 2,892,502, 6-30-59, Cl. 170-160.13.
- Donovan, Bradford, and T. W. Neumann, to Northrop Aircraft, Inc. Self-integrating flicker control actuator. 2,871,709, 2-3-59, Cl. 74-54.
- Donovan, George C. Method and apparatus for reconditioning cylinder liners for diesel engines. 2,912,562, 11-10-59, Cl. 219-76.
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- Donovan, Joseph J., and T. H. Milliken, Jr., to Houdry Process Corp. Preparation of active contact masses from kaolin clays. 2,904,520, 9-15-59, Cl. 252-450.
- Donovan, Thomas S., to Eastman Kodak Co. Process of preparing 2-acyl-1-phenylhydrazides. 2,912,461, 11-10-59, Cl. 260-562.
- Donovick, Richard: *See*—  
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Dutcher, James D., Donovick, Heuser, Pagano, and Perlman. 2,916,484.  
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- Dooley, Harry H.: *See*—  
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- Doolin, Charles E., to The Frito Co. Shaping and cooking machines. 2,907,268, 10-6-59, Cl. 99-353.
- Dooling, Russell F. Sealing ring. 2,893,795, 7-7-59, Cl. 309-23.
- Doolittle, Donald. Typewriter attachment. 2,896,768, 7-28-59, Cl. 197-133.
- Doolittle, Donald B., to All American Engineering Co. Aircraft launching system. 2,872,132, 2-3-59, Cl. 244-63.
- Doolittle, Donald B., to All American Engineering Co. Aircraft barrier. 2,906,476, 9-29-59, Cl. 244-110.
- Doolittle, Donald B., and S. G. Keahey. Linearized engine for aircraft catapult. 2,906,475, 9-29-59, Cl. 244-63.
- Doolittle, Howard D., to Machlett Laboratories, Inc. Getter for electron tube. 2,900,549, 8-18-59, Cl. 313-178.
- Doolittle, Howard D., E. J. Naill, and B. H. Wadia, to Machlett Laboratories, Inc. Electron discharge device. 2,870,364, 1-20-59, Cl. 313-178.
- Doonan, John L.: *See*—  
O'Cathey, Earl R., and Doonan. 2,898,980.
- Doonan, William. Arrowhead construction. 2,912,247, 11-10-59, Cl. 273-106.5.
- Doorebos, Norman J., to General Aniline & Film Corp. Non-ionic benzimidazole cyanine dyes containing in  $\alpha$ -position a cyano group on the methenyl chain. 2,918,369, 12-22-59, Cl. 96-106.
- Doorn, Johannes H. Mondria, W. de Rijk, and W. P. Hendal, to Shell Development Co. Emulsion dewaxing of mineral oils accompanied by intensive agitation. 2,915,449, 12-1-59, Cl. 208-29.
- Dootson, Norman L., to W. M. Colombo. Nozzle-applicator for shaving lather. 2,897,526, 8-4-59, Cl. 15-139.
- Dopera, Rudolph. Adjustable kiln setter. 2,881,502, 4-14-59, Cl. 25-153.
- Doperalski, Eugene J.: *See*—  
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- Doperalski, Eugene J., to Joy Mfg. Co. Piston assembly. 2,895,774, 7-21-59, Cl. 309-38.
- Dopieralski, Edmund L., to General Dynamics Corp. Magnetic recording head structure. 2,911,483, 11-3-59, Cl. 179-100.2.
- Dopler, John L., to Phillips Petroleum Co. Chemical cleaning apparatus. 2,918,925, 12-29-59, Cl. 134-108.
- Doppelt, Charles. Carrying cases. 2,907,420, 10-6-59, Cl. 190-51.
- Doppstadt, Adolf: *See*—  
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- Doran, Charles: *See*—  
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- Doran, Donald P.: *See*—  
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- Doran, Donald P., to Continental Can Co., Inc. Folding paperboard carton. 2,912,154, 11-10-59, Cl. 229-34.
- Doran, Robert F.: *See*—  
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- Doran, Robert F., to Sylvania Electric Products Inc. Method of making a pressure filled lamp. 2,918,763, 12-29-59, Cl. 53-7.
- Doran, Robert F., and T. S. Stanislaw, to Sylvania Electric Products Inc. Ceramic products. 2,890,514, 6-16-59, Cl. 25-156.
- Doran, Wilbur J., to Eli Lilly and Co. 1,5,5-trisubstituted barbituric acids. 2,872,448, 2-3-59, Cl. 260-257.
- Dorand, René, to Giravions Dorand. Double-integrating unit. 2,911,151, 11-3-59, Cl. 235-183.
- D'Orazio, Peter J.: *See*—  
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- D'Orazio, William R., to The Commander Door, Inc. Articulated door. 2,916,089, 12-8-59, Cl. 160-201.
- Dorenbos, Richard E.: *See*—  
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- Dorenbos, Richard E., to American Steel Foundries. Motor frame assembly press. 2,882,590, 4-21-59, Cl. 29-205.



- Dorey, George B., to Enterprise Railway Equipment Co. Hopper door latching mechanism. 2,876,711, 3-10-59, Cl. 105-253.
- Dorey, George B., to Enterprise Railway Equipment Co. Railway hopper car. 2,879,720, 3-31-59, Cl. 105-249.
- Dorey, George B., to Enterprise Railway Equipment Co. Hopper door operating mechanism. 2,888,882, 6-2-59, Cl. 105-250.
- Dorey, George B., to Enterprise Railway Equipment Co. Hopper door latch mechanism. 2,888,885, 6-2-59, Cl. 105-309.
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- Dorf, Richard H.: *See*—
- Humphrey, John H., and Dorf. 2,888,849.
- Dorf, Louis A.: *See*—
- Bachelet, Albert E., Dorf, and Mitchell. 2,896,072.
- Dorfman, Hiller D., and F. L. Gelzheiser, to Westinghouse Electric Corp. Circuit breaker panels. 2,883,587, 4-21-59, Cl. 317-119.
- Dorfman, Irving: *See*—
- Joseph, John L., and Dorfman. 2,874,512.
- Dorfman, Leon M., and F. J. Shipko, to United States of America, Atomic Energy Commission. Radioactive object and method of making same. 2,903,383, 9-8-59, Cl. 117-218.
- Dorgelo, Eduard G., to North American Philips Co., Inc. Electric discharge tube and cathode therefor. 2,882,436, 4-14-59, Cl. 313-273.
- Dorian, Daniel K., to Tung-Sol Electric Inc. Circuit protective device. 2,884,501, 4-28-59, Cl. 200-122.
- Dorin Enterprises Corp.: *See*—
- Zanni, Guido R., Tortolani, and Jamieson. 2,909,030.
- Döring, Fritz, to Siemens & Halske Akt. Telephone set. 2,888,521, 5-26-59, Cl. 179-100.
- Doring, Walter F., Jr., to Engelhard Industries, Inc. Anode. 2,908,623, 10-13-59, Cl. 204-196.
- Dorinson, Amos, to Sinclair Refining Co. Lubricants. 2,898,331, 8-4-59, Cl. 260-125.
- Dormeyer Corp.: *See*—
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- Schwaneke, Fred C., and Tucker. 2,900,895.
- Dorjee, Hendrik, to North American Philips Co., Inc. Terminal strip connecting device. 2,877,440, 3-10-59, Cl. 339-198.
- Dorken, August, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and process for their manufacture. 2,910,501, 10-27-59, Cl. 260-461.
- Dorland, Roger M., M. M. Yan, and E. C. Hale, to Abitibi Power & Paper Co., Ltd. Synthetic board and method of manufacture. 2,876,153, 3-3-59, Cl. 154-45.9.
- Dorland, Rodger M., and J. W. McKinney, to Abitibi Power & Paper Co., Ltd. High yields bisulphite pulping process. 2,906,659, 9-29-59, Cl. 162-83.
- Dorland, Rodger M., M. M. Yan, and E. G. Heslop, to Abitibi Corp. Artificial board. 2,918,398, 12-22-59, Cl. 162-132.
- Dorman, Hugh H.: *See*—
- Gunning, Alfred W., and Dorman. 2,877,868.
- Dorman, Isidore, and C. G. Hoos. Molding method and apparatus. 2,917,776, 12-22-59, Cl. 18-30.
- Dorman, Jack R. Dispensing and storage container. 2,903,127, 9-8-59, Cl. 206-56.
- Dorman Long (Steel) Ltd.: *See*—
- Bell, William C. E., and Smith. 2,885,200.
- Dorman Sprayer Co. Ltd.: *See*—
- Bartlett, Frederick A. 2,904,266.
- Chapman, Percy D. 2,887,122.
- Dorman, William H., to Corning Glass Works. Street lighting luminaire. 2,886,698, 5-12-59, Cl. 240-25.
- Dormeyer Corp.: *See*—
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- Clauson, Arthur D. 2,916,062.
- Doerner, Otto. 2,876,369.
- Krause, Walter W., and Schwaneke. 2,883,779.
- Schwaneke, Fred C. 2,867,712.
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- Schwaneke, Alfred E. 2,906,194.
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- Dormitzer, Henry C., to Wilson & Co., Inc. Dry rendering of fats. 2,875,222, 2-24-59, Cl. 260-412.6.
- Dorn, Chester, to Spokane Kenworth Co. Releasable cable stake holder for trucks. 2,909,379, 10-20-59, Cl. 280-145.
- Dorn, Clifford G., to United States of America, Navy. Fast rise pulse generator with high P.R.F. 2,895,060, 7-14-59, Cl. 307-106.
- Dornauf, Arnold, to Faudi Feinbau G.m.b.H. Exchangeable filter element for high differential pressures. 2,902,164, 9-1-59, Cl. 210-486.
- Dornbush, Albert C.: *See*—
- Pelcak, Emil J., and Dornbush. 2,906,595.
- Dorney, Patrick E.: *See*—
- Goldstein, Ladislav, Dorney, and Lampert. 2,903,652.
- Dorney, Patrick E., and D. M. Sharp, to International Telephone and Telegraph Corp. Microwave sweep generators. 2,912,652, 11-10-59, Cl. 331-84.
- Dornfeld, Clinton A., to G. D. Searle & Co. Alkylenebis [trialkylphosphonium halides] and processes for the manufacture thereof. 2,867,665, 1-6-59, Cl. 260-606.5.
- Dornfeld, Clinton A., to G. D. Searle & Co. Oxaalkane bisphosphonium compounds and the manufacture thereof. 2,882,321, 4-14-59, Cl. 260-606.5.
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- Dornfeld, Clinton A., to G. D. Searle & Co. 2-aryloxyalkyl-1,4,5,6-tetrahydropyrimidines. 2,893,993, 7-7-59, Cl. 260-251.
- Dornfeld, Clinton A., to G. D. Searle & Co. 1-(amino and hydroxy)alkyl-2-diarylalkyl-2-imidazolines and process. 2,899,441, 8-11-59, Cl. 260-309.6.
- Doro Corp.: *See*—
- Doro, Lester H. 2,916,363.
- Doro, Lester H., to Doro Corp. Etching printing plates. 2,916,363, 12-8-59, Cl. 41-42.
- Dorr-Oliver Inc.: *See*—
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- Fitch, Elliot B. 2,870,908.
- Heath, Thomas D. 2,867,429.
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- Heath, Thomas D., and Holle. 2,867,526.
- Irthum, Harold J., and Schorken. 2,894,635.
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- Schreiber, Charles A. 2,894,637.
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- Dörr, Richard-Eugen: *See*—
- Blöd, Egon, Dörr, Braun, Elian, and Lepingle. 2,918,455.
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- Dorrance, William A.: *See*—
- Ratcliff, Karl A., and Dorrance. 2,869,543.
- Ratcliff, Karl A., and Dorrance. 2,869,544.
- Dorrestein, Jan: *See*—
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- Dorsak, John W., and T. F. Van Denberg, to The Gordon Armstrong Co., Inc. Closure latch. 2,895,760, 7-21-59, Cl. 292-87.
- Dorschner, Clarence C., to Deltco Rug Co. Method and apparatus for twisting a flat strand. 2,883,822, 4-28-59, Cl. 57-31.
- Dorschner, Oskar: *See*—
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- Dorsett, James W., Jr.: *See*—
- Grantham, Rodney E., and Dorsett. 2,903,653.
- Dorsey, Dorman D. Appliance housing. 2,897,035, 7-28-59, Cl. 312-330.
- Dorsey, William S.: *See*—
- Schaeffer, William D., and Dorsey. 2,905,684.
- Dortmund-Hoerder Huttenunion Aktiengesellschaft: *See*—
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- Knüppel, Helmut. 2,911,571.
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- Dortort, Isadore K., to I-T-E Circuit Breaker Co. Cancellation of break step current for contact converters. 2,883,603, 4-21-59, Cl. 321-48.
- Dortort, Isadore K., to I-T-E Circuit Breaker Co. Cross-compounding of machine regulators. 2,894,149, 7-7-59, Cl. 307-57.
- Dortort, Isadore K., to I-T-E Circuit Breaker Co. Voltage balancing for series connected rectifiers. 2,895,099, 7-14-59, Cl. 321-11.
- Dorward, John G., Jr., to United States of America, Atomic Energy Commission. Thermally operated vapor valve. 2,875,375, 2-10-59, Cl. 250-41.9.
- Doscher, Todd M., and J. Reisberg, to Shell Development Co. Recovery of oil from tar sands. 2,882,973, 4-21-59, Cl. 166-42.
- Doser, Arnold, to Farbenfabriken Bayer Aktiengesellschaft. Impregnating agent. 2,906,776, 9-29-59, Cl. 260-534.
- Doshay, Louis. Direct coupled cascade amplifier. 2,892,043, 6-23-59, Cl. 179-171.
- Dosher, Ralph T., Jr.: *See*—
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- Dosker, Cornelius D., to Constock International Methane Ltd. Storage tank for cold liquids. 2,911,125, 11-3-59, Cl. 220-11.



- Doskocil, John F. Foldable and portable enclosure. 2,878,488, 3-24-59, Cl. 4-177.
- Dosmann, James A. Vehicle gas turbine power system. 2,888,802, 6-2-59, Cl. 60-39.16.
- Dos Passos, John R.: *See—*  
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- Doss, Richard C., and H. W. Bost, to Phillips Petroleum Co. Preparation of diamino-1-alkenes. 2,881,217, 4-7-59, Cl. 260-583.
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- Dostal, Frank, to American Time Products, Inc. Watch movement test support device. 2,900,815, 8-25-59, Cl. 73-6.
- Doster, Earl L., Jr. Sewing machine attachment. 2,892,426, 6-30-59, Cl. 112-2.
- Dostert, Leon E. Method and apparatus for teaching languages. 2,911,482, 11-3-59, Cl. 179-100.2.
- Doswell, Harold H. Vault handling vehicle. 2,915,206, 12-1-59, Cl. 214-75.
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- Dotson, Donald A., to The Garrett Corp. Fuel-air ratio control apparatus for gas driven prime movers. 2,873,578, 2-17-59, Cl. 60-39.28.
- Dotson, Donald A., to The Garrett Corp. Power plant starting system. 2,888,801, 6-2-59, Cl. 60-39.14.
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- Dotson-Kimes Enterprises: *See—*  
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- Dotson, Leighton G. Ornamental ironwork structures. 2,909,361, 10-20-59, Cl. 256-21.
- Dotter, John H. Automatic force-feed lubricated plug valve. 2,881,785, 4-14-59, Cl. 137-246.21.
- Dotter, John H., and W. L. Hulslander, to Homestead Valve Mfg. Co. Piston type multiport fluid pressure valve. 2,910,050, 10-27-59, Cl. 121-46.5.
- Doty, Charles R., and R. J. Smith, to International Business Machines Corp. Automatic error correcting device. 2,884,064, 4-28-59, Cl. 164-113.
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- Doty, Richard B. Variable and reversing power transmission. 2,889,716, 6-9-59, Cl. 74-689.
- Doty, William E. N., and M. R. Lee, to Continental Oil Co. Method and apparatus for determining the travel times of a signal propagated over a plurality of paths. 2,874,795, 2-24-59, Cl. 181-5.
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- Double A Products Co.: *See—*  
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- Dougherty, Leo P. Apparatus for notching the edges of addressograph plates. 2,868,088, 1-13-59, Cl. 90-16.
- Dougherty, Leo P. Address plate sensing device. 2,868,452, 1-13-59, Cl. 235-61.11.
- Dougherty, Michael F. Suspensories. 2,888,014, 5-26-59, Cl. 128-158.
- Dougherty, Patrick F., to Sun Oil Co. Inhibiting corrosion in distillation processes. 2,908,640, 10-13-59, Cl. 208-351.
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- Doughty, Robert T., to General Motors Corp. Engine cooling system with radiator by-pass. 2,871,836, 2-3-59, Cl. 123-41.1.
- Doughty, Robert T., to General Motors Corp. Resilient support. 2,898,063, 8-4-59, Cl. 248-9.
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- Douglas, Alvin P., A. R. Golrick, and R. F. Skerl, to The Murray Ohio Mfg. Co. Three speed bicycle transmission. 2,899,030, 8-11-59, Cl. 192-6.
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- Douglas, Burke, to The Dow Chemical Co. Galvanic anode. 2,882,213, 4-14-59, Cl. 204-197.
- Douglas, Bradley C., to Food Giant Markets, Inc. Gas control and safety valve. 2,885,150, 5-3-59, Cl. 236-1.
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- Douglas, John C., to Union Carbide Corp. Process for preparing a sintered agglomerate. 2,883,278, 4-21-59, Cl. 75-5.
- Douglas, John F. H., and P. J. Rautimo, to The Louis Allis Co. Synchronous induction motor. 2,913,607, 11-17-59, Cl. 310-261.
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- Douglass, Dayton W.,  $\frac{1}{2}$  to J. R. Farrow. Line drying reel. 2,879,009, 3-24-59, Cl. 242-104.
- Douglass, Harry E., and R. B. Hecox. Portable work light. 2,874,270, 2-17-59, Cl. 240-11.4.
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- Douse, Arthur T. Method of sealing leaks in sub-surface sewer pipe. 2,917,085, 12-15-59, Cl. 138-97.
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 Davis, Clyde W., Ehlers, and Traylor. 2,913,438.  
 Davis, Ralph A. 2,878,156.  
 Dean, Lloyd G., Olstowski, and Posey. 2,880,151.  
 De Lap, Robert A. 2,914,416.  
 De Long, Herbert K. 2,901,409.  
 Dibert, Carl L., and Taber. 2,886,546.  
 Dibert, Carl L., and Taber. 2,887,460.  
 Dietzler, Andrew J. 2,894,004.  
 Dietzler, Andrew J. 2,917,550.  
 Dietzler, Andrew J., and Britton. 2,905,715.  
 Dietzler, Andrew J., and Bryner. 2,872,489.  
 Diss, Edward M., and Walker. 2,877,084.  
 Doedens, James D. 2,911,380.  
 Doerner, Mona P. 2,901,886.  
 Donaldson, Walter E., and Hanson. 2,899,708.  
 Douglas, Burke. 2,882,213.  
 Duke, Marshall W., and Gordon. 2,878,238.  
 Dunbar, Joseph E. 2,907,775.  
 Dreisbach, Robert R., and Lang. 2,900,279.  
 Dreisbach, Robert R., and Sterling. 2,897,167.  
 Eagon, Beverly M., and Greminger. 2,906,626.  
 Eichhorn, Jacob. 2,877,213.  
 Eichhorn, Jacob. 2,918,263.  
 Elder, Max E., Gunderman, MacPherson, and Parker. 2,894,927.  
 Faircloth, Charles R. 2,918,784.  
 Floria, Vernon D. 2,889,377.  
 Floria, Vernon D., and Mock. 2,913,429.  
 Flynn, John M. 2,918,461.  
 Fookes, James H. 2,912,456.  
 Fookes, James H., and Nutter. 2,911,315.  
 Fookes, James H., Pelton, and Long. 2,885,444.  
 Foster, Gerald L., and Oakes. 2,880,180.  
 Frost, Albert E. 2,907,790.  
 Gaumer, Glenn E. 2,872,475.  
 Gordon, David A. 2,904,529.  
 Gordon, David A. 2,906,727.  
 Gordon, David A. 2,906,778.  
 Gordon, David A. 2,910,453.  
 Gordon, David A. 2,913,483.  
 Gordon, David A. 2,913,484.  
 Gordon, David A. 2,913,485.  
 Gordon, David A., and Corbett. 2,914,555.  
 Greminger, George K., Jr., and Windover. 2,887,440.  
 Grenley, Dallas G., and Townsend. 2,897,100.  
 Gruenhagen, Richard H., and Fritts. 2,897,113.  
 Gunderman, Roland E., and Elder. 2,880,466.  
 Gurgolo, Arthur E. 2,887,491.  
 Gurgolo, Arthur E., and Ledbetter. 2,911,377.  
 Haas, Emil M. 2,905,648.  
 Harley, William B., Harmon, and Sutherland. 2,887,159.  
 Harper, Billy G., Brown, and Moore. 2,894,289.  
 Harrell, Bob R., and Forester. 2,887,364.  
 Harris, Clare S., and Huffman. 2,894,625.  
 Hart, Porter, and Behrens. 2,895,102.  
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 Havens, Carl B. 2,900,361.  
 Havens, Carl B., and Clark. 2,894,022.

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Hibbard, Billy B. 2,872,436.  
 Hittrich, Gabriel A. 2,917,292.  
 Hoerger, Fred D., and Smeal. 2,913,449.  
 Holzschuh, Andrew A. 2,868,805.  
 Holzschuh, Andrew A. 2,868,807.  
 Horsley, Lee H., and Britton. 2,888,489.  
 Horsley, Lee H., and Petrie. 2,886,600.  
 Horsley, Lee H., and Seeburger. 2,915,559.  
 Houvener, Irving S. 2,897,762.  
 Hradel, Joseph R., Staadt, and Muir. 2,892,406.  
 Hudson, Robert L. 2,890,200.  
 Hudson, Robert L. 2,918,450.  
 Hunt, Wilson W., and Amos. 2,914,120.  
 Huyser, Earl S., and Tousignant. 2,876,260.  
 Hymas, Theo A. 2,871,156.  
 Ilgenfritz, Edgar M. 2,904,601.  
 Ilgenfritz, Edgar M. 2,904,602.  
 Ilgenfritz, Edgar M. 2,904,603.  
 Ivins, Owen D., and Head. 2,871,256.  
 Jankens, Austin L. 2,888,415.  
 Jankowiak, Erwin M., and Nelson. 2,906,719.  
 Johnson, Robert L., and Adams. 2,888,422.  
 Johnson, Robert L., and Robertson. 2,898,317.  
 Johnston, Howard. 2,908,717.  
 Johnston, Howard. 2,910,509.  
 Johnston, Howard. 2,915,556.  
 Jones, Giffin D. 2,909,508.  
 Kallman, Robert L., Steinbach, and Stoming. 2,875,891.  
 Karpiuk, Robert S. 2,881,054.  
 Kauer, Kenneth C. 2,884,438.  
 Kauer, Kenneth C., and Britton. 2,875,234.  
 Kauer, Kenneth C., and Slagh. 2,885,429.  
 Kenaga, Eugene E. 2,875,127.  
 Krajewski, Richard M., and Kelly. 2,887,396.  
 Kundiger, Donald G., and Dick. 2,880,238.  
 Kundiger, Donald G., and Ovist. 2,873,293.  
 Kundiger, Donald G., and Ovist. 2,881,218.  
 Kundiger, Donald G., and Ovist. 2,882,318.  
 Kundiger, Donald G., and Pledger. 2,891,064.  
 Lawless, Robert M., and Klopff. 2,888,341.  
 Leathers, Joel F. M., and Posey. 2,900,726.  
 Lee, Richard J., Kallman, Steinbach, and Stoming. 2,890,822.  
 Leferdink, Theodore B., and Traylor. 2,882,253.  
 Leonard, Dorris G. 2,894,624.  
 Levine, Leonard. 2,892,843.  
 Lincoln, Henry A., and Klein. 2,888,181.  
 Lipke, Paul H., Jr., and Gifford. 2,899,400.  
 Long, Merton W., Jr. 2,910,477.  
 Longstreth, Murray O., and Tollar. 2,913,763.  
 Lorette, Nicholas B. 2,871,269.  
 MacKenzie, Gordon F., and Turbin. 2,901,482.  
 Malin, Herbert, and Roehrs. 2,906,721.  
 Mason, Robert S. 2,887,874.  
 McClure, Holmes H., Melbert, and Hoblit. 2,886,605.  
 McDonald, Leighton S., and Hughes. 2,917,554.  
 McDonald Leighton S., Hughes, and Crabb. 2,917,555.  
 McIlhenny, William F., Baker, Clarke, and Bauman. 2,897,051.  
 McIntire, John W., and Francis. 2,910,961.  
 McLain, Earl A. 2,879,895.  
 McMillan, William J., and Denslow. 2,884,386.  
 Meikle, Richard W. 2,911,439.  
 Meuli, Lloyd J. 2,895,872.  
 Meyer, Robert H., and Johnson. 2,889,204.  
 Mock, Richard A., Marshall, and Morris. 2,910,445.  
 Monroe, Roger F., and Rapp. 2,906,783.  
 Montgomery, Robert S. 2,878,191.  
 Montgomery, Robert S. 2,878,296.  
 Montgomery, Robert S. 2,906,781.  
 Morris, Leo R. 2,875,162.  
 Morris, Leo R. 2,888,441.  
 Moss, Rodney D. 2,897,236.  
 Moyie, Clarence L. 2,868,843.  
 Nagle, Floyd B., Ruffing, Wright, Kozakiewicz, and Roche. 2,915,482.  
 Neipert, Marshall P., and Blue. 2,913,332.  
 Neipert, Marshall P., Blue, and Houser. 2,898,284.  
 Neipert, Marshall P., and Bon. 2,885,282.  
 Noddings, Charles R., Miller, and Engelder. 2,905,608.  
 Nowak, Robert M. 2,915,549.  
 Nummy, William R. 2,919,262.  
 Nummy, William R., and Jones. 2,873,239.  
 Park, Arthur, and Coulter. 2,877,180.  
 Partansky, Alexander M. 2,907,684.  
 Partansky, Alexander M. 2,918,440.  
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 Patten, Lorraine E., and Kelly. 2,868,656.  
 Patten, Lorraine E., and Kelly. 2,909,434.  
 Peters, Clayton. 2,913,371.  
 Peterson, Norman R., and Cummings. 2,917,476.  
 Pumpelly, Charles T., and Wasco. 2,913,408.  
 Purslove, Laurence A. 2,885,435.  
 Quigley, Fred K., Jr., and Walters. 2,873,215.  
 Quigley, Fred K., Jr., and Walters. 2,918,194.  
 Redemann, Carl T. 2,918,413.  
 Richert, Herbert B. 2,908,692.  
 Rickert, Herbert B. 2,883,300.  
 Rickert, Herbert B. 2,887,399.  
 Rigrterink, Raymond H. 2,867,618.  
 Rigrterink, Raymond H. 2,872,477.  
 Rigrterink, Raymond H. 2,875,251.  
 Rigrterink, Raymond H. 2,901,515.



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 Robertson, Dale N. 2,914,570.  
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 Robertson, Dale N., and Chenoweth. 2,884,455.  
 Robinson, Harold A. 2,895,893.  
 Rogers, Jack A., and Juckniess. 2,874,953.  
 Rokosz, Leo F. 2,917,805.  
 Rubens, Louis C. 2,878,194.  
 Ruh, Robert P., and Davis. 2,871,274.  
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 Schweitzer, William K., Jr. 2,873,264.  
 Schweitzer, William K., Jr. 2,878,232.  
 Schweitzer, William K., Jr. 2,894,933.  
 Schweitzer, William K., Jr. 2,906,728.  
 Schweitzer, William K., Jr. 2,911,385.  
 Scigliano, Joseph J. 2,907,687.  
 Scott, Charles R., and Grenley. 2,872,325.  
 Sexton, Arthur R. 2,890,238.  
 Sexton, Arthur R. 2,895,989.  
 Sheetz, David P. 2,914,499.  
 Sims, Jacqueline G., and Moyle. 2,905,706.  
 Sims, Jacqueline G., and Moyle. 2,917,534.  
 Slagh, Harold R. 2,897,227.  
 Slagh, Harold R. 2,906,769.  
 Smith, Raymond A., McClure, and Bond. 2,899,274.  
 Smith, Robert M. 2,891,073.  
 Smith, Robert M. 2,899,461.  
 Soderquist, Frederick J., and Amos. 2,909,573.  
 Spence, Thomas C., and Funk. 2,917,784.  
 Spence, Thomas C., Funk, and Woessner. 2,917,806.  
 Staadt, Harold B., and Hradel. 2,889,773.  
 Stacy, Charles L., Jr., and Monroe. 2,891,036.  
 Stanton, George W., Leferdink, Meikle, and Charlesworth. 2,899,262.  
 Staudt, John G. 2,881,837.  
 Steinhauer, Alfred F., and Merica. 2,891,082.  
 Stevens, Donna. 2,872,469.  
 Stewart, Richard D. 2,910,980.  
 Stilbert, Elmer K., Jr., Cummings, and Clock. 2,912,392.  
 Stilbert, Elmer K., Jr., Cummings, and Clock. 2,912,393.  
 Stilbert, Elmer K., Jr., Cummings, and Clock. 2,912,394.  
 Stober, Kenneth E., Engwis, and Dwight. 2,895,939.  
 Stoesser, Wesley C., Sommerfield, and Surine. 2,875,165.  
 Stowe, Robert A., and Larsen. 2,917,557.  
 Taplin, William H., and Harris. 2,906,775.  
 Taylor, Frank C., Jr., and Aamoth. 2,868,832.  
 Teot, Arthur S. 2,867,611.  
 Teot, Arthur S. 2,906,635.  
 Thiegs, Bernard J. 2,916,855.  
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 Thomka, Laddie M. 2,906,742.  
 Tolkmith, Henry. 2,872,473.  
 Tolkmith, Henry, Blair, Kauer, and Britton. 2,887,506.  
 Tolkmith, Henry, and Britton. 2,908,706.  
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 Toornman, Burton V. 2,880,082.  
 Tousignant, William F., and Pledger. 2,894,935.  
 Trapp, Walter B. 2,878,295.  
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 Treat, Lyle G. 2,919,208.  
 Turner, George O. 2,875,118.  
 Turner, George O. 2,918,363.  
 Walles, Wilhelm E., and Tousignant. 2,872,321.  
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 Walles, Wilhelm E., Tousignant, and Houtman. 2,919,279.  
 Walter, Ned F., Waters, and Lee. 2,888,490.  
 Walton, Richard A. 2,894,623.  
 Watson, Edward J. 2,897,241.  
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 Wheaton, Robert M. 2,890,972.  
 Wheaton, Robert M. 2,911,362.  
 Wheeler, Donald D., and Young. 2,877,236.  
 Wheeler, Donald D., and Young. 2,886,576.  
 Wheeler, Donald D., and Young. 2,897,210.  
 Wheeler, Donald D., and Young. 2,904,554.  
 Wheeler, Donald D., and Young. 2,904,556.  
 Wheeler, Donald D., and Young. 2,904,557.  
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 Whisenhunt, James M. 2,894,956.  
 Whitby, Lawrence. 2,887,418.  
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 White, Halbert C., and Britton. 2,879,164.  
 Wiley, Ralph M. 2,875,185.  
 Wiley, Ralph M. 2,886,559.  
 Williams, Bill M., and Berhenke. 2,892,867.  
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 Woodward, George W., and Lunsford. 2,880,102.  
 Youngson, Charles R. 2,889,244.  
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 Brown, Paul L. 2,911,427.  
 Browne, Harold L., Cookingham, and Pendleton. 2,867,843.  
 Carlson, Barber C. 2,898,221.  
 Chipman, Alan D. 2,902,467.  
 Clark, Harold A. 2,877,255.  
 Clark, Harold A. 2,894,930.  
 Clark, Harold A. 2,906,734.  
 Clark, Harold A. 2,915,497.  
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 Dudley, Charles F. 2,911,327.  
 Eynon, Benjamin A. 2,898,346.  
 Fianu, Peter. 2,902,468.  
 Fletcher, Herbert J., and Constan. 2,890,234.  
 Gilkey, John W. 2,868,750.  
 Gilkey, John W. 2,884,393.  
 Gilkey, John W. 2,894,967.  
 Gordon, Arthur F. 2,884,432.  
 Haluska, Loren A. 2,868,824.  
 Haluska, Loren A. 2,906,768.  
 Hedlund, Robert C. 2,884,388.  
 Holbrook, George W., and Brown. 2,915,544.  
 Hyde, James F., and Brown. 2,902,507.  
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 Johansson, Oscar K. 2,868,766.  
 Keil, Joseph W. 2,902,389.  
 Konkle, George M., McHard, and Polmanteer. 2,890,188.  
 May, John J. 2,877,182.  
 McLean, William M. 2,917,414.  
 Montgomery, Richard H. 2,914,836.  
 Pierce, Ogden R. 2,894,969.  
 Polmanteer, Keith E. 2,897,869.  
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 Pooley, Thomas R. 2,906,766.  
 Ragborg, William H. 2,877,184.  
 Ragborg, William H. 2,890,170.  
 Seyferth, Dietmar. 2,902,505.  
 Smith, Donald D. 2,884,433.  
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 Sommer, Leo H. 2,906,767.  
 Speier, John L. 2,906,735.  
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 Sullivan, Robert E., and Gregory. 2,894,913.  
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 Webster, James A. 2,894,968.  
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 Dow, Gordon M. Co-axial switch connector. 2,871,321, 1-27-59, Cl. 200-153.  
 Dow, Norris F.: See—  
 Kotanchik, Joseph N., and Dow. 2,885,888.  
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 Dow, Robert, to G. S. Nalle, Jr. Method of making polymers. 2,893,937, 7-7-59, Cl. 204-158.  
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 Grasso, Flavio J., and Dow. 2,885,376.  
 Dow, Willard M. Processes and apparatus for recovering hydrocarbons from gas streams. 2,880,818, 4-7-59, Cl. 183-47.  
 Dow, William E., to Cone Automatic Machine Co., Inc. Metal cutting tool. 2,907,099, 10-6-59, Cl. 29-98.  
 Dow, William T.: See—  
 Dalziel, William, and Dow. 2,882,165.  
 Dowd, Archie J., to The Viking Tool & Machine Corp. Spring clutch. 2,907,427, 10-6-59, Cl. 192-41.  
 Dowd, Lionel E.: See—  
 Heritage, Clark C., and Dowd. 2,877,953.  
 Heritage, Clark C., and Dowd. 2,890,231.  
 Dowd, Richard S.: See—  
 Barr, Irwin R., Dowd, and Thompson. 2,870,711.  
 Dowd, Robert T., E. R. Lieberman, and I. Turiansky, to Ethicon, Inc. Surgical suture and method for dyeing. 2,909,177, 10-20-59, Cl. 128-335.5.  
 Dowdle, Walter F., to Essex Wire Corp. Relay. 2,900,472, 8-18-59, Cl. 200-87.  
 Dowdy, Lloyd F., and A. E. Daughtry. Utility handle. 2,904,373, 9-15-59, Cl. 306-1.  
 Dower, Ethel J., to Warren Automatic Tool Co. Liquid density recorder. 2,910,871, 11-3-59, Cl. 73-438.  
 Dowle, David L., to Austland Ltd. Use of high pressure fluids in coal mines. 2,867,426, 1-6-59, Cl. 262-12.  
 Dowling, Basil B., to International Minerals & Chemical Corp. Resolution of enantiomorphic mixtures. 2,898,358, 8-4-59, Cl. 260-429.9.  
 Dowling, Charles R. Piano action. 2,874,601, 2-24-59, Cl. 84-240.  
 Dowling, Joseph W.: See—  
 Altreuter, Royal K., Dowling, Racz, and Thomas. 2,875,138.  
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 Dowling, Robert J., to United States Rubber Co. Insecticidal compositions. 2,905,587, 9-22-59, Cl. 167-30.  
 Downard, Jack M., to Hercules Powder Co. Preparing mixtures of alkali metal benzene carboxylates and cadmium benzoate. 2,914,483, 11-24-59, Cl. 252-182.



- Downe, Edward R., and W. B. Travers, to The C. A. Olsen Mfg. Co. Gas pressure control means. 2,871,879, 2-3-59, Cl. 137-513.7.
- Downer, S. Whitney, III: *See*—  
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- Downes, Norman J.: *See*—  
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- Downey, Curtis L., F. H. Chartrey, H. S. Ferguson, and C. W. Grow. Display type communications system. 2,885,667, 5-5-59, Cl. 343-7.6.
- Downey, Curtis L., F. H. Chartrey, and H. S. Ferguson. Visual display type radio signalling system. 2,903,675, 9-8-59, Cl. 340-154.
- Downey, Dixon F. Boat fender. 2,875,721, 3-3-59, Cl. 114-219.
- Downey Fertilizer Co.: *See*—  
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- Downey, Joseph M.: *See*—  
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- Downey, Paul M., to Monsanto Chemical Co. Nickel salts of dialkyl dithiophosphoric acid and butadiene-styrene. 2,884,405, 4-28-59, Cl. 260-45.75.
- Downey, Richard M., to Midwest Insulations, Inc., Industrial Products Co., Inc., The Carney Co., Inc., and Airseal Insulations, Inc. Apparatus for forming mineral fibers and the like. 2,882,552, 4-21-59, Cl. 18-2.5.
- Downey, Wayne A., to J. I. Case Co. Adjustable hitch for towing vehicles. 2,878,035, 3-17-59, Cl. 280-482.
- Downie, John W., and W. I. Tirrell, to General Electric Co. Conductive cavities. 2,913,684, 11-17-59, Cl. 333-83.
- Downin, Roland W., to Valguard Co., Inc. Flush valve assembly. 2,905,949, 9-29-59, Cl. 4-41.
- Downing, Eric W., to Joseph Lucas (Industries) Ltd. Liquid fuel injection pumps. 2,877,933, 3-17-59, Cl. 222-250.
- Downing, Eric W., to Joseph Lucas (Industries) Ltd. Liquid fuel metering devices for internal combustion engines. 2,883,088, 4-21-59, Cl. 222-250.
- Downing, Eric W., and H. Duddell, to Joseph Lucas (Industries) Ltd. Regulating means for liquid fuel metering apparatus for internal combustion engines. 2,891,701, 6-23-59, Cl. 222-250.
- Downing, John: *See*—  
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Grebby, John W., Hawtin, and Downing. 2,900,221.  
Groombridge, Denis W., Hawtin, and Downing. 2,904,953.  
Hawtin, Selwyn G., and Downing. 2,880,106.  
Page, Clifford E., and Downing. 2,871,512.
- Downing, Joseph M. Gas burner. 2,894,570, 7-14-59, Cl. 158-115.
- Downs, Charles D., and J. Martin, to Columbian Carbon Co. Method for producing zinc ferrite pigment. 2,904,395, 9-15-59, Cl. 23-50.
- Downs, Edgar S. Liquid fuel burning heater. 2,879,837, 3-31-59, Cl. 158-96.
- Downs, Florence B.: *See*—  
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- Downs, Lester W. Oar locks. 2,867,822, 1-13-59, Cl. 9-24.
- Downs, Martin L., and M. G. Schmitt, to Thilmany Pulp & Paper Co. Paper and method of making same. 2,868,685, 1-13-59, Cl. 154-138.
- Downs, Sewell H., to Clarage Fan Co. Fan equipment. 2,903,182, 9-8-59, Cl. 230-130.
- Dowty Equipment of Canada Ltd.: *See*—  
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- Dowty Equipment Ltd.: *See*—  
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- Dowty Fuel Systems Ltd.: *See*—  
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- Dowty, George H. Aircraft braking mechanism. 2,877,969, 3-17-59, Cl. 244-110.
- Dowty Hydraulic Units Ltd.: *See*—  
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- Dowty Mining Equipment Ltd.: *See*—  
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- Dowty Nucleonics Ltd.: *See*—  
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- Doyen, Jean, to Yardney International Corp. Negative electrode for silver-zinc batteries. 2,867,678, 1-6-59, Cl. 136-71.
- Doyle, Dewey I., Jr., to Doyle Vacuum Cleaner Co. Rigid axle mounting. 2,869,885, 1-20-59, Cl. 280-47.17.
- Doyle, Frank P., and E. R. Stove, to Beecham Research Laboratories Ltd. Sulphonium compounds. 2,877,265, 3-10-59, Cl. 260-501.
- Doyle, Irving W., and A. G. Nash, to Fairchild Camera and Instrument Corp. Focal plane camera shutter. 2,907,256, 10-6-59, Cl. 95-57.
- Doyle, James A., 24.5% to H. L. Wingo, and 24.5% to V. Caldwell. Aerosol can spray head. 2,911,158, 11-3-59, Cl. 239-573.
- Doyle, James A., 24.5% to H. L. Wingo, and 24.5% to V. Caldwell. Aerosol can spray head. 2,911,159, 11-3-59, Cl. 239-573.
- Doyle, Orville K. Flush tank valve. 2,911,000, 11-3-59, Cl. 137-414.
- Doyle, Richard H.: *See*—  
Wandel, Oscar A., and Doyle. 2,887,686.
- Doyle, Thomas A., to C. H. Masland and Sons. Jacquard mechanism carrying pile to the back. 2,879,805, 3-31-59, Cl. 139-59.
- Doyle Vacuum Cleaner Co.: *See*—  
Doyle, Dewey I., Jr. 2,869,885.
- Doyle, William T., to Nordson Pharmaceutical Laboratories, Inc. L-amphetamine alginate. 2,906,665, 9-29-59, Cl. 167-55.
- Doyle, William T., to Sturtevant Mill Co. Rotary pulverizer mill with flat face stator bars. 2,919,074, 12-29-59, Cl. 241-53.
- Doyle, William V. Device for supporting, carrying and closing a container. 2,910,208, 10-27-59, Cl. 220-39.
- Dr. Ing. F. L. Fenyves: *See*—  
Demeny, Adam. 2,893,382.
- Dr. Ing. h. c. F. Porsche K. C.: *See*—  
Huttisch, Walter. 2,877,824.  
Mayr, Otmär. 2,891,821.  
Rabe, Karl, and Forstner. 2,901,052.
- Dr.-Ing. Rudolf Hell: *See*—  
Hell, Rudolf. 2,877,298.
- Dr.-Ing. Rudolf Hell Kommanditgesellschaft: *See*—  
Hell, Rudolf. 2,880,270.  
Liferth, Ewald. 2,909,598.
- Dr.-Ing. Schneider & Co.: *See*—  
Barchmann, Helmut, Freier, and Kruse. 2,916,609.
- Dr. Recordati-Laboratorio Farmacologico S.p.A.: *See*—  
Da Re, Paolo. 2,897,211.
- Drabik, Josef, F. Rings, and L. Vogel, to G. Kromschroder, Akt. Gas pressure regulator. 2,911,998, 11-10-59, Cl. 137-505.25.
- Drachman, Harold: *See*—  
Stuart, Allan, and Drachman. 2,905,944.
- Drackett Co., The: *See*—  
Coopridge, Rex C. 2,889,964.
- Drader, Joseph C., to Michigan Tool Co. Gear selector. 2,877,895, 3-17-59, Cl. 209-88.
- Draemel, Frederick C.: *See*—  
Anderson, Herbert M., Draemel, and Lyons. 2,914,469.
- Draeger, Kenneth E.: *See*—  
Turpin, Frank G., Jr., Draeger, and Addison. 2,913,402.  
Draeger, Kenneth E., and L. A. Nicolai, to Esso Research and Engineering Co. Retaining catalyst fines in fluid hydroforming. 2,906,704, 9-29-59, Cl. 208-150.
- Draeger, Kenneth E., and L. A. Nicolai, to Esso Research and Engineering Co. Method for simultaneous hydroforming and hydrosulfurizing dissimilar feed stocks. 2,916,434, 12-8-59, Cl. 208-66.
- Draganjac, Michael J.: *See*—  
Colker, James, and Draganjac. 2,911,592.
- Draganjac, Michael J., to Westinghouse Air Brake Co. Precise automatic multirange indicating voltmeter and/or ratimeter. 2,870,408, 1-20-59, Cl. 324-115.
- Dräger, Otto H.: *See*—  
Bonatz, Peter, and Dräger. 2,903,875.  
Grosskopf, Karl. 2,880,072.  
Grosskopf, Karl. 2,908,555.  
Möllerling, Karl F., and Tietze. 2,888,920.  
Stampe, Gerhard K. F. H. 2,868,196.  
Tietze, Hermann. 2,891,540.  
Tietze, Hermann. 2,891,541.
- Dräger, Otto H. Shock pressure valve for shelters. 2,873,662, 2-17-59, Cl. 98-119.
- Dräger, Otto H. Sand or earth filter for shelters. 2,888,870, 6-2-59, Cl. 98-1.
- Dräger, Otto H. Shelters. 2,903,874, 9-15-59, Cl. 72-1.
- Draghi, André. Tampon. Re. 24,666, 7-7-59, Cl. 128-285.
- Dragonuk, Leo, to United States of America, Navy. Movable closure for a slot. 2,897,888, 8-4-59, Cl. 160-99.
- Dragoro Gerberding & Co., G.m.b.H.: *See*—  
Ohloff, Günther. 2,914,565.
- Draiswerke G.m.b.H.: *See*—  
Engels, Kaspar. 2,907,555.
- Drake, Charles E., to The Patterson-Kelley Co., Inc. Heat exchange conduit. 2,895,508, 7-21-59, Cl. 138-38.
- Drake, George L.: *See*—  
Reves, Wilson A., Drake, and Guthrie. 2,915,480.
- Drake, George L., Jr.: *See*—  
Chance, Leon H., Drake, and Reeves. 2,870,042.  
Chance, Leon H., Drake, and Reeves. 2,886,538.  
Chance, Leon H., Drake, and Reeves. 2,891,877.  
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Reeves, Wilson A., Chance, and Drake. 2,889,289.  
Reeves, Wilson A., Chance, and Drake. 2,917,492.  
Reeves, Wilson A., Guthrie, and Drake. 2,906,592.
- Drake, George L., Jr., W. A. Reeves, and L. H. Chance, to United States of America, Agriculture. Aziridine-methylol-phosphorus polymers and flame resistant organic textiles. 2,886,539, 5-12-59, Cl. 260-2.
- Drake, George L., Jr., W. A. Reeves, and L. H. Chance, to United States of America, Agriculture. Flame resistant organic textiles and method of production. 2,911,325, 11-3-59, Cl. 117-136.
- Drake, Harcourt C., to Sperry Products, Inc. Method and means for detecting flaws in magnetic material. 2,900,596, 8-18-59, Cl. 324-37.
- Drake, Kenneth: *See*—  
Kluge, Herman D., and Drake. 2,870,134.
- Drake, Norman A.: *See*—  
Allen, Wade W., and Drake. 2,912,896.
- Drake, Robert L. Brick cleaning apparatus. 2,884,921, 5-5-59, Cl. 125-26.



- Drake, Robert T., to Clevite Harris Products, Inc. Flexible coupling and method of making same. 2,869,339, 1-20-59, Cl. 64-11.
- Drake, Rodney. Insulators for supporting an electric wire fence. 2,899,487, 8-11-59, Cl. 174-170.
- Draley, Joseph E., and W. E. Ruther, to United States of America, Atomic Energy Commission. Nuclear reactor component cladding material. 2,871,176, 1-27-59, Cl. 204-193.2.
- Drane, Edward O., to H. Fishlove & Co. Amusement novelty. 2,908,499, 10-13-59, Cl. 272-8.
- Drane, Phillips B. Valve and actuating means. 2,873,942, 2-17-59, Cl. 251-151.
- Dranetz, Abraham I., to Gulton Industries, Inc. Calibrating system for accelerometers. 2,873,426, 2-10-59, Cl. 324-56.
- Dranetz, Abraham I., to Gulton Industries, Inc. Accelerometer. 2,880,333, 3-31-59, Cl. 310-8.2.
- Dranetz, Abraham I., and W. Welkowitz, to Gulton Industries, Inc. Electron tube. 2,899,580, 8-11-59, Cl. 313-89.
- Drapeau, Harold B., to The Dole Valve Co. Sleeve valve waterline thermostat. 2,867,383, 1-6-59, Cl. 236-34.5.
- Drapeau, Harold B., to The Dole Valve Co. Double opening waterline thermostat. 2,873,070, 2-10-59, Cl. 236-34.
- Drapeau, Harold B., to The Dole Valve Co. Pressure compensated waterline thermostat. 2,895,677, 7-21-59, Cl. 236-34.
- Drapeau, Joseph E., Jr., and P. D. Johnson, to The Glidden Co. Catalytic process for preparing cuprous oxide from mixed copper oxides. 2,891,842, 6-23-59, Cl. 23-147.
- Draper, Arthur L., and E. F. Johnson, to Jersey Production Research Co. Recovery of oil from subterranean reservoirs. 2,897,894, 8-4-59, Cl. 166-9.
- Draper Brothers Co.: See—
- Draper, John H., Jr. 2,883,734.
- Draper, John H., Jr. 2,907,093.
- Draper Corp.: See—
- Anderson, Gordon S., and Budzyna. 2,914,093.
- Budzyna, Joseph M. 2,898,946.
- Budzyna, Joseph M. 2,915,092.
- Budzyna, Joseph M., and Crowther. 2,874,727.
- Clement Mack, George E. 2,878,839.
- Clement Mack, George E. 2,914,092.
- Consoletti, Paul C. 2,898,782.
- Consoletti, Paul C. 2,912,020.
- Cugini, John A. 2,886,070.
- Easter, Elmer W. 2,872,943.
- Flamand, Maurice R., and Tosches. 2,888,956.
- Moon, Clifford G. 2,881,807.
- Newbegin, John L., and Banks. 2,872,948.
- Sanderson, Kenneth E., and Milligan. 2,884,016.
- Draper, John H., Jr., to Draper Brothers Co. Paper-maker's wet felt. 2,883,734, 4-28-59, Cl. 28-72.
- Draper, John H., Jr., to Draper Brothers Co. Method of making paper-maker's wet felt. 2,907,093, 10-6-59, Cl. 28-72.
- Draper, Harold D.: See—
- Sines, William V. 2,917,325.
- Draper, Homer L., to Phillips Petroleum Co. Reduction of explosive hazard in nonfloating roof type storage tanks in which combustible liquids are stored. 2,917,201, 12-15-59, Cl. 220-88.
- Draper, Luther O., Shade Co.: See—
- Pidgeon, Luther A. 2,868,285.
- Pidgeon, Elmer F., and Carr. 2,879,965.
- Dravo Corp.: See—
- Meyer, Kurt. 2,913,761.
- Noble, John H. 2,880,035.
- Dray, Merrill E.: See—
- Antonidis, John E., Dray, and Ulm. 2,870,354.
- Dreeben, Jack. Forming and filling packages and apparatus therefor. 2,872,762, 2-10-59, Cl. 53-28.
- Dreeskamp, Herbert: See—
- Spengler, Herbert, Bischoff, and Dreeskamp. 2,884,783.
- Dreffin, Roger S. Neutronic reactor control. 2,917,444, 12-15-59, Cl. 204-193.2.
- Dreher, Elmer H., and G. Perez, to Royal McBee Corp. Electrical terminal connector block. 2,903,671, 9-8-59, Cl. 339-198.
- Dreher, John A., to General Cigar Co. Inc. Variable dispenser of ribbon segments. 2,909,222, 10-20-59, Cl. 164-226.
- Dreher, John J., and L. J. Schwartzkopf, to The Ohio State University Research Foundation. Combination ear-mounted microphone and receiver instrument. 2,904,640, 9-15-59, Cl. 179-156.
- Dreher, John L.: See—
- Carter, Crawford F., and Dreher. 2,892,778.
- Hyman, Herbert H., and Dreher. 2,893,824.
- Dreher, John L., D. E. Koshland, S. G. Thompson, and J. E. Willard, to United States of America, Atomic Energy Commission. Method of reducing plutonium with ferrous ions. 2,907,631, 10-6-59, Cl. 23-14.5.
- Dreher Mfg. Co.: See—
- Koetke, Friedrich A. K. 2,877,033.
- Dreher, Paul A. Collapsible barricade. 2,882,021, 4-14-59, Cl. 256-64.
- Dreher, Wilhelm, to G. M. Pfaff, A.-G. Thread pulling device. 2,883,954, 4-28-59, Cl. 112-242.
- Dreher, William A.: See—
- Goldstein, Irving S., and Dreher. 2,917,408.
- Drehman, Lewis E., and E. O. Box, Jr., to Phillips Petroleum Co. Conversion of highly volatile paraffins to liquid hydrocarbons containing aromatics. 2,881,229, 4-7-59, Cl. 260-673.
- Dreier Brothers, Inc.: See—
- Dreier, Raymond C. 2,869,600.
- Dreier, Raymond C. 2,899,048.
- Dreier, Raymond C., to Dreier Brothers, Inc. Saw structure and blade mount therefor. 2,869,600, 1-20-59, Cl. 145-33.
- Dreier, Raymond C., to Dreier Brothers, Inc. Display carton. 2,899,048, 8-11-59, Cl. 206-45.24.
- Dreifus, Charles, Jr.: See—
- Hamilton, Joseph P. 2,904,297.
- Dreisbach, Robert R., and G. B. Sterling, to The Dow Chemical Co. Process for polymerizing monomeric materials comprising conjugated diolefins and methyl isopropenyl ketone. 2,897,167, 7-28-59, Cl. 260-23.
- Dreisbach, Robert R., and J. L. Lang, to The Dow Chemical Co. Process for making fire retardant cellulosic articles. 2,900,279, 8-18-59, Cl. 117-136.
- Dreislin, Alexander, and L. G. Kaplan, to Allis-Chalmers Mfg. Co. Pilot injection pump. 2,871,796, 2-3-59, Cl. 103-154.
- Dreissen, Hubert R.: See—
- Fontein, Freerk J., and Dreissen. 2,872,041.
- Dreitzler, Melvin E., to Clark Equipment Co. Steering drive axle. 2,871,966, 2-3-59, Cl. 180-43.
- Drelich, Arthur H., to Chicopee Mfg. Corp. Textile-like fabric and method. 2,880,112, 3-31-59, Cl. 117-37.
- Drelich, Arthur H., to Chicopee Mfg. Corp. Durable nonwoven fabric and method. 2,880,113, 3-31-59, Cl. 117-37.
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- Dreman, Abie: See—
- Dreman, Victor. 2,881,537.
- Dreman, Victor, now by change of name, H. Hoolim, 1/2 to A. Dreman. Means used in designing patterns. 2,881,537, 4-14-59, Cl. 35-27.
- Drengler, George: See—
- Southworth, James, Jr., Marsh, Badger, and Drengler. 2,907,809.
- Drennan, Emil J. Method and apparatus for gauging headlight alignment. 2,913,824, 11-24-59, Cl. 33-46.
- Drennan, James G., to Owens-Illinois Glass Co. Condiment containers. 2,889,967, 6-9-59, Cl. 222-498.
- Drenning, John W., to Koppers Co., Inc. Coaxial cable termination. 2,906,809, 9-29-59, Cl. 174-73.
- Drentlaw, Leonard J., 1/2 to P. R. Griebler, and 1/2 to W. Westgor. Carton holders. 2,907,493, 10-6-59, Cl. 220-85.
- Drescher, John F. Impulse generator. 2,904,707, 9-15-59, Cl. 310-15.
- Drescher, John F. Electric relay. 2,919,323, 12-29-59, Cl. 200-93.
- Dresner, Morris H.: See—
- Gordon, Robert B., and McCollum. 2,876,432.
- Dressel, Ralph W.: See—
- Arnold, James S., Dressel, and Haas. 2,893,003.
- Dressen-Barnes Corp.: See—
- McNamee, Bernard F. 2,885,626.
- McNamee, Bernard F. 2,912,638.
- Dresser Harry A., to Zonolite Co. Direct field seeding. 2,909,869, 10-27-59, Cl. 47-58.
- Dresser Industries, Inc.: See—
- Alder, Robert L. 2,898,088.
- Alder, Robert L. 2,901,685.
- Cammaday, William R. 2,896,721.
- Czippott, Akos Z., and Floyd. 2,884,507.
- Czippott, Akos Z., and Floyd. 2,884,508.
- Ecker, Murry F. 2,916,233.
- Erath, Louis W. 2,879,471.
- Erath, Louis W. 2,887,577.
- Erath, Louis W. 2,896,171.
- Erath, Louis W. 2,898,553.
- Erath, Louis W., and Madeley. 2,902,107.
- Falter, Henry E., and Vaughan. 2,897,920.
- Floyd, Acey L., Jr. 2,880,119.
- Halliday, David. 2,887,744.
- Hawthorne, Millo M. 2,897,440.
- Hodges, Stephen B., Lewis, and Thomas. 2,886,172.
- Hoke, Howard L. 2,897,568.
- Hollmann, Hans E. 2,918,573.
- Lamb, Jefferson P. 2,879,648.
- Marx, Paul F. 2,887,446.
- McManis, Louis B. 2,888,636.
- Porter, Forrest V. 2,879,972.
- Risley, Roger E., and Newell. 2,887,328.
- Schardt, Rudolf. 2,887,890.
- Smith, Robert W., and Vaughan. 2,895,568.
- Thatcher, Russell S. 2,886,795.
- Turechek, George F. 2,919,015.
- Dresser, Jasper G., to Dresser Products Inc. Means for reeling coded tape. 2,896,872, 7-28-59, Cl. 242-61.
- Dresser Operations, Inc.: See—
- Garner, Claude R. 2,887,302.
- Hammer, Otto. 2,885,186.
- Hammer, Otto. 2,898,089.
- Payne, William H. 2,885,249.
- Sartor, Raymond W. 2,885,185.
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- Dresser, Willis R., to The Prudential Insurance Company of America. Re-recording mixer for multi-sound track records. 2,899,505, 8-11-59, Cl. 179—100.1.
- Dresser, Willis R., to Prudential Insurance Co. of America. Apparatus for indicating match points of camera fields. 2,906,164, 9-29-59, Cl. 88—16.6.
- Dressler, Herbert, and C. Biondo. Buttonholing device. 2,885,981, 5-12-59, Cl. 112—77.
- Dressler, Russell G. Method for retarding evaporation of water from large bodies of water. 2,903,330, 9-8-59, Cl. 21—60.5.
- Dreuer, C.: *See*—  
Lindquist, Elmer W. 2,872,174.
- Drevers, Josef: *See*—  
Raacke, Bernhard, and Drevers. 2,916,414.
- Drevitson, Wesley B. Tractor for controlling movement of the human hand. 2,869,658, 1-20-59, Cl. 180—1.
- Drew, Charles E. Work holding sleeve member. 2,909,376, 10-20-59, Cl. 279—20.
- Drew, E. F., & Co., Inc.: *See*—  
Barsky, George. 2,886,585.  
Barsky, George, and Babayan. 2,886,438.  
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Barsky, George, Babayan, and Bahoshy. 2,898,211.  
Faulkner, Seymour. 2,889,286.
- Drew, Ernest F. Margarine oil composition. 2,874,056, 2-17-59, Cl. 99—118.
- Drew, Herbert J. Device for raising and lowering basketball bankboards. 2,881,003, 4-7-59, Cl. 273—1.5.
- Drew, Howard E., A. L. Warden, and E. A. Brodeur, Jr., to United States Rubber Co. Method of making slip-finish flock coated rubber article. 2,867,849, 1-13-59, Cl. 18—58.6.
- Drew, John: *See*—  
Gabriel, Gustave O. 2,871,384.  
Hanson, Elwood W., Drew, and Cagnolatti. 2,886,492.  
Hruby, John O., Jr. 2,896,861.
- Drew, Robert D.: *See*—  
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Bourguet, Jean M., Drew, and Ray. 2,901,421.
- Drew, Robert D., to Socony Mobil Oil Co., Inc. Hydrocarbon conversion process and apparatus therefor. 2,880,037, 3-31-59, Cl. 302—59.
- Drew, Stanley J., and C. L. Kanty; said Kanty assor. to said Drew. Box assembly apparatus. 2,898,823, 8-11-59, Cl. 93—55.1.
- Drew, Willard H.: *See*—  
Rulon, Richard M., and Drew. 2,900,545.
- Drewe, John, and P. D. Atkinson, to International Computers and Tabulators Ltd. Impulse gating devices. 2,899,568, 8-11-59, Cl. 307—88.
- Drewitt, James G. N.: *See*—  
Dickie, William A., Drewitt, and Young. 2,869,848.
- Drewitz, Edwin W., and V. Stein, to De Jur-Amsco Corp. Variable resistor with shorted section. 2,898,567, 8-4-59, Cl. 338—92.
- Drexler, Ernest, to Lombard Corp. Control apparatus for extrusion press machinery. 2,897,783, 8-4-59, Cl. 121—38.
- Dreyer, John F.: *See*—  
Brown, Glenn H., Dreyer, Lubowitz, and Middendorf. 2,915,943.
- Dreyfus, Asher, Jr. Display rack clip. 2,868,385, 1-13-59, Cl. 211—71.
- Dreyfus, Francois. Elements for the construction of partitions. 2,915,149, 12-1-59, Cl. 189—34.
- Dreyfus, Jean A. Electrical contact device having adjustable contacts. 2,874,251, 2-17-59, Cl. 200—166.
- Dréyfus, Robert L., M. A. Howe, Jr., and R. R. Perdue, to W. R. Grace & Co. Method and apparatus for packaging articles in shrinkable plastic film. 2,904,943, 9-22-59, Cl. 53—33.
- Drezner, Lee. Furniture leg with insert. 2,868,602, 1-13-59, Cl. 311—109.
- Driehaus, Herman W., to Goodman Mfg. Co. Trimmer chain tensioning means for boring type mining machine. 2,901,230, 8-25-59, Cl. 262—7.
- Driemeyer, George F., J. C. Travilla, and R. E. Stein, to General Steel Castings Corp. Railway vehicle structure. 2,908,231, 10-13-59, Cl. 105—196.
- Drieves, Fred J., deceased, M. Drieves, executrix. Connector for joining severed wires. 2,918,519, 12-22-59, Cl. 174—84.
- Drieves, Margaret: *See*—  
Drieves, Fred J. 2,918,519.
- Drilco Oil Tools, Inc.: *See*—  
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- Drillick, Jacob H., to Monroe Calculating Machine Co. Electromagnetic stepping device. 2,895,091, 7-14-59, Cl. 317—192.
- Driltrol: *See*—  
Hering, Daniel B. 2,885,182.
- Drinker, Henry S.: *See*—  
Ehrisman, Henry O., and Drinker. 2,896,709.
- Drisch, Nicolas, and P. Meyer, to Chimotex, Societe Anonyme. Process of spinning viscose containing thiodiglycol. 2,912,299, 11-10-59, Cl. 18—54.
- Driscoll, Shirley G., D. M. Surgenor, and J. L. Tullis, to Protein Foundation Inc. Washing centrifuge. 2,906,453, 9-29-59, Cl. 233—28.
- Driscoll, William T., W. F. Fowler, and R. J. Hellmann, to Eastman Kodak Co. High wet strength photographic paper. 2,887,380, 5-19-59, Cl. 96—85.
- Driskel, Don W., and R. L. Hayman, to Haskell Engineering Associates. Fluid actuator with locking means. 2,887,991, 5-26-59, Cl. 121—40.
- Driskill, Luther C. T. Hospital bed. 2,902,701, 9-8-59, Cl. 5—62.
- Driss, Louis, and E. J. Kahn; said Kahn assor. to said Driss. Machine for dispensing spoons or like articles. 2,911,127, 11-3-59, Cl. 221—258.
- Dritz, Arthur, to John Dritz & Sons. Combination fountain pen and brush. 2,869,162, 1-20-59, Cl. 15—124.
- Dritz, Arthur, to John Dritz & Sons. Covered buckle. 2,912,737, 11-17-59, Cl. 24—163.
- Dritz, John, & Sons: *See*—  
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Dritz, Arthur. 2,912,737.
- Driver-Harris Co.: *See*—  
Ciccone, Patsy, and Wallin. 2,909,209.
- Driver, Paul C. Force measuring apparatus. 2,899,190, 8-11-59, Cl. 264—1.
- Drnc, Harry F., L. W. Snyder, and R. H. Johnson, to Container Corp. of America. Heavy duty paperboard container. 2,900,123, 8-18-59, Cl. 229—45.
- Drobne, John R.: *See*—  
Ceresa, Myron, and Drobne. 2,891,871.
- Drodofsky, Martin, to C. Zeiss. Geodetical instruments. 2,911,877, 11-10-59, Cl. 88—1.
- Dröel, Louis W., to General Dynamics Corp. Telephone sub-stent dust cover. 2,892,902, 6-30-59, Cl. 179—159.
- Drohman, Frank C.: *See*—  
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,879,997.  
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,890,050.
- Droitcour, Michael A. Operating means for bed-and-cylinder printing press. 2,896,538, 7-28-59, Cl. 101—275.
- Drom, Edwin L., and R. J. Reinebach, to Western Electric Co., Inc. Apparatus for impregnating articles. 2,910,959, 11-3-59, Cl. 118—50.
- Dromgold, Clarence W. Pipeline washing apparatus. 2,897,827, 8-4-59, Cl. 134—56.
- Dronsfield Brothers Ltd.: *See*—  
Dronsfield, Samuel W. 2,904,935.
- Dronsfield, Samuel W., to Dronsfield Brothers Ltd. Camber grinding machines. 2,904,935, 9-22-59, Cl. 51—49.
- Drope, Winfried: *See*—  
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Schaub, Franz, von Hoffman, Roelen, and Drope. 2,911,730.
- Dropkin, Herbert A.: *See*—  
Cacheris, John C., and Dropkin. 2,896,172.
- Droulard, Nelson R.: *See*—  
Barnes, Glendon M., and Droulard. 2,872,864.
- Drow, Donald F., to Minneapolis-Honeywell Regulator Co. Fuel control mechanism for heat appliances. 2,871,930, 2-3-59, Cl. 158—131.
- Drtna, Otto V. Double-twist spindle for high speed up-twisting of fine-denier yarns. 2,880,567, 4-7-59, Cl. 57—58.83.
- Drtna, Otto V. Synthetic fiber spinning machine drive. 2,895,284, 7-21-59, Cl. 57—77.
- Dru, Marcel R., to Societe Jaruza A.G. Chur. Apparatus for separating solid materials of different specific gravities by means of a suspension. 2,889,043, 6-2-59, Cl. 209—172.5.
- Druaux, Jean: *See*—  
Bernas, René, and Druaux. 2,909,697.
- Drubin, Meir, to General Precision Laboratory Inc. High frequency multivibrator. 2,906,965, 9-29-59, Cl. 331—145.
- Druce, William J., to Engelhard Industries Ltd. Developer feed tank apparatus. 2,887,029, 5-19-59, Cl. 95—89.
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- Dube, Oscar J. Shoe counters. 2,867,920, 1-13-59, Cl. 36-68.
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- Dubecky, Petro, to Johns-Manville Corp. Fabricating asbestos shingle siding unit. 2,879,555, 3-31-59, Cl. 20-5.
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- Dubost, Gerard: See—  
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- Dubovick, Gustave. Heat retriever. 2,902,265, 9-1-59, Cl. 257-171.
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- Du Breuil, Robert A. Toy airplane. 2,867,941, 1-13-59, Cl. 46-79.
- Du Breuil, Shirley: See—  
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- Dubrovnik, John, to W. M. Welch Mfg. Co. Vacuum pump. 2,885,143, 5-5-59, Cl. 230-153.
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- Du Brul, William E. Accounting form assembly. 2,886,345, 5-12-59, Cl. 282-27.
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- Duckett, William A., and W. H. Lloyd, to Woodhead-Monroe Ltd. Lubricating seal for shock absorbers. 2,916,106, 12-8-59, Cl. 188-100.
- Duckwall, Alvina L.: See—  
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- Duckwitz, Fred: See—  
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- Duckworth, Clifford L., to Olin Mathieson Chemical Corp. Cartridge. 2,877,709, 3-17-59, Cl. 102-39.
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- Duclot, Henri L. L. A. Continuous track for track-laying vehicles. 2,914,360, 11-24-59, Cl. 305-38.
- Ducommun, Georges, to Baumgartner Freres S. A. Time-piece. 2,891,378, 6-23-59, Cl. 58-127.
- Ducon Co., Inc.: See—  
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- Du Coudrey, Jacques F., to Societe Generale de Mecanique et de Metallurgie. Machines for machining helicoid-shaped pieces. 2,875,661, 3-3-59, Cl. 82-5.
- Ducrot, Albert. Folding bed adapted when folded to constitute a seat with back. 2,897,517, 8-4-59, Cl. 5-42.
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- Dudash, Michael A., to General Motors Corp. Adjustable length linkage. 2,894,774, 7-14-59, Cl. 287-58.
- Duddell, Howard: See—  
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- Duddy, James J. Service lamp. 2,908,811, 10-13-59, Cl. 240-52.1.
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- Dudgeon, Frank M. Tool for externally truing and honing cylindrical workpieces. 2,908,119, 10-13-59, Cl. 51-241.
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- Dudley, John W., to Minneapolis-Honeywell Regulator Co. Inductive coupling for sonar apparatus. 2,881,408, 4-7-59, Cl. 340-3.
- Dudley, John W., and R. H. Malm, to Minneapolis-Honeywell Regulator Co. Sonar apparatus. 2,890,437, 6-9-59, Cl. 340-3.
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- Duenke, Clarence G., to Moloney Electric Co. Adjustable cutting dies. 2,897,892, 8-4-59, Cl. 164-31.
- Duenke, Clarence G., and H. J. Veltin, to Moloney Electric Co. Electrical testing apparatus. 2,905,891, 9-22-59, Cl. 324-73.
- Duenke, Clarence G., and P. W. Muschong, to Moloney Electric Co. Constant current transformers. 2,906,976, 9-29-59, Cl. 336-40.
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- Duennenberger, Max: See—  
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- Duer, Morris J., to General Motors Corp. Control valve mechanism for pressure operated actuating device. 2,894,501, 7-14-59, Cl. 123-179.
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- Duff, Jack E., to The Hoover Co. Air actuated cleaning tool. 2,867,836, 1-13-59, Cl. 15-404.
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- Duffin, Geoffrey E.: See—  
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- Duffin, James M.: See—  
Cosgrove, Stanley L., and Duffin. 2,891,850.
- Duff-Norton Co.: See—  
Carroll, Charles. 2,884,800.
- Duffy, Anne R.: See—  
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- Duffy, Edmund T.: See—  
Ehlert, Clayton J., and Duffy. 2,898,171.
- Duffy, James J., to Ford Motor Co. Automatic transmission controls. 2,907,232, 10-6-59, Cl. 74—732.
- Duffy, John A., Jr., J. M. Brown, and G. P. Catrambone. Apparatus for quick release of pressure from a piezoelectric crystal. 2,888,821, 6-2-59, Cl. 73—4.
- Duffy, John R., G. W. Holz, and A. W. Lillenberg, to Lindberg Engineering Co. Electric heating furnace and method of heating. 2,896,004, 7-21-59, Cl. 13—22.
- Duffy, Joseph E.: See—  
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Thompson, Thomas R., Duffy, and Dybvig. 2,888,347.
- Duffy, Michael, and V. P. Soules, to Ex-Cell-O Corp. Apparatus for feeding blanks to a container fabricating machine. 2,887,021, 5-19-59, Cl. 93—53.
- Duffy, Philip A., to Westinghouse Electric Corp. X-ray apparatus. 2,900,513, 8-18-59, Cl. 250—53.
- Dufour, Charles: See—  
Boulet, Francois, Dufour, and Giraud. 2,890,361.
- Dufour, Raymond J. Temperature compensating means for fluid meters. 2,886,969, 5-19-59, Cl. 73—233.
- Dufour, Raymond J., and D. B. Miller. Fireless welded tie-in coupling for gas mains. 2,893,758, 7-7-59, Cl. 285—286.
- Dufour, René, M. Verron, and A. G. Le Magoarou, to Societe Anonyme Cartoucherie Francaise. Devices for producing manganese dioxide by electrolysis. 2,867,570, 1-6-59, Cl. 204—83.
- Dufour, Roland P., to International Business Machines Corp. Electronic storage device. 2,872,662, 2-3-59, Cl. 340—173.
- Dufresne, Albert L., to Societe d'Etudes et d'Applications Industrielles Commerciales et Immobilières "Inter-Technique." Fan and water pump unit for cooling an internal combustion engine. 2,912,963, 11-17-59, Cl. 123—41.12.
- Du Fresne, Armand F., and F. H. Page, Jr., to Du Pa Co., Inc. Welding apparatus. 2,872,564, 2-3-59, Cl. 219—86.
- Duft, Marion F. Reciprocating hammer mechanism. 2,875,647, 3-3-59, Cl. 76—5.
- Du Gal, Samuel. Machines for cleaning watch and like small machine parts. 2,886,046, 5-12-59, Cl. 134—58.
- Du Gan, George M.: See—  
Deighton, William W., Du Gan, Markgraf, and Stromback. 2,914,759.
- Dugan, Henry M. and J. J. Leather-covered button and method of manufacture. 2,869,203, 1-20-59, Cl. 24—113.
- Dugan, James C.: See—  
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- Dugan, James J.: See—  
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- Dugan, John W., to Flo-Mix Fertilizers Corp. Apparatus for converting liquid anhydrous ammonia to aqua ammonia. 2,872,297, 2-3-59, Cl. 23—285.
- Dugan, John W., to Flo-Mix Fertilizers Corp. Apparatus for mixing fertilizer solutions for soil conditioning. 2,905,117, 9-22-59, Cl. 111—7.
- Dugas, Joseph J., to Higgins, Inc. Method of making expanded cellular cement products. 2,915,802, 12-8-59, Cl. 25—155.
- Duggan, James J.: See—  
Goldberg, Abraham A., and Duggan. 2,886,709.
- Duggan, James J., E. W. Hain, and G. C. Haettinger, to Union Carbide Corp. Process and apparatus for generating and discharging foam. 2,908,334, 10-13-59, Cl. 169—32.
- Duggan, Terence O'D.: See—  
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- Dugger, Jess N.: See—  
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- Dugger, Ralph L., to The Unipress Co., Inc. Rotary pressing machine. 2,899,761, 8-18-59, Cl. 38—5.
- Dugle, Thomas E.: See—  
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- Dugliss, Charles H.: See—  
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- Du Grenier, Francis C., and F. B. Perri; said Perri assor. to B. E. Bouchard. Vending machine having improved magazine for storing and dispensing articles. 2,884,163, 4-28-59, Cl. 221—90.
- Duhamel, Eugene, and A. Stephan, to Societe Nouvelle Baelg-Gangloff. Apparatus for molding tubes. 2,903,746, 9-15-59, Cl. 18—26.
- Duhnkrack, George B., and C. H. Dugliss, to American Cyanamid Co. Flame, resistant polyester composition containing a halogenated phosphonate. 2,877,204, 3-10-59, Cl. 260—45.4.
- Duin, Hendrik J., and J. A. Schaap, to Lever Brothers Co. Fatty products. 2,919,196, 12-29-59, Cl. 99—123.
- Duin, Hendrik J., and J. A. Schaap, to Lever Brothers Co. Method of preparing oil-in-water emulsions. 2,919,197, 12-29-59, Cl. 99—123.
- Duinker, Simon: See—  
Braicks, Johan W., and Duinker. 2,912,640.
- Duinker, Simon, to North American Philips Co., Inc. Device for recording and re-transmitting coded information. 2,874,370, 2-17-59, Cl. 340—174.
- Duinker, Simon, to North American Philips Co., Inc. Magnetic memory device. 2,890,441, 6-9-59, Cl. 340—174.
- Duinker, Simon, to North American Philips Co., Inc. Magnetic memory device. 2,907,988, 10-6-59, Cl. 340—174.
- Duinker, Simon, and W. K. Westmijze, to North American Philips Co., Inc. Arrangement for scanning and reproducing magnetic fields. 2,870,267, 1-20-59, Cl. 179—100.2.
- Duinker, Simon, and W. K. Westmijze, to North American Philips Co., Inc. Magnetic reproducing head. 2,907,834, 10-6-59, Cl. 179—100.2.
- Duir, John H.: See—  
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- Vaell, Raoul P., and Duir. 2,891,847.
- Duisburger Kupferhuetten: See—  
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- Nowacki, Hans J., Schackmann, Teworte, and Vossel. 2,879,158.
- Dujardin, Albert J. A. J., to Ecremeuses Melotte, Societe Anonyme. Apparatus for separating a liquid from an overlying layer of foam. 2,880,876, 4-7-59, Cl. 210—523.
- Duke, James B., to Minerals & Chemicals Corp. of America. Clay brightness by flotation. 2,894,628, 7-14-59, Cl. 209—166.
- Duke, Marshall W., and D. A. Gordon, to The Dow Chemical Co. Process for raising the melting point of acetone-soluble copolymers. 2,878,238, 3-17-59, Cl. 260—85.5.
- Duke, Robert L.: See—  
Hulls, Leonard R., and Duke. 2,909,717.
- Duke, Thomas A. Disposable container. 2,878,967, 3-24-59, Cl. 222—107.
- Duke, Vernon J., to Radio Corp. of America. Continuously moving film scanner. 2,890,277, 6-9-59, Cl. 178—7.2.
- Duke, William H., to International Business Machines Corp. Servo tachometer. 2,905,859, 9-22-59, Cl. 324—70.
- Dukes, Eugene J. Spray gun. 2,884,206, 4-28-59, Cl. 239—530.
- Dukes, John M. C., and J. Kemp, to International Standard Electric Corp. Unitary antenna-receiver utilizing micro-strip conductors. 2,874,276, 2-17-59, Cl. 250—20.
- Dulaney, Eugene L.: See—  
McAleer, William, and Dulaney. 2,875,132.
- Dulaney, Eugene L., to Merck & Co., Inc. Production of oxidases by aspergilli for monohydroxylation of steroids. 2,905,593, 9-22-59, Cl. 195—67.
- Dulaney, Eugene L., and W. J. McAleer, to Merck & Co., Inc. Preparation of 21-hydroxy steroids. 2,875,133, 2-24-59, Cl. 195—51.
- Dulaney, Eugene L., and W. J. McAleer, to Merck & Co., Inc. 14  $\alpha$ -hydroxyprogesterones. 2,888,469, 5-26-59, Cl. 260—397.3.
- Dulaney, Richard O. Pneumatic rotary drill hammer. 2,887,989, 5-26-59, Cl. 121—17.
- Dulaney, Richard O. Pneumatic drill hammer. 2,917,025, 12-15-59, Cl. 121—16.
- Dulaney, William B. Nesting paperboard boxes. 2,878,983, 3-24-59, Cl. 229—34.
- Dulberg, Murray. Holder with means for ejecting contents. 2,895,607, 7-21-59, Cl. 206—56.
- Dulberg, Murray. Swivel type flashlight with safety means. 2,912,567, 11-10-59, Cl. 240—10.68.
- Dulin, Charles H., to Aluminum Co. of America. Method of bonding aluminous metal to dissimilar metal. 2,908,073, 10-13-59, Cl. 29—488.
- Dulin, Francis C., to Thompson Products, Inc. Method of reconditioning a connecting rod assembly. 2,875,513, 3-3-59, Cl. 29—401.
- Dulin, Francis C., to Thompson Products, Inc. Connecting rod assembly. 2,876,050, 3-3-59, Cl. 308—74.



- Dulis, Edward J.: *See*—  
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- Dull, William B., and P. E. Daugherty, to Kingston Products Corp. Rotary type switch. 2,876,313, 3-3-59, Cl. 200—153.
- Dull, William L., to Armco Steel Corp. Shipping rack for wire coils. 2,916,152, 12-8-59, Cl. 211—49.
- Dullaghan, Matthew E., and H. R. Hochstadt, to Humphreys Medicine Co., Inc. Process for extracting and reconstituting witch hazel. 2,897,115, 7-28-59, Cl. 167—62.
- Dulski, Stanley. Knockdown tandem runner bicycle type sled. 2,883,205, 4-21-59, Cl. 280—16.
- Dumanowski, Ferdinand J., to J. I. Case Co. Corn harvester. 2,867,068, 1-6-59, Cl. 56—15.
- Dumanowski, Ferdinand J., to J. I. Case Co. Delivery pipe control for a harvester. 2,916,330, 12-8-59, Cl. 302—34.
- Dumas, Albert. Combustion chamber air feeding attachment. 2,879,836, 3-31-59, Cl. 158—15.
- Dumas, Robert E., to American Machine & Foundry Co. Bowling pin spotting machine control mechanism. 2,890,886, 6-16-59, Cl. 273—43.
- Dumatic Industries, Inc.: *See*—  
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- Dumbauld, George K.: *See*—  
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- Dumbolton, Carl P. Door construction. 2,895,183, 7-21-59, Cl. 20—19.
- Dumesnil, Maurice E., and O. A. Short, to E. I. du Pont de Nemours and Co. Resistors. 2,886,476, 5-12-59, Cl. 117—212.
- Du Mond, Virgil R. Poultry drinking fountain. 2,872,898, 2-10-59, Cl. 119—74.
- Du Mont, Allen B., Laboratories, Inc.: *See*—  
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Ault, Cyrus F. 2,904,646.  
Bang, Mogens W. 2,884,612.  
Berkley, Carl. 2,909,599.  
Beste, Harold E. 2,884,561.  
Burns, Joseph, and Beckers. 2,896,106.  
Casey, Robert F. 2,871,350.  
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De Bell, John M., Jr. 2,909,774.  
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Leighton, Herndon W. 2,900,762.  
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Mezger, George R. 2,890,921.  
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Quinlan, Donald E. 2,904,642.  
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- Dumont Corp.: *See*—  
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- Dumont, Donald C., to Dennison Mfg. Co. Packages for displaying pens, pencils and the like. 2,872,030, 2-3-59, Cl. 206—45.14.
- Dumont Freres & Cie.: *See*—  
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- Dumont Milling Industries, Division of Dumont: *See*—  
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- Dumore Co., The: *See*—  
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- Du-More Fixture Co., Inc.: *See*—  
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- Dumore, Lloyd F. Process of making fertilizer from poultry droppings and feathers. 2,906,615, 9-29-59, Cl. 71—18.
- Dumousseau, Claude R. J., and A. E. J. Chatelon, to International Standard Electric Corp. Systems for recording and selecting information. 2,881,415, 4-7-59, Cl. 340—174.
- Dunagan, Edgar L., L. P., and K. M. Support for trash can. 2,911,180, 11-3-59, Cl. 248—346.
- Dunagan, Kenneth M.: *See*—  
Dunagan, Edgar L., L. P., and K. M. 2,911,180.
- Dunagan, Lena P.: *See*—  
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- Dunaway, Reece J., to The Garrett Corp. Temperature compensated pneumatic governor. 2,873,754, 2-17-59, Cl. 137—81.
- Dunaway, Ulrich C. Spring clasps. 2,908,060, 10-13-59, Cl. 24—254.
- Dunbar, Alver, G. J. Hausmann, and B. S. Johnson, to Franklin Research Co. Composition for deposition of a parting surface film. 2,907,681, 10-6-59, Cl. 117—92.
- Dunbar, Frank H., to F. J. Reilly. Refrigerating system having reverse flow. 2,896,425, 7-28-59, Cl. 62—282.
- Dunbar, George W., to Kusan Inc. Automatic coupling and uncoupling means for miniature trains. 2,872,051, 2-3-59, Cl. 213—75.
- Dunbar, John V.: *See*—  
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- Dunbar, Joseph E., to The Dow Chemical Co. N,N'-bis(di-alkoxyphosphinothioyl)-p-benzoquinone diimine compounds. 2,907,775, 10-6-59, Cl. 260—396.
- Dunbar, Robert R. Holder construction. 2,869,883, 1-20-59, Cl. 279—56.
- Dunbar, Spurgeon P., to Hofmann Industries, Inc. Mop. 2,898,617, 8-11-59, Cl. 15—119.
- Duncan, Alan C.: *See*—  
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- Duncan, Angus W., to The Mining Engineering Co. Ltd. Scraper chain conveyor structures. 2,869,713, 1-20-59, Cl. 198—204.
- Duncan, Angus W., to The Mining Engineering Co. Ltd. Roof supports. 2,872,147, 2-3-59, Cl. 248—351.
- Duncan, Angus W., to The Mining Engineering Co. Ltd. Roof supports. 2,888,230, 5-26-59, Cl. 248—354.
- Duncan, Angus W., to The Mining Engineering Co. Ltd. Roof supports. 2,888,231, 5-26-59, Cl. 248—356.
- Duncan, Angus W., to The Mining Engineering Co. Ltd. Chock release. 2,893,679, 7-7-59, Cl. 248—351.
- Duncan, Angus W., to The Mining Engineering Co. Ltd. Chock release. 2,904,301, 9-15-59, Cl. 248—351.
- Duncan, Bobby J., to Sperry Rand Corp. Microwave isolator. 2,915,713, 12-1-59, Cl. 333—24.
- Duncan, Chester L. Attachment for starting an internal combustion engine. 2,901,911, 9-1-59, Cl. 74—7.
- Duncan Electric Co., Inc.: *See*—  
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Milligan, James W., and Green. 2,869,935.  
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- Duncan, George R.: *See*—  
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Duncan, Lloyd P., Leon L. and G. R. 2,873,723.
- Duncan, Golda A.: *See*—  
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- Duncan, Herbert. Tractor clutch shifting mechanism for power take-off. 2,888,087, 5-26-59, Cl. 180—53.
- Duncan, Ira J., to Detrex Chemical Industries, Inc. Silicone resin remover and method. 2,897,104, 7-28-59, Cl. 134—29.
- Duncan, James E.: *See*—  
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- Duncan, James E., to Pittsburgh Plate Glass Co. Glass composition. 2,902,377, 9-1-59, Cl. 106—52.
- Duncan, James E., to Pittsburgh Plate Glass Co. Ophthalmic glass. 2,913,345, 11-17-59, Cl. 106—52.
- Duncan, James E., and S. L. Seymour, to Pittsburgh Plate Glass Co. Ivory, opalescent glasses. 2,898,219, 8-4-59, Cl. 106—52.
- Duncan, James K.: *See*—  
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- Duncan, James O. Liquid dispensing device. 2,872,953, 2-10-59, Cl. 141—237.
- Duncan, John E. Hysteresis clutch. 2,912,607, 11-10-59, Cl. 310—99.
- Duncan, Leon L.: *See*—  
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- Duncan, Leon L., Lloyd P. and G. R., to Zero Manufacturing Co. Bulk milk tank and washer therefor. 2,873,722, 2-17-59, Cl. 119—14.09.
- Duncan, Lloyd P.: *See*—  
Duncan, Leon L., Lloyd P., and G. R. 2,873,722.
- Duncan, Lloyd P., Leon L. and G. R., to Zero Manufacturing Co. Vacuum bulk milk tank with agitators. 2,873,723, 2-17-59, Cl. 119—14.18.
- Duncan, Nesbit L.: *See*—  
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- Duncan, Owen G. Storage battery with flush secondary cover. 2,880,261, 3-31-59, Cl. 136—168.
- Duncan, Richard F., to Minnesota Mining & Mfg. Co. Machine for making ornamental pompon bows. 2,872,086, 2-3-59, Cl. 223—46.
- Duncan, Robert J.: *See*—  
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- Duncan, Robert W.: *See*—  
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- Duncan, Sidney. Car top boat carrier and loader. 2,885,102, 5-5-59, Cl. 214—450.
- Duncan, Theodore R.: *See*—  
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- Duncan, Theodore R. Music comb with cast base. 2,876,670, 3-10-59, Cl. 84—94.
- Duncan, Theodore R., 26% to G. A. Duncan, 24% to T. R. Duncan, and 24% to A. C. Duncan. Phonograph repeat mechanism. 2,886,328, 5-12-59, Cl. 274—15.
- Duncan, William A. Lawn mower. 2,891,371, 6-23-59, Cl. 56—252.
- Dunderdale, John, and A. H. Cockett, to The British Oxygen Co. Ltd. Methods of and means for the estimation of small quantities of gaseous impurities in rare gases. 2,916,693, 12-8-59, Cl. 324—33.
- Dunderman, Fred J. Domestic oil burner electrode gauge. 2,896,334, 7-28-59, Cl. 33—180.



- Dunenfeld, Marvin S.: *See*—  
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- Duner, Joseph. Automobile bed platform. 2,886,831, 5-19-59, Cl. 5-94.
- Dunes, Walter A.: *See*—  
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- Dungey, James, to Handi-Mugs Inc. Separable drinking rim and opener for can containers. 2,881,952, 4-14-59, Cl. 222-86.
- Dungler, Julien. Enclosure for treating web material. 2,877,636, 3-17-59, Cl. 68-5.
- Dungler, Julien. Drying of fabrics, papers, cardboard, and other lengthy materials. 2,896,335, 7-28-59, Cl. 34-68.
- Dunham-Bush, Inc.: *See*—  
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- Dunham, David W. Combined wrench and marking device. 2,901,934, 9-1-59, Cl. 81-53.
- Dunham, George W.: *See*—  
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- Dunham, George W. Brake mechanism. 2,875,858, 3-3-59, Cl. 188-77.
- Dunham, Kenneth R.: *See*—  
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- Dunham, Stuart B., to General Electric Co. Dust particle counting apparatus. 2,887,227, 5-19-59, Cl. 209-209.
- Dunham, Thomas M., to Aurora Equipment Co. Snap-on bin divider. 2,884,139, 4-28-59, Cl. 211-184.
- Dunipace, Donald W.: *See*—  
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- Dunkel, Günter: *See*—  
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- Dunkel, Morris: *See*—  
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- Dunkelberger, Jack E.: *See*—  
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- Dunkelberger, Milton S., deceased; J. E. Dunkelberger, executor, to The American Display Co. Display assembly. 2,884,726, 5-5-59, Cl. 40-106.41.
- Dunker, Henry C. L. Tennis balls. 2,896,949, 7-28-59, Cl. 273-61.
- Dunkerley, Arthur A. Camshaft bearing installing tool. 2,899,741, 8-18-59, Cl. 29-263.
- Dunkerley, Cleo K., and G. L. Rushing, to United Shoe Machinery Corp. Sewing machines. 2,902,955, 9-8-59, Cl. 112-60.
- Dunkle, Robert V.: *See*—  
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- Dunlap, Acton: *See*—  
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- Dunlap, Edwin V., to Aqua Matic Inc. Motor-operated valve. 2,871,883, 2-3-59, Cl. 137-633.
- Dunlap, Henry F.: *See*—  
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- Dunlap, Henry L.: *See*—  
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Chapman, Harvey W., and Dunlap. 2,900,864.
- Dunlap, Henry L., to Evans Products Co. Freight loading apparatus. 2,879,721, 3-31-59, Cl. 105-369.
- Dunlap, Henry L., to Evans Products Co. Cross bar. 2,879,722, 3-31-59, Cl. 105-369.
- Dunlap, Henry L., to Evans Products Co. Freight loading cross bar. 2,887,963, 5-26-59, Cl. 105-369.
- Dunlap, Henry L., to Evans Products Co. Freight securing means. 2,895,430, 7-21-59, Cl. 105-369.
- Dunlap, Henry L., to Evans Products Co. (Delaware). Freight securing bar. 2,900,925, 8-25-59, Cl. 105-369.
- Dunlap, Irving R., and F. D. Patchen, to Socony Mobil Oil Co., Inc. Cement. 2,878,875, 3-24-59, Cl. 166-31.
- Dunlap, Isaac R.: *See*—  
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- Dunlap, Isaac R., to Johnson & Johnson. Process for making a unified fibrous web. 2,905,584, 9-22-59, Cl. 162-135.
- Dunlap, James L. Valve structures. 2,889,852, 6-9-59, Cl. 137-625.19.
- Dunlap, John G., C. L. Palmer, and R. Seferian, to Esso Research and Engineering Co. Integrated hydrofining process. 2,906,694, 9-29-59, Cl. 208-97.
- Dunlap, Kermit S., to Bell Telephone Laboratories, Inc. Eight party full selective ringing system. 2,875,279, 2-24-59, Cl. 179-17.
- Dunlap, Lawrence H., and J. A. Parker, to Armstrong Cork Co. Linoleum composition and process of making it. 2,873,201, 2-10-59, Cl. 106-228.
- Dunlap, Marion W., to Indiana Commercial Filters Corp. Method of making a filter cartridge. 2,918,764, 12-29-59, Cl. 53-24.
- Dunlap, Robert B., to Jacob S. Kamborian. Lasting machine with improved wiper action. 2,891,265, 6-23-59, Cl. 12-12.4.
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- Dunlap, William, and H. J. McDermott, to American Viscose Corp. Apparatus for lacing spinning tubes. 2,872,702, 2-10-59, Cl. 18-8.
- Dunleavy, James F. Filing folders. 2,874,699, 2-24-59, Cl. 129-16.7.
- Dunlee Corp.: *See*—  
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- Dunlop, Charles A., to Jersey Production Research Co. Tubing joint connection. 2,915,322, 12-1-59, Cl. 285-10.
- Dunlop, Donald D.: *See*—  
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- Dunlop Rubber Co. Ltd.: *See*—  
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Sear, Derek W., and Osborne. 2,891,917.  
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- Dunlop Tire and Rubber Corp.: *See*—  
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- Dunmire, Paul G.: *See*—  
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- Dunmire, Russell P. Hypodermic syringes. 2,876,771, 3-10-59, Cl. 128-216.
- Dunmire, Russell P. Hypodermic syringes. 2,888,924, 6-2-59, Cl. 128-218.
- Dunn, Earl F.: *See*—  
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- Dunn, Earl F., to The Singer Mfg. Co. Dual purpose feet for blindstitch machines. 2,882,850, 4-21-59, Cl. 112-260.
- Dunn, Earl F., to The Singer Mfg. Co. Sewing machine feeding mechanisms. 2,899,920, 8-18-59, Cl. 112-210.
- Dunn, Edward J., Jr., and M. Kushner, to National Lead Co. Composite antimony oxide-silica pigment and process of manufacture. 2,882,178, 4-14-59, Cl. 106-303.
- Dunn, Eustace S. Self-equalizing thrust device. 2,871,070, 1-27-59, Cl. 308-160.
- Dunn, George B., Jr., to General Electric Co. Three phase induction motor winding. 2,905,840, 9-22-59, Cl. 310-202.
- Dunn, Grace T. Sanitary belt arrangement. 2,871,859, 2-3-59, Cl. 128-289.
- Dunn, Holbert E., to Vanadium Corp. of America. Apparatus for indicating the dip of an electrode in a submerged arc electric furnace. 2,901,828, 9-1-59, Cl. 33-125.
- Dunn, Howard J., to Van Camp Sea Food Co., Inc. Stable powdered oil soluble vitamins and method of preparing stable powdered oil soluble vitamins. 2,897,119, 7-28-59, Cl. 167-81.
- Dunn, J. Frank: *See*—  
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- Dunn, Jesse T., to Union Carbide Corp. Refining of acrylonitrile. 2,878,166, 3-17-59, Cl. 202-39.5.
- Dunn, John E.: *See*—  
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- Dunn, John F., to Daystrom, Inc. Photographic exposure meters. 2,879,690, 3-31-59, Cl. 88-23.
- Dunn, Joseph B., to General Motors Corp. Refrigerating apparatus. 2,909,314, 10-20-59, Cl. 230-47.
- Dunn, Lewis R., and L. W. Eckert, to Armstrong Cork Co. Fiberboard and method of flameproofing the same. 2,875,044, 2-24-59, Cl. 92-3.
- Dunn, Lonnie M.: *See*—  
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- Dunn, Lyman D. Portable food and beverage container or holder. 2,875,940, 3-3-59, Cl. 229-30.
- Dunn, Maurice B.: *See*—  
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- Dunn, Samuel G. Starting bar for horse racing. 2,868,168, 1-13-59, Cl. 119-15.5.
- Dunn, Thomas J. J.: *See*—  
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- Dunn, Thomas P., to Revere Copper and Brass, Inc. Induction welding of tubes. 2,912,549, 11-10-59, Cl. 219-8.5.
- Dunn, Walter D. Tube and bottle closures. 2,873,895, 2-17-59, Cl. 222-522.
- Dunn, William T.: *See*—  
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- Dunning, Franklin W.: *See*—  
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- Dunning, Leighton, to W. M. Wilson's Sons, Inc. Registering meter re-setting means. 2,885,147, 5-5-59, Cl. 235-144.



- Dunning, Milton W. Lawn edger. 2,888,993, 6-2-59, Cl. 172-15.
- Dunning, Robert M.: *See*—  
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- Dunsmuir, Robert, to The British Thomson-Houston Co. Ltd. Klystrons. 2,871,396, 1-27-59, Cl. 315-5.39.
- Dunsmuir, Robert, to The British Thomson-Houston Co. Ltd. Injection magnetrons. 2,871,406, 1-27-59, Cl. 315-39.63.
- Dunstan, Jack: *See*—  
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- Dunstan, Phillip E., to Whirlpool Corp. Automatic igniter. 2,874,762, 2-24-59, Cl. 158-28.
- Duo-Bed Corp.: *See*—  
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- Duo-Flex Corp.: *See*—  
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- Duplan Corp., The: *See*—  
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- Dupler, Raymond R. Air duct mounting device. 2,878,529, 3-24-59, Cl. 20-4.
- Dupli-Color Products Co., Inc.: *See*—  
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- Duplin, Victor J., Jr., to The Babcock & Wilcox Co. Refractory mix. 2,877,125, 3-10-59, Cl. 106-67.
- Duplin, Victor J., Jr., to The Babcock & Wilcox Co. Method of providing magnesite ash resistant furnace lining. 2,889,608, 6-9-59, Cl. 25-155.5.
- Du Pont de Nemours, E. I., and Co.: *See*—  
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- Anderson, Frederick E. 2,911,761.
- Anderson, John L., and Winberg. 2,876,216.
- Apotheker, David. 2,875,258.
- Arnold, Herrick R., Fawcett, and Gilbert. 2,900,235.
- Arnold, Robert G., and Simons. 2,902,474.
- Baevsky, Melvin M. 2,873,196.
- Baldini, James T., and Rosenberg. 2,879,162.
- Ballard, Kermit H. 2,887,402.
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- Barkley, Charles S. 2,887,787.
- Barney, Arthur L. 2,893,868.
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- Barnhart, Robert E., and Catlin. 2,876,251.
- Barnhart, Robert E., and Catlin. 2,879,292.
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- Bateman, Alva W. 2,902,746.
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- Bergh, Sverre E. 2,919,238.
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- Dussart, Maurice, to Ateliers de Constructions Electriques de Charleroi. Method and apparatus for joining two members in end-to-end relationship. 2,876,332, 3-3-59, Cl. 219-85.
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- Dvorak, Howard A., to Western Electric Co., Inc. Device for spraying fluids. 2,895,683, 7-21-59, Cl. 239-332.
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- Dvorkovitz, Vladimir, and I. C. Brooks, to The Diversey Corp. Method for fruit fly control. 2,890,960, 6-16-59, Cl. 99-154.
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- Dwyer, Roy P. Jet deflection method of deviating a bore hole. 2,873,092, 2-10-59, Cl. 255-1.6.
- Dwyer, Russell A. Self-aligning bearing. 2,895,769, 7-21-59, Cl. 308-72.
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- Dwyer, William J., to J. I. Case Co. Baler. 2,871,779, 2-3-59, Cl. 100-22.
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- Dyer, John R., Jr.: *See—*  
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- Dyer, Lloyd W., W. F. Born, and J. B. Wallace, to Westinghouse Electric Corp. Bus duct for electrical distribution systems. 2,913,513, 11-17-59, Cl. 174-88.
- Dyer, Tom L., Jr., and R. T. Innis, to Westinghouse Electric Corp. Spark gap device. 2,906,910, 9-29-59, Cl. 313-156.
- Dyess, James L., to R. H. Dyess. Stump puller. 2,877,572, 3-17-59, Cl. 37-2.
- Dyess, Richard H.: *See—*  
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- Dyk, Karl: *See—*  
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- Dyke, Edwin, to Motorola, Inc. Antenna system. 2,887,683, 5-19-59, Cl. 343-781.
- Dyke, Walter P., and J. P. Barbour, to Research Corp. Heat stabilized field emission electron sources. 2,916,668, 12-8-59, Cl. 315-107.
- Dykeman, George, and T. R. Schuerger, to United States Steel Corp. System for determining peak location of temperature. 2,878,003, 3-17-59, Cl. 263-28.
- Dyken, Charles P. Rolling machine. 2,881,984, 4-14-59, Cl. 242-66.
- Dykes, Eugene B. Hydraulically operated flush tank. 2,884,648, 5-5-59, Cl. 4-43.
- Dykes, John F.: *See—*  
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- Dykman, Milton: *See—*  
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- Dykstra, Fred J., C. A. Hall, and C. C. Shepherd, to Ethyl Corp. Removing combustion chamber deposits from internal combustion engines and compositions. 2,904,458, 9-15-59, Cl. 134-20.
- Dykstra, Lucas J., and L. J. Kehl, to Western Electric Co., Inc. Method of making drill jigs. 2,915,789, 12-8-59, Cl. 18-59.
- Dykzeul, Theodore J.: *See—*  
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- Dymeck, Lewis G., and H. A. Smith. Hydraulic transmission. 2,888,118, 5-26-59, Cl. 192-59.
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- Dynamic Electronics-New York, Inc.: *See—*  
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- Dyne, Godfrey D., to ACF Industries, Inc. Electrodynamic machine and control switch therefor. 2,890,399, 6-9-59, Cl. 318-254.
- Dynia, George. Portable automatic painting machine. 2,892,439, 6-30-59, Cl. 118-6.
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- Dyrdahl, Gordon H., to Owatonna Mfg. Co., Inc. Hay crop swath and treating machine. 2,908,126, 10-13-59, Cl. 56-1.
- Dyrkacz, Wasil W., G. Aggen, and E. E. Reynolds, to Allegheny Ludlum Steel Corp. Austenitic alloys. 2,873,187, 2-10-59, Cl. 75-124.
- Dyrland, Ada E. Portable toilet. 2,885,688, 5-12-59, Cl. 4-135.
- Dysart, Charles E. Foot guard. 2,881,539, 4-14-59, Cl. 36-72.
- Dzaack, Heinz A., to Kooperative Forbundet, Ekonomisk Forening. Device for determining measures of division by means of an additional scale. 2,876,543, 3-10-59, Cl. 33-1.
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- Dzus, William. Wrist guard or protector. 2,895,658, 7-21-59, Cl. 224-4.
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- E-I-M Co., Inc.: *See—*  
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- Eachus, Iredell, Jr. Method and apparatus for recording and reproducing data. 2,898,577, 8-4-59, Cl. 340-174.
- Eadie, Edward M., and R. L. Shallock, to Daystrom, Inc. Encased electrical instrument. 2,883,489, 4-21-59, Cl. 200-110.
- Eads, David K., and G. P. Giusti, to Texas Gulf Sulphur Co. Production of sulfur from pyrites. 2,872,294, 2-3-59, Cl. 23-224.
- Eagle, John H., to Eastman Kodak Co. Photographic viewing apparatus. 2,881,659, 4-14-59, Cl. 83-24.
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- Eagle Ottawa Leather Co.: *See—*  
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- Eagon, Beverly M., and G. K. Greminger, Jr., to The Dow Chemical Co. Edible oil emulsions. 2,906,626, 9-29-59, Cl. 99-140.
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- Eaker, Charles M., and J. R. Campbell, to Monsanto Chemical Co. Acetophenetidine. 2,887,513, 5-19-59, Cl. 260-562.
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- Eakin, John V., to Fawick Corp. Mechanical unit comprising a rotary-seal and a timing device. 2,879,868, 3-31-59, Cl. 192-12.
- Eakin, John V., and J. S. Walsh, to Fawick Corp. Assembly for clutches and brakes. 2,870,891, 1-27-59, Cl. 192-88.
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- Eames, James O., to The Michaels Art Bronze Co., Inc. Door closing and actuating mechanism for parking meters. 2,896,764, 7-28-59, Cl. 194-72.
- Eames, Walter R., to Eaton Mfg. Co. Pump. 2,918,013, 12-22-59, Cl. 103-42.
- Eames, William F., to Westinghouse Electric Corp. Elevator systems. 2,900,047, 8-18-59, Cl. 187-29.
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- Eannarino, George, to Sarkes Tarzian, Inc. Rectifier electroforming process. 2,896,305, 7-28-59, Cl. 29-25.3.
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- Earl, Howard E., and R. W. Hilgers, to Sundstrand Corp. Rubbing machine. 2,918,761, 12-29-59, Cl. 51-170.
- Earl, John A., to Consolidated Electrodynamics Corp. Vitreous enamel. 2,916,388, 12-8-59, Cl. 106-49.
- Earl, Robert P., and E. S. Welch, Jr., to Fenwal Inc. Kit and packaging, mixing and dispensing means for mixture ingredients. 2,899,547, 7-7-59, Cl. 206-47.
- Earle, Ernest L., Jr., B. Sienkiewicz, and L. H. Stone, to General Foods Corp. Coconut products and technique for producing the same. 2,917,389, 12-15-59, Cl. 99-125.
- Earle, Francis, Laboratories, Inc.: See—  
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- Earle, Guyon L. C. Kitchen-utility units. 2,893,807, 7-7-59, Cl. 312-279.
- Earle, Ralph H., to McGraw-Edison Co. Loadbreak devices for housed cutouts. 2,905,789, 9-22-59, Cl. 200-114.
- Earle, Theodore. Method of stripping epidermal material from grains. 2,867,256, 1-6-59, Cl. 146-221.9.
- Earles, Louis A., Jr., to G. Miller. Paste tube holder, dispenser and closure device. 2,904,225, 9-15-59, Cl. 222-183.
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- Earp, Charles W., to International Standard Electric Corp. Electric signal communication systems. 2,871,290, 1-27-59, Cl. 178-43.5.
- Eash, George H., to The Toledo Trust Co., trustee. Recorder-play back instrument employing endless magnetic tape. 2,876,005, 3-3-59, Cl. 271-2.18.
- Eash, Owen J., to Kleer Kleen Mfg. Co. Adjustable supporting unit. 2,913,207, 11-17-59, Cl. 248-148.
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- Easter, Brian, to The General Electric Co. Ltd. Apparatus for obtaining measurements of electric power. 2,906,957, 9-29-59, Cl. 324-98.
- Easter, Elmer W., to Dravo Corp. Spring balanced fluid pressure control valve. 2,872,943, 2-10-59, Cl. 137-622.
- Easter, George J., to Electro Refractories & Abrasives Corp. Ceramic ware support for use in kilns. 2,871,543, 2-3-59, Cl. 25-153.
- Easter, Ross A., to The Pillsbury Co. Method and apparatus for producing a container part. 2,885,932, 5-12-59, Cl. 93-37.
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- Eastman, du Bois, to The Texas Co. Process for the gasification of solid fuels. 2,871,114, 1-27-59, Cl. 48-206.
- Eastman, du Bois, to The Texas Co. Method for manufacturing paint. 2,885,298, 5-5-59, Cl. 106-309.
- Eastman, Du Bois, to Texaco Inc. Manufacture of carbon black from liquid hydrocarbons. 2,914,418, 11-24-59, Cl. 106-307.
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- Eastman, du Bois, and F. E. Guptill, Jr., to The Texas Co. Method of and apparatus for grinding solid materials by fluid energy. 2,885,154, 5-5-59, Cl. 241-5.
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 Roman, Pierre A. 2,908,571.  
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 Rouse, Benjamin P., Jr., and Hill. 2,899,316.  
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 Easton, Bernard K., and N. Weinberg, to Food Machinery and Chemical Corp. Process of bleaching specialty hair fibers with hydrogen peroxide solutions. 2,875,018, 2-24-59, Cl. 8—111.  
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- Eaton, John C. Chain-type debarking flails cushioned by rubber plates coaxially mounted on a rotor shaft. 2,901,011, 8-25-59, Cl. 144-208.
- Eaton, John L., and G. E. Hinds, to Pennsalt Chemicals Corp. Odorized gas and method for odorizing the same. 2,872,304, 2-3-59, Cl. 48-195.
- Eaton, Lawrence V., and J. A. Kane, to Colony Foods Products, Inc. Bag lining and cufing machine. 2,893,294, 7-7-59, Cl. 93-8.
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- Eaton, Milton, to Shawinigan Chemicals Ltd. Electric furnace regulators. 2,877,281, 3-10-59, Cl. 13-13.
- Eaton, Milton, to Shawinigan Chemicals Ltd. Apparatus for controlling slipping of continuous electrodes. 2,896,003, 7-21-59, Cl. 13-14.
- Eaton, Roland D.: *See—*  
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- Eaton, Russell B., to E. I. du Pont de Nemours and Co. Method of preparing refractory metals. 2,891,857, 6-23-59, Cl. 75-84.5.
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- Eaton, Stanley L.: *See—*  
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- Eaton, Thomas T., to Radio Corp. of America. Pulse echo distance and velocity determining devices. 2,885,668, 5-5-59, Cl. 343-9.
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- Eaton, William A.: *See—*  
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- Eaves, Augustus J., to United States of America, Navy. Facsimile device. 2,872,276, 2-3-59, Cl. 346-101.
- Eaves, James C. Dial setting mechanism. 2,892,304, 6-30-59, Cl. 58-80.
- Eaves, James C. Strap buckle. 2,904,867, 9-22-59, Cl. 24-175.
- Eaves, William C. Heating or deicing unit for glazed windows. 2,869,166, 1-20-59, Cl. 15-250.5.
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- Ebel, Lawrence C., and R. G. D'Ascoli, to Anaconda Wire and Cable Co. Jacketed sheathed power cable. 2,881,243, 4-7-59, Cl. 174-107.
- Ebel, Lawrence C., and R. G. D'Ascoli, to Anaconda Wire and Cable Co. Shielded polyethylene insulated electric conductor. 2,913,515, 11-17-59, Cl. 174-102.
- Ebeling, Wolfgang. Boring of large bores using an elongated guide means in a previously bored guide passageway. 2,903,252, 9-8-59, Cl. 262-7.
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- Eber, Hans, and P. Ruf, to Lytax-Werke G.m.b.H. Light projecting arrangement for projectors. 2,894,428, 7-14-59, Cl. 88-24.
- Eber, Hans, and P. Ruf, to Lytax-Werke G.m.b.H. Camera for photographing the inner surface of a hollow body. 2,894,436, 7-14-59, Cl. 95-11.
- Eberbaugh, Robert M. Disposable razor with reenforced head. 2,871,560, 2-3-59, Cl. 30-47.
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- Eberhardt, Daniel A., to The Eberhardt Co., Inc. Garment hanger. 2,902,194, 9-1-59, Cl. 223-95.
- Eberhardt, Edward H., to International Telephone and Telegraph Corp. Secondary emission measurement. 2,882,486, 4-14-59, Cl. 324-26.
- Eberhardt, Edward H., to International Telephone and Telegraph Corp. Ion gauge. 2,913,630, 11-17-59, Cl. 315-108.
- Eberhardt, Howard, to ACF Industries, Inc. Fuel supply. 2,905,455, 9-22-59, Cl. 261-36.
- Eberhardt, James E.: *See—*  
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- Eberhardt, John E., to Bethlehem Steel Co. Blast furnace tuyere. 2,891,783, 6-23-59, Cl. 266-41.
- Eberhart, Arthur H., to Westinghouse Electric Corp. Air conditioning apparatus. 2,885,142, 5-5-59, Cl. 230-117.
- Eberhart, Arthur H., to Westinghouse Electric Corp. Condensate disposal arrangement for air conditioning units. 2,896,860, 7-28-59, Cl. 239-220.
- Eberiel, Herman J.: *See—*  
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- Eberiel, Herman J., and F. T. May, to Westinghouse Electric Corp. Lamp fabrication. 2,896,306, 7-28-59, Cl. 29-25.11.
- Eberl, Walter: *See—*  
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- Eberline, William C. Governor for internal combustion engine. 2,889,850, 6-9-59, Cl. 137-514.5.
- Eberly, Harry C., to Sperry Rand Corp. Hay balers. 2,910,931, 11-3-59, Cl. 100-1.
- Eberly, John H., to Sperry Rand Corp. Coupling. 2,885,232, 5-5-59, Cl. 287-53.
- Eberly, Kenneth C., to The Firestone Tire & Rubber Co. Catalytic dehydrochlorination of 1,2-dichloroethane. 2,875,255, 2-24-59, Cl. 260-656.
- Ebers, Jewell J., and S. L. Miller, to Bell Telephone Laboratories, Inc. Semiconductive switch and negative resistance. 2,915,647, 12-1-59, Cl. 307-88.5.
- Ebershoff, Kenneth L.: *See—*  
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- Ebersole, Elbert H. Attachable eye shade. 2,891,251, 6-23-59, Cl. 2-13.
- Ebersole, Robert A., to Chisholm, Boyd & White Co. Press. 2,870,514, 1-27-59, Cl. 25-90.
- Ebersold, Robert C., to The Warner & Swasey Co. Multi-pressure relief valve. 2,890,715, 6-16-59, Cl. 137-494.
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- Ebert, Heinrich. Infinitely variable step-down transmission. 2,882,743, 4-21-59, Cl. 74-472.
- Ebert, Heinrich. Hydrostatic piston engine. 2,875,701, 3-3-59, Cl. 103-162.
- Ebert, Heinrich. Hydrodynamic torque converter. 2,902,938, 9-8-59, Cl. 103-87.
- Ebert, Heinrich. Control for hydraulic transmissions. 2,905,150, 9-22-59, Cl. 121-38.
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- Ebert, Moe M., to Cadillac Creations, Inc. Panty. 2,876,779, 3-10-59, Cl. 128-528.
- Ebert, Walter: *See—*  
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- Ebneth, Harold, H. Schultheis, and H. Nordt, to Mobay Chemical Co. Production of polyurethane foams using molybdenum compounds as catalysts. 2,916,464, 12-8-59, Cl. 260-2.5.
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- Eburn, William H., Jr., to Polaroid Corp. Camera shutter. 2,887,028, 5-19-59, Cl. 95-64.
- Eburn, William H., Jr., to Polaroid Corp. Photographic product. 2,909,977, 10-27-59, Cl. 95-19.
- Eby, Hugh H., Inc.: *See—*  
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- Eby, Lawrence T., to Esso Research and Engineering Co. Method of incorporating oil in rubbery isoolefin polymer. 2,899,401, 8-11-59, Cl. 260-33.6.
- Eby, Lawrence T., to Esso Research and Engineering Co. Production of mesitylene. 2,917,561, 12-15-59, Cl. 260-668.
- Eby, Roy T., and J. E. Fox, to Monsanto Chemical Co. Method of preparing vinylidene chloride. 2,879,310, 3-24-59, Cl. 260-654.



- Ecary, Charles A., to Societe Commerciale Eca. Device for indicating the true vertical. 2,893,248, 7-7-59, Cl. 74-5.34.
- Eccher, Oreste B., to Potdevin Machine Co. Laminating machine. 2,894,559, 7-14-59, Cl. 154-1.6.
- Eccles, Edwin J., Jr.: *See*—  
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- Echolds, E. Frank, to United States of America, Navy. Inside-out gyroscope. 2,916,919, 12-15-59, Cl. 74-5.46.
- Echolds, E. Frank, and P. L. Brink. Eddy-current force systems for constrained gyroscopes. 2,900,825, 8-25-59, Cl. 74-5.46.
- Echols, Guy H. Exerciser. 2,906,532, 9-29-59, Cl. 272-57.
- Eck, Bruno. Fans. 2,914,243, 11-24-59, Cl. 230-125.
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- Eck, George H. Listening device. 2,898,405, 8-4-59, Cl. 179-1.
- Eck, Robert N., to Cutler-Hammer, Inc. Dial selector switching system for plural motor control. 2,883,597, 4-21-59, Cl. 318-103.
- Eck, Robert N., and V. H. Simson, to Cutler-Hammer, Inc. Electric controllers for machines. 2,870,392, 1-20-59, Cl. 318-470.
- Eckardt, Johannes: *See*—  
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- Eckardt, Kurt and J. Automatic brake shoe resetting mechanism for motor vehicles and trailers. 2,875,860, 3-3-59, Cl. 188-79.5.
- Eckart, Robert H., and E. D. Baxley. Electrically operated beautician's chair. 2,886,096, 5-12-59, Cl. 155-25.
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- Ecke, George G., and L. R. Buzbee, to Ethyl Corp. Chemical process. 2,892,857, 6-30-59, Cl. 260-438.
- Eckel, John E., and J. M. Camp, to Jersey Production Research Co. Seismic shock source. 2,898,084, 8-4-59, Cl. 255-1.
- Eckel, Oliver C. Assembly of members with connectors held from outside. 2,889,017, 6-2-59, Cl. 189-34.
- Eckel, Oliver C. Holding member for insulating clips. 2,900,102, 8-18-59, Cl. 200-9.
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- Eckels, George H.: *See*—  
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- Eckels, Thomas C., and C. Jellison. Reel clutch. 2,904,280, 9-15-59, Cl. 242-74.
- Eckels, Warren H., to Hercules Powder Co. Plastic explosive compositions. 2,902,355, 9-1-59, Cl. 52-11.
- Ecker, Fred C. Anti-skid mechanism. 2,900,002, 8-18-59, Cl. 152-216.
- Ecker, Howard W. Balances. 2,919,124, 12-29-59, Cl. 265-54.
- Ecker, Murray F., to Dresser Industries, Inc. Pump base. 2,916,233, 12-8-59, Cl. 248-19.
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- Eckert, John P., Jr.: *See*—  
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- Eckert, John P., Jr., to Sperry Rand Corp. Pulse stretching amplifiers. 2,876,440, 3-3-59, Cl. 340-174.
- Eckert, John P., Jr., to Sperry Rand Corp. Impulse responsive network. 2,884,521, 4-28-59, Cl. 250-27.
- Eckert, John P., Jr., to Sperry Rand Corp. Single ended carrier type magnetic amplifier bistable device. 2,901,733, 8-25-59, Cl. 340-174.
- Eckert, John P., Jr., to Sperry Rand Corp. Shifting register with inductive intermediate storage. 2,907,006, 9-29-59, Cl. 340-174.
- Eckert, John P., Jr., to Sperry Rand Corp. Delay flop. 2,907,893, 10-6-59, Cl. 307-88.
- Eckert, John P., Jr., to Sperry Rand Corp. Quarter adder. 2,913,594, 11-17-59, Cl. 307-88.
- Eckert, John P., Jr., and T. H. Bonn, to Sperry Rand Corp. Signal translating device. 2,892,998, 6-30-59, Cl. 340-174.
- Eckert, John P., Jr., and A. Blain, to Sperry Rand Corp. Protective apparatus for magnetic recording and sensing head. 2,905,767, 9-22-59, Cl. 179-100.2.
- Eckert, Lewis W.: *See*—  
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- Eckert, Lewis W., to Armstrong Cork Co. Method of drying water-laid fibrous materials. 2,874,617, 2-24-59, Cl. 92-40.
- Eckert, Lewis W., to Armstrong Cork Co. Method of fabricating a sound-absorbing unit from cellulosic material. 2,874,796, 2-24-59, Cl. 181-33.
- Eckert, Oscar, to Stentit-Magnesia Akt. Method for improving the magnetic properties of ferrite with a rectangular-shaped hysteresis loop. 2,877,183, 3-10-59, Cl. 252-62.5.
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- Eckert, Theodore. Golf clubs. 2,892,633, 6-30-59, Cl. 273-162.
- Eckert, Wilhelm, and H. Remy, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. New dyestuff of the perylene tetracarboxylic acid series. 2,890,220, 6-9-59, Cl. 260-281.
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- Eckess, William S., K. I. Sherman, and J. E. Deavenport, to The Emerson Electric Mfg. Co. Telescopic voltage amplifier. 2,888,525, 5-26-59, Cl. 179-171.
- Eckey, Eddy W. Method for continuous multistage counter-current contacting of liquids with vapors. 2,871,250, 1-27-59, Cl. 260-428.5.
- Eckfeldt, Edgar L., to Leeds and Northrup Co. Method of determining concentration of dissolved substance. 2,886,496, 5-12-59, Cl. 204-1.
- Eckfeldt, Edgar L., and E. R. Kuczynski, to Leeds and Northrup Co. Conductivity cells. 2,888,640, 5-26-59, Cl. 324-30.
- Eckhardt, Heinz, G. Keicher, and G. von Rosenberg, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Wax preparations containing antioxidizing agents. 2,871,136, 1-27-59, Cl. 106-270.
- Eckhardt, Homer D.: *See*—  
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- Eckhardt, Homer D., to Minneapolis-Honeywell Regulator Co. Control apparatus for aircraft and means for varying the limits of its gain control. 2,872,134, 2-3-59, Cl. 244-77.
- Eckles, William J., to Morton Salt Co. Dispensing apparatus. 2,873,894, 2-17-59, Cl. 222-480.
- Eckles, William J. Dispensing apparatus. 2,903,167, 9-8-59, Cl. 222-480.
- Eckman, Donald P., to The Warner & Swasey Co. Control system for fluid operated power device. 2,872,934, 2-10-59, Cl. 137-85.
- Eckman, Harry A., to Crane Co. Process of siliconizing. 2,897,093, 7-28-59, Cl. 117-53.
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Huxley, Thomas C., III, and Eckman. 2,899,955.
- Eckold, Walter. Apparatus for deforming sheets or profiles. 2,867,141, 1-6-59, Cl. 78-61.
- Eckold, Walter. High-speed mechanism for hand-controlled sheet metal working machinery. 2,911,862, 11-10-59, Cl. 78-61.
- Eckold, Walter. Tool clamps. 2,912,249, 11-10-59, Cl. 279-1.
- Eckstein, Arthur, and B. Stone. Apparatus for the control and analysis of color printing. 2,891,323, 6-23-59, Cl. 35-28.3.
- Eckstein, Ernest E. Automatic tongs. 2,893,778, 7-7-59, Cl. 294-110.
- Eckstein, Morris. Carton flap clamp. 2,894,308, 7-14-59, Cl. 24-259.
- Eckstrom, Hartley C., C. G. Frye, H. L. Pickering, and E. L. Tollefson, to Pan American Petroleum Corp. Method for determining gas-catalyst contacting efficiency. 2,918,355, 12-22-59, Cl. 23-230.
- Eclipse Counterbore Co.: *See*—  
Babbitt, Seth M. 2,889,669.
- Eclipse Fuel Engineering Co.: *See*—  
Anderson, Gerald L., and Margason. 2,903,005.  
Campbell, Donald A. 2,877,834.  
Campbell, Donald A., and Anderson. 2,885,224.  
Campbell, Donald A., and Margason. 2,905,193.  
Stadler, Albert. 2,877,838.
- Economics Laboratory, Inc.: *See*—  
Miller, Carl A. 2,912,002.  
Miller, Carl A. 2,916,998.
- Economou, Louis: *See*—  
Koce, Jime. 2,889,002.
- Economou, Thanos: *See*—  
Koce, Jime. 2,889,002.  
Koce, Jime. 2,911,926.
- Economy Forms Corp.: *See*—  
Jennings, William A. 2,870,516.  
Jennings, William A. 2,876,813.
- Economy Pest Control: *See*—  
Hillwick, Stanley L., and Cooper. 2,898,008.
- Ecremeuses Melotte, Societe Anonyme: *See*—  
Dujardin, Albert J. A. J. 2,880,876.
- Edcliff Instruments Inc.: *See*—  
Pitzer, Edmund W. 2,908,881.  
Pitzer, Edmund W. 2,909,750.  
Rehnberg, Edward H., and Sayre. 2,901,718.
- Eddison, William B., to Gisholt Machine Co. Seal opening and transferring mechanism. 2,903,156, 9-8-59, Cl. 221-211.
- Eddison, William B., to Oscar Mayer & Co., Inc. Smoke generator. 2,914,059, 11-24-59, Cl. 126-59.5.
- Eddison, William B., and W. E. Erickson, to Gisholt Machine Co. Seal applying mechanism. 2,890,558, 6-16-59, Cl. 53-292.
- Eddison, William B., and W. E. Erickson, to Gisholt Machine Co. Metering mechanism. 2,909,017, 10-20-59, Cl. 53-71.



- Eddleblute, Carl L. Control system. 2,876,450, 3-10-59, Cl. 1-16.
- Edds, Richard V.: *See*—  
Atkins, Don C., Jr., and Edds. 2,888,335.
- Eddy, Glen M. Auxiliary tread for dual wheels. 2,898,965, 8-11-59, Cl. 152-175.
- Eddy, James W.: *See*—  
Clark, William J., and Eddy. 2,871,505.
- Eddy, Thomas A., and L. E. Hoyer, to American Brake Shoe Co. Lubricators. 2,898,161, 8-4-59, Cl. 308-88.
- Eddy, William C., to Television Associates, Inc. Electrical socket connector. 2,912,668, 11-10-59, Cl. 339-182.
- Eddy, William C. and W. C., Jr., to Television Associates, Inc. Control mechanism for an engine. 2,916,116, 12-8-59, Cl. 192-3.
- Eddy, William C., Jr.: *See*—  
Eddy, William C. and W. C., Jr. 2,916,116.
- Eddy, William C., Jr., to Television Associates, Inc. Overload control. 2,918,999, 12-29-59, Cl. 192-02.
- Eddy, William R.: *See*—  
Cooper, Wayne E., and Eddy. 2,878,949.
- Eddy, William R., and D. L. McKay, to Phillips Petroleum Co. Process and apparatus for purification of crystals. 2,890,962, 6-16-59, Cl. 99-205.
- Edel, Walter L. Absorber. 2,911,056, 11-3-59, Cl. 183-2.
- Edeleau Gesellschaft m.b.H.: *See*—  
Franz, Hermann, Langner, and Westerhoff. 2,872,409.
- Hoppe, Alfred, and Franz. 2,889,260.
- Hoppe, Alfred, and Franz. 2,907,708.
- Hoppe, Alfred, Franz, Meliss, and Gutberlet. 2,917,447.
- Edelen, James G., Sr. Hollow contractile and expandable pin with semiclosed ends. 2,874,388, 2-24-59, Cl. 5-303.
- Edelen, James L., to ACF Industries, Inc. Shaft end mounting for sealing and loop forming a pump diaphragm. 2,904,876, 9-22-59, Cl. 29-156.4.
- Edelen, James L., to ACF Industries, Inc. Method of manufacture of a needle valve and seat assembly. 2,904,877, 9-22-59, Cl. 29-157.1.
- Edelen, James L., to ACF Industries, Inc. Magnetic filter. 2,914,178, 11-24-59, Cl. 210-222.
- Edelman, Abraham. Door operating mechanism. 2,895,728, 7-21-59, Cl. 268-47.
- Edelman, Leonard E., to Westinghouse Electric Corp. Product of reaction of fatty acids, C=C aromatics and epoxide resins. 2,909,497, 10-20-59, Cl. 260-23.
- Edelmann, Sylvester G., to United States Steel Corp. Latching mechanism for ladle cars. 2,887,962, 5-26-59, Cl. 105-264.
- Edelson, Leon: *See*—  
Stilwell, Winfred N. 2,890,512.
- Edelstein, Albert L.: *See*—  
Mahon, Thomas J., and Edelstein. 2,895,650.
- Mahon, Thomas J., and Edelstein. 2,895,651.
- Edelstein, Arthur. Lighting apparatus for photography. 2,913,569, 11-17-59, Cl. 240-1.3.
- Edelstein, Marie. Pressure relieving insoles. 2,909,854, 10-27-59, Cl. 36-8.5.
- Edelstone, Sigmund E., to Dupli-Color Products Co., Inc. Magnetic fountain applicator. 2,866,993, 1-6-59, Cl. 15-139.
- Eden, Carsten, to Jenaer Glaswerk Schott & Gen. Process for purifying glass. 2,877,280, 3-10-59, Cl. 13-6.
- Eden, Jamal S., to Diamond Alkali Co. 1,3-tetrahydro oxazine as a herbicide. 2,911,294, 11-3-59, Cl. 71-2.5.
- Eden, William P. Hose winder. 2,869,800, 1-20-59, Cl. 242-86.
- Eden, William P., 25% to Marathon Corp. of Canada Ltd. Loading and unloading racks. 2,874,858, 2-24-59, Cl. 214-38.
- Eder, Adolf, to Etablissement EPOK. Food can with immersion heater. 2,896,607, 7-28-59, Cl. 126-262.
- Eder, Adolf, to Etablissement EPOK. Immersion heater. 2,896,608, 7-28-59, Cl. 126-262.
- Eder, George L., 1/2 to B. J. and F. M. Carroll. Cabinet with folding bed structure. 2,869,143, 1-20-59, Cl. 5-2.
- Eder, Virgil K.: *See*—  
Anderson, Charles C., Eder, Zimmerman, Heath, and McLaughlin. 2,895,442.
- Edes, Frank: *See*—  
Merion, Abraham L. 2,917,956.
- Edgar, Donald J.: *See*—  
Bley, Rudolph S., Carter, Edgar, Graybeal, and Schmidt. 2,898,627.
- Edgar, John A.: *See*—  
Armstrong, Jack W., and Edgar. 2,890,171.
- Edgar, William L., to H. H. Robertson Co. Cellular steel floor. 2,910,152, 10-27-59, Cl. 189-34.
- Edgar, William S. W., Jr., to Western Union Telegraph Co. Dial facsimile system. 2,902,538, 9-1-59, Cl. 178-2.
- Edgerton, Frank R., to General Dynamics Corp. Solderless terminal block for wire banks. 2,904,770, 9-15-59, Cl. 339-66.
- Edgerton, Frank R., to General Dynamics Corp. Electromagnetic coil assembly. 2,913,640, 11-17-59, Cl. 317-158.
- Edge, Dexter, Jr.: *See*—  
Osborne, Wesley M., Edge, and Johnston. 2,889,199.
- Edge, Stanley H., and F. L. Beet, to Clayton Dewandre Co. Ltd. Servo braking apparatus. 2,878,646, 3-24-59, Cl. 60-54.6.
- Edgecombe, David A.: *See*—  
Capron, Adin B., Edgecombe, and Evans. 2,908,384.
- Edgemond, John W., Jr., to Yuba Power Products, Inc. Blade anchorage means for molding head. 2,896,678, 7-28-59, Cl. 144-235.
- Edgemond, John W., Jr., and W. C. Grosjean, to Yuba Consolidated Industries, Inc. Blade tracking and guiding mechanism for band saw construction. 2,903,027, 9-8-59, Cl. 143-27.
- Edgerley, Peter G.: *See*—  
Balfe, Bernard J., and Edgerley. 2,883,355.
- Edgerly, Charles R.: *See*—  
Rokosz, Ferdinand, and Edgerly. 2,908,249.
- Edgerton, Germeshausen & Grier, Inc.: *See*—  
Goldberg, Seymour. 2,919,372.
- Goldberg, Seymour, and Goon. 2,919,368.
- Riley, Daniel F., and Goldberg. 2,919,373.
- Edgerton, Harold E. Underwater flash producing system. 2,872,622, 2-3-59, Cl. 315-157.
- Edgerton, Harold E. Liquid cooled flash-producing apparatus. 2,877,341, 3-10-59, Cl. 240-11.4.
- Edgerton, Harold E. Microscope flash-photography system and apparatus. 2,893,289, 7-7-59, Cl. 88-40.
- Edgerton, Harold E. Flash tube and apparatus. 2,919,369, 12-29-59, Cl. 313-185.
- Edgerton, Harold E. Flash apparatus and method. 2,919,383, 12-29-59, Cl. 315-241.
- Edgerton, Roy G. Speed control attachment. 2,914,960, 12-1-59, Cl. 74-526.
- Edgerton, William H., to Parke, Davis & Co. Therapeutically valuable esters and method for obtaining the same. 2,876,240, 3-3-59, Cl. 260-404.5.
- Edgerton, William H., to Smith Kline & French Laboratories. Beta-thianaphthenylalkyl hydrazines and intermediates. 2,916,495, 12-8-59, Cl. 260-307.
- Edison, Sam. Window screen. 2,905,238, 9-22-59, Cl. 160-328.
- Edison, Willard O.: *See*—  
Killian, Stanley C., and Edison. 2,872,218.
- Edlin, Frank E., to E. I. du Pont de Nemours and Co. Production of refractory metals. 2,904,427, 9-15-59, Cl. 75-84.
- Edlinger, Anton: *See*—  
Christoffel, Martin, and Edlinger. 2,874,359.
- Edlo, Inc.: *See*—  
Fahrenbach, Wolfgang B. 2,882,657.
- Fahrenbach, Wolfgang B. 2,912,808.
- Edman, John H., to Deere & Co. Fluid pressure control valve. 2,876,797, 3-10-59, Cl. 137-622.
- Eduan, John H., and E. F. Jirsa, to Deere & Co. Adjustable link. 2,878,043, 3-17-59, Cl. 287-60.
- Edman, John H., to Deere & Co. Multiple-function implement control system for agricultural tractor. 2,900,030, 8-18-59, Cl. 172-9.
- Edman, Louis S., to American Optical Co. Display devices. 2,901,122, 8-25-59, Cl. 211-134.
- Edmonds Co.: *See*—  
Blaisdell, Sidney B. 2,877,620.
- Edminster, James W., C. B. Beck, and G. F. Friauf, to Godfrey L. Cabot, Inc. Process for the production of carbon black. 2,917,370, 12-15-59, Cl. 23-209.4.
- Edmonds, Byron P. Car advancing and retarding apparatus. 2,900,922, 8-25-59, Cl. 104-162.
- Edmonds, Harvey A., and W. S. Gilbert, to Structural Clay Products Research Foundation. Pallet conveying apparatus. 2,868,349, 1-13-59, Cl. 198-21.
- Edmonds, Harvey A., C. E. Evanson, and W. S. Gilbert, to Structural Clay Products Research Foundation. Conveyor system. 2,918,161, 12-22-59, Cl. 198-32.
- Edmonds, James T., Jr.: *See*—  
Hillyer, John C., and Edmonds. 2,898,347.
- Edmonds, James T., Jr., to Phillips Petroleum Co. Catalytic polymerization of diolefins using phosphorus pentoxide and product obtained. 2,913,443, 11-17-59, Cl. 260-94.2.
- Edmonds, Lee O.: *See*—  
Hillyer, John C., and Edmonds. 2,886,556.
- Edmonds, Lee O., to Phillips Petroleum Co. Rubber plasticized with a condensation product of alkene oxides and hydroxylated polymers of conjugated dienes, vulcanizates thereof, and method of making. 2,890,191, 6-9-59, Cl. 260-30.4.
- Edmondson, William, and W. Jones, to Cyprane Ltd. Volatile anaesthetic vaporising apparatus. 2,915,061, 12-1-59, Cl. 128-188.
- Edmonson, Glenn V., to G. E. Nelson. Fluid coupling. 2,878,645, 3-24-59, Cl. 60-54.
- Edmonston, Woolford L., to W. E. McBride. Constant mass liquid dispensing control. Re. 2,549,515, 1-27-59, Cl. 119-81.
- Edmont Mfg. Co.: *See*—  
Wisenburg, Ralph D. 2,913,729.
- Edmund, John R., to Westinghouse Air Brake Co. Rate sensitive broken pipe protection valve apparatus. 2,871,876, 2-3-59, Cl. 137-464.
- Edmund, John R., to Westinghouse Air Brake Co. Fluid pressure motor device embodying piston bounce inhibiting means. 2,899,936, 8-18-59, Cl. 121-38.
- Edmunds, Glenn E., to The Jeffrey Mfg. Co. Coupler releasing means. 2,891,683, 6-23-59, Cl. 213-212.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Safety cover for switch boards. 2,883,491, 4-21-59, Cl. 200-133.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Removable and replaceable current limiter housing for circuit breakers. 2,888,535, 5-26-59, Cl. 200-114.



- Edmunds, William H., to I-T-E Circuit Breaker Co. Means to position and secure current limiting fuses in a housing. 2,905,791, 9-22-59, Cl. 200—133.
- Edmunds, William H., to I-T-E Circuit Breaker Co. Panel board construction. 2,914,708, 11-24-59, Cl. 317—119.
- Edmunds, William H., and F. G. Schmidt, to I-T-E Circuit Breaker Co. Enclosure handle mechanism. 2,882,359, 4-14-59, Cl. 200—50.
- Edmondson, Warren F., to Tubelock Co. Lock for telescopic connections. 2,873,129, 2-10-59, Cl. 287—58.
- Edro Corp., The: *See*—  
Galinski, Roman. 2,875,602.
- Edsall, Bruce M., to General Motors Corp. Self-energizing assistor for torque-establishing devices. 2,882,757, 4-21-59, Cl. 74—801.
- Edsall, Bruce M., and V. C. Moore, to General Motors Corp. Automatic transmission. 2,903,912, 9-15-59, Cl. 74—677.
- Edsall, William S., to The Chase-Shawmut Co. Automatic circuit interrupter integrated with current-limiting fuses. 2,870,293, 1-20-59, Cl. 200—114.
- Edsall, William S., to The Chase-Shawmut Co. Combined circuit interrupters and fuses. 2,911,502, 11-3-59, Cl. 200—114.
- Edsberg, Robert L., and J. A. Ogle, to Burroughs Corp. Light responsive electrical device. 2,918,584, 12-22-59, Cl. 250—239.
- Edson, James O., to Bell Telephone Laboratories, Inc. Bistable frequency divider. 2,909,675, 10-20-59, Cl. 307—88.5.
- Edson, James O., and C. B. H. Feldman, to Bell Telephone Laboratories, Inc. Derivation of vocoder pitch signals. 2,906,955, 9-29-59, Cl. 324—77.
- Edstrom, Arthur E., 50% to C. R. Litzenger. Centrifugal grain thresher and separator. 2,880,734, 4-7-59, Cl. 130—27.
- Edstrom, Theodore: *See*—  
Winter, Lester L., and Edstrom. 2,884,391.
- Educational Supply Assn. Ltd., The: *See*—  
Cubitt, Kenneth H., and Leonard. 2,869,635.
- Edvardsson, Svante R.: *See*—  
Björklund, Gustaf E., and Edvardsson. 2,899,744.
- Edward Valves, Inc., The: *See*—  
Carr, Laurence H. 2,903,564.
- Edwardi, Anthony: *See*—  
Dahl, Leif A., and Roberts. 2,912,924.
- Edwards, Albert, and H. Peck, to Linotype and Machinery Ltd. Printing machines and the like. 2,912,928, 11-17-59, Cl. 101—279.
- Edwards, Albert, and H. Peck, to Linotype and Machinery Ltd. Sheet-feeding apparatus. 2,909,369, 10-20-59, Cl. 271—56.
- Edwards, Allen C. Buoyant-log debarker having bark-removing and log-rotating chains driven in opposite directions. 2,878,843, 3-24-59, Cl. 144—208.
- Edwards, Alpha D., Ironing cord guide attachment for ironing boards. 2,897,616, 8-4-59, Cl. 38—104.
- Edwards, Bryant, to Illinois Tool Works. Snap-in stud with deformable plastic engaging means. 2,882,780, 4-21-59, Cl. 85—5.
- Edwards, Bryant, to Illinois Tool Works. Plastic fastening device with foldable shank. 2,887,926, 5-26-59, Cl. 85—40.
- Edwards, Bryant, to Illinois Tool Works. Cup for hot beverages. 2,905,350, 9-22-59, Cl. 215—1.
- Edwards, Bryant, to Illinois Tool Works. Aerosol valve, valve actuator therefor and aerosol dispensing nozzle. 2,912,173, 11-10-59, Cl. 239—471.
- Edwards, Chester P. Lock for refrigerator doors. 2,893,772, 7-7-59, Cl. 292—223.
- Edwards, Clifton. Garment hanger. 2,908,429, 10-13-59, Cl. 223—91.
- Edwards, Clyde H.: *See*—  
Webster, George J., and Edwards. 2,890,942.
- Edwards, Clyde H., and G. J. Webster, to Phillips Petroleum Co. Carbon black pellet mill recycle hose improvement. 2,878,511, 3-24-59, Cl. 18—1.
- Edwards, David B. G.: *See*—  
Williams, Frederic C., Kilburn, Edwards, and Thomas. 2,913,175.
- Edwards, Delbert. Straw dump spreader. 2,916,869, 12-15-59, Cl. 56—372.
- Edwards, Eric D.: *See*—  
Elliott, John S., and Edwards. 2,897,152.
- Edwards, Ernest C., and J. M. Bain. Portable horizontal earth drilling tool. 2,879,033, 3-24-59, Cl. 255—20.
- Edwards, Franklin W.: *See*—  
Schaefer, Harold W., and Edwards. 2,906,104.
- Edwards, George W., and R. J. Sevin. Mixing apparatus. 2,867,386, 1-6-59, Cl. 241—46.
- Edwards, George W., and R. J. Sevin. Grinding mills. 2,895,689, 7-21-59, Cl. 241—23.
- Edwards, George W., and R. J. Sevin. Grinding mills and gap adjustment means therefor. 2,976,958, 3-10-59, Cl. 241—256.
- Edwards High Vacuum Ltd.: *See*—  
Barker, Dennis W. 2,902,525.  
Holland, Leslie A. 2,886,502.  
Power, Basil D. 2,899,127.  
Power, Basil D. 2,902,206.  
Power, Basil D. 2,902,210.  
Power, Basil D. 2,919,061.
- Edwards, James W., to Monsanto Chemical Co. Method of producing phosphates. 2,916,354, 12-8-59, Cl. 23—106.
- Edwards, John F., Jr., to Bendix Aviation Corp. Multiposition pressure-actuated switch. 2,909,627, 10-20-59, Cl. 200—83.
- Edwards, John F., Jr., K. D. Shaub, and L. C. Friend, to Bendix Aviation Corp. Diaphragm-type pressure-actuated switch and method of fabricating same. 2,919,320, 12-29-59, Cl. 200—83.
- Edwards, Landon B., Jr. Storage rack. 2,894,641, 7-14-59, Cl. 211—134.
- Edwards, Lawrence J., to Callery Chemical Co. Recovery of methoxy values from NaB(OCH<sub>3</sub>)<sub>4</sub> and NaOCH<sub>3</sub>. 2,884,439, 4-28-59, Cl. 260—462.
- Edwards, Lawrence K. Combination seat and table with spring-biased table top. 2,911,272, 11-3-59, Cl. 311—35.
- Edwards, Marvin B.: *See*—  
Hagemeyer, Hugh J., Jr., and Edwards. 2,908,669.  
Hagemeyer, Hugh J., Jr., and Edwards. 2,908,670.  
Hagemeyer, Hugh J., Jr., and Edwards. 2,899,413.  
Hagemeyer, Hugh J., Jr., and Edwards. 2,917,500.
- Edwards, Miles L. Pump assembly. 2,872,084, 2-3-59, Cl. 222—333.
- Edwards, Miles L. Pump mountings. 2,900,112, 8-18-59, Cl. 222—180.
- Edwards, Miles L. Rotary aspirator pump. 2,911,137, 11-3-59, Cl. 230—108.
- Edwards, O. M., Co., Inc., The: *See*—  
Axe, Daniel E. 2,913,079.
- Edwards, Paul H.: *See*—  
Leaberry, Ernest F., Hendershot, and Edwards. 2,882,568.
- Edwards, Philip B., to Bayshore Industries, Inc. Decorative hollow play balls. 2,874,964, 2-24-59, Cl. 273—58.
- Edwards, Ralph A. Trailer coupling. 2,879,079, 3-24-59, Cl. 280—446.
- Edwards, Ralph J. Coin controlled cup dispenser and change maker. 2,875,924, 3-3-59, Cl. 221—298.
- Edwards, Robert A., to General Electric Co. Electronic counter and shift register. 2,900,500, 8-18-59, Cl. 250—27.
- Edwards, Roy T., and E. P. Rittershausen, to Socony Mobil Oil Co., Inc. Defoamant composition. 2,906,712, 9-29-59, Cl. 252—358.
- Edwards, Samuel H. Valve structure. 2,895,493, 7-21-59, Cl. 137—78.
- Edwards, Walter G., to The National Cash Register Co. Digital adding device. 2,874,902, 2-24-59, Cl. 235—164.
- Edwards, Walter M., I. M. Robinson, and E. N. Squire, to E. I. du Pont de Nemours and Co. Preparation of polymyromellitimides. 2,867,609, 1-6-59, Cl. 260—78.
- Edwards, Walter M., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Diamine salts of pyromellitic acid diester. 2,880,230, 3-31-59, Cl. 260—475.
- Edwards, Walter M., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Polyimide composition. 2,900,369, 8-18-59, Cl. 260—78.
- Edwards, Webster H., to E. I. du Pont de Nemours and Co. Beneficiated iron oxide pigment and coating compositions containing same. 2,917,400, 12-15-59, Cl. 106—243.
- Edwards, William J., to The Singer Mfg. Co. Lubrication systems for sewing machines. 2,882,849, 4-21-59, Cl. 112—256.
- Edwards, William R.: *See*—  
Boynton, Harry G., and Edwards. 2,896,001.
- Edwards, William R., D. E. Nicholson, and G. A. Reidland, to Esso Research and Engineering Co. Analysis of gaseous mixtures. 2,875,849, 3-3-59, Cl. 183—115.
- Eells, Howard P., Jr., E. P. Pearson, and H. C. Lee, to Basic Inc. Beneficiation of magnesite ores. 2,898,194, 8-4-59, Cl. 23—201.
- Effenberger, Josef: *See*—  
Muller, Reinhard M. 2,904,020.
- Effen, Anton, to A. Effen, d.b.a. Globe Tool and Gauge Works. Apparatus for feeding pronged metal elements. 2,908,007, 10-13-59, Cl. 1—3.1.
- Effinger, Cecil S. Music typewriter. 2,904,156, 9-15-59, Cl. 197—8.
- Efand, Thomas D., to Clemson Agricultural College of South Carolina. Knitting machine. 2,906,109, 9-29-59, Cl. 66—1.
- Efroymsen, Meyer A., to Esso Research and Engineering Co. Hydroforming process with pretreatment of recycle gas. 2,882,217, 4-14-59, Cl. 208—62.
- Eftring, Karl E.: *See*—  
Collin, Per Harald, Eftring, and Jonsson. 2,885,317.
- Egan, Edmond F.: *See*—  
McKay, Alexander S., and Egan. 2,869,642.
- Egan, H. B., Mfg. Co.: *See*—  
Salisbury, Clifton A. 2,894,283.
- Egan, John S.: *See*—  
Hassler, Gerald L., Warren, and Egan. 2,909,058.
- Egan, Richard T., to Research-Cottrell, Inc. Rapping device. 2,893,511, 7-7-59, Cl. 183—7.
- Egan, Thomas R., to Midwest Mfg. Corp. Snap-on caster. 2,899,700, 8-18-59, Cl. 16—30.
- Egbert, Earl L., to General Motors Corp. Hydraulic coupling. 2,890,661, 6-16-59, Cl. 103—115.
- Egbert, Lawrence E., to H. J. Booth. Pneumatically operated identification marker. 2,883,927, 4-28-59, Cl. 101—4.
- Egbert, Robert B., to Mid-Century Corp. Process for the preparation of para-diisopropylbenzene. 2,883,438, 4-21-59, Cl. 260—671.



- Egelhaaf, Hermann: *See*—  
Becker, Josef, Scheer, and Egelhaaf. 2,917,041.
- Egema S.A.R.L.: *See*—  
Ledrut, Jules H. T. 2,891,070.
- Eger, Edward F., to Western Electric Co., Inc. Article buffing apparatus and selectively operable article holders therefor. 2,886,165, 5-12-59, Cl. 198-19.
- Egerer, William E., to Holley Carburetor Co. Carburetor starter switch. 2,900,470, 8-18-59, Cl. 200-83.
- EGge, Klaus, to United States Steel Corp. Coil support for box annealing furnace. 2,878,005, 3-17-59, Cl. 263-47.
- EGge, Klaus, to United States Steel Corp. Apparatus for continuously electroplating strip. 2,910,422, 10-27-59, Cl. 204-206.
- EGge, Robert: *See*—  
Naftulin, Henry, and EGge. 2,901,112.  
Naftulin, Henry, and EGge. 2,914,181.
- EGgen, Raymond B. Timing device. 2,904,110, 9-15-59, Cl. 161-.
- EGgenberger, John S.: *See*—  
Smith, Robert S., EGgenberger, and Scow. 2,907,680.
- EGgenberger, Markus A., to General Electric Co. Hydraulic thrust bearing wear indicator and safety device. 2,888,023, 5-26-59, Cl. 137-16.
- EGgersperger, Arlo R., and D. E. Foley, to W. F. Hogan. Information display devices. 2,871,462, 1-27-59, Cl. 340-154.
- EGger, Emile. Container circulation arrangement. 2,887,306, 5-19-59, Cl. 259-95.
- EGger, Ernest. Vibration dampening bracket for mounting a rotating beacon light on a motorcycle. 2,919,095, 12-29-59, Cl. 248-204.
- EGger, Walter F., Jr. Burnishing head. 2,915,809, 12-8-59, Cl. 29-90.
- EGgers, Gene D. Diving board. 2,919,133, 12-29-59, Cl. 272-66.
- EGgersgluess, Eva-Marie M. H.: *See*—  
Schmidt, Ferdinand, and EGgersgluess. 2,868,589.
- EGgersgluess, Walter: *See*—  
Schmidt, Ferdinand, and EGgersgluess. 2,868,589.
- Eggert, Hans: *See*—  
Ruschig, Heinrich, Fugmann, Eggert, Fischer, and Lindner. 2,874,156.
- Eggert, Walter S., Jr.: *See*—  
Watter, Michael, and Eggert. 2,901,590.  
Watter, Michael, and Eggert. 2,908,802.  
Watter, Michael, and Eggert. 2,908,804.
- Eggler, Charles, and C. M. Huddleston, to United States of America, Atomic Energy Commission. Gaseous scintillation counter. 2,884,529, 4-28-59, Cl. 250-71.
- Egli, Gerhard, to Ruti Machinery Works Ltd., formerly Casper Honegger. Variable-depth loom. 2,911,012, 11-3-59, Cl. 139-1.
- Egli, Hermann, to Saul & Co., as nominee of Fidelity Union Trust Co., Executive Trustee under Sandoz Trust. Dyeing of polyacrylonitrile articles. 2,874,021, 2-17-59, Cl. 8-55.
- Egli, Rudolf, to Interstahl Etablissement. Steel alloy of great tenacity, particularly suitable for chips removing cutting tools. 2,890,113, 6-9-59, Cl. 75-126.
- Egly, John M.: *See*—  
Lee, Wilbur J., and Egly. 2,892,194.
- Ego, James A. Scraping and cleaning device. 2,879,530, 3-31-59, Cl. 15-104.8.
- Eguchi, Takashi, T. Yamamoto, and S. Yamauchi. Process for preparing formalin by oxidation of methanol. 2,908,715, 10-13-59, Cl. 260-603.
- Egyesult Gyogyszer-es Tapaszgyar: *See*—  
Fodor, Gabor, Vincze, Toth, Janzso, and Lang. 2,905,687.
- Egyesult Izzólámpa és Villamosági Részvenytársaság: *See*—  
Bud, Pal Gacs, and Theisz. 2,891,189.  
Millner, Tivadar, and Theisz. 2,882,435.  
Winter, Ernő. 2,881,355.  
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Zakariás, Imre. 2,872,534.  
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- Ehara, Ryo: *See*—  
Tsunoda, Yoshio, Seko, Watanabe, Ehara, and Misumi. 2,894,917.  
Tsunoda, Yoshio, Seko, Watanabe, Ehara, and Misumi. 2,898,311.
- Ehat, Raphael F. Modulated oscillator with elimination of stray capacitance in shielded input. 2,877,420, 3-10-59, Cl. 332-2.
- Eheim, Franz: *See*—  
Aldinger, Ulrich, and Eheim. 2,902,019.
- Ehinger, Frank C. Boat with means for cutting an ice channel. 2,883,957, 4-28-59, Cl. 114-42.
- Ehler, Howard L. Corn harvester and gathering conveyor therefor. 2,894,364, 7-14-59, Cl. 56-15.
- Ehlerrmann, Hans. Applicator apparatus. 2,877,473, 3-17-59, Cl. 11-1.
- Ehlers, F Edward: *See*—  
Farr, Harold K., and Ehlers. 2,877,434.
- Ehlers, Forrest A.: *See*—  
Davis, Clyde W., Ehlers, and Traylor. 2,913,438.
- Ehlers, Johann: *See*—  
Waas, Heinrich, Ehlers, and Grim. 2,902,964.
- Ehlert, Carl R. Fishing float. 2,909,865, 10-27-59, Cl. 43-43.11.
- Ehlert, Clayton J., and E. T. Duffy, to The Weatherhead Co. Display cabinet. 2,898,171, 8-4-59, Cl. 312-122.
- Ehlert, William A., to The Ajax Mfg. Co. Vertically divided forging press frame. 2,875,652, 3-3-59, Cl. 78-44.
- Ehmann, Leslie G., and H. Nelson, to Electric Steel Foundry Co. Choker hook. 2,872,716, 2-10-59, Cl. 24-123.
- Ehmann, Leslie G., to Electric Steel Foundry Co. Sleeve ferrule. 2,895,195, 7-21-59, Cl. 24-123.
- Ehmann, Leslie G., to Electric Steel Foundry Co. Press. 2,908,217, 10-13-59, Cl. 100-272.
- Ehmann, Leslie G., to Hyster Co. Lift truck with single telescopic mast. 2,915,210, 12-1-59, Cl. 214-674.
- Ehmann, Ludwig: *See*—  
Wettstein, Albert, and Ehmann. 2,870,142.  
Wettstein, Albert, Vischer, Meystre, and Ehmann. 2,871,245.  
Wettstein, Albert, Hunger, Meystre, and Ehmann. 2,900,398.
- Ehrenberg, Gustave. Apparatus for cooking foods. 2,917,990, 12-22-59, Cl. 99-386.
- Ehrenford, Frank A., to Allied Laboratories, Inc. Process for combating trichuris infection of domestic animals. 2,909,461, 10-20-59, Cl. 167-53.
- Ehrenfried, Albert D., to Acton Laboratories, Inc. Apparatus for complex plane computations. 2,889,989, 6-9-59, Cl. 235-189.
- Ehrenhaft, Franz F., S. Rosin, and M. Cawein, to Grimson Color Inc. Color image pick up apparatus. 2,884,483, 4-28-59, Cl. 178-54.
- Ehrenreich, A., & Cie.: *See*—  
Latzen, Josef. 2,912,267.
- Ehrenselsch, A., & Cie.: *See*—  
Latzen, Josef. 2,883,221.
- Ehrensperger, Carl. Spray gun. 2,886,252, 5-12-59, Cl. 239-354.
- Ehrensperger, William J.: *See*—  
Blomstran, Carl A., and Ehrensperger. 2,889,133.
- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Electrical amplifying means. 2,875,284, 2-24-59, Cl. 179-171.
- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,883,614, 4-21-59, Cl. 323-109.
- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Push-pull motor drive circuit. 2,886,754, 5-12-59, Cl. 318-29.
- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,889,460, 6-2-59, Cl. 250-36.
- Ehret, Robert J., to Minneapolis-Honeywell Regulator Co. Electrical measuring apparatus. 2,889,517, 6-2-59, Cl. 324-99.
- Ehret, Robert J., and T. A. Patchell, to Minneapolis-Honeywell Regulator Co. Servomotor system control apparatus. 2,886,755, 5-12-59, Cl. 318-29.
- Ehret, Robert J., and F. F. Cilyo, to Minneapolis-Honeywell Regulator Co. Damped servomotor system. 2,887,642, 5-19-59, Cl. 318-448.
- Ehret, Yale W., to The Adlake Co. Cam type latch. 2,896,989, 7-28-59, Cl. 292-114.
- Ehrgott, Victor F. Furniture support means. 2,902,794, 9-8-59, Cl. 45-137.
- Ehrhart, Gustav, I. Hennig, E. Lindner, and H. Ott, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Basically substituted butyric acid amides and a process of preparing them. 2,876,262, 3-3-59, Cl. 260-562.
- Ehrhart, Gustav, H. Ruschig, J. Schmidt-Thomé, W. Haede, and W. Fritsch, to Farbwerke Hoechst AG, vormals Meister Lucius & Bruning. Process of preparing 17-hydroxy-20-ketosteroides. 2,912,444, 11-10-59, Cl. 260-397.4.
- Ehrhart, Gustav, H. Ruschig, W. Aumüller, L. Stein, and L. Ther, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Basically substituted carboxylic acid amides and a process of preparing them. 2,912,460, 11-10-59, Cl. 260-562.
- Ehrhart, Heinz: *See*—  
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- Ehrlich, Fredric F., to Westinghouse Electric Corp. Jet propelled helicopter motor. 2,894,589, 7-14-59, Cl. 170-135.4.
- Ehrisman, Henry O., and H. S. Drinker, to The Foxboro Co. Digester relief system. 2,896,709, 7-28-59, Cl. 162-238.
- Ehrlich, Charles N. Electric switch. 2,878,336, 3-17-59, Cl. 200-86.5.
- Ehrlich, John: *See*—  
Frohardt, Roger P., Haskell, Ehrlich, and Knudsen. 2,916,485.
- Ehrlich, Joseph R. Rubber coated wood. 2,875,101, 2-24-59, Cl. 117-148.
- Ehrlich, Joseph R., and W. A. Strauss; said Ehrlich assor. to said Strauss. Casting metals and alloys. 2,870,497, 1-27-59, Cl. 22-113.
- Ehrlich, Morris J., to Hughes Aircraft Co. Electromagnetic horn antenna. 2,879,508, 3-24-59, Cl. 343-786.
- Ehrman, Raymond G.: *See*—  
Piha, Arthur W., and Ehrman. 2,901,929.
- Ehrmann, Ralph R. M., to Nikocrat Ltd. Toy building element. 2,907,137, 10-6-59, Cl. 46-25.
- Eibert, John, Jr., to Stanford Laboratories, Inc. Method for preparing iodinated thyroid. 2,902,406, 9-1-59, Cl. 167-76.
- Eibl, Johannes: *See*—  
Rosch, Georg, Klappert, Wolf, and Eibl. 2,898,177.
- Eich, Hans, to Maschinenfabrik Surth Zweigniederlassung der Gesellschaft für Linde's Eismaschinen Aktiengesellschaft. Valve devices. 2,918,086, 12-22-59, Cl. 137-613.



- Eichberg, Robert L. Combination locks. 2,879,657, 3-31-59, Cl. 75-267.
- Eichel, Herman J., to The National Cash Register Co. Adhesive tape containing pressure-rupturable capsules. 2,907,682, 10-6-59, Cl. 117-122.
- Eichelberger, Charles D., to General Electric Co. Electric insulator. 2,892,014, 6-23-59, Cl. 174-212.
- Eichelberger, Charles D., and W. N. Lester, to General Electric Co. Electric switchgear of the drawout type. 2,885,502, 5-5-59, Cl. 200-50.
- Eichelberger, Charles D., and W. N. Lester, to General Electric Co. Electric bus construction. 2,904,620, 9-15-59, Cl. 174-88.
- Eichelberger, Charles D., and G. M. Reed, to General Electric Co. Draw-out type switch-fuse assembly. 2,914,627, 11-24-59, Cl. 200-51.
- Eichelberger, Thomas W., to Westinghouse Electric Corp. Method of aging iron-base austenitic alloys. 2,879,194, 3-24-59, Cl. 148-2154.
- Eichelman, Francis J., to Chemetron Corp. Nebulizer. 2,882,026, 4-14-59, Cl. 261-2.
- Eichelman, Francis J., to Chemetron Corp. Diffuser type vaporizer. 2,902,269, 9-1-59, Cl. 261-124.
- Eichenbaum, Arie L., and R. Knechtli, to Radio Corp. of America. Control device. 2,881,349, 4-7-59, Cl. 315-3.6.
- Eichenbaum, William, and M. Mandel. Rotary duplicating apparatus. 2,883,929, 4-28-59, Cl. 101-132.5.
- Eichenbaum, William, and M. Mandel. Control system for duplicating machines. 2,903,965, 9-15-59, Cl. 101-235.
- Eichenbaum, William, and M. Mandel. Duplicating apparatus. 2,908,220, 10-13-59, Cl. 101-132.5.
- Eichenberg, Robert, to McEvoy Co. Choke. 2,893,435, 7-7-59, Cl. 138-44.
- Eichenberg, Robert, and R. S. Burns, to G. A. Butler. Plug valve. 2,868,221, 1-13-59, Cl. 137-246.12.
- Eichhorn, Jacob, to The Dow Chemical Co. Recovery of sulfonated polymers from non-aqueous slurries. 2,877,213, 3-10-59, Cl. 260-79.3.
- Eichhorn, Jacob, to The Dow Chemical Co. Mixing liquids and solids. 2,918,263, 12-22-59, Cl. 259-4.
- Eichin, Werner, to Siemens & Halske Aktiengesellschaft. Wave conductor, particularly for travelling wave tubes. 2,903,657, 9-8-59, Cl. 333-31.
- Eichmeier, Russell R., to Burgess Cellulose Co. Stereotype dry mat. 2,918,399, 12-22-59, Cl. 162-181.
- Eichner, Joseph. Safety razor with blade retaining means on the razor cap and blade adjusting means. 2,893,119, 7-7-59, Cl. 30-54.
- Eichwald, Bernard. Hearing device. 2,899,499, 8-11-59, Cl. 179-1.
- Eichweber, Kurt. Detachable road protecting device for tractors, tracklaying vehicles and the like. 2,869,932, 1-20-59, Cl. 305-10.
- Eick, Wolfgang H. G., to International Standard Electric Corp. Automatic tuning of high frequency apparatus. 2,878,358, 3-17-59, Cl. 219-10.77.
- Eickholdt, Lawrence A., 50% to H. C. Wixson. Ladder construction. 2,902,110, 9-1-59, Cl. 182-13.
- Eickmann, Olin J.: See—  
Carlson, Harold A., Zub, and Eickmann. 2,890,031.
- Eickmann, Olin J., to ACF Industries, Inc. Carburetor construction. 2,914,307, 11-24-59, Cl. 261-34.
- Eickmeyer, Henry C. Constant pressure outlet valve. 2,888,033, 5-26-59, Cl. 137-505.
- Eidel, Paul: See—  
Hartwig, Heinrich, Steding, and Eidel. 2,872,385.
- Eiden, Leo W.: See—  
Merrill, Donald W., and Eiden. 2,875,522.
- Eidlow, Alan J., M. Markowicz, and D. I. Morgan, to Courtaulds Ltd. Ring spinning and twisting machines. 2,870,595, 1-27-59, Cl. 57-34.
- Eidsness, Fred A., and A. A. Kalinske, to Inflico Inc. Apparatus for anaerobic digestion. 2,907,712, 10-6-59, Cl. 210-208.
- Eifel, Francis J. Snow plow. 2,908,090, 10-13-59, Cl. 37-53.
- Eigen, David. Sound editing device. 2,885,485, 5-5-59, Cl. 179-100.1.
- Eigner, Leo. Camping attachment for automobiles. 2,896,650, 7-28-59, Cl. 135-1.
- Eikel, Oliver, Jr.: See—  
Radkowski, Leo, Daly, and Eikel. 2,870,676.
- Eikermann, Wilhelm: See—  
Domke, Richard, and Eikermann. 2,914,803.
- Eilbeck, Gorman E., and E. R. Urig, to The B. F. Goodrich Co. Stable latex composition comprising carboxyl-containing elastomer and alkali/metal/aluminate or the like as water-soluble curing agent. 2,868,754, 1-13-59, Cl. 260-29.7.
- Eilers, Carl G., and E. M. Roschke, to Zenith Radio Corp. Subscription television system. 2,883,449, 4-21-59, Cl. 178-51.
- Eilers, Louis H.: See—  
Beale, Alvin E. Jr., Eilers, and Abel. 2,868,294.
- Eilers, Walter, to Emerson Radio & Phonograph Corp. Voltage-compensated self biased magnetic amplifier. 2,892,975, 6-30-59, Cl. 323-89.
- Eimco Corp.: See—  
Carter, John M., and Rosenblatt. 2,875,109.  
Kaiser, Marvin M. 2,916,145.  
King, Donald L., and Davis. 2,899,068.  
Schepman, Berne A. 2,867,330.  
Schwartz, Daniel M. 2,886,192.
- Ein, Ester: See—  
Turesan, Peter S. 2,911,696.
- Einbinder, Milton, and A. W. Grube. Device for aligning and spacing parallel elements. 2,883,759, 4-28-59, Cl. 33-180.
- Einhiple, John A., to National Gypsum Co. Vertical multiple drill. 2,888,050, 5-26-59, Cl. 144-110.
- Einsele, Theodor: See—  
Ganzhorn, Karl, Einsele, and Bornhauser. 2,914,754.
- Einson-Freeman Co., Inc.: See—  
Zuckerman, Jack. 2,894,344.
- Einwaechter, Fred H., Jr. Railway axle journal stop and lubricator pad retainer. 2,913,285, 11-17-59, Cl. 308-38.
- Eisele, Andrew. Bore concentricity gauge holder. 2,884,699, 5-5-59, Cl. 33-178.
- Eisele, Chester W. Depth and diameter gage. 2,895,225, 7-21-59, Cl. 33-174.
- Eisele, Julius: See—  
Anton, Ernst, Eisele, and Federkiel. 2,911,417.  
Baumann, Hans, Arneemann, Eisele, and Federkiel. 2,913,303.  
Maier, Karl, Eisele, and Federkiel. 2,913,465.
- Eisen Brothers, Inc.: See—  
Eisen, David. 2,879,524.
- Eisen, David, to Eisen Brothers, Inc. Mattress cover. 2,879,524, 3-31-59, Cl. 5-354.
- Eisen, John B., to Bjorksten Research Laboratories, Inc. Battery constituents. 2,902,530, 9-1-59, Cl. 136-20.
- Eisen, John B., J. S. Nachtman, J. Bjorksten, and L. A. Roe; said Eisen assor. to Bjorksten Research Laboratories, Inc. Metal coating of glass fibers at high speeds. 2,907,626, 10-6-59, Cl. 18-54.
- Eisenbeis, George G. Powered rotary trowels. 2,888,863, 6-2-59, Cl. 94-45.
- Eisenberg, Daniel E., to Burroughs Corp. Electromagnetic transducer. 2,891,236, 6-16-59, Cl. 340-174.
- Eisenberg, Irwin W., C. H. Dibble, L. B. Armstrong, K. T. A. Love, and C. R. Rhodes, to Phaoston Instrument and Electronic Co. Electrical contrl unit. 2,905,776, 9-22-59, Cl. 200-37.
- Eisenberg, Irwin W., E. W. Carlson, K. T. A. Love, B. H. Stadler, S. J. Costantino, L. W. Trammell, and C. H. Dibble, to Phaoston Instrument and Electronic Co. Probe. 2,916,698, 12-8-59, Cl. 324-72.5.
- Eisenberg, Irwin W., E. W. Carlson, K. T. Love, B. H. Stadler, S. J. Costantino, L. W. Trammell, and C. H. Dibble, to Phaoston Instrument and Electronic Co. Combination probe and continuity tester. 2,916,699, 12-8-59, Cl. 324-72.5.
- Eisenberg, Philip H., to Sylvania Electric Products Inc. Electroless plating of non-conductors. 2,872,312, 2-3-59, Cl. 75-212.
- Eisenberg, Robert M., to ACF Industries, Inc. Simulated circuit breaker. 2,877,569, 3-17-59, Cl. 35-13.
- Eisenberg, Sylvan. Tracer additives for mixed feeds and method of using the same for the detection and quantitative determination of micro-ingredients in mixed feeds. 2,868,644, 1-13-59, Cl. 99-2.
- Eisenburger, Kuno: See—  
Boyer, Wilhelm, Eisenburger, Hufnagel, and Ritter. 2,916,910.
- Eisenburger, Kuno, and J. Ritter, to E V G Entwicklungs- u. Verwertungsgesellschaft m.b.H. Linkage for describing a straight line. 2,900,830, 8-25-59, Cl. 74-103.
- Eisendrath, David C.: See—  
Karlen, Harvey R., and Eisendrath. 2,869,760.
- Eisengrein, Robert H.: See—  
Sadler, Carl L., Eisengrein, and Hermannson. 2,885,566.
- Eisenhard, Eli S., and P. F. Faust, to Boyertown Burial Casket Co. Casket closure and sealing device. 2,889,609, 6-9-59, Cl. 27-17.
- Eisenhauer, Ida J.: See—  
Stover, Ancil C. 2,890,063.
- Eisenhauer, Leigh E.: See—  
Stover, Ancil C. 2,890,063.
- Eisenhauer Mfg. Co., The: See—  
Stover, Ancil C. 2,890,063.
- Eisenhauer, William A.: See—  
Stover, Ancil C. 2,890,063.
- Eisenlohr, Douglas H., and R. D. Shelton, to Columbia-Southern Chemical Corp. Dehydrochlorination of tetra-chloroethane. 2,898,383, 8-4-59, Cl. 260-654.
- Eisenlohr, Karl-Heinz: See—  
Herbert, Wilhelm, Bratzler, Dorschner, Eisenlohr, and Gross. 2,901,423.  
Herbert, Wilhelm, Grob, and Eisenlohr. 2,888,491.
- Eisenman, Louis. Receptacle covers. 2,888,163, 5-26-59, Cl. 220-38.
- Eisenmann, Karl-Heinz: See—  
Wagner, Herbert, and Eisenmann. 2,870,486.
- Eisenmann, Karl-Heinz, G. Nischke, and H. Holtschmidt, to Farbenfabriken Bayer Akt. Polyurethane resin crosslinked with polythioether and vinylidene monomer and process of making same. 2,879,250, 3-24-59, Cl. 260-45.4.
- Eisenschink, Anton. Rear view mirrors. 2,881,655, 4-14-59, Cl. 88-2.3.
- Eisermann, Friedrich, to Sulzer Freres, Societe Anonyme. Casting mold and method of casting carbon-containing alloys. 2,893,084, 7-7-59, Cl. 22-214.
- Elser, Charles J. Clothes line. 2,904,189, 9-15-59, Cl. 211-119.1.
- Eisler, Charles. Drive for turntable mechanism. 2,887,897, 5-26-59, Cl. 74-436.



- Eisler, Henry: *See*—  
Miller, Harvey A., and Eisler. 2,873,422.
- Eisler, Joseph D., C. F. Hadley, and D. Silverman, to Pan American Petroleum Corp. Variable-intensity recorder. 2,877,080, 3-10-59, Cl. 346-74.
- Eisler, Joseph D., C. F. Hadley, and D. Silverman, to Pan American Petroleum Corp. Electrographic recorder. 2,881,044, 4-7-59, Cl. 346-34.
- Eisler, Joseph D., and C. F. Hadley, to Pan American Petroleum Corp. Multiple-trace recorder. 2,907,621, 10-6-59, Cl. 346-74.
- Eisler, Joseph D., and C. F. Hadley, to Pan American Petroleum Corp. Electrographic recording apparatus. 2,910,339, 10-27-59, Cl. 346-17.
- Eisler, Paul. Electrical windings. 2,874,360, 2-17-59, Cl. 336-200.
- Eisler, Paul, to Technograph Printed Circuits Ltd. Electric resistance devices. 2,885,524, 5-5-59, Cl. 201-73.
- Eisler, Paul, to Hermoplast Ltd. Method of producing electric circuit components. 2,886,880, 5-19-59, Cl. 29-153.5.
- Eisler, Paul, to Hermoplast Ltd. Magnetic circuit components. 2,904,761, 9-15-59, Cl. 336-83.
- Eisler, Sidney. Eyeglasses for reading. 2,880,649, 4-7-59, Cl. 88-41.
- Eisner, John H. Template. 2,887,776, 5-26-59, Cl. 33-174.
- Eisner, Steve, to Ford Motor Co. Resist etching. 2,887,367, 5-19-59, Cl. 41-43.
- Elisses, Jacob A.: *See*—  
Deenik, Johan F., and Elisses. 2,904,361.
- Eissfeldt, Erich F., and R. T. Thurner, to Siemens & Halske Akt. Teleprinter ink-ribbon drive control. 2,886,162, 5-12-59, Cl. 197-162.
- Eissmann, Oswald E., to American Machine & Foundry Co. Cigarette and apparatus for making the same. 2,888,935, 6-2-59, Cl. 131-94.
- Eissmann, Oswald E., to American Machine & Foundry Co. Cigarette. 2,918,922, 12-29-59, Cl. 131-10.
- Elstrup, Joseph. Pool cleaner. 2,902,705, 9-8-59, Cl. 15-246.5.
- Eisner, James R., to Standard Oil Co. Polymerization of alpha olefins in the presence of an AlR<sub>3</sub> catalyst. 2,871,276, 1-27-59, Cl. 260-683.15.
- Eitel, Jay M. Telescoping assembly. 2,896,750, 7-28-59, Cl. 189-14.
- Eitel, Kurt: *See*—  
Grunlich, Wilhelm, Mauthe, and Eitel. 2,887,410.
- Eitel, Kurt, F. Schmidt, and G. Mauthe, ½ to Farbenfabriken Bayer Akt., and ½ to Mobay Chemical Co. Process for the preparation of coating of soft resins from polyisocyanates and compounds containing hydroxyl groups. 2,897,166, 7-28-59, Cl. 260-22.
- Eitel-McCullough, Inc.: *See*—  
Badger, George M. W. 2,890,415.  
Badger, George M. W. 2,910,613.  
Chambers, George R. 2,875,369.  
Eitel, William W., McCullough, and Wunderlich. 2,918,597.
- Levin, Martin E., Wolfson, and Young. 2,909,690.
- McCullough, Jack A., and Williams. 2,910,607.
- Murdock, Clayton E. 2,867,747.
- Noble, Lowell A., and Chamberlin. 2,901,678.
- Polese, James P. 2,880,349.
- Preist, Donald H. 2,867,726.
- Preist, Donald H. 2,867,746.
- Preist, Donald H., and Murdock. 2,871,397.
- Preist, Donald H., Williams, and Hall. 2,903,614.
- Sorg, Harold E., and La Forge. 2,899,590.
- Stuart, William R. 2,901,657.
- Williams, Paul D. 2,879,428.
- Williams, Paul D. 2,882,118.
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 Outtersen, Charles R., Bell, and Ellerson. 2,878,119.
- Elletson, Allan W.:** See—  
 Magnuson, Merriell P., and Elletson. 2,914,796.
- Ellickson, Eugene G.** Supporting means for ladders and scaffolds. 2,912,207, 11-10-59, Cl. 248-238.
- Ellicott, Charles E., Jr., to Ellicott Machine Corp.** Spud construction for dredges. 2,917,851, 12-22-59, Cl. 37-73.
- Ellicott Machine Corp.:** See—  
 Ellicott, Charles E., Jr. 2,917,851.
- Ellin, Nils A.** Holder for read-made four-in-hand tie. 2,869,199, 1-20-59, Cl. 24-49.
- Elling, Hugo, R. Elssner, and K. Heuer,** to American Enka Corp. Production of yarns of regenerated cellulose having improved properties. 2,893,821, 7-7-59, Cl. 18-54.
- Ellinger, Francis C.:** See—  
 Voss, Wendell G., and Ellinger. 2,898,218.
- Ellings, Arthur C.:** See—  
 Weinland, Clarence E., and Ellings. 2,876,620.
- Ellingson, La Verne O., to Quik-N-Easy Products, Ltd.** Automobile boat loading and carrying attachment. 2,887,237, 5-19-59, Cl. 214-450.
- Ellingson, La Verne O., to Quik-N-Easy Products, Ltd.** Boarding ladder. 2,896,831, 7-28-59, Cl. 228-54.
- Ellington, Alvin M.:** See—  
 Dobbratz, Edward J., and Ellington. 2,872,261.
- Ellington, Lois F.:** See—  
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- Elliot Enterprises, Inc.:** See—  
 Mallinckrodt, George E. 2,882,872.  
 Mallinckrodt, George E. 2,895,457.
- Elliott Addressing Machine Co.:** See—  
 Elliott, Harmon P. 2,903,510.
- Elliott, B., & Co. Ltd.:** See—  
 Selby, James. 2,903,931.  
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- Elliott Brothers (London) Ltd.:** See—  
 Ellis, Stafford M. 2,908,083.  
 Kinear, John A. C. 2,870,524.  
 Last, James. 2,880,994.  
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 Pateman, Jack E. 2,871,347.
- Elliott, Clifton M., R. P. Graham, and M. E. Noftz,** to Chrysler Corp. Low pressure, continuous flow fuel injection system. 2,871,844, 2-3-59, Cl. 123-119.
- Elliott, Clifton M., and M. E. Noftz,** to Chrysler Corp. Fuel injection system for an internal combustion engine. 2,893,364, 7-7-59, Cl. 123-119.
- Elliott, Daniel R., E. H. Culp, and W. H. Hulswit, Jr., to United States Rubber Co.** Fluid spring. 2,901,242, 8-25-59, Cl. 267-15.
- Elliott, Daniel R., K. A. Ferguson, and K. A. Reid,** to United States Rubber Co. Method and apparatus for determining and measuring thump. 2,914,940, 12-1-59, Cl. 73-146.



- Elliott, Douglas A.: *See*—  
Hall, John L., and Elliott. 2,917,026.
- Elliott, Douglas H. Sanitary disposable holder for oral hygiene devices. 2,916,154, 12-8-59, Cl. 211-65.
- Elliott, Douglas H. Sanitary disposable holder for oral hygiene devices. 2,916,155, 12-8-59, Cl. 211-66.
- Elliott, Duncan: *See*—  
Cosby, William T., Elliott, Gifford, and Dawson. 2,881,857.
- Elliott, Edwin G., Jr.: *See*—  
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- Elliott, Everett E.: *See*—  
Bly, Austin, and Elliott. 2,917,892.
- Elliott, George, to General Dynamics Corp. Radio or carrier terminal dial selector. 2,870,263, 1-20-59, Cl. 179-41.
- Elliott, George, to General Dynamics Corp. Pulse generator. 2,878,438, 3-17-59, Cl. 321-49.
- Elliott, George, to General Dynamics Corp. Electronic selector switch. 2,889,537, 6-2-59, Cl. 340-166.
- Elliott, George, to General Dynamics Corp. Telephone conference circuit. 2,894,074, 7-7-59, Cl. 179-41.
- Elliott, George, to General Dynamics Corp. Electronic switch. 2,904,705, 9-15-59, Cl. 307-88.5.
- Elliott, George, to General Dynamics Corp. Electronically controlled relay. 2,918,609, 12-22-59, Cl. 317-148.5.
- Elliott, George H., to Dale Electronics Corp. Potentiometer. 2,873,338, 2-10-59, Cl. 201-62.
- Elliott, Harold F.: *See*—  
Chesebrough, James A., Scott, and Elliott. 2,894,178.  
Scott, David R., Chesebrough, and Elliott. 2,877,657.
- Elliott, Harold F. Time-control device. 2,907,386, 10-6-59, Cl. 161-1.
- Elliott, Harold W., to W. E. Kelsey. Reinforced sponge cleaning device. 2,885,703, 5-12-59, Cl. 15-118.
- Elliott, Harmon P., to Elliott Addressing Machine Co. Work holders and auxiliary support for work holders of facsimile producing machines. 2,903,510, 9-8-59, Cl. 178-66.
- Elliott, Hartwell A. Pipe laying device. 2,879,649, 3-31-59, Cl. 61-72.
- Elliott, Howard E.: *See*—  
Janson, Stefan K., Wild, and Elliott. 2,887,808.
- Elliott, James F., and R. E. Halsted, to General Electric Co. Electroluminescent device and networks. 2,904,696, 9-15-59, Cl. 250-213.
- Elliott, John H., to Hercules Powder Co. Recovery of terephthalic acid. 2,879,291, 3-24-59, Cl. 260-525.
- Elliott, John S., and E. D. Edwards, to C. C. Wakefield & Co. Ltd. Lubricating oils. 2,897,152, 7-28-59, Cl. 252-47.5.
- Elliott, Kenneth M., to Socony Mobil Oil Co., Inc. High pressure reforming with lowered hydrogen partial pressure. 2,870,083, 1-20-59, Cl. 208-135.
- Elliott, Kenneth M., to Socony Mobil Oil Co., Inc. Minimizing thermal reforming in catalytic reforming. 2,886,516, 5-12-59, Cl. 208-134.
- Elliott, Kenneth M., and L. P. Evans, to Socony Mobil Oil Co., Inc. Method of supplying endothermic heat of reaction. 2,886,507, 5-12-59, Cl. 208-78.
- Elliott, Kenneth M., and W. W. Hamilton, to Socony Mobil Oil Co., Inc. Reforming employing refrigerated recycle gas. 2,898,288, 8-4-59, Cl. 208-134.
- Elliott, Llewellyn J., to Pye Ltd. Acoustic enclosure for loudspeakers. 2,917,127, 12-15-59, Cl. 181-31.
- Elliott, Marshall, and L. U. Franklin, to Gulf Oil Corp. Two step process for refining of lubricating oils with aluminum chloride. 2,872,413, 2-3-59, Cl. 208-297.
- Elliott, Raymond G., 1/4 to Gadget-Of-The-Month Club, Inc. Safety lighter. 2,902,352, 9-1-59, Cl. 44-35.
- Elliott, Ralph M., 49% to G. M. McDonald. Curtain rod with integral attachment means. 2,918,175, 12-22-59, Cl. 211-105.2.
- Elliott, Robert H. Protective sleeve. 2,904,792, 9-22-59, Cl. 2-16.
- Elliott, Robert H., Jr.: *See*—  
Massengale, John T., and Elliott. 2,872,301.  
Spring, Samuel, and Elliott. 2,882,134.
- Elliott, Robert H., Jr., to Pennsalt Chemicals Corp. Chemical composition and process for aluminum etching. 2,882,135, 4-14-59, Cl. 41-42.
- Elliott, Robert H., Jr., to Pennsalt Chemicals Corp. Chemical composition and process for aluminum etching. 2,918,357, 12-22-59, Cl. 41-42.
- Elliott, Robert S., to Hughes Aircraft Co. Waveguide coupling device. 2,878,453, 3-17-59, Cl. 333-33.
- Elliott, Stanley B.: *See*—  
Fuchsman, Charles H., Charnas, and Elliott. 2,905,554.  
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- Elliott, Stanley B., to Ferro Corp. Stabilization of halogenated hydrocarbon resins. 2,918,451, 12-22-59, Cl. 260-45.75.
- Elliott, Thomas. Tool joint and valve seat grinder. 2,878,626, 3-24-59, Cl. 51-241.
- Elliott, William B. Means and method for joining parts. 2,899,224, 8-11-59, Cl. 287-126.
- Elliott, William S., to Collins Radio Co. Impulse-governed oscillator. 2,901,706, 8-25-59, Cl. 331-48.
- Ellis, Arthur G.: *See*—  
Abberley, Maurice W., Parker, and Ellis. 2,867,885.
- Ellis, Benjamin F. Power mower with endless belt cutting means. 2,867,069, 1-6-59, Cl. 56-25.
- Ellis, Carlos B.: *See*—  
Morris, William W. 2,871,329.
- Ellis, Charles A., to Ritter Co., Inc. Dental handpiece. 2,884,695, 5-5-59, Cl. 32-26.
- Ellis, Charles A., to Ritter Co., Inc. Combined bearing and turbine element. 2,891,312, 6-23-59, Cl. 32-27.
- Ellis, Charles A., to American Optical Co. Release relief valve. 2,899,976, 8-18-59, Cl. 137-599.2.
- Ellis, Charles L. Wire tying machine. 2,868,239, 1-13-59, Cl. 140-43.6.
- Ellis, Charles W.: *See*—  
Childers, Eugene, Ellis, and Ryan. 2,910,343.
- Ellis, Charles W., III, and R. H. Daniels, to The Kaman Aircraft Corp. Mechanism for indicating and correcting lift differences in a helicopter rotor. 2,891,741, 6-23-59, Cl. 244-17.13.
- Ellis, David H., and R. T. Mielke, to The Oscar C. Rixson Co. Door closer. 2,909,801, 10-27-59, Cl. 16-62.
- Ellis, Edward A., to Western Electric Co., Inc. Strand feeding tool. 2,872,129, 2-3-59, Cl. 242-157.
- Ellis-Foster Co.: *See*—  
Rust, John B. 2,873,265.
- Ellis, Frampton E., Jr. Bound vortex skin. 2,899,150, 8-11-59, Cl. 244-41.
- Ellis, George O., to Black, Sivalls & Bryson, Inc. Apparatus for circulating a liquid in a fluid pressure system. 2,884,860, 5-5-59, Cl. 103-50.
- Ellis, Glenn R. Variable loaded whip antenna. 2,894,260, 7-7-59, Cl. 343-745.
- Ellis, Herbert M., and A. Shaines, to W. R. Grace & Co. Process for drying charged storage battery plates. 2,880,520, 4-7-59, Cl. 34-29.
- Ellis, Hubert C. Centrifugal extractor. 2,907,464, 10-6-59, Cl. 210-360.
- Ellis, Jesse D., and S. L. Webster. Apparatus for making concrete building block. 2,916,793, 12-15-59, Cl. 25-41.
- Ellis, John H., to General Motors Corp. Piston ring expander. 2,879,117, 3-24-59, Cl. 309-41.
- Ellis, John R. B., J. A. Robbers, and W. J. Rossi, to California Research Corp. Production of acetone. 2,904,592, 9-15-59, Cl. 260-593.
- Ellis, Lacoste G., to Sun Oil Co. Seismographic exploration. 2,900,037, 8-18-59, Cl. 181-5.
- Ellis, Lorin L.: *See*—  
Salisbury, Maurice B., and Ellis. 2,904,320.
- Ellis, Milton: *See*—  
Russo, Jack P., and Ellis. 2,885,758.
- Ellis, Ray C., Jr. to Raytheon Co. Preparation of silicon. 2,904,404, 9-15-59, Cl. 23-223.5.
- Ellis, Ray C., Jr., and W. F. Leverton, to Raytheon Co. Preparation of substantially pure silicon. 2,916,359, 12-8-59, Cl. 23-273.
- Ellis, Robert M., to Rotolite Corp. Photographic-printing apparatus. 2,875,677, 3-3-59, Cl. 95-77.5.
- Ellis, Stafford M., to Elliott Brothers (London) Ltd. Measuring devices for railway tracks. 2,908,083, 10-13-59, Cl. 33-144.
- Ellis, Steven G.: *See*—  
Atkinson, Ralph B., and Ellis. 2,897,286.  
Atkinson, Ralph B., and Ellis. 2,901,309.
- Ellis, Weldon T., Jr. Aquarium cleaner. 2,899,063, 8-11-59, Cl. 210-169.
- Ellis, William F.: *See*—  
Savoca, Joseph I., and Ellis. 2,880,170.
- Ellison, Arthur E. Vacuum type coffee maker. 2,912,921, 11-17-59, Cl. 99-292.
- Ellison, John V. Band expansion recorder. 2,903,521, 9-8-59, Cl. 179-100.2.
- Ellison, Joseph E., to Standard Screw Co. Stripper pin assembly. 2,880,484, 4-7-59, Cl. 22-94.
- Ellison, Luther A. Linked track of crawler track type tractors. 2,877,060, 3-10-59, Cl. 305-10.
- Ellison, Lynn E.: *See*—  
Cook, George R., and Ellison. 2,894,388.  
Marsh, Glenn A., Ellison, and Schaschl. 2,912,645.
- Ellison, Lynn E., to The Pure Oil Co. Electrical corrosion probe. 2,878,354, 3-17-59, Cl. 201-63.
- Ellison, Thomas, and H. Mulhall, to British Celanese Ltd. Apparatus for treatment of textile materials. 2,893,103, 7-7-59, Cl. 26-1.
- Ellison, Wallace D. Manual power digger. 2,890,532, 6-16-59, Cl. 37-86.
- Ellithorpe, Clarence D., to The Mosler Safe Co. Sidewalk banking apparatus. 2,902,114, 9-1-59, Cl. 186-1.
- Ellithorpe, Clarence D., to The Mosler Safe Co. Drive-in service apparatus. 2,912,066, 11-10-59, Cl. 186-1.
- Ellman, Gilbert M., to Aristo-Craft Products. Collapsible stand. 2,896,365, 7-28-59, Cl. 45-121.
- Ellman, Julius. Feeding and sleeping doll. 2,883,794, 4-28-59, Cl. 46-141.
- Ellman, Julius, to said Ellman and G. Lerner. Combined toy gun and moving target. 2,905,468, 9-22-59, Cl. 273-101.
- Ellman, Samuel H., to Lite-Vent, Inc. Awnings. 2,867,010, 1-6-59, Cl. 20-37.5.
- Ellrich, Charles N., to Philco Corp. Die handling mechanism for facilitating insertion and removal thereof in presses. 2,913,946, 11-24-59, Cl. 83-630.
- Ellson, Allan H., to National Research Development Corp. Electric pulse translation stages. 2,896,079, 7-21-59, Cl. 250-27.



- Ellstrom, Inc.: *See*—  
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- Ellsworth, Carl E., to Chemetron Corp. Coupling arrangement for an oscillatory system. 2,874,357, 2-17-59, Cl. 333-27.
- Ellsworth, Harold J. Star clock. 2,918,725, 12-29-59, Cl. 33-62.
- Ellsworth, Ivan W. Aerating roller attachment for lawn mowers. 2,912,813, 11-17-59, Cl. 56-249.
- Ellsworth, Joseph P. Tape clamp. 2,884,673, 5-5-59, Cl. 24-126.
- Ellwood, William P.: *See*—  
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- Elmendorf, Armin. Single ply veneer plank and method of making it. 2,896,682, 7-28-59, Cl. 144-309.
- Elmer, Curtis: *See*—  
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- Elmer, Otto C.: *See*—  
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- Elming, Niels: *See*—  
Clauson-Kaas, Niels K. F. W., and Elming. 2,875,207.
- Elmore, Kenneth C. Fingerprint and document copying device. 2,868,069, 1-13-59, Cl. 88-24.
- Elmore, Owen E., to P. R. Mallory & Co., Inc. Intermittent drive mechanism. 2,891,405, 6-23-59, Cl. 74-1.5.
- Elmore, William C.: *See*—  
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- Elmore, William C., to Aeroprojects, Inc. Support for vibratory devices. 2,891,178, 6-16-59, Cl. 310-26.
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- Elms, Edwin F., to R. L. Brown. Fastener. 2,873,496, 2-17-59, Cl. 24-73.
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- Elöd, Egon, R.-E. Dörr, H. Braun, J. Elian and M. Lepingle, to RED-Gesellschaft m.b.H., Technik und Produkte: Cellulose, Chemie und Chemie der Kunststoffe, and Cellulose-Polymers & Derives, "CE PE DE." Preparation of polyamides. 2,918,455, 12-22-59, Cl. 260-78.
- Eloranta, Vaito K.: *See*—  
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Land, Edwin H., and Eloranta. 2,880,660.  
Land, Edwin H., Eloranta, and Fairbank. 2,880,658.
- Eloranta, Vaito K., to Polaroid Corp. Photographic apparatus for treating sheet materials with a fluid. 2,887,030, 5-19-59, Cl. 95-89.
- Elowitz, David M., and G. P. Fulton, to United Aircraft Corp. Combination seal for a pump. 2,903,970, 9-15-59, Cl. 103-111.
- Elox Corp. Of Michigan: *See*—  
Matulatis, Victor E. 2,871,410.  
Matulatis, Victor E. 2,902,586.  
Matulatis, Victor E. 2,903,557.  
McKechnie, Ian C. 2,882,437.  
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McKechnie, Ian C. 2,903,556.
- Elpern, Bill, to Sterling Drug Inc. 1-[aryl-(polycarbon-lower-aliphatic) 1-4-acyloxy-4-arylpiperidines and their preparation. 2,880,211, 3-31-59, Cl. 260-294.3.
- Elpern, Bill, to Sterling Drug Inc. Lower-alkyl 4-phenyl-1-(higher-alkyl)piperidine-4-carboxylates and their preparation. 2,901,487, 8-25-59, Cl. 260-293.4.
- Elpern, Bill, to Sterling Drug Inc. Lower alkyl 4-phenyl-1-(3-phenylpropyl) piperidine-4-carboxylates and their preparation. 2,914,532, 11-24-59, Cl. 260-294.3.
- Elrob Mfg. Co.: *See*—  
Zacher, Norman E. 2,878,303.
- Elsdon, Michael B., to The British Oxygen Co. Ltd. Valve interlock means. 2,884,008, 4-28-59, Cl. 137-637.1.
- Else, Harry C. Grinding apparatus. 2,887,830, 5-26-59, Cl. 51-168.
- Elsenheimer, Charles W.: *See*—  
Connors, James J., and Elsenheimer. 2,893,676.
- Elsesser, Charles C.: *See*—  
Cameron, Donald E., Chilson, Elsesser, and Windmuller. 2,913,342.
- Elsey, Cleo A. Motor valve structure. 2,880,748, 4-7-59, Cl. 137-270.
- Elsey, Cleo A. Plug valve. 2,916,253, 12-8-59, Cl. 251-161.
- Elslager, Edward F.: *See*—  
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- Elslager, Edward F., and F. H. Tendick, to Parke, Davis & Co. Acridine N-oxides. 2,880,210, 3-31-59, Cl. 260-279.
- Elslager, Edward F., and F. H. Tendick, to Parke, Davis & Co. Benzo-quinolinylamino-2-[di( $\beta$ -chloroethyl) aminomethyl]-phenols. 2,883,382, 4-21-59, Cl. 260-279.
- Elslager, Edward F., and M. Sullivan, to Parke, Davis & Co. Substituted amino-benz [b] acridines. 2,902,403, 9-1-59, Cl. 167-65.
- Elsner, Edwin C., to Aeroquip Corp. Web-tensioning buckle. 2,874,431, 2-24-59, Cl. 24-77.
- Elsner, Edwin C., to Aeroquip Corp. Separable connector. 2,877,529, 3-17-59, Cl. 24-265.
- Elsner, Edwin C., to Aeroquip Corp. Cargo rail tie-down. 2,891,490, 6-23-59, Cl. 105-369.
- Elsner, Edwin C., to Aeroquip Corp. Rail-connected unit. 2,899,167, 8-11-59, Cl. 248-361.
- Elsner, Edwin C. Lock for sliding doors. 2,913,272, 11-17-59, Cl. 292-27.
- Elsner, Edwin C., and E. Prete, Jr., to Aeroquip Corp. Buckle. 2,867,876, 1-13-59, Cl. 24-168.
- Elsner, Nils A.: *See*—  
Jacobsson, Jacob B., and Elsner. 2,887,391.
- Elson, Robert E., to United States of America, Atomic Energy Commission. Recovery of protactinium from aqueous solutions. 2,894,806, 7-14-59, Cl. 23-14.5.
- Elson, William O., to The Kendall Co. Fungicidal preparations. 2,880,137, 3-31-59, Cl. 167-58.
- Elssner, Richard: *See*—  
Elling, Hugo, Elssner, and Heuer. 2,893,821.
- Elste, Edward W.: *See*—  
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- Elston, William A., L. A. McElwee, J. W. Moore, Jr., and W. C. Tomerlin, Jr., to United Gas Corp. Apparatus for detecting irregularities in surfaces. 2,896,332, 7-28-59, Cl. 33-178.
- Elton, George A. H.,  $\frac{1}{2}$  to Leda Chemicals Ltd. Methods of dispersing fogs. 2,895,679, 7-21-59, Cl. 239-2.
- Eltro G.m.b.H. & Co.: *See*—  
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- Eltze, Ulrich: *See*—  
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- Elverum, Gerard W., and P. E. Ramstad, to General Mills, Inc. Process of treating seeds containing galactomannan polysaccharides. 2,891,050, 6-16-59, Cl. 260-209.
- Elves, Douglas C. Control valve mechanism for pumping assembly. 2,882,870, 4-21-59, Cl. 12-164.
- Elving, Philip J.: *See*—  
Jackson, Warren, Jr., and Elving. 2,886,770.
- Elwell, Henry G., Jr., and S. Machlanski, to Bendix Aviation Corp. Electric signaling and indicating apparatus. 2,874,375, 2-17-59, Cl. 340-182.
- Elwell, James F.: *See*—  
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- Elwell-Parker Electric Co. The: *See*—  
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- Elwick, Keith D. Flail-type material unloader. 2,886,332, 5-12-59, Cl. 275-3.
- Elworthy, Bernard C. T., to Elmer R. Worth, Sr. Safety system for sawmill carriages. 2,893,448, 7-7-59, Cl. 143-120.
- Ely, Berten E., Jr., E. C. Grabill, and J. R. Perkins, Jr., to E. I. du Pont de Nemours and Co. Electrical resistors. 2,878,353, 3-17-59, Cl. 201-63.
- Ely, Charles M., and J. R. Foy, to Nopco Chemical Co. Poultry feed. 2,899,308, 8-11-59, Cl. 99-4.
- Ely, Donald A.: *See*—  
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- Ely, John O., to Socony Mobil Oil Co., Inc. Production of monoenergetic neutrons. 2,908,823, 10-13-59, Cl. 250-84.
- Ely, John O., G. C. Summers, and F. C. Karal, Jr., to Socony Mobil Oil Co., Inc. Velocity dependent acoustic velocity correction. 2,889,001, 6-2-59, Cl. 181-5.
- Ely, Norman J.: *See*—  
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- Ely, Robert F. Plural combustion products generators in ring coaxial with a turbine. 2,898,736, 8-11-59, Cl. 60-39.37.
- Ely, Walter J., to Oldberg Mfg. Co. Apparatus for forming tubes. 2,878,766, 3-24-59, Cl. 113-34.
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- Emanem Laboratories, Inc.: *See*—  
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- Emanuel, Bernard J. Electric testing apparatus. 2,876,304, 3-3-59, Cl. 200-46.
- Emanuel di Giuseppe e Roberto Emanuel & C.S.A.S.: *See*—  
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- Emanuel, Roberto, to Soc. ACC. Emanuel di G. e R. Emanuel & C. Washing plants for automatic vehicles. 2,881,459, 4-14-59, Cl. 15-21.
- Emanuel, Roberto, to Emanuel di Giuseppe e Roberto Emanuel & C. S.A.S. Motor vehicle washing plant. 2,896,644, 7-28-59, Cl. 134-99.
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- Emanuelson, Roy M., to High Voltage Engineering Corp. Electron accelerator for irradiation. 2,887,583, 5-19-59, Cl. 250-49.5.
- Emanuelson, Roy M., to High Voltage Engineering Corp. X-ray generator mount. 2,892,947, 6-30-59, Cl. 250-91.
- Emanuelson, Verner E. Car top tent. 2,917,059, 12-15-59, Cl. 135-1.
- Emanuelsson, Gunnar G., to Telefonaktiebolaget L M Ericsson. Pulse time modulator. 2,877,421, 3-10-59, Cl. 332-9.
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- Embschhoff, George F.: *See*—  
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- Emeis, Reimer, and W. Keller, to Siemens-Schuckertwerke Akt. Crucible-free zone-melting apparatus. 2,898,429, 8-4-59, Cl. 219-10.43.



- Emeis, Reimer, and J. Haus, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for zone melting of semiconductor material. 2,904,663, 9-15-59, Cl. 219-10.43.
- Emerick, Kenneth V.: *See—*  
Ettinger, John H., and Emerick. 2,867,192.
- Emerick, Raymond P. Impeller for centrifugal pump. 2,907,278, 10-6-59, Cl. 103-103.
- Emeritz, Raymond: *See—*  
Cohn, Nathan, and Emeritz. 2,897,721.
- Emerson Electric Mfg. Co., The: *See—*  
Ammann, Bernard W. 2,883,949.  
Eckess, William S., Sherman, and Deavenport. 2,888,525.  
Lindberg, Caryl A. 2,918,555.
- Emerson, Howard J., to Eastman Kodak Co. Identification of sensitized paper or film defects with magnetic materials. 2,904,174, 9-15-59, Cl. 209-72.
- Emerson, John F., to Kearfott Co., Inc. Tachometer with quadrature suppression. 2,889,475, 6-2-59, Cl. 310-171.
- Emerson, John H. Apparatus for vibrating portions of a patient's airway. 2,918,917, 12-29-59, Cl. 128-27.
- Emerson, John R., G. W. Fuller, and A. G. Richards. Dashpot. 2,894,740, 7-14-59, Cl. 267-1.
- Emerson, Marvin R., and M. L. Hoover, to The National Cash Register Co. Modular circuit fabrication. 2,885,602, 5-5-59, Cl. 317-101.
- Emerson, Oliver H., and E. M. Bickoff, to United States of America, Agriculture. Synthesis of coumestrol and its esters. 2,884,427, 4-28-59, Cl. 260-343.2.
- Emerson, Oliver H., and E. M. Bickoff, to United States of America, Agriculture. Purification of coumestrol. 2,895,964, 7-21-59, Cl. 260-343.2.
- Emerson-Pryne Co.: *See—*  
Ford, Harold H. 2,870,319.  
Ford, Harold H., and Papsdorf. 2,875,316.  
Pryne, Ralph. 2,874,628.  
Sperling, Jacob G. 2,869,002.
- Emerson Radio & Phonograph Corp.: *See—*  
Eilers, Walter. 2,892,975.  
Makrides, Constantine G. 2,905,309.  
Morrison, Robert F., Jr. 2,908,813.  
Pollak, Philip, Jr., and Lopes. 2,911,279.
- Emerson, Reginald S., to Bryce Berger Ltd. Governors for prime movers. 2,898,100, 8-4-59, Cl. 264-12.
- Emerson, Reginald S., to Bryce Berger Ltd. Hydraulic speed governing mechanism for prime movers. 2,905,457, 9-22-59, Cl. 264-3.
- Emerson, Stanley A. Process of making a multifocal lens blank. 2,885,827, 5-12-59, Cl. 49-82.1.
- Emerson, Stanley A. Process of making a multifocal lens blank. 2,885,828, 5-12-59, Cl. 49-82.1.
- Emerson, Stanley A. Process of making a multifocal lens blank. 2,885,829, 5-12-59, Cl. 49-81.
- Emert, Gerald E., to Frigid Fluid Co. Burial vault lid carriage. 2,901,137, 8-25-59, Cl. 214-394.
- Emert, Oskar: *See—*  
Kuss, Ernst, Emert, Dietrich, Elbel, and Zirngibl. 2,910,348.
- Emery, Charles B., to Western Electric Co., Inc. Spring testing apparatus. 2,882,723, 4-21-59, Cl. 73-161.
- Emery, Franklin L. Theft prevention device for motor vehicles. 2,891,628, 6-23-59, Cl. 180-82.
- Emery, Frederic P., to Westinghouse Electric Corp. Electric governor for prime movers. 2,909,672, 10-20-59, Cl. 307-57.
- Emery, Frederic P., and H. A. Perkins, Jr., to Westinghouse Electric Corp. Magnetic amplifier controlled electric governor for prime movers. 2,909,779, 10-20-59, Cl. 290-4.
- Emery Industries, Inc.: *See—*  
Barrett, Fred O., and Kamlet. 2,889,198.  
Oehlschlaeger, Herman F., Jr. 2,872,447.
- Emery, John R., to E. I. du Pont de Nemours and Co. Process for producing crimpable regenerated cellulose filaments. 2,882,122, 4-14-59, Cl. 18-54.
- Emery, Raymond W., R. A. Henle, and J. C. Logue, to International Business Machines Corp. Electronic single pole multi-throw switch. 2,884,546, 4-28-59, Cl. 307-88.5.
- Emery, Raymond W., and R. A. Henle, to International Business Machines Corp. Binary trigger circuit employing single transistor. 2,906,889, 9-29-59, Cl. 307-88.5.
- Emery, William M. Blanket supports. 2,878,492, 3-24-59, Cl. 5-319.
- Emery, William, K. Rubner, and F. Zedi, to P. Vogel & Cie. Rheostat. 2,909,748, 10-20-59, Cl. 338-158.
- Emhart Mfg. Co.: *See—*  
Bourne, Roland B., and Tyskewicz. 2,904,125.  
Bourne, Roland B., and Tyskewicz. 2,914,132.  
Giffen, James L. 2,881,929.  
Giffen, James L. 2,907,566.  
Lyle, Aaron K. 2,890,547.  
Richey, David M. 2,872,903.  
Williamson, William R. 2,885,328.
- Emhiser, Donald E., to Pittsburgh Plate Glass Co. Zircon refractory composition and method of making it. 2,880,097, 3-31-59, Cl. 106-57.
- Emig, Gaylord F.: *See—*  
Rath, Richard L., and Emig. 2,884,691.
- Eminger, Robert J., to Fort Wayne Tool Die & Engineering Co. Coil winding apparatus. 2,904,269, 9-15-59, Cl. 242-1.1.
- Emler, Friedrich: *See—*  
Altenpohl, Dietrich, and Emmler. 2,912,369.
- Emley, Edward F.: *See—*  
Whitehead, Derek J., and Emley. 2,919,190.
- Emley, Warren E., Jr. Door seal. 2,867,012, 1-6-59, Cl. 20-69.
- Emmel, Ludwig F.: *See—*  
Scherer, Otto, Hahn, Frensch, Emmel, and Staudermann. 2,885,430.
- Emmerling, Ralph W., to United States Ceramic Tile Co. Ceramic tile. 2,904,990, 9-22-59, Cl. 72-81.
- Emmert, George W., to Federal Premium Service, Inc. Bed construction. 2,871,489, 2-3-59, Cl. 5-114.
- Emmert, George W., to Federal Premium Service, Inc. Emblem device. 2,874,494, 2-24-59, Cl. 40-1.5.
- Emmert, George W., and A. Safianoff, to Federal Tool Corp. Tape dispenser. 2,910,217, 10-27-59, Cl. 225-25.
- Emmert, George W., and L. Barr, to Federal Tool Corp. Tape dispensing device. 2,910,218, 10-27-59, Cl. 225-26.
- Emmett, Paul H., to Gulf Research & Development Co. Dual function catalysts. 2,886,536, 5-12-59, Cl. 252-455.
- Emmett, Paul H., R. S. Spindt, and D. R. Stevens, to Gulf Research & Development Co. Method of operating an internal combustion engine. 2,888,913, 6-2-59, Cl. 123-119.
- Emmett, Paul H., R. J. Kokes, and H. H. Tobin, Jr., to Gulf Research & Development Co. Method for studying chemical reactions. 2,905,536, 9-22-59, Cl. 23-232.
- Emmett, Robert A., Jr.: *See—*  
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- Emmons, Arthur N., to The Porter-Cable Machine Co. Power operated orbital motion tool. 2,897,902, 8-4-59, Cl. 172-40.
- Emmons, Fred J., to Stewart-Warner Corp. Rib forming die assembly. 2,887,142, 5-19-59, Cl. 153-34.
- Emmons, Harold L., and J. Maravolo, to A. O. Smith Corp. Spud assembly for a tank and method of attaching same. 2,903,562, 9-8-59, Cl. 219-93.
- Eminons, Lehman G. Fireplace basket construction. 2,893,375, 7-7-59, Cl. 126-165.
- Emmons, Nelson, III: *See—*  
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- Emmons, Nelson III, to The Sheffield Corp. Device for gauging surface characteristics. 2,901,906, 9-1-59, Cl. 73-37.
- Emmons, Nelson, III, to The Sheffield Corp. Pneumatic gauging apparatus. 2,909,920, 10-27-59, Cl. 73-38.
- Empire Corp.: *See—*  
Thompson, George W., Jr. 2,873,563.
- Empire Brushes, Inc.: *See—*  
Gantz, Emanuel. 2,867,827.  
Schwartz, Harold H. 2,870,473.  
Schwartz, Harold H. 2,902,704.  
Schwartz, Harold H. 2,908,445.  
Zottola, Frank B. 2,916,754.
- Empire Products, Inc.: *See—*  
Senior, Robert, Jr. 2,877,332.  
Senior, Robert, Jr. 2,917,569.  
Stevens, Charles H., Jr. 2,907,973.
- Empire Varnish Co., The: *See—*  
Hawkins, Robert L., Jr., and Bobalek. 2,904,523.
- Emporium Trust Co.: *See—*  
Barren, James L. 2,891,020.
- Empresa Nacional Calvo Sotelo de Combustibles Liquidos y Lubrificantes, S.A.: *See—*  
Jurado, Juan R. 2,917,446.
- Emrick, Dorothea A.: *See—*  
Emrick, Melvin H. 2,883,024.  
Emrick, Melvin H. 2,914,932.
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- Emrick, Melvin H., deceased: D. A. Emrick, executrix. Lubricating system for universal link drives. 2,914,932, 12-1-59, Cl. 64-32.
- Ems, Joseph R.: *See—*  
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- Emslie, Alfred G., to United States of America, Navy. Moving target radar system. 2,863,657, 4-21-59, Cl. 343-7.7.
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Cook, Vernon L., and Knaack. 2,881,409.
- Emter, Dietrich and H.-L. Winterstein, to Aluminium Laboratories Ltd. Process for casting-in of sintered metal bodies. 2,874,429, 2-24-59, Cl. 22-203.
- Emulsol Chemical Corp.: *See—*  
Epstein, Solomon, Fuchs, and Gladstone. 2,874,126.
- Enabnit, Robert S., to The Goodyear Tire & Rubber Co. D.C. amplifier. 2,900,454, 8-18-59, Cl. 179-171.
- Enco Mfg. Co.: *See—*  
Benes, Gordon J. 2,908,195.
- Ende, Don. Miter jig attachment for table saws. 2,895,515, 7-21-59, Cl. 143-169.
- En Dean, Howard J., to Gulf Research & Development Co. Means for laterally bracing partially submerged erect structures. 2,903,856, 9-15-59, Cl. 61-46.
- En Dean, Howard J., J. D. Jones, and E. Topanelian, Jr., to Gulf Research & Development Co. Pipeline surveying. 2,884,624, 4-28-59, Cl. 340-282.
- Endebak, Peter J., G. Riske, and W. R. Tucker, to Parker-Hannifin Corp. Air line lubricators. 2,889,009, 6-2-59, Cl. 184-55.
- Enderli, Ernst, to Weber A. G. Fabrik Elektrotechnischer Artikel und Apparate. Automatic circuit breaker. 2,875,296, 2-24-59, Cl. 200-116.



- Enders, Edgar, to Farbenfabriken Bayer Akt. O,O'-dihydroxyazo dyestuffs and their metal complex compounds. 2,868,777, 1-13-59, Cl. 260-149.
- Enders, Edgar, to Farbenfabriken Bayer Akt. Monoazo dyestuffs. 2,880,202, 3-31-59, Cl. 260-146.
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- Enders, Harter C.,  $\frac{1}{2}$  to A. H. Beaton. Expandable mandrel for mounting armor rod tools. 2,883,821, 4-28-59, Cl. 57-10.
- Enders, John A., to Royal McBee Corp. Trip pawl control mechanism. 2,896,765, 7-28-59, Cl. 197-17.
- Endevco Corp.: See—
- Cother, Robert H. 2,903,633.
- Endicott, Clarence J., A. A. Dallavis, and H. M. N. Dickinson, to Abbott Laboratories. Thin film coating for tablets and the like. 2,881,085, 4-7-59, Cl. 106-171.
- Endlich, Friedrich, to Hartmann & Braun Akt. Moving coil instrument with core magnet. 2,901,702, 8-25-59, Cl. 324-151.
- Endo, Frank S.: See—
- Feinberg, Albert E., and Endo. 2,892,249.
- Endo, Katsukiro: See—
- Kanamori, Kuro, Endo, Kodama, and Tokuhisa. 2,918,365.
- Endo Laboratories, Inc.: See—
- Schlesinger, Albert, and Gordon. 2,917,508.
- "Endopharm" Frankfurter Arzneimittelfabrik G.m.b.H.: See—
- Storbeck, Werner. 2,890,244.
- Endres, Charles W., to Babcock Radio Engineering, Inc. Antenna. 2,907,035, 9-29-59, Cl. 343-814.
- Endres, Donald J.: See—
- Endres, John M. 2,889,640.
- Endres, Donald M., and R. M. Shepard, to Muskegon Piston Ring Co. Spacer and expander for piston rings. 2,904,377, 9-15-59, Cl. 309-40.
- Endres, Johann. Jet propulsion and like power plant. 2,875,576, 3-3-59, Cl. 60-35.6.
- Endres, John M., 50% to D. J. Endres. Disc snow plow. 2,889,640, 6-9-59, Cl. 37-42.
- Endres, Richard O., and D. E. Deutch, to Radio Corp. of America. Semiconductor integrator. 2,889,467, 6-2-59, Cl. 307-88.5.
- Endress, Hermann: See—
- Steinbuch, Karl W., Endress, and Reiner. 2,906,824.
- Endrezze, William E. Detachable spiral conveyor ore classifier. 2,872,042, 2-3-59, Cl. 209-464.
- Endrezze, William E. Submerged greaseless bearing for metallurgical process. 2,904,179, 9-15-59, Cl. 209-464.
- Endsdown Co., Inc.: See—
- Cohen, Morris U. 2,875,928.
- Liebowitz, Benjamin. 2,884,640.
- Enemark, Arne F., to Danfoss Ved ingenior Mads Clausen. Rotary pumps a device for reversing the rotation of the pump without reversing its direction of suction. 2,893,823, 7-7-59, Cl. 103-117.
- Enemark, Arne F., to Danfoss ved ingenior Mads Clausen. Double-acting rotary piston pump. 2,915,974, 12-8-59, Cl. 103-5.
- Engberg, Ralph E.: See—
- Lane, James A., Engberg, and Welch. 2,885,893.
- Engblom, Douglas R., 50% to H. J. Brown. Slide top dispenser carton for cigarettes and other articles. 2,902,201, 9-1-59, Cl. 229-17.
- Engel, Charles F., and D. N. De Woskin, to Engel Sheet Metal Equipment, Inc. Closing tool for outstanding sheet-metal seams. 2,903,988, 9-15-59, Cl. 113-57.
- Engel, Edward. Spark plugs and the like. 2,900,547, 8-18-59, Cl. 313-130.
- Engel, Edward W., and I. R. Dunlap, to Johnson & Johnson. Flexible paper web and process of producing same. 2,899,353, 8-11-59, Cl. 162-165.
- Engel, Elmer J. C. Horizontally swingable and vertically movable jointer guard. 2,911,021, 11-3-59, Cl. 144-251.
- Engel, Friedrich V. A. E. and G. F. M., to Electroflo Meters Co., Ltd. Ion-concentration measuring and/or controlling apparatus. 2,879,469, 3-24-59, Cl. 324-30.
- Engel & Gibbs Ltd.: See—
- Schneider, Frederick E. W. 2,900,826.
- Engel, Gunther F. M.: See—
- Engel, Friedrich V. A. E. and G. F. M. 2,879,469.
- Engel, Hans: See—
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- Engel, J. Anthony, and R. C. Lamkin, to The Murray Corp. of America. Combined washer and drier. 2,875,526, 3-3-59, Cl. 34-45.
- Engel, Jan M., to General Electric Co. Non-linear resistance device. 2,907,934, 10-6-59, Cl. 317-234.
- Engel, John H. Filtering and processing apparatus. 2,911,291, 11-3-59, Cl. 23-288.
- Engel, Karl: See—
- Waninger, Gilbert, and Engel. 2,901,947.
- Engel, Lenke. Crepe paper and similar bands. 2,887,805, 5-26-59, Cl. 41-10.
- Engel, Ludolf, and H. Panzer; said Panzer assor. to said Engel. Pulsation dampener. 2,904,076, 9-15-59, Cl. 138-26.
- Engel Sheet Metal Equipment, Inc.: See—
- Engel, Charles F., and De Woskin. 2,903,988.
- Engel, Thomas, to Vasco Industries Corp. Method for the manufacture of large selfsupporting articles from finely divided thermoplastics. 2,915,788, 12-8-59, Cl. 18-58.
- Engel, Walter, to Sulzer Freres, Societe Anonyme. Method and means for desalting the operating fluid of a steam generator. 2,879,750, 3-31-59, Cl. 122-379.
- Engel, Willem F., to Shell Development Co. Polymerization of olefins using a phosphoric acid catalyst and manufacture of said phosphoric acid catalyst. 2,913,506, 11-17-59, Cl. 260-683.15.
- Engel, William J., to Cinch Mfg. Corp. Mounting and contact member. 2,869,107, 1-13-59, Cl. 339-220.
- Engel, Wolfgang. Pitmans or links for sewing machine transmissions. 2,903,909, 9-15-59, Cl. 74-581.
- Engel, Wolfgang, and E. Broedner, to Phoenix-Nähmaschinen A. G., Baer & Rempel. Needle bar oscillator adjusting means in sewing machines. 2,873,707, 2-17-59, Cl. 112-221.
- Engel, Wolfgang, and F. Höner, to Phoenix-Nähmaschinen A. G., Baer & Rempel. Sewing machine. 2,895,441, 7-21-59, Cl. 112-248.
- Engelbart, Douglas C., to Digital Techniques, Inc. Glow discharge devices. 2,869,036, 1-13-59, Cl. 315-84.6.
- Engelder, Theodore C.: See—
- Noddings, Charles R., Miller, and Engelder. 2,905,608.
- Engelhard Industries, Inc.: See—
- Anderson, Edward P. 2,917,594.
- Andersen, Holger C., and Haley. 2,909,578.
- Anderson, William T., Jr. 2,896,107.
- Bird, Lester F. 2,870,379.
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- Bird, Lester F. 2,889,489.
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- Boyers, Gertrude G. 2,868,847.
- Doring, Walter F., Jr. 2,908,623.
- Druce, William J. 2,887,029.
- Germer, Edmund H. 2,892,113.
- Gern, Ernst D. 2,895,395.
- Green, Robert B., and Hill. 2,911,057.
- Hettinger, William P., Jr. 2,893,948.
- Keith, Carl D. 2,874,130.
- Keith, Carl D. 2,909,481.
- Keith, Carl D. 2,914,485.
- Keith, Carl D., and Haul. 2,867,588.
- Keith, Carl D., and Seligman. 2,916,356.
- Potter, Charles. 2,911,286.
- Schlösser, Carl E., and Whitenack. 2,880,369.
- Stumback, Max J. 2,888,742.
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- Köbel, Herbert, and Engelhardt. 2,917,531.
- Engelhardt, Richard A., to The Martin Co. Electrical phase sequence switch. 2,910,558, 10-27-59, Cl. 200-92.
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- Moss, Edgar E. 2,912,715.
- Engelman, Joseph H., L. R. Landrey, and V. J. Le Gendre, to Burroughs Corp. Ion control means. 2,873,407, 3-17-59, Cl. 313-109.5.
- Engelmann, Alvin L.: See—
- Bottemiller, Merton M., and Engelmann. 2,916,084.
- Engelmann, Gerhard: See—
- Klettke, Ernst, and Engelmann. 2,867,765.
- Engelmann, Herbert F.: See—
- Grieg, Donald D., and Engelmann. 2,915,718.
- Engelmann, Julius D., to Contour Arch, Inc. Contour arch cushion for shoes. 2,887,796, 5-26-59, Cl. 36-71.
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- Engelmann, Otto R. Optometrical device. 2,884,702, 5-5-59, Cl. 33-200.
- Engelmann, Richard H., to J. P. Hayden. Synchronizing and compensating circuit for headlight control system. 2,917,663, 12-15-59, Cl. 315-82.
- Engelmann, Richard H., and F. M. Foster, to J. P. Hayden. Momentary electrical override for headlight control system. 2,917,666, 12-15-59, Cl. 315-83.
- Engels, Eugene O., to Baker Perkins, Inc. Temperature regulated multiple burner supply system. 2,899,135, 8-11-59, Cl. 236-15.
- Engels, Eugene O., and J. A. Dersch, to Baker Perkins, Inc. Bread handling apparatus. 2,900,927, 8-25-59, Cl. 107-57.
- Engels, Kaspar, to Drafswerke G.m.b.H. Mixing apparatus. 2,907,555, 10-6-59, Cl. 259-9.
- Engels, Walter: See—
- Kessler, Joseph H., and Engels. 2,904,825.



- Engels, Walter, to Bommer Spring Hinge Co. Inc. Door bumpers. 2,899,718, 8-18-59, Cl. 20-16.
- Engelstad, George E.: *See—*  
Mazzio, Anthony J., Niesen, Engelstad, and Du Bois. 2,895,416.
- Enger, Roy E., to Sears, Roebuck and Co. Contour sheet. 2,886,833, 5-19-59, Cl. 5-334.
- Engert, Eugen, to Petrix-Union G.m.b.H. Flashlight switch. 2,897,303, 7-28-59, Cl. 200-60.
- Engine Parts Mfg. Co.: *See—*  
North, Harold D., Jr. 2,915,251.
- Engineered Equipment Inc.: *See—*  
Wilson, Harry R. 2,889,141.
- Engineered Grouting Service: *See—*  
Harmon, Bill G. 2,913,052.
- Engineered Products Co., The: *See—*  
Saxton, Millard F. 2,909,384.  
Scott, Hayes O., and Pietsch. 2,888,289.  
Scott, Hayes O., and Pietsch. 2,888,291.
- Engineered Products, Inc.: *See—*  
Jones, Herbert S. 2,878,667.
- Engineering Laboratories, Inc.: *See—*  
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- Engineering Metal Products Corp.: *See—*  
Gillespie, Russell A. 2,892,220.  
Gillespie, Russell A. 2,902,729.
- Engineering Research and Application Ltd.: *See—*  
Hodkin, David. 2,899,236.  
Hodkin, Richard K. 2,881,625.  
O'Neill, Cormac G. 2,880,710.
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- England, David C., and G. W. Parshall, to E. I. du Pont de Nemours and Co. Polyfluoroperhaloethylenediphosphines. 2,879,302, 3-24-59, Cl. 260-606.5.
- England, Forrest E.: *See—*  
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- England, Hilda M. Attachments for typewriters. 2,900,067, 8-18-59, Cl. 197-151.
- England, Waldo B.: *See—*  
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- Englander Co., Inc.: *See—*  
Koenigsberg, Max. 2,874,389.  
Waugh, Robert E., and Rider. 2,907,127.  
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- Engle, Paul M., and J. R. Swanton, Jr.: said Engle assor. to Cambridge Filter Mfg. Corp., and said Swanton assor. to Arthur D. Little, Inc. Filter construction. 2,907,407, 10-6-59, Cl. 183-71.
- Engle, Paul M., and J. R. Swanton, Jr.: said Engle assor. to Cambridge Filter Mfg. Corp., and said Swanton Jr. assor. to Arthur D. Little, Inc. Filter construction. 2,907,408, 10-6-59, Cl. 183-71.
- Engle, Robert F., Jr., to E. I. du Pont de Nemours and Co. Process of preparing polymeric terephthalic esters by interchange between a glycol and a dialkyl ester of terephthalic acid. 2,916,474, 12-8-59, Cl. 260-75.
- Engle, Robert R.: *See—*  
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- Engle, Rollin G., Jr. Device for filleting fish. 2,913,760, 11-24-59, Cl. 17-8.
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- Englert, Joseph A., to Crane Co. Valve seat construction. 2,894,718, 7-14-59, Cl. 251-357.
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- Engleson, Harry E., and S. V. Klein, to F. B. Redington Co. Bucket conveyer. 2,884,117, 4-28-59, Cl. 198-179.
- Engleson, Harry E., and E. D. Sramek, to F. B. Redington Co. Synchronized conveyor loading arrangement. 2,888,125, 5-26-59, Cl. 198-20.
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- Epstein, David W., P. E. Kaus, and D. D. Van Ormer, to Radio Corp. of America. Color-kinescopes, etc. 2,885,935, 5-12-59, Cl. 95-1.
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- Epstein, Henry D., to Metals & Controls Corp. Timing device. 2,868,923, 1-13-59, Cl. 200-87.
- Epstein, Herman, to Burroughs Corp. Ferroelectric logical circuit. 2,884,618, 4-28-59, Cl. 340-173.
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- Epstein, Jack A. Packaged beverage products and methods of making them. 2,901,357, 8-25-59, Cl. 99-171.
- Epstein, Max, to Hickok Mfg. Co., Inc. Concealed hole waist belt. 2,898,603, 8-11-59, Cl. 2-322.
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- Erath, Louis W., to Dresser Industries, Inc. Resistance meter. 2,879,471, 3-24-59, Cl. 324-62.
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- Erbe, Otto, and A. Rakebrandt, to C. Zeiss. Coarse and fine movement for optical instruments, especially microscopes. 2,877,651, 3-17-59, Cl. 74-10.52.
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- Ericks, Walter P., to The Upson Co. Process of dimensionally stabilizing cellulose, composition used therefor, and article produced. 2,898,313, 8-4-59, Cl. 260-17.2.
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- Erickson, Einar W.: *See*—  
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- Erickson, Floyd B., R. A. Heimsch, B. S. Wildi, and T. M. Patrick, Jr., to Monsanto Chemical Co. Production of alpha-methylbenzyl hydroperoxide. 2,867,666, 1-6-59, Cl. 260-610.
- Erickson, Gustav F., to National Rejectors, Inc. Cup dispenser. 2,888,167, 5-26-59, Cl. 221-113.
- Erickson, Gustav F., to National Rejectors Inc. Coin separators. 2,899,039, 8-11-59, Cl. 194-72.
- Erickson, Harold E.: *See*—  
Nelson, Charles V. and N. E., Erickson, and Hellenkamp. 2,914,321.
- Erickson, Helmer E.: *See*—  
Beyerstedt, John M., and Erickson. 2,894,419.
- Erickson, Henry: *See*—  
Teter, John W., Gring, and Erickson. 2,898,305.  
Teter, John W., Gring, and Erickson. 2,898,308.
- Erickson, Henry, to Sinclair Refining Co. Improved silica-alumina catalysts and their use in hydrocarbon cracking processes. 2,872,410, 2-3-59, Cl. 208-120.
- Erickson, Henry, to Sinclair Refining Co. Bead forming process. 2,875,159, 2-24-59, Cl. 252-448.
- Erickson, Henry, to Sinclair Refining Co. Process for preparing cobalt-molybdenum-alumina catalyst. 2,897,161, 7-28-59, Cl. 252-465.
- Erickson, Henry, to Sinclair Refining Co. Preparation of a cobalt oxide-molybdenum oxide-alumina catalyst. 2,915,478, 12-1-59, Cl. 252-465.
- Erickson, Henry R. Rotary road brush. 2,907,064, 10-6-59, Cl. 15-198.
- Erickson, Howard L.: *See*—  
Dahl, Robert R., and Erickson. 2,891,578.  
Dahl, Robert R., and Erickson. 2,899,979.
- Erickson, John W., to Westinghouse Electric Corp. Brushholder. 2,875,357, 2-24-59, Cl. 310-246.
- Erickson, John W., to Westinghouse Electric Corp. Self-cleaning ventilating system for dynamoelectric machines. 2,909,682, 10-20-59, Cl. 310-64.
- Erickson, Karl H., to Amerock Corp. Transparent display container. 2,873,023, 2-10-59, Cl. 206-45.34.
- Erickson, La Verne. Fishing apparatus. 2,892,279, 6-30-59, Cl. 43-4.
- Erickson, Lester E.: *See*—  
Van Vick, Roger J. and Erickson. 2,905,065.
- Erickson, Melvin E.: *See*—  
Willis, Newton H., Erickson, and Armstrong. 2,902,837.
- Erickson, Norman B., to The Lowrey Organ Co. Electric switches. 2,881,293, 4-7-59, Cl. 200-166.
- Erickson, Paul N., to Fruehauf Trailer Co. Automobile tie-down device for transport trailers. 2,874,992, 2-24-59, Cl. 296-1.
- Erickson, Raymond L.: *See*—  
Day, John T., Erickson, and Pettebone. 2,873,284.
- Erickson, Raymond C.: *See*—  
Carlson, William L., Jr., and Erickson. 2,897,650.
- Erickson, Robert W., to Universal Oil Products Co. Pressure control system. 2,893,845, 7-7-59, Cl. 23-260.
- Erickson, Roger E., to Telex, Inc. Hearing aid. 2,882,348, 4-14-59, Cl. 179-107.
- Erickson Tool Co.: *See*—  
Benjamin, Milton L. 2,883,886.
- Erickson, Warren E.: *See*—  
Eddison, William B., and Erickson. 2,890,558.  
Eddison, William B., and Erickson. 2,909,017.
- Erickson, Warren E., to Gisholt Machine Co. In-line spotter with bottle pocketing control. 2,873,842, 2-17-59, Cl. 198-33.
- Erickson, Wendell L., to Westinghouse Electric Corp. Transistor control for load tap changers. 2,913,657, 11-17-59, Cl. 323-43.5.
- Erickson, Willard E., to Link-Belt Co. Railway car weighing and unloading apparatus. 2,867,337, 1-6-59, Cl. 214-2.



- Erickson, William F. to General Motors Corp. Combined flow control and relief valve. 2,894,525, 7-14-59, Cl. 137-108.
- Erico Products, Inc.: *See*—  
 Burke, Donald J. 2,870,499.  
 Burke, Donald J. 2,887,743.  
 Burke, Donald J. 2,904,862.  
 Burke, Donald J. 2,917,773.  
 Rejda, Melvin F. 2,870,498.
- Ericson, Albert C.: *See*—  
 Ericson, Charles G. 2,884,199.
- Ericson, Alf E., to Aircraft Specialties, Inc. Piston ring compressor. 2,898,673, 8-11-59, Cl. 29-224.
- Ericson, Charles G., deceased, by I. H. Auden, T. A. L. Ericson, and A. C. Ericson, administrators, to M. A. Sullivan, E. G. Marsh, I. H. Auden, T. A. L. Ericson, and A. C. Ericson. One-piece rail anchor. 2,884,199, 4-28-59, Cl. 238-327.
- Ericson, John A. Trash receptacle. 2,905,354, 9-22-59, Cl. 220-20.5.
- Ericson, Karl W., and C. N. G. Geneborn; said Geneborn assor. to said Ericson. Device for distending articles of dress. 2,902,192, 9-1-59, Cl. 223-68.
- Ericson, Kenneth R.: *See*—  
 Strain, Bruce, Eaton, and Ericson. 2,876,200.
- Ericson, Richard: *See*—  
 Schuetz, Clyde C., and Ericson. 2,893,889.
- Ericson, Teresa A. L.: *See*—  
 Ericson, Charles G. 2,884,199.
- Ericsson, Curt A. G.: *See*—  
 Bergh, Sven S., Troberg, and Ericsson. 2,875,104.
- Ericsson Telephones Ltd.: *See*—  
 Acton, John R. 2,913,628.  
 Williams, David J., and Westley. 2,896,118.
- Ericsson, Thurlow E. Powered barrow or cart. 2,918,133, 12-22-59, Cl. 180-19.
- Erie, Edward. Tissue dispenser. 2,911,175, 11-3-59, Cl. 248-216.
- Erie Foundry Co.: *See*—  
 Carlton, Lynn R. 2,892,449.
- Erie Mining Co.: *See*—  
 Storm, Arthur W., and Groll. 2,884,237.
- Erie Resistor Corp.: *See*—  
 Foster, James H. 2,898,519.  
 Gray, Robert B. 2,912,748.  
 Krill, Donald F. 2,881,911.  
 Oshry, Howard I. 2,877,324.  
 Oshry, Howard I. 2,899,345.  
 Oshry, Howard I., Steigerwalt, and Heibel. 2,912,746.  
 Oshry, Howard I., Steigerwalt, and Heibel. 2,912,747.  
 Steigerwalt, Oliver I., and Oshry. 2,912,745.  
 Sterner, Philip E. 2,898,520.  
 Young, Francis R. 2,870,532.
- Erie Tool Works, The: *See*—  
 Dyczynski, Karol T. 2,875,518.
- Eriez Mfg. Co.: *See*—  
 Hoff, Ronald C. 2,876,415.  
 Hoff, Ronald C., and Moskowitz. 2,895,064.  
 Johannesen, Conrad A. 2,915,186.  
 Moskowitz, Lester R., and Alvord. 2,882,487.
- Eriksen, Merrill K., to The James C. Heintz Co. Bead aligning means. 2,870,482, 1-27-59, Cl. 18-18.
- Eriksen, Merrill K., and E. Roesch, to Super Mold Corp. of California. Bead engaging pressure ring unit. 2,908,939, 10-20-59, Cl. 18-18.
- Erikson, Carl F.: *See*—  
 Swanson, Fred R., and Erikson. 2,917,977.  
 Swanson, Fred R., and Erikson. 2,918,850.
- Erikson, Erik E.: *See*—  
 Morrison, Lawrence R., and Erikson. 2,896,349.
- Erikson, Evans W., to Sundstrand Machine Tool Co. Generator control system. 2,900,527, 8-18-59, Cl. 307-57.
- Erikson, Robert W., to Sundstrand Machine Tool Co. Antium device. 2,892,413, 6-30-59, Cl. 103-4.
- Erikson, Robert W., and W. R. Kiefer, to Sundstrand Machine Tool Co. Air purging apparatus for pumps. 2,915,015, 12-1-59, Cl. 103-42.
- Eriksson, Alf A. A., to Aktiebolaget Svenska Precisions-verktyg. Device for measuring and checking screw threads. 2,883,760, 4-28-59, Cl. 33-199.
- Eriksson, Artur J., to Aktiebolaget Svenskt Konstsilke. Method of recovering carbon disulphide and hydrogen sulphide from diluted aqueous solutions. 2,887,441, 5-19-59, Cl. 202-52.
- Eriksson, Ernst A.: *See*—  
 Davison, Robert T. B., Eriksson, Gordon, and Marden. 2,883,086.
- Eriksson, Myriam R.: *See*—  
 Houdry, Eugene J., Eriksson, and Coudray. 2,898,202.
- Eriksson, Sven E. B., to Telefonaktiebolaget L M Ericsson. Cylinder lock. 2,870,622, 1-27-59, Cl. 70-364.
- Erisman, Maurice J.: *See*—  
 Francis, Norman L., and Erisman. 2,899,176.
- Erisman, Maurice J., to Link-Belt Co. Impact loading section for belt conveyors. 2,883,035, 4-21-59, Cl. 198-56.
- Erisman, Ralph J., to International Harvester Co. Switching means for strain measuring apparatus. 2,895,330, 7-21-59, Cl. 73-88.5.
- Erk, Adil: *See*—  
 Bruckner, Paul, Capeller, Erk, Gottwald, Heyser, Schmitz, and Vedder. 2,892,062.
- Erkkila, John G. Door sill. 2,875,481, 3-3-59, Cl. 20-64.
- Erlichman, Irving, to Polaroid Corp. Photographic product. 2,882,155, 4-14-59, Cl. 96-76.
- Ernel, Thomas M. Fountain pen. 2,914,029, 11-24-59, Cl. 120-47.
- Ermish, Lawrence D.: *See*—  
 Butler, Chester J., Ermish, Linsley, and Thomas. 2,917,834.
- Erndt, Edmund E., to Precision Metalsmiths, Inc. Investing apparatus. 2,884,963, 5-5-59, Cl. 141-51.
- Erneman, Hans G., to Lite Vent Industries, Inc. Awning vertical column connector. 2,893,077, 7-7-59, Cl. 20-95.
- Erner, William E.: *See*—  
 Voltz, Sterling E., Krause, and Erner. 2,891,965.
- Erner, William E., to Houdry Process Corp. Production of pyrocolines. 2,886,569, 5-12-59, Cl. 260-290.
- Ernest, Frederick C., and H. Raffelson, to Monsanto Chemical Co. Method of making formamido-amino uracils. 2,917,513, 12-15-59, Cl. 260-256.4.
- Ernest, Frederick I. Work mounting chuck. 2,896,954, 7-28-59, Cl. 279-2.
- Ernest, Frederick I. Fluid pressure operated chuck. 2,915,316, 12-1-59, Cl. 279-4.
- Ernestus, Adolph W., to A. O. Smith Corp. Hoist unit. 2,869,734, 1-20-59, Cl. 212-21.
- Ernsberger, Glenn W.: *See*—  
 Lowry, Lewis R., Jr., and Ernsberger. 2,896,149.
- Ernst, Carl J. Method of graining. 2,877,588, 3-17-59, Cl. 41-26.
- Ernst, Clayton S. Animal watering device. 2,871,822, 2-3-59, Cl. 119-78.
- Ernst, Earl A. Sacking device. 2,868,245, 1-13-59, Cl. 141-248.
- Ernst & Ernst: *See*—  
 Ernst, Robert J. 2,914,653.
- Ernst, Hans, to DEMAG-Elektrometallurgie G.m.b.H. Electrode lead arrangement for three phase electric furnace. 2,908,736, 10-13-59, Cl. 13-9.
- Ernst, Hans, and C. E. Waller, to The Cincinnati Milling Machine Co. Face milling cutter. 2,885,766, 5-12-59, Cl. 29-105.
- Ernst, Hans, and W. A. Haggerty, to The Cincinnati Milling Machine Co. Self-centering drill. 2,903,922, 9-15-59, Cl. 77-70.
- Ernst, Hellmut, R. Zapp, and E. Kropik, to M. A. N. Maschinenfabrik Augsburg-Nurnberg AG. Tension-maintaining device for cranes and the like. 2,880,963, 4-7-59, Cl. 254-172.
- Ernst, Henry, Jr., to Esso Research and Engineering Co. Removal of contaminants from gas oils produced by fluid coking. 2,911,355, 11-3-59, Cl. 208-100.
- Ernst, John L., A. B. Small, and L. W. McLean, to Esso Research and Engineering Co. Recovering olefin polymers. 2,893,981, 7-7-59, Cl. 260-94.8.
- Ernst, Robert D.: *See*—  
 Lehane, Timothy J., Smith, and Ernst. 2,873,916.
- Ernst, Robert J., to Ernst & Ernst. Fusion arc timing and positioning device. 2,914,653, 11-24-59, Cl. 219-125.
- Ernst, W. Arthur, to Howard Industries, Inc. Instrument-supporting tripod with seat. 2,896,891, 7-28-59, Cl. 248-168.
- Ernst, Walter, to The Commonwealth Engineering Co. of Ohio. Torque measuring and regulating device. 2,867,117, 1-6-59, Cl. 73-139.
- Ernst, William B., and J. and P. Breininger; said J. and P. Breininger assignors to said Ernst. Laying cages. 2,882,857, 4-21-59, Cl. 119-18.
- Ernyei, Herbert, to Societe Nouvelle de l'Outilsage R. B. V. et de la Radio-Industrie (R.B.V.-R.I.). Grid modulating a television transmitter, by successive modulation of carrier in plural stages. 2,881,394, 4-7-59, Cl. 332-41.
- Ernyei, Herbert, and P. Simond-Cote, to Societe Nouvelle de l'Outilsage R.B.V. et de la Radio-Industrie. Visual television transmitter. 2,908,753, 10-13-59, Cl. 178-7.1.
- Errede, Louis A., B. F. Landrum, and H. R. Davis, to Minnesota Mining and Mfg. Co. Copolymers of quinodimethanes and sulfur dioxide. 2,914,511, 11-24-59, Cl. 260-79.3.
- Errington, Frederick: *See*—  
 Sedgfield, Hugh B., and Errington. 2,878,006.
- Ershig Sheet Metal, Inc.: *See*—  
 Pierson, Charles T., Jr. 2,875,315.
- Erskine, Archibald M., and R. M. Lydon, to The California Ink Co., Inc. Iron blue pigment composition and process for its manufacture. 2,893,886, 7-7-59, Cl. 106-272.
- Erskine, Douglas W.: *See*—  
 Schick, Frederick A., and Erskine. 2,902,264.
- Erskine, George B. Studded electrode and method of manufacture. 2,897,391, 7-28-59, Cl. 313-82.
- Erskine, Robert J., to The Wean Engineering Co., Inc. Method and apparatus for trimming a continuous moving strip to a fixed width. 2,911,044, 11-3-59, Cl. 164-61.
- Erson, Erik G., to Westinghouse Air Brake Co. Safety control brake apparatus. 2,872,250, 2-3-59, Cl. 303-19.
- Ertelt, Henry R., C. L. Knapp, Jr., and J. K. Appeldoorn, to Esso Research and Engineering Co. Recovery of uranium from aqueous solutions. 2,904,568, 9-15-59, Cl. 260-429.1.
- Erteszek, Olga. Girdle structure. 2,872,927, 2-10-59, Cl. 128-548.
- Ertman, Louis. Splash guard for roof gutters. 2,899,916, 8-18-59, Cl. 108-28.



- Ertsgaard, Byron L., and S. V. Sonmore, to Toro Mfg. Corp. of Minnesota. Interchangeable motor mounting. 2,904,287, 9-15-59, Cl. 248-25.
- Ervin, Ovid L., to Olin Mathieson Chemical Corp. Conveyor and feeder. 2,893,543, 7-7-59, Cl. 198-221.
- Ervin, Walter R. Hay baler loading attachment. 2,918,162, 12-22-59, Cl. 198-33.
- Ervine, William. Pickup truck telescoping cabin unit. 2,893,780, 7-7-59, Cl. 296-23.
- Erwin, David B., to Western Electric Co., Inc. Control systems. 2,899,645, 8-11-59, Cl. 331-86.
- Erwin, Hyle H. Versatile wrecking bar. 2,906,498, 9-29-59, Cl. 254-25.
- Erwin, James V. Drum head and like assemblies. Re. 24,733, 11-10-59, Cl. 84-414.
- Erwin, Ransome W., to Salt Water Control, Inc. Emulsion treater. 2,868,312, 1-13-59, Cl. 183-2.7.
- Erwin, Ransome W., to Salt Water Control, Inc. Mud degasser. 2,869,673, 1-20-59, Cl. 183-2.5.
- Erwin, Ransome W., to Salt Water Controls, Inc. Selective sediment discharge valve for an emulsion treater. 2,903,015, 9-8-59, Cl. 137-546.
- Erwin, Ransome W., to Salt Water Control, Inc. Emulsion treater. 2,903,243, 9-8-59, Cl. 257-1.
- Erwin, Robert L., and H. A. McAninch, to Ford Motor Co., and Borg-Warner Corp. Clutch and controls therefor. 2,907,428, 10-6-59, Cl. 192-48.
- Erwin, Weldon C. Shower head. 2,878,066, 3-17-59, Cl. 299-141.
- Erwin, Weldon C. Hydrostatic washout tool. 2,894,585, 7-14-59, Cl. 166-43.
- Erzer, John K., to General Electric Co. Rail vehicle suspension. 2,907,282, 10-6-59, Cl. 105-185.
- Erzinger, Leonard G. Dampening apparatus for offset process printing presses. 2,897,753, 8-4-59, Cl. 101-148.
- Escambia Chemical Corp.: See—
- McMinn, William A., Jr., and Barr. 2,878,239.
- Escartin, Angel. Holding means for making coffee, tea and the like. 2,905,418, 9-22-59, Cl. 248-94.
- Esch, Clarence W. Bean harvester. 2,874,528, 2-24-59, Cl. 56-126.
- Eschenburg, William A., to Yates-American Machine Co. Table and fence adjusting means for a jointer. 2,872,957, 2-10-59, Cl. 144-253.
- Eschenburg, William A., to Yates-American Machine Co. Combination saw, jointer and sander tool. 2,894,546, 7-14-59, Cl. 144-251.
- Eschenburg, William A., D. D. Pettigrew, and C. Johnson, to The Hartford Special Machinery Co. Power feed mechanisms. 2,873,630, 2-17-59, Cl. 77-33.5.
- Escher, Hans. Recuperators. 2,910,276, 10-27-59, Cl. 257-169.
- Escher Wyss Akt.: See—
- Meienberg, Hans. 2,914,242.
- Siegrist, Rudolf. 2,868,381.
- Eschliman, William E.: See—
- Adams, Cecil E., and Eschliman. 2,887,060.
- Adams, Cecil E., Eschliman, and Sun. 2,878,753.
- Esco Cabinet Co.: See—
- Cann, Harry E., Sr. 2,910,965.
- Escoffery, Charles A., to International Rectifier Corp. Rectifier with multiple barrier layers. 2,892,136, 6-23-59, Cl. 317-241.
- Escoffery, Charles A., to International Rectifier Corp. High conductivity selenium rectifier. 2,918,613, 12-22-59, Cl. 317-241.
- Escott, Robert M.: See—
- Loughry, Theodore F., and Escott. 2,867,512.
- Esenwein, Albert, to Kurt Korber & Co. Method and device for aligning cigarettes. 2,877,884, 3-17-59, Cl. 198-33.
- Eserkahn, Theodore F.: See—
- Armitage, Joseph B., and Eserkahn. 2,914,992.
- Eshbach, John R.: See—
- Damon, Richard W., and Eshbach. 2,888,370.
- Eshbach, John R., to General Electric Co. Electron beam device. 2,914,696, 11-24-59, Cl. 315-10.
- Eshbaugh, Jesse E., to General Motors Corp. Tank vent structures. 2,874,712, 2-24-59, Cl. 137-43.
- Esher, Joseph R., Jr., to General Electric Co. Apparatus for generating a trigonometric function and multiplying by a D.C. voltage. 2,892,590, 6-30-59, Cl. 235-186.
- Esken, Robert L., to The Sheffield Corp. Gauging device. 2,878,573, 3-24-59, Cl. 33-174.
- Esken, Robert L., to The Sheffield Corp. Gaging apparatus. 2,916,830, 12-15-59, Cl. 33-124.
- Eskew, Roderick K.: See—
- Turkot, Victor A., Eskew, and Aceto. 2,906,630.
- Eskilson, Jack E.: See—
- McCutchen, Samuel P., Jr., and Eskilson. 2,888,522.
- Eskin, Samuel G., to The Dole Valve Co. Refrigerating system and thermostatically operated control means therefor. 2,893,219, 7-7-59, Cl. 62-222.
- Eskin, Samuel G., to The Dole Valve Co. Thermostatic gas valve. 2,905,389, 9-22-59, Cl. 236-92.
- Eskin, Samuel G., and T. B. Legeza, to The Dole Valve Co. Thermal responsive element. 2,873,608, 2-17-59, Cl. 73-358.
- Eskin, Samuel G., J. M. Algino, and T. B. Legeza, to The Dole Valve Co. Gas water heater combination control valve. 2,898,046, 8-4-59, Cl. 236-21.
- Esckridge, Harold E., and W. O. Johnson, to Weather-Seal, Inc. Continuous hinge. 2,866,997, 1-6-59, Cl. 16-171.
- Esckridge, James T.; W. C. Esckridge, administratrix of said J. T. Esckridge, deceased. Ripper tooth for bulldozer blade. 2,885,802, 5-12-59, Cl. 37-145.
- Esckridge, Wade A.: See—
- Bossard, LeRoy T., and Esckridge. 2,910,873.
- Esckridge, Wilma C.: See—
- Esckridge, James T. 2,885,802.
- Esler, David H. Means of recording elapsed time. 2,874,020, 2-17-59, Cl. 346-85.
- Esmay, Donald L.: See—
- Fotis, Peter, Jr., and Esmay. 2,912,422.
- Fotis, Peter, Jr., Esmay, and Hill. 2,919,268.
- Esmay, Donald L., to Lithium Corp. of America, Inc. Preparation of lithium nitride. 2,910,347, 10-27-59, Cl. 23-191.
- Esmay, Donald L., and C. E. Johnson, to Standard Oil Co. Alkoxide synthesis. 2,873,290, 2-10-59, Cl. 260-448.
- Esmay, Donald L., P. Fotis, Jr., and W. A. Wilson, to Standard Oil Co. Catalytic process. 2,881,234, 4-7-59, Cl. 260-683.15.
- Esmay, Paul O. Garden spray gun. 2,880,939, 4-7-59, Cl. 239-331.
- Esmay, Paul O. Wire sectional fence. 2,883,159, 4-21-59, Cl. 256-1.
- Esmeier, Edward F., and B. H. Brown, to United Aircraft Corp. Drive unit. 2,874,540, 2-24-59, Cl. 60-39.09.
- Espenlaub, Walter C., and B. D. Loughlin, to Hazeltine Research, Inc. Matrixing apparatus for color-signal translating system. 2,868,872, 1-13-59, Cl. 178-5.4.
- Espenschied, Helmut, to National Lead Co. Method for making titanium nitride. 2,898,193, 8-4-59, Cl. 23-191.
- Espenschied, Virgil F., to The F. E. Schumacher Co. Pre-assembled door and casing. 2,917,790, 12-22-59, Cl. 20-16.
- Espersen, George A., to North American Phillips Co., Inc. Thermionic cathode. 2,895,070, 7-14-59, Cl. 313-346.
- Esperseth, Maurice H.: See—
- Ostline, John E., and Esperseth. 2,917,582.
- Esposito, Salvatore: See—
- Anderson, Harry R., Esposito, and Rossi. 2,870,022.
- Esser, Nicholas M.: See—
- Lace, Donald A. 2,910,599.
- Esser, Paul. Spraying paint or the like media by means of compressed air. 2,868,585, 1-13-59, Cl. 299-186.
- Essewein, Otto: See—
- Ruppert, Wilhelm, Schwedler, Essewein, and Fritz. 2,884,894.
- Essex, Alois B., E. E. Garrett, and H. F. McKenney, to Sperry Rand Corp., Ford Instrument Co. Division. Balanced carbon pile. 2,897,466, 7-28-59, Cl. 338-105.
- Essex Corp.: See—
- Dietrich, William G., and Shaw. Re. 24,649.
- Essex Metal Products Co.: See—
- Stollman, Harry E. 2,891,254.
- Essex Paper Box Mfg. Co., Inc.: See—
- Fink, Aaron. 2,878,524.
- Essex Wire Corp.: See—
- Dowdle, Walter F. 2,900,472.
- Grashoff, Adolph W., and Arthur. 2,878,330.
- Grotelueschen, Oliver H., Henry, and Brinkruff. 2,868,925.
- Keirans, Joseph A. 2,892,059.
- Lambert, Cecil A., and Webb. 2,892,053.
- Raypholtz, Kenneth A. 2,891,751.
- Smith, James J., and Graf. 2,901,642.
- Sommer, Robert D. 2,892,143.
- Wallace, Kenneth R. 2,900,460.
- Essler, Warren O., to Collins Radio Co. Pulse stretching phase detector. 2,870,346, 1-20-59, Cl. 307-88.5.
- Essler, Warren O., to Collins Radio Co. Transistor phase detector. 2,914,684, 11-24-59, Cl. 307-88.5.
- Esso Research and Engineering Co.: See—
- Adams, Clark E., and Kimberlin. 2,880,165.
- Adams, Clark E., and Kimberlin. 2,899,396.
- Adams, Clark E., and Kimberlin. 2,916,527.
- Adams, Clark E., and Kimberlin. 2,918,427.
- Aldridge, Clyde L., Catterall, and Wood. 2,906,794.
- Aldridge, Clyde L., and Charlet. 2,871,137.
- Aldridge, Clyde L., and Hunter. 2,912,401.
- Altreuter, Royal K., Dowling, Racz, and Thomas. 2,875,138.
- Amir, Emanuel M. 2,914,572.
- Anderson, James A., Jr., Dinwiddie, Mosesman, and Vernon. 2,890,162.
- Andrews, Howard S. 2,881,783.
- Andrews, Jack M., Corneil, Peet, and Roquemore. 2,881,129.
- Archibald, Francis M., and Wilson. 2,885,357.
- Arey, William F., Jr. 2,905,615.
- Arey, William F., Jr., and Fritz. 2,880,160.
- Bailey, Bradford E. 2,884,373.
- Bailey, Philip S. 2,870,194.
- Bailey, Philip S. 2,888,485.
- Baker, Edward G. 2,886,513.
- Baker, Edward G. 2,916,436.
- Baker, Edward G., and Kirshenbaum. 2,889,266.
- Baker, Edward G., and Kirshenbaum. 2,906,692.
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- Baldwin, Francis P., and Robison. 2,895,937.
- Banes, Fred W., and Fitz Gerald. 2,901,458.
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- Estelle, Charles, Jr.: *See*—  
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- Esterson, Maurice, and A. P. O. Collis, to English Electric Valve Co. Ltd. Magnetrons. 2,877,380, 3-10-59, Cl. 315-39.61.
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- Estes, Elliott M., and D. C. Perkins, to General Motors Corp. Seating arrangement for vehicle bodies. 2,916,325, 12-8-59, Cl. 296-66.
- Estes, James W., and G. E. Spangler, to Air Reduction Co., Inc. Method of producing nodular cast iron. 2,870,004, 1-20-59, Cl. 75-51.
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- Estes, Joseph M., Jr., to E. I. du Pont de Nemours and Co. Production of adiponitrile. 2,878,277, 3-17-59, Cl. 260-465.8.
- Estes, Nelson N.: *See*—  
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- Estes, Rufus B. Bacon package and separator for bacon slices. 2,888,352, 5-26-59, Cl. 99-174.
- Estes, Thomas C. Adjustable beam clamp. 2,877,974, 3-17-59, Cl. 248-228.
- Estes, Thomas C. Turnbuckle lock. 2,878,044, 3-17-59, Cl. 287-60.
- Estey, James R., to Aluminex Inc. Lath and attachment means therefor. 2,906,060, 9-29-59, Cl. 47-26.
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Bode, Harold. 2,906,960.  
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- Estey, Roger S., to United States of America, Navy. Delay timer. 2,868,287, 1-13-59, Cl. 161-11.
- Estirajes Balmes, S.A.: *See*—  
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- Estkowski, Michael H., to V-M Corp. Tone compensated loudness control. 2,900,609, 8-18-59, Cl. 333-28.
- Estoppey, Royden F.: *See*—  
Lamb, Francis X., Huber, Estoppey, Roy, and Dempster. 2,875,409.  
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- Estrin, Edward: *See*—  
Lewis, Edward H., Rice, and Estrin. 2,867,001.
- Esveldt, Cornelis J.: *See*—  
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- Etablissement EPOK: *See*—  
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Eder, Adolf. 2,896,608.
- Etablissement Matex: *See*—  
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- Etablissement pour Matériaux de Construction: *See*—  
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- Etablissements Clin-Byla (Société Anonyme): *See*—  
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- Etablissements Colson: *See*—  
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- Etablissements Deplirex: *See*—  
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- Etablissements Ed. Jaeger: *See*—  
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- Etablissements Fenart-Bouguet-Pau: *See*—  
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- Etablissements Heurtier & Cie: *See*—  
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- Etablissements Labinal: *See*—  
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- Etablissements Merlin & Gerin: *See*—  
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Casacci, Severin X. 2,906,571.  
Danel, Pierre F. 2,900,699.  
Danel, Pierre F., Casacci, and Jarrian. 2,875,979.  
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- Etat Français, Ministère de la Defense Nationale & des Forces Armées: *See*—  
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- Etchell, Howard L., to Bedford Gear & Machine Products, Inc. Chuck. 2,869,884, 1-20-59, Cl. 279-123.
- Etches, Harry E.: *See*—  
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- Ethane Corp.: *See*—  
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- Ether, Theodore L.: *See*—  
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- Etheridge, Oliver R., to A. E. Staley Mfg. Co. Starch pasting system. 2,871,146, 1-27-59, Cl. 127-28.
- Etheridge, Oliver R., to A. E. Staley Mfg. Co. Apparatus for pasting or cooking starch. 2,919,214, 12-29-59, Cl. 127-28.
- Etheridge, Ralph E.: *See*—  
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- Etherington, John F., to The Murray Corp. of America. Vibration responsive mechanism for washing machines. 2,890,580, 6-16-59, Cl. 68-12.
- Etherington, Lewis D.: *See*—  
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Redman, Horace E. 2,885,314.  
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- Ethridge, Harry E. Rug cleaning device. 2,915,889, 12-8-59, Cl. 68-62.
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Brown, Jerome E. 2,901,336.  
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Dykstra, Fred J., Hall, and Shepherd. 2,904,458.  
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- Petree, Harris E. 2,868,816.  
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 Thomas, Henry A. 2,904,835.  
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- Etienne, Alfred, to L'Air Liquide, Societa Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Redux condensers. 2,900,799, 8-25-59, Cl. 62-42.
- Etling, Harold A., to Weather-Seal, Inc. Door frame and sill therefor. 2,898,642, 8-11-59, Cl. 20-11.
- Etnyre, George M. Remote control mechanism for automobile doors. 2,917,770, 12-22-59, Cl. 16-82.
- Etoch, Adele H.: *See*—  
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- Ets. Merlin & Gerin: *See*—  
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- Ettema, Eelke H., and J. A. Van Bergen, to North American Philips Co., Inc. Stud-welding gun. 2,892,069, 6-23-59, Cl. 219-98.
- Ettema, Eelke H., and J. A. Van Bergen, to North American Philips Co., Inc. Stud-welding gun. 2,903,563, 9-8-59, Cl. 219-98.
- Etten, Nicholas L. Combination storm sash and screen with foldable section. 2,879,840, 3-31-59, Cl. 160-91.
- Etten, Nicholas L., to Chamberlain Corp. Collapsible combination storm and screen sash unit. 2,879,841, 3-31-59, Cl. 160-96.
- Etten, Nicholas L., to Chamberlain Corp. Roll-up awning. 2,898,983, 8-11-59, Cl. 160-62.
- Etten, Nicholas L., to Chamberlain Corp. Pump. 2,902,944, 9-8-59, Cl. 103-148.
- Etter, Paul A., deceased; by D. E. Dyl, administratrix. Safety lock for treadle operated hammers. 2,893,263, 7-7-59, Cl. 74-566.
- Ettinger, John H.: *See*—  
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- Ettinger, John H., to Bendix Aviation Corp. Power operated screw driver. 2,880,770, 4-7-59, Cl. 144-32.
- Ettinger, John H., and K. V. Emerick, to Bendix Aviation Corp. Stage motor. 2,867,192, 1-6-59, Cl. 121-38.
- Ettman, Henry L. Microtome knife stropers. 2,915,854, 12-8-59, Cl. 51-102.
- Ettorre, James E., to The Bullard Co. Angular turning attachment. 2,893,280, 7-7-59, Cl. 82-2.
- Ettra K G Leicht & Trambauer: *See*—  
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- Etzenhouser, John B., and E. L. Moriarty, to Victor Tool & Machine Corp. Device for adjusting exterior awnings from inside a building. 2,883,879, 4-28-59, Cl. 74-504.
- Etzkon, Elmer F., to Skil Corp. Nail driver. 2,890,455, 6-16-59, Cl. 1-49.9.
- Etzler, Elmer E., to Bundy Tubing Co. Tubular push rod and method of making same. 2,897,805, 8-4-59, Cl. 123-90.
- Eubank, Lowell D., to United States of America, Atomic Energy Commission. Fused salt method for coating uranium with a metal. 2,872,348, 2-3-59, Cl. 117-71.
- Eubank, Lowell D., and E. R. Boller, to United States of America, Atomic Energy Commission. Method of protectively coating uranium. 2,872,343, 2-3-59, Cl. 117-51.
- Eubank, William R. Honing stone and method of making. 2,880,081, 3-31-59, Cl. 51-308.
- Eubanks, Floyd G., 10% to R. M. McManigal. Wire cutter and insulation stripping apparatus. 2,884,825, 5-5-59, Cl. 81-9.51.
- Eubanks, Furney M., to Long Mfg. Co., Inc. Clip. 2,891,657, 6-23-59, Cl. 198-179.
- Eubanks, Joseph H.: *See*—  
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- Euclid Crane & Hoist Co., The: *See*—  
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- Euclid Electric & Mfg. Co., The: *See*—  
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- Eue, Ludwig: *See*—  
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- Euga, Arthur B. Brake motor. 2,871,827, 2-3-59, Cl. 121-38.
- Eugster, Conrad H., R. Deniss, F. Hafiger, B. Hofer, R. Pfister, and M. Zimmermann, to Geigy Chemical Corp. Process for the production of ammonium compounds. 2,895,965, 7-21-59, Cl. 260-347.7.
- Euler, George M., and C. Grimshaw, to General Electric Co. Switching mechanism for timer. 2,877,317, 3-10-59, Cl. 200-37.
- Eumig Elektrizitäts- und Metallwaren-Industrie: *See*—  
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- Eureka Specialty Printing Co.: *See*—  
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- Eurenius, Malte O.: *See*—  
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- Eurenius, Malte O., and B. Persson, ½ to Svenska Skifferolje Aktiebolaget, and ½ to Husky Oil Co. Apparatus for recovering combustible substances from subterranean deposits in situ. 2,890,755, 6-16-59, Cl. 166-59.
- Eurey, Noah W., to Excel, Inc. Stabilized floating bottom unit. 2,889,956, 6-9-59, Cl. 220-93.
- Eurey, Noah W., to Excel, Inc. Adjustable bobbin truck. 2,890,891, 6-16-59, Cl. 280-79.2.
- Eurich, Joe E. G., to The Mettoy Co. Ltd. Miniature electric motor for toys. 2,912,604, 11-10-59, Cl. 310-1.
- Eusner, George R.: *See*—  
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- Eutectic Welding Alloys Corp.: *See*—  
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- Euth, John E.: *See*—  
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- Evancich, Emil C.: *See*—  
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- Evangelides, Harry A. Method and bath for electrolytically coating magnesium. 2,880,148, 3-31-59, Cl. 204-35.
- Evangelista, Joseph. Multiple switch device. 2,884,494, 4-28-59, Cl. 200-46.
- Evans, Arthur N., to Thomson Electric Welder Co. Welding machine. 2,877,337, 3-10-59, Cl. 219-97.
- Evans, Arthur W., A. N. C. Bennett, and J. D. Groves, to British Titan Products Co. Ltd. Preparation of metallic halides. 2,883,265, 4-21-59, Cl. 23-87.
- Evans, Aubrey M., to Duofold Inc. Armored undergarment. 2,879,654, 3-31-59, Cl. 66-176.
- Evans, Barry, to The New York Air Brake Co. Fluid pressure power brake system. 2,912,286, 11-10-59, Cl. 303-49.
- Evans, Charles H.: *See*—  
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- Evans, Charles S., to E. D. Bullard Co. Safety hat and harness mounting. 2,878,477, 3-24-59, Cl. 2-3.
- Evans, Clifford, and G. D. Rack, to Imperial Chemical Industries, Ltd. Manufacture of linoleum. 2,917,399, 12-15-59, Cl. 106-228.
- Evans, Cyril G., to Deering Milliken Research Corp. Printing of textile materials. 2,906,590, 9-29-59, Cl. 8-62.
- Evans, Darl L.: *See*—  
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- Evans, David. Apparatus for the manufacture of metal foil caps. 2,906,225, 9-29-59, Cl. 113-42.
- Evans, David C., to The University of Utah. Analogue computer for solving simultaneous equations utilizing transformers with interleaved windings. 2,873,915, 2-17-59, Cl. 235-180.
- Evans, David H.: *See*—  
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- Evans, David J. I., and S. Romanchuk, to Sherritt Gordon Mines Ltd. Method of producing copper metal powder. 2,867,528, 1-6-59, Cl. 75-109.
- Evans, Dewey: *See*—  
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- Evans, Dwight L., Jr.: *See*—  
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- Evans, Earl M. Telescoping antenna mast. 2,888,111, 5-26-59, Cl. 189-26.
- Evans, Edwin R., to Lock Thread Corp. Screw with cutter to change female thread shape. 2,873,641, 2-17-59, Cl. 85-47.
- Evans, Elmer C.: *See*—  
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- Evans Enterprises, Inc.: *See*—  
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- Evans, Evan F., to E. I. du Pont de Nemours and Co. Production of polyacrylonitrile filaments of high uniform density. 2,888,317, 5-26-59, Cl. 18-54.
- Evans, Evelyn M.: *See*—  
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- Evans, Francis C.: *See*—  
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- Evans, Fraser M., to C. A. V. Ltd. Liquid fuel injection pumps for internal combustion engines. 2,877,711, 3-17-59, Cl. 103-41.
- Evans, Fraser M., to C. A. V. Ltd. Control means for liquid fuel injection pumps for internal combustion engines. 2,891,415, 6-23-59, Cl. 74-503.
- Evans, Fraser M., to C.A.V. Ltd. Liquid fuel injection pumps for internal combustion engines. 2,901,974, 9-1-59, Cl. 103-5.
- Evans, Fraser M., to C.A.V. Ltd. Liquid fuel pumps for internal combustion engines. 2,910,975, 11-3-59, Cl. 123-139.
- Evans, Frederick H., to Evans Enterprises, Inc. Slab turning apparatus. 2,915,199, 12-1-59, Cl. 214-1.
- Evans, Frederick P., and L. C. White, to United Aircraft Corp. Frictionlessly mounted fluid poppet valve with balanced dynamic fluid forces and static pressure forces. 2,912,010, 11-10-59, Cl. 137-623.
- Evans, George E., to Union Carbide Corp. Non-aqueous primary cell and method of making the same. 2,894,052, 7-7-59, Cl. 136-83.
- Evans, George H.: *See*—  
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- Evans, George W., Jr.: *See*—  
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- Evans, Harry D., to Shell Development Co. Horizontal centrifugal separator. 2,888,096, 5-26-59, Cl. 183-80.



- Evans, Harry D., to Shell Development Co. Process of separating catalyst particles from hydrocarbon vapors. 2,901,420, 8-25-59, Cl. 208-153.
- Evans, Harry D., to Shell Development Co. Cyclone separator. 2,917,131, 12-15-59, Cl. 183-85.
- Evers, Harry G.: *See—*
- Boswan, Hans P., Clausen, and Evers. 2,907,983.
- Boswan, Hans P., Oldham, and Evers. 2,907,832.
- Evans, Howard, deceased (E. M. Evans and G. M. Bishop, administratrices), and D. K. Worn, to The International Nickel Co. Inc. Manufacture of metal strip from metal powder. 2,889,224, 6-2-59, Cl. 75-214.
- Evans, Howard J., to General Electric Co. Electrode structure for color cathode ray tube. 2,913,613, 11-17-59, Cl. 313-78.
- Evans, Howard J., to General Electric Co. Compensation of cathode ray post acceleration field distortion. 2,914,691, 11-24-59, Cl. 313-78.
- Evans, James B., Jr., to Bell Telephone Laboratories, Inc. Transmission regulation. 2,878,317, 3-17-59, Cl. 179-15.
- Evans, James R., to Robertshaw-Fulton Controls Co. Flow control device. 2,888,949, 6-2-59, Cl. 137-505.25.
- Evans, James W.: *See—*
- Bravos, George T., and Evans. 2,900,335.
- Evans, James W., and E. M. Van Patten, to American Maize-Products Co. Method of sterilizing starch granules with hydrogen peroxide. 2,916,405, 12-8-59, Cl. 127-71.
- Evans, Jean-Paul R. M. to Account-Tokens Ltd. Imprinting apparatus. 2,900,899, 8-25-59, Cl. 101-269.
- Evans, Jesse L., to General Motors Corp. Domestic appliance. 2,889,825, 6-9-59, Cl. 126-198.
- Evans, Jesse L., to General Motors Corp. Range with pull-out shelf. 2,899,255, 8-11-59, Cl. 312-274.
- Evans, Jesse L., and K. O. Sisson, to General Motors Corp. Trim strip assembly. 2,880,479, 4-7-59, Cl. 20-74.
- Evans, John B., to Westinghouse Air Brake Co. Pulsation dampener device. 2,875,787, 3-3-59, Cl. 138-30.
- Evans, John B., to Westinghouse Air Brake Co. Brake shoe composition of phenol-formaldehyde resin, an unvulcanized rubber, asbestos fiber, iron chips and carbon black and method of making same. 2,910,449, 10-27-59, Cl. 260-38.
- Evans, John G., and W. S. Meals, to Bradford Dyers' Association Ltd. Method of rendering materials water-repellent. 2,893,898, 7-7-59, Cl. 117-161.
- Evans, John G., G. Landells, and W. S. Meals, to The Bradford Dyers' Association Ltd. Treatment of materials to improve water-repellency. 2,911,324, 11-3-59, Cl. 117-135.5.
- Evans, John L., to E. I. du Pont de Nemours and Co. Composition. 2,887,404, 5-19-59, Cl. 117-75.
- Evans, Julius B., to United States Steel Corp. Cleaner for the conical bottom of dust catcher. 2,901,060, 8-25-59, Cl. 183-76.
- Evans, Kenneth P., H. E. Ivester, and J. M. J. Turriti, to Western Electric Co., Inc. Apparatus for testing a plurality of circuits. 2,869,076, 1-13-59, Cl. 324-51.
- Evans, Lee F.: *See—*
- Capen, Harold N., Brown, and Evans. 2,911,333.
- Evans, Louis L., and D. F. Sprengler, to Radio Corp. of America. Power supply. 2,903,638, 9-8-59, Cl. 321-18.
- Evans, Louis P.: *See—*
- Elliott, Kenneth M., and Evans. 2,886,507.
- Evans, Louis P., to Socony Mobil Oil Co., Inc. Hydrocarbon conversion. 2,885,099, 5-5-59, Cl. 214-152.
- Evans, Louis P., to Socony Mobil Oil Co., Inc. Process and apparatus for retorting of oil shale. 2,885,338, 5-5-59, Cl. 208-11.
- Evans, Loyd E.: *See—*
- Anderson, Jesse W., and Evans. 2,875,347.
- Evans, Lyle W., and H. P. La Buff, to Sylvania Electric Products Inc. Cathode ray tube screen process. 2,873,189, 2-10-59, Cl. 96-35.
- Evans, Lyle W., T. V. Rychlewski, and R. F. Wilson, to Sylvania Electric Products Inc. Image display. 2,898,226, 8-4-59, Cl. 117-33.5.
- Evans, Lyon D., to Reynolds Metals Co. Window structure. 2,895,182, 7-21-59, Cl. 20-11.
- Evans, Lyon D., and N. J. Hebert, to Reynolds Metals Co. Pivoted window structure. 2,869,691, 1-20-59, Cl. 189-69.
- Evans, Melvin E. Multiplying device. 2,908,439, 10-13-59, Cl. 235-88.
- Evans Products Co.: *See—*
- Chapman, Harvey W., and Dunlap. 2,873,693.
- Chapman, Harvey W., and Dunlap. 2,893,328.
- Chapman, Harvey W., and Dunlap. 2,900,864.
- Dunlap, Henry L. 2,879,721.
- Dunlap, Henry L. 2,879,722.
- Dunlap, Henry L. 2,887,963.
- Dunlap, Henry L. 2,895,430.
- Krokos, Raymond M., and Nichols. 2,899,842.
- Tobin, Kenneth J. 2,873,695.
- Zenczak, Piotr. 2,882,331.
- Evans Products Co. (Delaware): *See—*
- Dunlap, Henry L. 2,900,925.
- Evans, Richard C.: *See—*
- Fleischer, Joseph, Evans, and Stevens. 2,885,262.
- Evans, Richard D. Block molding device. 2,893,100, 7-7-59, Cl. 25-41.
- Evans, Richard E.: *See—*
- Haskell, Philip R., Evans, Ketchpel, and Connor. 2,890,685.
- Evans, Richard H., to J. P. Braun. Traps for mice, rats or the like vermin. 2,867,939, 1-13-59, Cl. 43-83.5.
- Evans, Robert B., and R. A. Bub, to Mine Safety Appliances Co. Gas filter apparatus with bag agitator. 2,911,064, 11-3-59, Cl. 183-59.
- Evans, Robert D., to The American Agricultural Chemical Co. Hydraulic classification of solids. 2,899,056, 8-11-59, Cl. 209-158.
- Evans, Robert G., to Robert G. Evans Co. Workpiece conveyor cart for masonry saws. 2,890,693, 6-16-59, Cl. 125-35.
- Evans, Robert G., Co.: *See—*
- Evans, Robert G. 2,890,693.
- Evans, Robert M., and H. E. Pattee, to The Trane Co. High-temperature nickel base brazing alloys. 2,894,835, 7-14-59, Cl. 75-170.
- Evans, Robert M., and H. E. Pattee. High-temperature brazing alloys. 2,900,251, 8-18-59, Cl. 75-170.
- Evans, Robert M., and H. E. Pattee, to The Trane Co. Nickel base brazing alloys for high-temperature applications. 2,900,253, 8-18-59, Cl. 75-171.
- Evans, Robert P., to Sterilon Corp. Medical appliance. 2,883,985, 4-28-59, Cl. 128-295.
- Evans, Robert P., to North American Aviation, Inc. Voltage regulator for generators. 2,918,617, 12-22-59, Cl. 322-28.
- Evans, S. W., and Son: *See—*
- Evans, Wayne S., Jr. 2,878,366.
- Evans, Sidley O.: *See—*
- Capron, Adin B., Edgecombe, and Evans. 2,908,384.
- Evans, Sidley O., and W. R. Walker, to The Babcock & Wilcox Co. Method of coating a cylindrical metal element. 2,908,587, 10-13-59, Cl. 117-23.
- Evans, Thomas, R. R. Roth, and A. B. Hubbard, to Minneapolis-Moline Co. Frame construction for tractor mounted implements. 2,881,581, 4-14-59, Cl. 55-93.
- Evans, Thomas E., to D. Napier & Son Ltd. Thermostatic control of electric heaters. 2,918,558, 12-22-59, Cl. 219-20.
- Evans, Walter W., L. E. Oliver, and C. R. Ronnquist, to Exeter Mfg. Co. Continuous bias constructed glass textile fabric. 2,879,581, 3-31-59, Cl. 28-80.
- Evans, Wayne S., Jr., to S. W. Evans & Son. Illuminated umbrellas. 2,878,366, 3-17-59, Cl. 240-6.42.
- Evans, William G.: *See—*
- Decker, Richard O., Pittman, Van Nice, Conner, Hall, and Evans. 2,888,549.
- Hall, William G., Van Nice, and Evans. 2,874,373.
- Radus, Raymond J., and Evans. 2,892,155.
- Evans, William I., and E. Blanco. Mortising machine. 2,905,212, 9-2-59, Cl. 144-3.
- Evans, William T., to Sun Oil Co. Analog computer to determine seismic weathering time corrections. 2,884,194, 4-28-59, Cl. 235-185.
- Evans, William T., to Sun Oil Co. Seismic prospecting. 2,912,060, 11-10-59, Cl. 181-0.5.
- Evanson, Clifford E.: *See—*
- Edmonds, Harvey A., Evanson, and Gilbert. 2,918,161.
- Hensgen, Bernard T., and Evanson. 2,899,317.
- Evanstein, Milton C. Box. 2,874,890, 2-24-59, Cl. 229-34.
- Evasic, John. Hopper feeder. 2,901,088, 8-25-59, Cl. 198-33.
- Eve, Leonard F., to Crawford Collets Ltd. Collet chucks. 2,911,222, 11-3-59, Cl. 279-4.
- Even, Georges. Overhead protection hood on combat vehicles. 2,898,810, 8-11-59, Cl. 89-36.
- Even-Pul Foundations, Inc.: *See—*
- Morano, Patrick J. 2,873,744.
- Evensen, Ingwald M. Paint roller for woven wire fences. 2,866,995, 1-6-59, Cl. 15-230.
- Evenson, Everett: *See—*
- Roberts, Leonard E., and Evenson. 2,870,687.
- Evenstad, Sydney T. Cooled sinter grate. 2,885,201, 5-5-59, Cl. 266-21.
- Eveready Brikaw Co.: *See—*
- Harclerode, John R. 2,893,372.
- Ever Ready Calendar Mfg. Co.: *See—*
- Polkosnik, Bernard L. 2,906,425.
- Everede Tool Co.: *See—*
- Proksa, John R. 2,912,744.
- Everest & Jennings, Inc.: *See—*
- Jennings, Harry C., Jr. 2,909,123.
- Peterson, John W., and Jennings. 2,871,044.
- Everett, Anthony B.: *See—*
- Petrie, James A., and Everett. 2,903,237.
- Everett, Cleaford O.: *See—*
- Mangrum, Clifford T., and Everett. 2,890,834.
- Everett, Franklin L., to United States of America, Navy. Breaker mechanism for frangible ampoule in deferred action primary cell. 2,901,525, 8-25-59, Cl. 136-90.
- Everett, Franklin L., to United States of America, Navy. Breaker mechanism for deferred-action batteries. 2,918,514, 12-22-59, Cl. 136-90.
- Everett, Franklin L., to United States of America, Navy. Deferred action battery containing frangible ampoule and breaker construction. 2,918,516, 12-22-59, Cl. 136-90.
- Everett, Franklin L., to United States of America, Navy. Deferred action battery. 2,918,517, 12-22-59, Cl. 136-90.
- Everett, S. & R. J., & Co. Ltd.: *See—*
- Everett, Samuel J. 2,910,983.
- Everett, Samuel J., and Himmelweit. 2,915,064.
- Everett, Samuel J., to S. & R. J. Everett & Co., Ltd. Sewing needles. 2,910,983, 11-3-59, Cl. 128-339.



- Everett, Samuel J., and F. Himmelweit, to S. & R. J. Everett & Co. Ltd. Hypodermic syringes. 2,915,064, 12-1-59, Cl. 128-218.
- Everett, Victor E. Lubricant and fuel mixing tank. 2,908,289, 10-13-59, Cl. 137-576.
- Everhart, Donald G. Trailing member spinning assembly. 2,898,060, 8-4-59, Cl. 244-135.
- Everhart, Edgar, and P. M. Lorrain, to Research Corp. Voltage multiplier. 2,888,629, 5-26-59, Cl. 321-15.
- Everhart, James G.: *See*—  
Steinmayer, Alwin G., and Everhart. 2,908,880.
- Everhart, Thomas E., and C. K. Birdsall, to Hughes Aircraft Co. Low-noise microwave tube. 2,870,367, 1-20-59, Cl. 315-3.6.
- Evering, Bernard L.: *See*—  
Peters, Edwin F., and Evering. 2,880,201.  
Peters, Edwin F., and Evering. 2,892,826.  
Peters, Edwin F., and Evering. 2,898,326.  
Peters, Edwin F., and Evering. 2,912,419.  
Peters, Edwin F., and Evering. 2,912,423.  
Roebuck, Alan K., and Evering. 2,897,248.
- Evering, Bernard L., and A. K. Roebuck, to Standard Oil Co. Reforming-hydroforming system. 2,918,422, 12-22-59, Cl. 208-79.
- Everitt, Allen L.: *See*—  
Galin, Robert, and Everitt. 2,911,170.
- Everitt, Allen L., to General Motors Corp. Sight system for firearms. 2,871,566, 2-3-59, Cl. 33-58.
- Everitt, Allen L., to General Motors Corp. Resilient mounting. 2,903,208, 9-8-59, Cl. 248-9.
- Everitt, Allen L., J. E. Frederick, and C. A. Mayer, Jr., to General Motors Corp. Resilient mounting means for absorbing axial and lateral thrusts. 2,879,090, 3-24-59, Cl. 287-85.
- Everitt, Allen L., and J. E. Frederick, to General Motors Corp. Resilient coupling for independently rotatable elements. 2,880,027, 3-31-59, Cl. 287-85.
- Everitt, William L.: *See*—  
Fairbanks, Grant, Everitt, and Jaeger. 2,886,650.
- Evers & Co. Aktiebolag: *See*—  
Högedal, Sven A., 2,885,745.
- Evers, Harry G., to Leich Electric Co. Telephone system comprising multi-function dial back adapter for operator connections and toll ticketing in non-recorder exchanges. 2,918,530, 12-22-59, Cl. 179-7.1.
- Eversharp, Inc.: *See*—  
Glaberson, Martin. 2,914,192.  
Kuhnl, Leopold K. 2,911,713.  
Kuhnl, Leopold K. 2,914,850.  
Preis, Carl G., and Kuhnl. 2,911,714.
- Everson, Kirke B., Jr. Trench shoring apparatus. 2,908,140, 10-13-59, Cl. 61-41.
- Evert, Karl H. Multiple walled flexible tubing. 2,890,723, 6-16-59, Cl. 138-51.
- Everts, Arthur H., to Union Carbide Corp. Method for producing metals electrolytically. 2,913,382, 11-17-59, Cl. 204-69.
- Eves, John D., to The Brewer-Titchener Corp. Hollow core panels and a method for constructing the same. 2,876,053, 3-3-59, Cl. 311-106.
- Eves, John D., and A. W. Olands, to The Brewer-Titchener Corp. Folding lock brace structure. 2,882,109, 4-14-59, Cl. 311-86.
- Evich, Vincent J. Fish processing apparatus. 2,913,759, 11-24-59, Cl. 17-4.
- Eviex, Ernest: *See*—  
Partchevsky, Anastasie, and Eviex. 2,891,248.
- Evins, David E., to Dejo, Inc. Shoes and method of making the same. 2,907,058, 10-6-59, Cl. 12-142.
- Evraets, John C., to Robertshaw-Fulton Controls Co. Thermo-electric material. 2,881,236, 4-7-59, Cl. 136-5.
- Ewald, Alfred J. Concrete wall form supporting means. 2,892,236, 6-30-59, Cl. 25-131.
- Ewald, Howard H., to Hughes Aircraft Co. Winding apparatus. 2,905,401, 9-22-59, Cl. 242-7.
- Ewald, Philip R., to The University of Tennessee Research Corp. Process and apparatus for determining uniformity. 2,886,714, 5-12-59, Cl. 250-83.6.
- Ewald, William P., to Eastman Kodak Co. Stereo table viewer. 2,891,444, 6-23-59, Cl. 88-29.
- Ewald, William P., to Eastman Kodak Co. Polarizing filter for stereo projector. 2,898,806, 8-11-59, Cl. 88-26.
- Ewald, William P., to Eastman Kodak Co. Slide changing mechanism. 2,898,807, 8-11-59, Cl. 88-28.
- Ewald, William P., to Eastman Kodak Co. Method of casting a multireflecto prism in a flexible mold. 2,911,682, 11-10-59, Cl. 18-58.
- Ewaldson, Waldemar C., and C. A. Hallam, to Western Electric Co., Inc. Twist corrector unit for cable sheathing machines. 2,877,730, 3-17-59, Cl. 113-59.
- Ewan, Evan B.: *See*—  
Tench, John D. and Ewan. 2,885,341.
- Ewart, Donald C., and E. G. Sieber, to Airflo Roofing Co. of America, Inc. Varnish and process of making it. 2,875,080, 2-24-59, Cl. 106-248.
- Ewart, John M., to Craig Systems, Inc. Portable building. 2,877,508, 3-17-59, Cl. 20-2.
- Ewels, John: *See*—  
Brand, Denis J., and Ewels. 2,881,103.  
Carroll, John L., and Ewels. 2,900,608.
- Ewer, Lyle D. Dual accelerators. 2,914,961, 12-1-59, Cl. 74-562.5.
- Ewert, Heinz: *See*—  
Meyer, Konrad, Hummel, Ewert, and Hofmann. 2,905,841.
- Ewing, Alfred M. Flower rack for casket. 2,894,705, 7-14-59, Cl. 248-27.8.
- Ewing, Benton M. Self-locking control device. 2,867,133, 1-6-59, Cl. 74-531.
- Ewing, Clifton H., to Westinghouse Electric Corp. Food Waste grinder. 2,903,194, 9-8-59, Cl. 241-100.5.
- Ewing, Henry, and J. R. Wyde, to British Celanese Ltd. Embossing. 2,913,787, 12-8-59, Cl. 18-56.
- Ewing, James O. Temperature control system for solution tanks. 2,910,838, 11-3-59, Cl. 62-160.
- Ewing, Lynn H.: *See*—  
Nelson, Permil N. 2,895,499.  
Nelson, Permil N. 2,905,995.
- Ewing, Lynn H. Expanding chuck. 2,904,279, 9-15-59, Cl. 242-72.1.
- Ewing, Paul E., to Rich Mfg. Co. of California. Apparatus for forming a lining on centrifugal mold. 2,879,563, 3-31-59, Cl. 22-17.
- Ewing, Ralph L. Distributor repair device. 2,872,722, 2-10-59, Cl. 29-76.
- Ewing, Reid: *See*—  
Loebel, Frederick A., and Ewing. 2,890,722.
- Ewing, Robert A.: *See*—  
Templeman, Glen C., Morin, and Ewing. 2,917,562.
- Excel, Inc.: *See*—  
Eurey, Noah W. 2,889,956.  
Eurey, Noah W. 2,890,891.
- Excelmatic, Inc.: *See*—  
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- Ex-Cell-O Corp.: *See*—  
Duffy, Michael, and Soules. 2,887,021.  
Ludwig, Carl, Wheeler, and Deedman. 2,902,009.
- Excello Paper Products Co., The: *See*—  
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- Executary Corp.: *See*—  
Cavanaugh, Edward F. 2,874,219.
- Excuteone Inc.: *See*—  
Bernstein, Allan C. 2,902,549.  
Bernstein, Allan C. 2,916,563.
- Exeter Mfg. Co.: *See*—  
Evans, Walter W., Oliver, and Ronnquist. 2,879,581.
- Exline, Paul G. Sampling device. 2,879,850, 3-31-59, Cl. 166-166.
- Exner, Herbert-Joachim, and R. Putter, to Farbenfabriken Bayer Akt. Monazo dyestuffs. 2,891,049, 6-16-59, Cl. 260-199.
- Expanded Rubber Co. Ltd.: *See*—  
Cooper, Alfred, and MacQueen. 2,888,407.
- Experiment Inc.: *See*—  
Burke, Jerry A., Jr. 2,908,081.  
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Mullen, James W., II. 2,867,979.  
Penn, John B. 2,878,644.
- Exquisite Form Brassiere Inc.: *See*—  
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- Extruded Plastics, Inc.: *See*—  
Slaughter, Charles E. 2,878,513.
- Ey, John M.: *See*—  
Pannier, Louis H., and Ey. 2,871,066.
- Ey, Victor. Automatic fluid shut off valve. 2,879,790, 3-31-59, Cl. 137-458.
- Eye-Beam Displays, Inc.: *See*—  
Stein, Elmer L. 2,914,874.
- Eyellet Specialty Co., The: *See*—  
De Santis, Sabatino. 2,901,101.  
Hopgood, Robert B. 2,896,778.
- Eyellet Specialty Co., Division of International Silver Co., The: *See*—  
Isele, Louis E. 2,913,103.
- Eygrabrod, Robert J., to The American Laundry Machinery Co. Anti-wrap device for rug cleaning machine. 2,886,838, 5-19-59, Cl. 15-40.
- Eykamp, Roy D. Baled hay chopper. 2,873,779, 2-17-59, Cl. 146-107.
- Eyler, Ivan D.: *See*—  
Steely, Orus C., and Eyler. 2,897,910.
- Eyles, Edward G. Wire guide. 2,916,259, 12-8-59, Cl. 254-134.3.
- Eynon, Benjamin A., to Dow Corning Corp. 1,1,4,4-tetra-methyl-1,4-disila-3,6-dioxacyclohexane. 2,898,346, 8-4-59, Cl. 260-338.
- Eyraud, Charles. Means for measuring the contents of a combustible component in a gasiform mixture. 2,899,282, 8-11-59, Cl. 23-255.
- Eyraud, Ivan: *See*—  
Bendayan, Jacques, and Eyraud. 2,887,652.
- Eyraud, Yvan, to Compagnie Generale d'Electricite. Device for recording variations in the diameter of substantially cylindrical objects. 2,895,373, 7-21-59, Cl. 88-14.
- Eyster, Floyd E. Machine for twisting and panning bread dough. 2,867,179, 1-6-59, Cl. 107-8.
- Eyster, Paul E. Combination cutter and pouring spout for cartons. 2,876,933, 3-10-59, Cl. 222-85.
- Eytinge, Bruce D., to The Frito Co. Method for producing potato chips. 2,886,439, 5-12-59, Cl. 99-100.
- Ezrin, Myer: *See*—  
Cassidy, Harold G., and Ezrin. 2,900,353.
- F & F Enterprises, Inc.: *See*—  
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- F & G Supply Co.: *See*—  
Stamm, Joseph S., and Bennett. 2,909,631.
- F. M. Research Corp.: *See*—  
Mineck, Fred. 2,911,244.
- F. N. F. Machinery Mfg. Co. Ltd.: *See*—  
Porter, Allan W. H. 2,871,686.  
Porter, Allan W. H., and Sheppard. 2,872,799.
- FR Corp., The: *See*—  
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- F-R Machine Works, Inc.: *See*—  
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Land, Chester B. 2,911,537.
- F.T. Products Ltd.: *See*—  
Fernberg, Eric B. 2,909,819.  
Fernberg, Eric B. 2,918,712.
- FWD Corp.: *See*—  
Fabian, Gardner J. 2,911,854.
- Fa. Gassareck: *See*—  
Zalozceky, Bogdan. 2,867,002.
- Fa. Penicillin-Gesellschaft Danelsberg & Co.: *See*—  
Weydanz, Wilhelm K. 2,899,181.
- Faas, Louis D. Clutch for power mower. 2,881,887, 4-14-59, Cl. 192-48.
- Faasse, Adrian L., F. A. Kunzman, and H. W. Moser, to Snow Corp. Adjustable mount. 2,871,868, 2-3-59, Cl. 135-46.
- Faatz, Albert C., Jr.: *See*—  
Bliss, Charles, and Faatz. 2,908,157.
- Fabbrica Italiana Magneti Marelli: *See*—  
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- Faber, Aloysius W., and A. E. Gronewold, to Richardson Rod & Reel Co. Telescoping fishing rod. 2,874,507, 2-24-59, Cl. 43-18.
- Faber, Eberhard, Pencil Co.: *See*—  
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- Faber, Elmer L., to Conforming Matrix Corp. Apparatus for rotating spray guns to evenly paint non-planar surfaces. 2,888,903, 6-2-59, Cl. 118-301.
- Faber, Kurt: *See*—  
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- Faber & Schiecher Akt.: *See*—  
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Koch, Werner. 2,875,692.  
Koch, Werner. 2,882,049.  
Koch, Werner. 2,884,855.
- Fabian, Gardner J., to FWD Corp. Lockable differential and speed reducing drive. 2,911,854, 11-10-59, Cl. 74-695.
- Fabian, Robert W., and J. L. Sienczyk, to The Budd Co. Acicular metal particles from metal carbonyls and method of preparation. 2,884,319, 4-28-59, Cl. 75-5.
- Fabio, Paul F.: *See*—  
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Brockman, John A., Jr., and Fabio. 2,891,988.  
Brockman, John A., Jr., and Fabio. 2,905,679.
- Fabish, Edward F., to Illinois Tool Works. End milling cutter. 2,905,059, 9-22-59, Cl. 90-11.
- Fabric Research Laboratories, Inc.: *See*—  
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- Fabrique Juvenia, Petits-fils de Didsheim-Goldschmidt: *See*—  
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- Fabrique Suirose de Crayons Caran d'Ache S.A.: *See*—  
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- Fabriques de Produits Chimiques de Thann et de Mulhouse: *See*—  
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- Fabriques Movado: *See*—  
Ditesheim, Bernard. 2,871,653.
- Fabus, Juraj. Sub-soil fertilizer applicator. 2,885,977, 5-12-59, Cl. 111-7.1.
- Faccchini, Rigo R., 1/2 to F. L. Carlson. Boat-loading, transporting, and launching trailer. 2,895,627, 7-21-59, Cl. 214-84.
- Faccou, Armand L., to Chiksan Co. Swivel joint and seal assemblies. 2,906,548, 9-29-59, Cl. 285-14.
- Facer, Leroy H., to G. C. Cooley, W. D. Foster, and H. Gregersen, trustees. Method for producing fertilizers and bases from sludges. 2,867,522, 1-6-59, Cl. 71-37.
- Fachini, Giuseppe. Treating tobacco and cigarette paper. 2,890,973, 6-16-59, Cl. 131-17.
- Fachini, Robert M.: *See*—  
Bornzin, James H., Sadler, and Fachini. 2,884,754.
- Fachon, Emil E., to Bulova Watch Co. Inc. Waterproof watch-case. 2,871,654, 2-3-59, Cl. 58-90.
- Fackler, Bernard E., J. J. Donnelly, and C. S. Daniels, to Consolidated Electronics Industries Corp. Direct reading time delay relay. 2,916,569, 12-8-59, Cl. 200-33.
- Fada Radio & Electric Co., Inc.: *See*—  
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McKain, Walter P. 2,883,887.
- Fadden, William J., Jr.: *See*—  
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- Fadler, Kurt: *See*—  
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Von Bombard, Franz J., and Fädler. 2,901,073.
- Faerber, Harry W., to Time, Inc. Automatic roller setting for ink distribution systems. 2,868,122, 1-13-59, Cl. 101-348.
- Faerber, Harry W., to Time, Inc. Inking mechanism. 2,891,473, 6-23-59, Cl. 101-350.
- Faerber, Harry W., to Time, Inc. Planetary inserter mechanism. 2,903,260, 9-8-59, Cl. 270-54.
- Faerber, Harry W., to Time, Inc. Roll reciprocating mechanism. 2,903,966, 9-15-59, Cl. 101-348.
- Faerber, Harry W., to Time, Inc. Mechanism for separating bound and unbound books. 2,917,168, 12-15-59, Cl. 209-72.
- Faerber, Gerhard, to Deutsche Solvay-Werke G. m. b. H. Production of polyesters by poly-addition. 2,875,181, 2-24-59, Cl. 260-78.4.
- Fafnir Bearing Co., The: *See*—  
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Leister, Fayette. 2,902,321.  
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- Fagg, Lyndall J.: *See*—  
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- Fagge, R. D., deceased; S. A. Fagge, administratrix. Self-adapting spot welding gun. 2,879,373, 3-24-59, Cl. 219-89.
- Fagge, Ralph D., deceased; S. A. Fagge, administratrix. Electrode-reciprocating spot welding gun. 2,891,513, 6-23-59, Cl. 121-38.
- Fagge, Sophie A.: *See*—  
Fagge, Ralph D. 2,891,513.  
Fagge, Ralph D. and S. A. 2,879,373.
- Fagin, Karl W.: *See*—  
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- Fahey, Floyd J., and W. M. McCrum. Hood. 2,882,894, 4-21-59, Cl. 128-141.
- Fahey, Richard J.: *See*—  
Carkhuff, LeRoy F., and Fahey. 2,881,938.
- Fahl, Christoph, to H. and F. W. Deckel. Mechanism for setting photographic exposure values. 2,911,897, 11-10-59, Cl. 95-64.
- Fahland, Frank. Fifth wheel pedestal structure. 2,916,238, 12-8-59, Cl. 248-119.
- Fahlenberg, Paul: *See*—  
Gebele, Kurt, and Fahlenberg. 2,887,939.
- Fahlenberg, Paul, to H. and F. W. Deckel. Photographic camera. 2,901,957, 9-1-59, Cl. 95-64.
- Fahnestock, Frank C., to Socony Mobil Oil Co., Inc. Continuous high-pressure contacting of fluids with granular solids. 2,868,720, 1-13-59, Cl. 208-173.
- Fahnoe, Frederick, to Vitro Corp. Method of making a grinding tool. 2,904,418, 9-15-59, Cl. 51-293.
- Fahnoe, Frederick, and J. J. Shyne, to United States of America, Atomic Energy Commission. Nuclear fuel elements and methods for making same. 2,872,388, 2-3-59, Cl. 204-1.5.
- Fahnoe, Frederick, J. J. Shyne, and W. D. Fletcher, to Vitro Corp. of America. Information storage systems and methods for producing same. 2,906,682, 9-29-59, Cl. 204-181.
- Fahnoe, Harold H., to Westinghouse Electric Corp. Fusible devices. 2,879,354, 3-24-59, Cl. 200-113.
- Fahnoe, Harold H., to Westinghouse Electric Corp. Fusible devices. 2,917,605, 12-15-59, Cl. 200-114.
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- Fahrenbach, Wolfgang B., to Edlo, Inc. Banding machine. 2,912,808, 11-17-59, Cl. 53-134.
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- Fahrenwald, Arthur W. Jaw crusher. 2,873,922, 2-17-59, Cl. 241-264.
- Fahri, Carol: *See*—  
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- Fahringer, Victor T. Apparatus for sealing a pressure vessel. 2,873,597, 2-17-59, Cl. 68-5.
- Fahringer, Victor T. Method and apparatus for treating web and/or strand material. 2,905,522, 9-22-59, Cl. 8-151.
- Fahrni, Walter. Percussion machine. 2,872,914, 2-10-59, Cl. 125-33.
- Faidley, Hunter C. Apparatus for cleaning by ultra-sonic vibrations. 2,896,649, 7-28-59, Cl. 134-184.
- Failing, George E., Co.: *See*—  
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Cornish, Eugene S. 2,915,697.  
Cornish, Eugene S., and Stark. 2,915,696.
- Failing, Jay C. Fluid circulating drilling barrel. 2,914,306, 11-24-59, Cl. 255-19.
- Faillace, Frank A.: *See*—  
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- Fain, Morton E., and H. Copley, Jr., to Tower Iron Works Inc. Filtration system. 2,874,845, 2-24-59, Cl. 210-167.
- Fain, Albert. Captive cap for receptacles. 2,892,565, 6-30-59, Cl. 220-30.5.
- Fairbank, Murry N.: *See*—  
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- Fairbank, Murry N., to Polaroid Corp. Photographic apparatus. 2,877,699, 3-17-59, Cl. 95-59.
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- Fairbanks, Avard F., and C. M. Wolfe, to North American Aviation, Inc. Radiation tracker for aiming at center or centroid of multiple targets. 2,877,354, 3-10-59, Cl. 250-203.
- Fairbanks, Avard F., and T. R. Whitney, to North American Aviation, Inc. Infrared scanning system. 2,882,416, 4-14-59, Cl. 250-83.3.



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- Fairbanks, Everitt E., to Mintzer, Fairbanks & Politis. Therapeutic vapor apparatus. 2,917,046, 12-15-59, Cl. 128—186.
- Fairbanks, Gordon J., D. A. Potter, and J. B. Mellett, to Stewart-Warner Corp. Coolant and personnel heating apparatus. 2,895,678, 7-21-59, Cl. 237—12.3.
- Fairbanks, Grant, W. L. Everitt, and R. P. Jaeger, to University of Illinois Foundation. Recording device. 2,886,650, 5-12-59, Cl. 179—100.2.
- Fairbanks, Henry N., to Eastman Kodak Co. Hand cutter. 2,878,952, 3-24-59, Cl. 216—29.
- Fairbanks, Henry N., to Eastman Kodak Co. Film framing and indexing device. 2,891,690, 6-23-59, Cl. 216—29.
- Fairbanks, Morse & Co.: *See*—  
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Isaacs, George K., and Johnson. 2,908,353.  
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- Fairbanks Ward Industries, Inc.: *See*—  
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- Fairbrother, James B. Electrical discharge machining apparatus. 2,909,640, 10-20-59, Cl. 219—69.
- Fairchild Camera and Instrument Corp.: *See*—  
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- Fairchild Engine and Airplane Corp.: *See*—  
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- Fairchild, Homer E., to E. I. du Pont de Nemours and Co. Compositions and methods for destroying insects. 2,910,402, 10-27-59, Cl. 167—30.
- Fairchild, Sherman M., to Fairchild Camera and Instrument Corp. Engraving machine. 2,881,246, 4-7-59, Cl. 178—6.6.
- Fairchilds, Bertram S., and P. C. Forward. Escape chute. 2,901,055, 8-25-59, Cl. 182—49.
- Faircloth, Charles R., to The Dow Chemical Co. Twisting film strips to yarn. 2,918,784, 12-29-59, Cl. 57—167.
- Fairest, Derek H., and S. E. Banks, to Morgan Fairest Ltd. Labelling machines. 2,908,414, 10-13-59, Cl. 216—54.
- Fairest, Morgan, Limited: *See*—  
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- Fairey Aviation Co. Ltd., The: *See*—  
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- Fairhaven Properties Corp.: *See*—  
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- Fairhurst, Harold A., to Murphy Radio Ltd. Variable delay line. 2,908,746, 10-13-59, Cl. 178—5.
- Fairhurst, Leonard G., to Rotol Ltd. Pitch lock for hydraulic pitch propeller. 2,889,888, 6-9-59, Cl. 170—160.31.
- Fairhurst, Leonard G., and E. Danvers, to Rotol Ltd. Pitch lock valve for hydraulic variable pitch propellers. 2,869,650, 1-20-59, Cl. 170—160.21.
- Fairmont Box Co.: *See*—  
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- Fairmont Railway Motors, Inc.: *See*—  
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- Fairstein, Edward, to United States of America, Atomic Energy Commission. Linear amplifier. 2,892,044, 6-23-59, Cl. 179—171.
- Fairview Photo Service, Inc.: *See*—  
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- Faisandier, Jacques. Double circuit hydraulic distributor. 2,868,217, 1-13-59, Cl. 137—112.
- Faisandier, Jacques. Apparatus for training air pilots in shooting. 2,871,578, 2-3-59, Cl. 35—10.2.
- Faith-Ell, Lars J.: *See*—  
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- Faiver, Kenneth E.: *See*—  
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- Faiver, Kenneth E., to General Motors Corp. Air suspension system with pitch control. 2,918,305, 12-22-59, Cl. 280—124.
- Fajans, Edgar W.: *See*—  
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- Fajardo, Luis A. Camera. 2,893,300, 7-7-59, Cl. 95—16.
- Falck, James S. Knob locking device. 2,883,850, 4-28-59, Cl. 70—431.
- Falck-Pedersen, Kjell A.: *See*—  
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- Falck-Pedersen, Kjell A., to Acme Steel Co. Coil unreeler. 2,905,406, 9-22-59, Cl. 242—75.43.
- Falco, Joseph F.: *See*—  
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- Falconbridge Nickel Mines Ltd.: *See*—  
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- Falconer, David G. Valve apparatus. 2,880,959, 4-7-59, Cl. 251—35.
- Falconi, Oscar R. Autocollimator for measuring angle of incident light beam. 2,870,671, 1-27-59, Cl. 88—14.
- Fales, Albert E., Jr. Wood turning attachment for lathes. 2,884,025, 4-28-59, Cl. 142—55.
- Fales, John D.: *See*—  
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- Falge, John H.: *See*—  
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- Falge, Robert N.: *See*—  
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- Falge, Robert N., to General Motors Corp. Method for making lamp bulb. 2,867,715, 1-6-59, Cl. 219—117.
- Falge, Robert N., to General Motors Corp. Projection lamp aiming. 2,867,910, 1-13-59, Cl. 33—180.
- Falge, Robert N., R. R. Broshar, and R. Manning, to General Motors Corp. Headlamp adjuster. 2,911,523, 11-3-59, Cl. 240—41.6.
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- Falk, Chester D. Tubing closing tools. 2,913,054, 11-17-59, Cl. 166—224.
- Falk Corp., The: *See*—  
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- Falk, Harold W. Lubricated hinge. 2,890,479, 6-16-59, Cl. 16—161.
- Falk, Harold W., to Wright Products, Inc. Door latch and lock. 2,915,329, 12-1-59, Cl. 292—228.
- Falk, Irving M. Garment pocket construction. 2,902,694, 9-8-59, Cl. 2—247.
- Falk, Sven G., to North American Philips Co., Inc. Mechanism for successively releasing stacked phonograph records. 2,898,116, 8-4-59, Cl. 274—10.
- Falke, Robert N., to General Motors Corp. Headlamp pre-aiming apparatus. 2,890,920, 6-16-59, Cl. 216—23.
- Falkenberg, Charles W., and D. R. Johnson, to Maguire Industries, Inc. Asphalt additives. 2,891,873, 6-23-59, Cl. 106—273.
- Falkenberg, Hugo: *See*—  
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- Falkenstein, Otis P.: *See—*  
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- Fall, Albert P., deceased; E. A. Fall, administrator, to Ace Products Co. Wiper ring. 2,884,654, 5-5-59, Cl. 15—104.4.
- Fall, Emory A.: *See—*  
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- Fall, Wilfrid, to Pullman-Standard Car Mfg. Co. Ventilating arrangement for passenger vehicles. 2,868,101, 1-13-59, Cl. 98—10.
- Fall, Wilfrid, to Pullman-Standard Car Mfg. Co. Car seat. 2,875,811, 3-3-59, Cl. 155—103.
- Falla, Fernando. Combined combustion apparatus for bagasse and vapor generator. 2,875,735, 3-3-59, Cl. 122—2.
- Faller, Lucille: *See—*  
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- Fallert, Clifford D., to Crown Zellerbach Corp. Heavy-duty container for bulk material. 2,887,264, 5-19-59, Cl. 229—23.
- Fallert, Clifford D., to Crown Zellerbach Corp. Heavy-duty container for bulk material with protective liner and releasable lock cover. 2,902,202, 9-1-59, Cl. 229—23.
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 Newcombe, Jack, and Fallgatter. 2,894,908.
- Fallier, Charles N., Jr., to Sylvania Electric Products Inc. Amplifier. 2,919,411, 12-29-59, Cl. 330—119.
- Fallon, Albin F. Splined arbor. 2,911,869, 11-10-59, Cl. 82—43.
- Falls Industries, Inc.: *See—*  
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- Faloon, Donald W., to Suburban Toy & Mfg. Corp. Illuminated baton head. 2,889,449, 6-2-59, Cl. 240—6.42.
- Falstrom, William, to Underwood Corp. Scanner for antenna system. 2,916,739, 12-8-59, Cl. 343—761.
- Falter, Henry E., and R. A. Vaughan, to Dresser Industries, Inc. Emergency brake for elevator cars. 2,897,920, 8-4-59, Cl. 187—88.
- Fan, Hsing Y., to Shell Development Co. Halogenated naphthoquinones. 2,886,577, 5-12-59, Cl. 260—396.
- Fancher, Kenneth I., to American Bosch Arma Corp. Timing device for fuel injection pump. 2,910,976, 11-3-59, Cl. 123—140.
- Fancher, Otis E., and G. Nichols, to Miles Laboratories, Inc. Substituted 2,3,4,5 tetrahydrodiazepine compounds and pharmaceutical compositions therewith. 2,899,359, 8-11-59, Cl. 167—65.
- Fancher, Paul J. Combination cover and enclosure for Christmas trees and other displays. 2,868,255, 1-13-59, Cl. 150—52.
- Fand, Theodore L., to Warner-Lambert Pharmaceutical Co. Anti-fungal compounds. 2,909,525, 10-20-59, Cl. 260—290.
- Fang, James C., to E. I. du Pont de Nemours and Co. Reaction product of phosphoric acid with a dioxolane ester-ethylenically unsaturated monomer copolymer and process for making same. 2,877,215, 3-10-59, Cl. 260—86.1.
- Fanner, Percival A. Floor or deck construction. 2,878,904, 3-24-59, Cl. 189—34.
- Fanning, Walter F. Shock absorber for orthopedic crutches. 2,888,022, 5-26-59, Cl. 135—60.
- Fanslau, Werner, and S. Carstensen, to Blaupunkt-Werke, G.m.b.H. Method of producing two-dimensional circuits or circuit elements on supporting bases. 2,914,404, 11-24-59, Cl. 96—35.
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- Fanti, Roy A., to United Aircraft Corp. Airfoil temperature control means. 2,873,933, 2-17-59, Cl. 244—117.
- Fanti, Roy A., to United Aircraft Corp. Variable contour propeller blades. 2,918,978, 12-29-59, Cl. 170—160.24.
- Fanti, Joel, F. J. Lection, and S. H. Rider, to Monsanto Chemical Co. Aqueous thermosetting resin compositions having improved viscosity-temperature relationships. 2,890,948, 6-16-59, Cl. 51—298.
- Farbak, John E., and E. J. Kasmen, to Swift & Co. Salad oil and method of oiling tin plate therewith. 2,899,328, 8-11-59, Cl. 106—250.
- Farbenfabriken Bayer Aktiengesellschaft: *See—*  
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- Farrell, Sherman R., to Applied Radiation Corp. Charged particle beam diffuser. 2,896,103, 7-21-59, Cl. 313-7.
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- Farrer, Kenneth, to Baker Perkins Ltd. Manufacture of biscuits. 2,917,009, 12-15-59, Cl. 107-21.
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- Fasciati, Alfred, to Ciba Ltd. Metalliferous azo-dyestuffs. 2,897,189, 7-28-59, Cl. 260-147.
- Fasciati, Alfred, to Ciba Ltd. Metalliferous azo-dyestuffs. 2,897,190, 7-28-59, Cl. 260-147.
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- Fassnacht, Arthur F., and A. R. Jones, to Sheffield-Cleveland Corp. Machine tool. 2,877,758, 3-17-59, Cl. 125-11.
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**Faulhaber, Fritz, to Voigtlander, A.G. Photographic camera with automatic adjustment of the exposure conditions.**

2,913,969, 11-24-59, Cl. 95-10.

**Faulhaber, Fritz, to Voigtlander Aktiengesellschaft. Device for the adjustment of exposure values in photographic cameras.**

2,917,984, 12-22-59, Cl. 95-64.

**Faulk, Kenneth H. to Cities Service Refining Corp. Storage of liquified gases.**

2,884,763, 5-5-59, Cl. 62-54.

**Faulkner, Alfred H., to General Telephone Laboratories, Inc.**

Translator for a telephone system. 2,876,289, 3-3-59, Cl. 179-18.

**Faulkner, Alfred H., to General Telephone Laboratories, Inc.**

"Not and" gate circuits. 2,879,411, 3-24-59, Cl. 307-83.5.

**Faulkner, Alfred H., to General Telephone Laboratories, Inc.**

Register for a telephone system. 2,882,345, 4-14-59, Cl. 179-18.

**Faulkner, Alfred H., to General Telephone Laboratories, Inc.**

Telephone instrument utilizing transistor amplifier. 2,885,483, 5-5-59, Cl. 179-81.

**Faulkner, Alfred H., to General Telephone Laboratories, Inc.**

Transistor multivibrator. 2,900,606, 8-18-59, Cl. 331-113.

**Faulkner, Alfred H., to General Telephone Laboratories, Inc.**

Paystation party line lockout systems. 2,910,543, 10-27-59, Cl. 179-17.

**Faulkner, Alfred H., to General Telephone Laboratories, Inc.**

3-wire connector. 2,914,618, 11-24-59, Cl. 179-18.

**Faulkner, Alfred H., and H. C. Talcott, to General Telephone Laboratories, Inc.**

Telephone apparatus employing transistor amplifiers. 2,885,484, 5-5-59, Cl. 179-81.

**Faulkner, Alice M.: See—**

Faulkner, Seymour. 2,889,286.

**Faulkner, Ford R., 1/2 to E. E. Bradford. Camping trailer.**

2,912,274, 11-10-59, Cl. 296-23.

**Faulkner, Seymour, deceased; A. M. Faulkner, executrix of said S. Faulkner, to E. F. Drew & Co., Inc. Nickel-titanium catalysts.**

2,889,286, 6-2-59, Cl. 252-455.

**Faulkner, Willard J., to V-M Corp. Speed-changing mechanism for phonographs.**

2,898,771, 8-11-59, Cl. 74-200.

**Faulkner, William H., Jr., J. W. Shearer, and V. C. Woodworth, to Tracerlab, Inc. Radiation thickness measurement.**

2,883,552, 4-21-59, Cl. 250-83.6.

**Faultless Caster Corp.: See—**

Skupas, John A. 2,915,775.

**Faurote, Philip D.: See—**

O'Rear, Jacques G., and Faurote. 2,894,971.

**Faus, Harold T.: See—**

Mendelsohn, Lewis I., and Faus. 2,897,443.

**Faus, Harold T., to General Electric Co. Electric measuring instrument.**

2,908,867, 10-13-59, Cl. 324-147.

**Fausek, Irving F., and W. L. Reedy, to Modern Engineering Co. Valve seat structures.**

2,904,060, 9-15-59, Cl. 137-329.04.

**Fausser, Donald L.: See—**

Landrigan, Richard B., Fausser, and Tom. 2,872,338.

**Fausser, Ernest E., to The Goodyear Tire & Rubber Co. Process of curing a polyurethane with a mixture of diisocyanate and polyester.**

2,888,432, 5-26-59, Cl. 260-45.4.

**Fausser, Giacomo, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Separation of acetylene from methane cracking gases by means of a selective solvent.**

2,894,602, 7-14-59, Cl. 183-120.

**Fausser, Giacomo, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Process and apparatus for performing exothermic reactions under high pressure and at elevated temperature.**

2,898,183, 8-4-59, Cl. 23-1.

**Fauske, Sig. C., to Phillips Petroleum Co. Purification of butadiene by removing it from oxygen with an absorbent oil.**

2,905,732, 9-22-59, Cl. 260-681.5.

**Fausnaugh, Ralph. Galley slide receiver.**

2,895,595, 7-21-59, Cl. 199-61.

**Faust, Charles L.: See—**

Bride, John E., Faust, and Safranek. 2,886,500.

**Faust, Delbert G., to C. A. Morgren Co. Spray system.**

2,868,584, 1-13-59, Cl. 299-86.

**Faust, Donald M.: See—**

Farmer, Stanley E., and Faust. 2,874,862.

**Faust, Harry W., to Monsanto Chemical Co. Oil-soluble carbonated metallo alkylated aryl sulfonates and compositions containing the same.**

2,916,451, 12-8-59, Cl. 252-33.4.

**Faust, John A., and M. Sahyun; said Faust assor. to said Sahyun, d.b.a. Sahyun Laboratories. Amidines.**

2,919,274, 12-29-59, Cl. 260-251.

**Faust, Paul F.: See—**

Eisenhard, Eli S., and Faust. 2,889,609.

**Fauteck, Walter S., D. H. Rollert, and H. S. Stover, to Mergenthaler Linotype Co. Toss bombing apparatus.**

2,910,916, 11-3-59, Cl. 89-1.5.

**Fauth, Frederick E.: See—**

Day, Carl L., Fauth, Finke, and Reymann. 2,896,674.

**Fauth, Frederick E., and R. S. Jump, to Crown Cork & Seal Co., Inc. Capping apparatus.**

2,874,526, 2-24-59, Cl. 53-314.

**Fauvelot, Pierre E. R., to Societe Anonyme Etablissements Ed. Jaeger. Adjustment devices for magnetic drive, applicable notably to tachometers.**

2,872,601, 2-3-59, Cl. 310-105.

**Fauvelot, Pierre E. R., to Etablissements Ed. Jaeger. Sound-proof and shock absorbing bearing for precision mechanisms.**

2,878,638, 3-24-59, Cl. 58-140.

**Faverty, Clyde B., and W. R. Shaver, to Pullman Inc. Vehicle floor construction.**

2,910,016, 10-27-59, Cl. 105-422.

**Faville, Henry E., and D. T. McKenna, to Reuhl Products, Inc. Advertising display.**

2,875,538, 3-3-59, Cl. 40-106.3.

**Favorite, John R.: See—**

Kuhrmeyer, Carl A., Owen, and Favorite. 2,891,165.

**Favors, Hollice A., to Hoffman Electronics Corp. Electronic selective circuit or the like.**

2,894,131, 7-7-59, Cl. 250-27.

**Favre, Francois: See—**

Bossard, Werner, Voltz, and Favre. 2,883,373.

**Favre, John A., J. P. Butler, and B. Mitacek, to Phillips Petroleum Co. Method and apparatus for blending lubricating oil stocks.**

2,883,343, 4-21-59, Cl. 252-56.

**Favre, John A., to General Electric Co. Current-carrying hinge construction.**

2,895,033, 7-14-59, Cl. 200-170.

**Favre, Robert, to Ebauches S.A. Circuit for transforming a stored electric quantity into a number proportional to this electric quantity of electric pulses.**

2,882,397, 4-14-59, Cl. 250-27.

**Favre, Robert. Magnetically guided miniature vehicle system.**

2,903,821, 9-15-59, Cl. 46-236.

**Favret, Maxime, and E. H. Schaefer, to Elgin National Watch Co. Balance with adjustable moment of inertia.**

2,880,570, 4-7-59, Cl. 58-107.

**Favrin, Pierre A.: See—**

Collion, Raymond J., and Favrin. 2,876,704.

**Fawcett, Cecil C., and C. F. Laager, to United States of America, Army. Thruster.**

2,880,572, 4-7-59, Cl. 60-19.

**Fawcett, Cecil C., A. M. Stott, and C. F. Laager, to United States of America, Army. Uniform velocity thruster.**

2,903,849, 9-15-59, Cl. 60-19.

**Fawcett, Frank S.: See—**

Arnold, Herrick R., Fawcett, and Gilbert. 2,900,235.

**Fawcett, Paul W.: See—**

Brouse, Shirley B., and Fawcett. 2,908,216.

Brouse, Shirley B., and Fawcett. 2,912,099.

**Fawcett, Paul W., to United States Steel Corp. Guide track and compressor for automatic wire-tying machine.**

2,908,215, 10-13-59, Cl. 100-26.

**Fawick Corp.: See—**

Eakin, John V. 2,879,868.

Eakin, John V., and Walsh. 2,870,891.

Fawick, Thomas L. Re. 24,652.

Fawick, Thomas L. 2,897,924.

Fawick, Thomas L. 2,914,959.

Fawick, Thomas L. 2,915,148.

**Fawick, Thomas L. Resilient wheel assembly.**

2,870,813, 1-27-59, Cl. 152-44.

**Fawick, Thomas L., to Fawick Corp. Assembly for use as a clutch or a brake.**

Re. 24,652, 5-26-59, Cl. 192-85.

**Fawick, Thomas L., to Fawick Corp. Actuating diaphragm and wear-shoe assembly for fluid-actuated clutches and brakes.**

2,897,924, 8-4-59, Cl. 188-152.



- Fawick, Thomas L., to Fawick Corp. Work-handling apparatus. 2,914,959, 12-1-59, Cl. 74—411.
- Fawick, Thomas L., to Fawick Corp. Cylinder-and-piston assembly and braking mechanism comprising same. 2,915,148, 12-1-59, Cl. 188—152.
- Fawkes, Donald G., to Henry Pratt Co. Shaft seal for a valve. 2,884,224, 4-28-59, Cl. 251—306.
- Fawkes, Donald G., to Henry Pratt Co. Valve operator. 2,909,079, 10-20-59, Cl. 74—509.
- Faxen, Per T., to Svenska Aeroplan Aktiebolaget. Geometrical balance computer. 2,916,206, 12-8-59, Cl. 235—61.
- Faximile, Inc.: *See*—
- Shaler, David. 2,881,273.
- Stamps, George M. 2,896,501.
- Fay, James P., to The Teletrak Corp. Apparatus for magnetically recording electrical waves. 2,909,596, 10-20-59, Cl. 178—66.
- Fay, John A., to Waste King Corp. Dishwasher with float switch. 2,882,366, 4-14-59, Cl. 200—84.
- Fay, Morty. Clothes hanger. 2,914,227, 11-24-59, Cl. 223—92.
- Fay, William A. Rafter guide. 2,875,523, 3-3-59, Cl. 33—93.
- Faye, Louis. Bracket type scaffolding, adjustable in height, slidingly, for concrete wall erection. 2,893,786, 7-7-59, Cl. 304—14.
- Fayerweather, Neuman H. Rectilinear recorder. 2,882,118, 4-14-59, Cl. 346—117.
- Fayolle, Marcel: *See*—
- Ancet, Victor M. J., and Fayolle. 2,906,296.
- Fayolle, Marius: *See*—
- Ancet, Victor M. J., and Fayolle. 2,906,296.
- Fazekas, Gabriel A. G.: *See*—
- Cochran, Elvin P., Jr., and Fazekas. 2,872,805.
- Fazendin, Donald F.: *See*—
- Beck, William J., and Fazendin. 2,895,247.
- Fazit Gesellschaft für Transporttechnik m. b. H.: *See*—
- Dahmen, Karl, and Lutters. 2,878,029.
- Feagin, Roy C., R. B. Sosman, and R. A. Horton, to Howe Sound Co. Calcium aluminate binder. 2,911,311, 11-3-59, Cl. 106—38.9.
- Fear, James V. D.: *See*—
- Shuman, Frank R., Jr., and Fear. 2,867,582.
- Fear, James V. D., to Sun Oil Co. Improving color of lubricating oils and waxes. 2,890,963, 6-16-59, Cl. 208—27.
- Fear, James V., to Sun Oil Co. Method for stabilizing lubricating oil. 2,908,638, 10-13-59, Cl. 208—264.
- Fear, James V. D., to Sun Oil Co. Two-stage hydrogenation process for producing oxidation resistant lubricants. 2,915,452, 12-1-59, Cl. 208—57.
- Fear, James V. D., and F. R. Shuman, Jr., to Sun Oil Co. Hydrocarbon conversion process. 2,918,423, 12-22-59, Cl. 208—96.
- Fearn Foods Inc.: *See*—
- Walberer, William A. 2,917,768.
- Fearn, Ward O. Wooden mouthpieces for brass wind musical instruments. 2,890,614, 6-16-59, Cl. 84—398.
- Fearon, Robert E.: *See*—
- Silverman, Daniel, and Fearon. 2,889,000.
- Fearon, Robert E., to Electro Chemical Laboratories Corp. Geiger counter systems. 2,886,713, 5-12-59, Cl. 250—83.6.
- Fearon, Robert E., to Electro Chemical Laboratories Corp. Method and apparatus for electric well logging. 2,891,215, 6-16-59, Cl. 324—1.
- Fearon, Robert E., to Well Surveys, Inc. Casing joint detector. 2,897,438, 7-28-59, Cl. 324—34.
- Fearon, Robert E., and J. M. Thayer, to Well Surveys, Inc. Well logging by selective detection of neutrons. 2,884,534, 4-28-59, Cl. 250—83.6.
- Fearon, Robert E., and J. M. Thayer, to Well Surveys, Inc. Directionally sensitive shallow ionization chambers for neutron well logging. 2,897,372, 7-28-59, Cl. 250—83.6.
- Fearon, Robert E., and J. M. Thayer, to Well Surveys, Inc. Method and apparatus for measuring the direction sense of direction and energy of ionizing processes. 2,903,594, 9-8-59, Cl. 250—83.6.
- Feaster, Gene R.: *See*—
- Miller, Carl F., Smart, and Feaster. 2,909,200.
- Feaster, John H. Combination toothpick and stirring or eating implement. 2,877,547, 3-17-59, Cl. 30—1.
- Feather, Edmund E., to Prince-Smith & Stells Ltd. Machine for twisting yarn. 2,912,815, 11-17-59, Cl. 57—66.
- Feathers, Lynn A., to Philco Corp. Neutralized amplifier circuit. 2,882,351, 4-14-59, Cl. 179—171.
- Feathers, Robert E., and R. H. Rogerson, to Columbia-Southern Chemical Corp. Method for preparing perchloroethylene. 2,914,575, 11-24-59, Cl. 260—654.
- Featherston, Paul V. Therapeutic device. 2,879,765, 3-31-59, Cl. 128—67.
- Featherstone, Ronald A., and W. E. Rise, to General Motors Corp. Assembly machine. 2,908,066, 10-13-59, Cl. 29—25.19.
- Febco, Inc.: *See*—
- Reinecke, Charles W. 2,882,006.
- Fedan, Sidney H., and N. J. Ely, to Koppers Co., Inc. Blade assembly. 2,918,977, 12-29-59, Cl. 170—159.
- Fedde, George A., to Philco Corp. Reduction of color contamination by pilot oscillator in beam registration system. 2,917,576, 12-15-59, Cl. 178—5.4.
- Fedderson, Harry A., to Union Carbide Corp. Resinous mixtures containing vinyl chloride-octyl acrylate interpolymers and acrylonitrile-styrene copolymers. 2,889,308, 6-2-59, Cl. 260—45.5.
- Feder, Harold M., M. Ader, and L. E. Ross, to United States of America, Atomic Energy Commission. Solvent extraction of uranium values. 2,872,285, 2-3-59, Cl. 23—14.5.
- Feder, Harold M., and R. L. Nuttall, to United States of America, Atomic Energy Commission. Separation of plutonium from uranium. 2,917,382, 12-15-59, Cl. 75—84.1.
- Feder, Herbert S., to Bell Telephone Laboratories, Inc. Potting of electrical apparatus. 2,882,505, 4-14-59, Cl. 336—96.
- Feder, Herbert S., to Bell Telephone Laboratories, Inc. Magnetic frequency generator. 2,896,090, 7-21-59, Cl. 307—88.
- Federal Bearings Co., Inc.: *See*—
- Recknagel, Frederick W. 2,867,455.
- Federal Carton Corp.: *See*—
- McCormick, Frank. 2,884,181.
- McCormick, Frank. 2,911,106.
- Federal Chain Co.: *See*—
- Jaeger, Adolf. 2,893,200.
- Jaeger, Adolf. 2,893,201.
- Federal Chemical Co.: *See*—
- Rush, Dallas. 2,919,100.
- Federal Electric Products Co.: *See*—
- Christensen, Paul M. 2,876,308.
- Christensen, Paul M. 2,883,586.
- Christensen, Paul M., and Cohen. 2,916,904.
- Goody, Robert B. 2,876,364.
- Kron, Eugene. 2,881,242.
- Norden, Alexander R. 2,885,654.
- Wills, Ervin E. 2,871,284.
- Federal Findings Co., Inc.: *See*—
- Chiappinelli, Quirino, Jr. 2,867,022.
- Federal Hardware Products, Inc.: *See*—
- Ditter, Francis J. 2,900,158.
- Federal Laboratories, Inc.: *See*—
- Weinert, Carl R. 2,899,106.
- Federal Machine and Welder Co.: *See*—
- Allen, Peter W., and Cavender. 2,873,017.
- Deffenbaugh, James E., and Taylor. 2,912,564.
- Longheid, William F. 2,872,886.
- Longfield, William F. 2,896,457.
- Williams, Arthur L. 2,868,265.
- Williams, Arthur L., and Deffenbaugh. 2,908,803.
- Federal Mfg. & Engineering Corp.: *See*—
- Weiser, Sidney. 2,874,913.
- Federal-Mogul-Bower Bearings, Inc.: *See*—
- Bowen, Edward K. 2,879,114.
- Haynie, Robert N. 2,873,153.
- Haynie, Robert N. 2,883,845.
- Haynie, Robert N. 2,883,846.
- Johnson, Lloyd A., and Bowen. 2,871,037.
- Stephens, Clifford A., and McCandless. 2,889,163.
- Strickland, Silas A. 2,880,495.
- Ticknor, William C. 2,895,509.
- Wurtz, John W., and Bowker. 2,893,058.
- Wurtz, John W., and Wolff. 2,880,019.
- Federal Pacific Electric Co.: *See*—
- Ballou, Richard P. 2,907,856.
- Christensen, Paul M. 2,872,548.
- Cole, Thomas M. 2,897,314.
- Cole, Thomas M. 2,907,840.
- Daley, Arthur G. 2,907,977.
- Pfister, William, and Norden. 2,916,181.
- Wiktor, Dominik. 2,876,309.
- Federal Paper Board Co., Inc.: *See*—
- Arneson, Edwin L. 2,905,359.
- Arneson, Edwin L. 2,919,050.
- Arneson, Lawrence E. 2,873,565.
- Bothwell, William R. 2,869,771.
- Williamson, Marshall I. 2,901,157.
- Federal Premium Service, Inc.: *See*—
- Emmert, George W. 2,871,489.
- Emmert, George W. 2,874,494.
- Federal Products Corp.: *See*—
- Worrall, Walter L. 2,889,631.
- Federal Tool Corp.: *See*—
- Emmert, George W., and Barr. 2,910,218.
- Emmert, George W., and Safianoff. 2,910,217.
- Olson, Raymond J., and Press. 2,917,783.
- Federated Industries Inc.: *See*—
- Austin, Charles G., and Hartung. 2,908,503.
- Federgreen, Nathan, and D. G. Jordan, to American Cyanamid Co. Continuous separation of mercury-containing sulfuric acid from organic liquids. 2,900,078, 8-18-59, Cl. 210—83.
- Federici, Edmondo. Device for locating the transverse rotation axis of the human jaw. 2,874,469, 2-24-59, Cl. 32—20.
- Federighi, George J. Drying agent dispenser for use with a dishwashing machine. 2,895,646, 7-21-59, Cl. 222—181.
- Federighi, George J., and T. H. Noren. Rotary spray arm for a cleaning machine. 2,905,393, 9-22-59, Cl. 239—110.
- Federighi, George J., and T. H. Noren. Pressurized device for injecting drying agent into rinse spray system. 2,910,075, 10-27-59, Cl. 134—56.
- Federkiel, Wilhelm: *See*—
- Anton, Ernst, Eisele, and Federkiel. 2,911,417.
- Baumann, Hans, Arnemann, Eisele, and Federkiel. 2,913,303.
- Maier, Karl, Eisele, and Federkiel. 2,913,465.
- Federman, John L.: *See*—
- Baum, William E., and Federman. 2,912,360.
- Federn, Klaus, and H. Hack, to Carl Schenck Maschinenfabrik G. m. b. H. Means for the electric indication of unbalance in rotors. Re. 24,620, 3-10-59, Cl. 73—463.



- Fedeson, Benjamin. Disc socket wrench. 2,898,793, 8-11-59, Cl. 81-121.
- Fedevich, Joseph J. Loop fabric stitching machine. 2,889,791, 6-9-59, Cl. 112-79.
- Fedirko, John: *See*—  
Owen, John J., and Fedirko. 2,872,383.
- Fedit, René, to Les Vaporisateurs Marcel Frank S.A. Atomizers, in particular perfume atomizers. 2,888,208, 5-26-59, Cl. 239-308.
- Fedorchak, William J., R. L. Early, and J. W. Johnese, to Owens-Illinois Glass Co. Inspection of glassware by radiation. 2,868,061, 1-13-59, Cl. 88-14.
- Fedoroko, George, to Air Products Inc. Recovery of argon from an oxygen containing crude argon mixture. 2,909,410, 10-20-59, Cl. 23-209.
- Fedotowsky, Leonid, and H. W. Marsh, to Sprague Electric Co. Silicon junction diode. 2,906,932, 9-29-59, Cl. 317-240.
- Fedrowich, Peter. Salvage device. 2,887,080, 5-19-59, Cl. 114-54.
- Fee, Melvin E. Cutting torch tip construction. 2,897,884, 8-4-59, Cl. 158-27.4.
- Feedmatic Inc.: *See*—  
Lupo, Fritz J. 2,889,075.
- Feezel, Lida M.: *See*—  
Feezel, James R. and L. M. 2,885,695.
- Fefer, Gregory, D. W. Rudorff, and M. G. Seed, to Sparcatron Ltd. Electric disintegration of conductive materials. 2,876,386, 3-3-59, Cl. 315-170.
- Fegely, Harris V., to The Monarch Cement Co. Material crushing and sizing means cooperable with reciprocating conveyor. 2,885,157, 5-5-59, Cl. 241-262.
- Fegely, Hugh S., and H. W. Van Ness, to Westinghouse Electric Corp. Multiple fault indicating system. 2,900,628, 8-18-59, Cl. 340-213.
- Fehler, George, to The Regents of the University of California. Method for measuring magnetic susceptibilities. 2,878,444, 3-17-59, Cl. 324-5.
- Fehling, Hans R., to D. C. B. Ltd. Writing instruments of the ball tip type. 2,891,511, 6-23-59, Cl. 120-42.4.
- Fehling, Hans R., and E. A. Wicks, to Compania Uruguaya de Fomento Industrial S.A. Method for the production of ball tip writing instruments. 2,879,586, 3-31-59, Cl. 29-441.
- Fehn, Frank P., to E. W. Bliss Co. Control circuit for torque transmitting mechanism. 2,912,606, 11-10-59, Cl. 310-98.
- Fehn, Frank P., Sr.: *See*—  
Crane, Edward V., Curtner, and Fehn. 2,911,080.
- Fehr, Henri, to Societe Anonyme dite: Compagnie de Construction Mecanique Procèdes Sulzer. Change-speed device. 2,867,127, 1-6-59, Cl. 74-378.
- Fehring, Wendell B., to Boeing Airplane Co. Airflow deflector for tail gun turrets. 2,915,948, 12-8-59, Cl. 89-37.5.
- Feibelman, Hans J., to Coro of Rhode Island, Inc. Bead converter. 2,867,052, 1-6-59, Cl. 41-10.
- Feibelman, Walter A.: *See*—  
Sternglass, Ernest J., and Feibelman. 2,898,499.
- Feibelman, Walter A., and R. C. Ohlmann, to United States of America, Air Force. Freely supported retina. 2,888,372, 5-26-59, Cl. 117-211.
- Feichtinger, Hans, and S. Puschhof, to Ruhrchemie Akt. 1,3-disubstituted derivatives of 4,5,6,7,10,10-hexachloro-4,7-endomethylene-4,7,8,9-tetrahydrophthalane. 2,879,275, 3-24-59, Cl. 260-346.2.
- Feichtinger, Hans, and S. Puschhof, to Ruhrchemie Akt. 1-ethers, thioethers and esters of 4,5,6,7,10,10-hexachloro-4,7-methylene-4,7,8,9-tetrahydrophthalane. 2,881,187, 4-7-59, Cl. 260-346.2.
- Feichtinger, Hans, and S. Puschhof, to Ruhrchemie Akt. Recovery of colorless aqueous solutions of aminosulfonic acids. 2,881,207, 4-7-59, Cl. 260-513.
- Feichtinger, Hans, and H. W. Linden, to Ruhrchemie Akt. Chlorinated 4,5,6,7-tetrachloro-4,7-endoxo-4,7,8,9-tetrahydrophthalane insecticides. 2,882,199, 4-14-59, Cl. 167-33.
- Feick, George III: *See*—  
Hyde, Richard W., and Feick. 2,902,345.
- Feier, Milton: *See*—  
Ritter, Jay S., Feier, and Pantzer. 2,898,913.
- Feiertag, Karl M., and H. M. Stephenson, to General Electric Co. Magnetic particle clutch with briquette clutch member. 2,872,001, 2-3-59, Cl. 192-21.5.
- Feige, Harry: *See*—  
Leaman, Raymond J., and Feige. 2,883,032.  
Leaman, Raymond J., and Feige. 2,888,126.
- Feighner, George C., to Continental Oil Co. Transalkylation of aromatic hydrocarbons. 2,914,580, 11-24-59, Cl. 260-671.
- Feigley, David A., Jr., to Armstrong Cork Co. Method of improving color in phenol-aldehyde resins by adding a reducing sugar thereto and product obtained. 2,868,743, 1-13-59, Cl. 260-17.2.
- Feigley, David A., Jr., to Armstrong Cork Co. Beater saturated sheets having increased strength. 2,868,641, 1-13-59, Cl. 92-21.
- Feigley, David A., Jr., to Armstrong Cork Co. Asbestos-backed plastic surface covering. 2,880,090, 3-31-59, Cl. 92-3.
- Feigley, David A., Jr., and L. V. Hassel, to Armstrong Cork Co. Decorative felted fibrous sheet. 2,905,583, 9-22-59, Cl. 162-134.
- Feigley, David A., Jr., and J. A. Parker, to Armstrong Cork Co. Resinous products. 2,914,494, 11-24-59, Cl. 260-9.
- Feil, George W., Jr., to International Harvester Co. Vehicle cab mounting employing pivoted leaf spring. 2,885,243, 5-5-59, Cl. 296-35.
- Feil, George W., Jr., to International Harvester Co. Motor vehicle exhaust muffler support means. 2,912,198, 11-10-59, Cl. 248-54.
- Feil, Vernon J.: *See*—  
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- Feilbach, Donald J.: *See*—  
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- Fein, Martin L.: *See*—  
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- Fein, Martin L., and E. M. Filachione, to United States of America, Agriculture. Process of tanning hides with polymethoxyaldehyde compounds and optionally vegetable tanning. 2,880,053, 3-31-59, Cl. 8-94.21.
- Feinberg, Albert E., to Advance Transformer Co. Apparatus for igniting and operating gaseous discharge devices. 2,883,581, 4-21-59, Cl. 315-138.
- Feinberg, Albert E. Ballast and lighting system for fluorescent lamps. 2,900,577, 8-18-59, Cl. 315-257.
- Feinberg, Albert E., and F. S. Endo, to Advance Transformer Co. Method of manufacturing a transformer core construction. 2,892,249, 6-30-59, Cl. 29-155.61.
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- Feiner, Alexander, to Bell Telephone Laboratories, Inc. Electrical information system. 2,892,037, 6-23-59, Cl. 179-18.
- Feiner, Hans: *See*—  
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- Feinleib, Morris, H. T. Francis, and W. H. Graft, to United States of America, Army. Reserve type rapid discharge primary cell. 2,902,531, 9-1-59, Cl. 136-90.
- Feinstein, Lester, to Sylvania Electric Products Inc. Filamentary stacked triode. 2,898,503, 8-4-59, Cl. 313-238.
- Feinstone, Wolfe H. Sulfonamide composition comprising a lipid-aqueous emulsion carrier. 2,867,565, 1-6-59, Cl. 167-51.5.
- Feis, Nikolaas, to Instituut voor Tuinbouwtechniek. Device for atomizing liquids. 2,884,204, 4-28-59, Cl. 239-406.
- Feissel, Henri G., to Compagnie des Machines Bull (Societe Anonyme). Impulse circulation comparison device for two whole numbers. 2,876,433, 3-3-59, Cl. 340-149.
- Feit, Aloysius J.: *See*—  
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- Feitl, Rudolph, to Waldes Kohinoor, Inc. Slide fastener manufacture by a cutting and punching operation. 2,868,288, 1-13-59, Cl. 164-14.
- Felbeck, George T., to Union Carbide Corp. Strata mining-adjacent seam hardness indicator. 2,878,000, 3-17-59, Cl. 262-7.
- Felber, John: *See*—  
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- Felber, John, to American Can Co. Carrying device for juxtaposed containers. 2,892,654, 6-30-59, Cl. 294-87.2.
- Felberg, Robert S., and J. R. Gould, to Thiokol Chemical Corp. Rocket fuel and fuel additive. 2,900,788, 8-25-59, Cl. 60-35.4.
- Felburn, John P.: *See*—  
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- Feld, Heinrich, and W. Lapp, deceased, by G. Lapp, heir and legal representative. Planing, shaping or the like machines. 2,880,653, 4-7-59, Cl. 90-55.
- Felder, Harry H., to Bell Telephone Laboratories, Inc. Echo suppressor circuits. 2,885,493, 5-5-59, Cl. 179-170.8.
- Felder, John L. Surface covering unit. 2,916,908, 12-15-59, Cl. 72-18.
- Feldhake, Herbert J. Demonstrator for the formula for the surface of a sphere. 2,872,743, 2-10-59, Cl. 35-34.
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- Feldman, Abraham G., to Storkline Furniture Corp. Crib spring construction. 2,895,144, 7-21-59, Cl. 5-207.
- Feldman, Albert W.: *See*—  
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- Feldman, Arthur: *See*—  
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- Feldman, Carl B. H.: *See*—  
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- Feldman, Edward D.: *See*—  
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- Feldman, Herman, and M. Sams. Tool handle. 2,870,809, 1-27-59, Cl. 145-61.



- Feldman, Irving: *See*—  
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- Feldman, Jacob R., to General Foods Corp. Food process. 2,875,063, 2-24-59, Cl. 99-71.
- Feldman, Samuel. Adjustable cap. 2,889,558, 6-9-59, Cl. 2-183.
- Feldman, Samuel. Fisherman's cap construction. 2,908,012, 10-13-59, Cl. 2-200.
- Feldmann, Paul, to Dan River Mills, Inc. Detergent composition. 2,876,201, 3-3-59, Cl. 252-152.
- Feldmuhle A.G.: *See*—  
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- Felgate, Jack, to Ronald Trist & Co. Ltd. Valve structure. 2,893,427, 7-7-59, Cl. 137-620.
- Felix, Michael: *See*—  
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- Felker, Jean H.: *See*—  
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- Felker, Jean H., to Bell Telephone Laboratories, Inc. Transistor pulse transmission circuits. 2,885,572, 5-5-59, Cl. 307-88.5.
- Felker, Maurice H., to Scott & Williams, Inc. Circular rib knitting machine. 2,903,871, 9-15-59, Cl. 66-157.
- Fell, Eric T., to Stevensons (Dyers) Ltd. Permonosulfuric acid for bleaching synthetic polymer textiles. 2,882,121, 4-14-59, Cl. 8-111.
- Fellabaum, John P., now by change of name J. P. Felburn. Shock-absorbing vehicle suspension. 2,885,217, 5-5-59, Cl. 280-86.
- Fellabaum, John P., now by judicial change of name J. P. Felburn. Wheel suspensions for trailers. 2,888,268, 5-26-59, Cl. 280-104.5.
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- Feller, Arthur G., and A. W. Crow. Captive closure. 2,868,422, 1-13-59, Cl. 222-521.
- Feller, Morris, to Standard Oil Co. Maintenance of catalyst activity using methyl chloride. 2,880,168, 3-31-59, Cl. 208-140.
- Feller, Morris, and E. Field, to Standard Oil Co. Catalytic process. 2,880,200, 3-31-59, Cl. 260-94.9.
- Fellers, Carl R., and W. A. Zachowski, to Blue Channel Corp. Preventing struvite formation in thermally treated seafoods. 2,870,025, 1-20-59, Cl. 99-188.
- Felletschin, Günter, to Dehydtag, Deutsche Hydrierwerke G.m.b.H. Cosmetic lotion. 2,898,269, 8-4-59, Cl. 167-90.
- Fellmann, Robert P.: *See*—  
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- Fellows, Charles G.: *See*—  
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- Fellows, Richard A.: *See*—  
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- Felmley, Charles R., Jr.: *See*—  
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- Felsa S. A.: *See*—  
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- Felsenthal, Robert: *See*—  
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- Felt, Arthur J. Vehicle brake safety means. 2,902,828, 9-8-59, Cl. 60-54.5.
- Felt, David C.: *See*—  
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- Felt, Melvin F.: *See*—  
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- Felt, Paul W., to Brown & Bigelow. Pellet valve and method of making the same. 2,892,251, 6-30-59, Cl. 29-157.
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- Felt, Robert M., to Libbey-Owens-Ford Glass Co. De-icing windows. 2,898,433, 8-4-59, Cl. 219-20.
- Felten & Guilleaume Carlswerk Akt.: *See*—  
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- Felter, John V. Seamed pipe of sheet material. 2,915,088, 12-1-59, Cl. 138-75.
- Felter, Richard H. Liquid or cream applicator tops for containers. 2,913,748, 11-24-59, Cl. 15-139.
- Felton, William. Cutting devices for cutting continuous lengths of yarn or thread. 2,868,290, 1-13-59, Cl. 164-53.
- Felton, William. Production of tufted fabrics. 2,887,966, 5-26-59, Cl. 112-79.5.
- Felts, Basil B. Depressible steering wheel for automotive vehicles. 2,888,836, 6-2-59, Cl. 74-493.
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- Felts, Donald E.: *See*—  
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- Felts, Gordon P., J. W. Parks, and R. W. Seeger, to Microdot Inc. Apparatus for stripping wires and cables. 2,915,928, 12-8-59, Cl. 81-9.51.
- Felts, Herman: *See*—  
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- Felts, Jerome J., to Ford Motor Co. Wheel brake drum. 2,881,875, 4-14-59, Cl. 188-218.
- Fenart, Jean, to Etablissements Fenart-Bouguet-Pau. Methods of saturating a liquid with carbonic acid. 2,870,865, 1-27-59, Cl. 183-114.
- Fenburr, Herbert L., to Reed-O-Matic, Inc. Packaging reeds for musical instruments. 2,910,173, 10-27-59, Cl. 206-16.
- Fencel, Zdenek: *See*—  
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- Fender, Norman N.: *See*—  
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- Fener, Alfred, to N. Langer. Sealing member for heat sealing machines. 2,904,100, 9-15-59, Cl. 154-42.
- Fener, Alfred, to N. Langer. Duplex heat sealing machine. 2,918,106, 12-22-59, Cl. 154-42.
- Fenerty, Michael J., to Aluminium Laboratories Ltd. Purification of alumina. 2,887,361, 5-19-59, Cl. 23-142.
- Fenestra, Inc.: *See*—  
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- Feng, I-Ming, to Ethyl Corp. Transparent cutting oil. 2,918,432, 12-22-59, Cl. 252-46.7.
- Fengler, Albert F.: *See*—  
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- Fenicchia, Stephen V. Gardening tool. 2,887,170, 5-19-59, Cl. 172-379.
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- Fenn, John B., to Experiment Inc. Sonic velocity submerged combustion burner. 2,878,644, 3-24-59, Cl. 60-39.57.
- Fennell, Alfred T. Car jacking device. 2,917,321, 12-15-59, Cl. 280-150.
- Fennell, Anthony A. Heat exchanger. 2,874,943, 2-24-59, Cl. 257-262.15.
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- Fenner, James M., to United States Steel Corp. Cord and article containing the same. 2,900,784, 8-25-59, Cl. 57-148.
- Fenner, James M., to United States Steel Corp. Six-wire strand. 2,900,785, 8-25-59, Cl. 57-153.
- Fenner, Robert M., and D. E. Hamilton. Tension adjustments for trampolins. 2,869,147, 1-20-59, Cl. 5-202.
- Fenske, Douglas H., to International Minerals & Chemical Corp. Flotation of mica from silt deposits. 2,885,078, 5-5-59, Cl. 209-166.
- Fenske, Douglas H., and R. T. Sorensen, to International Minerals & Chemical Corp. Method of segregating thorium compounds. 2,884,306, 4-28-59, Cl. 23-14.5.
- Fenske, Merrell R.: *See*—  
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- Fenske, Merrell R., and J. H. Jones, to Esso Research and Engineering Co. Oxidation of organic compounds. 2,872,472, 2-3-59, Cl. 260-451.
- Fenske, Merrell R., and R. H. Criswell, to Esso Research and Engineering Co. Heat transfer to beds of granular solids. 2,899,375, 8-11-59, Cl. 208-48.
- Fenske, Merrell R., and R. H. McCormick, to Esso Research and Engineering Co. Separation of aromatic hydrocarbons by solvent extraction followed by azeotropic distillation of the extract phase. 2,909,576, 10-20-59, Cl. 260-674.
- Fenster, Henry, to American Leone Mfg. Co. Electroplating on aluminum wire. 2,891,309, 6-23-59, Cl. 29-528.
- Fenston, William M. Anti-tilt vehicle axle drive. 2,894,594, 7-14-59, Cl. 180-82.
- Fentiman, Arthur E.: *See*—  
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- Fentiman, Arthur E., to F. Fentiman & Sons, Ltd. Vertical lift door. 2,874,422, 2-24-59, Cl. 20-19.
- Fentiman, Arthur E., to F. Fentiman & Sons, Ltd. Transmission mechanism selectable operable by either of two power sources. 2,874,959, 2-24-59, Cl. 268-59.
- Fentiman, Arthur E., to F. Fentiman & Sons, Ltd. Joint. 2,895,753, 7-21-59, Cl. 287-20.3.
- Fentiman, Arthur E., to C. F., A. E., and H. G. Fentiman, d.b.a. Triodetic Structures. Reinforced wall construction. 2,916,109, 12-8-59, Cl. 189-34.
- Fentiman, Clarence F.: *See*—  
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- Fentiman, F., & Sons, Ltd.: *See*—  
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- Fentiman, Harold G.: *See*—  
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- Fenton, Andrew F., and G. E. Kelly, to Radio Corp. of America. Phase shifting circuits for color television receiver. 2,881,245, 4-7-59, Cl. 178—5.4.
- Fenton, Edward N.: *See*—  
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- Fenton, Russell S. Collapsible doll house construction. 2,872,753, 2-10-59, Cl. 46—12.
- Fenwal Laboratories, Inc.: *See*—  
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- Fenway Machine Co., Inc.: *See*—  
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- Fenyo, Paul J. Mirror and adjustable support therefor. 2,880,651, 4-7-59, Cl. 88—97.
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- Ferchl, Helmuth, and A. Zittrell, to Zahnradfabrik Friedrichshafen. Mechanism for shifting gears in a gear transmission. 2,906,139, 9-29-59, Cl. 74—473.
- Ferdinand, Irwin J.: *See*—  
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- Ferdinand, Irwin J., and R. J. Bellon, to S. A. Hirsh Mfg. Co. Folding leg mechanism. 2,889,186, 6-2-59, Cl. 311—99.
- Ferdinand, Irwin J., and M. E. Handler, to S. A. Hirsh Mfg. Co. Shelf molding and sign. 2,895,241, 7-21-59, Cl. 40—16.
- Ferdmuhle Papier-Und Zellstoffwerke, A.G.: *See*—  
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- Ferguson, Rector C. to Allis-Chalmers Mfg. Co. Mower and lift linkage. 2,884,753, 5-5-59, Cl. 56—25.
- Ferguson, Rector C., to Allis-Chalmers Mfg. Co. Cotton stripping device for cotton harvesters. 2,901,876, 9-1-59, Cl. 56—42.
- Fergus, Edward S., to Robertshaw-Fulton Controls Co. Snap acting switch. 2,897,308, 7-28-59, Cl. 200—67.
- Fergus, John H., and A. W. Horton, to United States of America, Army. Flash and noise suppressor for high pressure gas exhausts. 2,900,875, 8-25-59, Cl. 89—14.
- Ferguson, Albert A.: *See*—  
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- Ferguson, D. C., 37½% to R. W. Rider and 25% to R. L. Windham. Ramp device. 2,900,094, 8-18-59, Cl. 214—85.
- Ferguson, Donald M., to United States of America, Air Force. High altitude balloon for meteorological use. 2,886,263, 5-12-59, Cl. 244—31.
- Ferguson, Edgar A., Jr., ½ to L. I. Arnberg. Electric locking arrangement. 2,882,455, 4-14-59, Cl. 317—135.
- Ferguson, Edgar A., Jr. Tactile indicators. 2,915,874, 12-8-59, Cl. 58—126.
- Ferguson, Eli K., Jr.: *See*—  
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- Ferguson Equipment Corp.: *See*—  
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- Ferguson Fumigants, Inc.: *See*—  
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- Ferguson, Harold M., and G. Mainwaring, to The General Electric Co. Ltd. Angle of approach indicators for aircraft landings. 2,913,702, 11-17-59, Cl. 340—26.
- Ferguson, Harold W., to The Stanley Works. Hydraulic door operators. 2,911,210, 11-3-59, Cl. 268—66.
- Ferguson, Harry D., Jr., to Philco Corp. Heaters. 2,870,316, 1-20-59, Cl. 219—37.
- Ferguson, Harry, of India Ltd.: *See*—  
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- Ferguson, Harry, Research Ltd.: *See*—  
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- Ferguson, Henry A., J. F. Ziskal, and J. A. Isaacson, to International Harvester Co. Tractor transmission and power take-off system. 2,913,064, 11-17-59, Cl. 180—53.
- Ferguson, Henry B.: *See*—  
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- Downey, Curtis L., Chartrey, Ferguson, and Grow. 2,885,667.
- Ferguson, J. L., Co.: *See*—  
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- Ferguson, James T. Drawer-type refrigerator device. 2,893,805, 7-7-59, Cl. 312—214.
- Ferguson, John H., and B. T. Wasdyke, to Bendix Aviation Corp. Electro mechanical actuator. 2,902,865, 9-8-59, Cl. 74—25.
- Ferguson, John H., Jr., to Bendix Aviation Corp. Air pressure regulating and shut-off valve. 2,918,929, 12-29-59, Cl. 137—18.
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- Ferguson, John M.: *See*—  
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- Ferguson, John S.: *See*—  
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- Ferguson, Joseph V., II, and W. S. Fire bale prevention. 2,892,396, 6-30-59, Cl. 100—35.
- Ferguson, Keith A.: *See*—  
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- Ferguson, Lachlan G., and J. C. Fowler, to Northrop Aircraft, Inc. Elevating dolly. 2,872,052, 2-3-59, Cl. 214—1.
- Ferguson, Lester R., to Kennedy-Van Saun Mfg. & Eng. Corp. Swing-jaw crushers. 2,899,246, 8-11-59, Cl. 308—237.
- Ferguson, Maurice P. to Symak Sales Co. Ltd. Convertible snow boot and over boot. 2,901,840, 9-1-59, Cl. 36—2.5.
- Ferguson, Oscar, Jr., to Owens-Illinois Glass Co. Article conveying and distributing apparatus. 2,909,267, 10-20-59, Cl. 198—31.
- Ferguson, Paul R., to The Stanley Works. Hydraulic door check. 2,890,474, 6-16-59, Cl. 16—55.
- Ferguson, Paul R., to The Stanley Works. Door connector. 2,893,764, 7-7-59, Cl. 287—53.
- Ferguson, Reed C., G. A., and E. K., Jr. Joint-sealing strip and method of manufacture. 2,915,110, 12-1-59, Cl. 154—33.1.
- Ferguson, Richard: *See*—  
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- Ferguson, Richard, to The Terrell Machine Co. Bobbin inspecting device. 2,868,372, 1-13-59, Cl. 209—72.
- Ferguson, Richard, to The Terrell Machine Co. Bobbin stripper. 2,907,091, 10-6-59, Cl. 28—20.
- Ferguson, Robert B.: *See*—  
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- Ferguson, Robert E. Router plane. 2,903,030, 9-8-59, Cl. 145—10.
- Ferguson, Robert S., to Muirhead & Co. Ltd. Protective apparatus for electro-sensitive paper recorders. 2,911,634, 11-3-59, Cl. 340—259.
- Ferguson, Syrl K., to United States of America, Army. Electronic message timing circuit. 2,880,320, 3-31-59, Cl. 250—27.
- Ferguson, Vernon E. Fire extinguishing release valve. 2,910,082, 10-27-59, Cl. 137—68.
- Ferguson, William, to National Airoil Burner Co., Inc. Burners for gaseous and heavy liquid fuels. 2,918,966, 12-29-59, Cl. 158—11.
- Ferguson, William S.: *See*—  
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- Ferm, Glenn O., to General Railway Signal Co. Motor car protection system for railroads. 2,905,810, 9-22-59, Cl. 246—63.
- Ferm, Glenn O., and M. A. Scheg, to General Railway Signal Co. Highway crossing signaling system having high sensitivity to train shunts. 2,914,663, 11-24-59, Cl. 246—130.
- Fermanian, Armen, to Sprague Electric Co. Transistor sub-assembly. 2,894,183, 7-7-59, Cl. 317—235.
- Fernández, Bernardino A. Private communication. 2,883,458, 4-21-59, Cl. 179—1.5.
- Fernandez, Carmel G. Self-propelled tandem wheeled carrier. 2,869,661, 1-20-59, Cl. 180—19.
- Fernandez, Frank C. Protective hood. 2,896,215, 7-28-59, Cl. 2—8.
- Fernandez, John J., ½ to J. S. Renard. Fluid pressure regulating valve. 2,899,975, 8-18-59, Cl. 137—543.17.
- Fernandez, Manuel G. Holding unit for an elastic tensioner. 2,907,289, 10-6-59, Cl. 112—2.
- Fernber, Eric B. Fastener structure. 2,893,096, 7-7-59, Cl. 24—265.
- Fernberg, Eric B., to F.T. Products Ltd. U-shaped spring metal fastener for snapping in an apertured plate. 2,909,819, 10-27-59, Cl. 24—73.
- Fernberg, Eric B., to F. T. Products Ltd. Fasteners. 2,918,712, 12-29-59, Cl. 24—73.
- Ferner, George W.: *See*—  
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Snyder, James E., and Ferner. 2,900,261.  
Snyder, James E., Ferner, and Collins. 2,888,350.
- Fernö, Ove B.: *See*—  
Diczfalusy, Egon R., Fernö, Fex, and Högborg. 2,904,562.
- Fernsten, Argyle L. and C. D., to The Noll Mfg. Co. Cap assembly. 2,890,642, 6-16-59, Cl. 98—46.
- Fernsten, Claude D.: *See*—  
Fernsten, Argyle L. and C. D. 2,890,642.
- Fernstrum, Frank O., to Marine Products Co. Sump pump. 2,875,697, 3-3-59, Cl. 103—103.
- Ferracuta Machine Co.: *See*—  
Bass, George E., and Martindell. 2,889,021.  
Martindell, Frank. 2,890,648.  
Martindell, Frank. 2,890,773.  
Martindell, Frank. 2,910,898.
- Ferraguti, Luigi. Control device for circular knitting machines. 2,868,002, 1-13-59, Cl. 66—14.
- Ferrand, Louis. Dissociable gaseous hydrocarbon anode for igneous electrolytic furnaces, particularly for aluminum-making. 2,900,319, 8-18-59, Cl. 204—284.
- Ferrand, Marcel. Method of manufacturing abrasive surfaces by electro formation and the products obtained thereby. 2,878,171, 3-17-59, Cl. 204—16.
- Ferrante, Vincent J.: *See*—  
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- Ferranti, Ltd.: *See*—  
 Barnes, Jeffery W., and Herring. 2,874,576.  
 Bindon, Douglas G., Carter, and Friedman. 2,880,406.  
 Brown, Kenneth R., and English. 2,909,075.  
 Gregson, William, and Turner. 2,900,600.  
 Richards, Stanley I. 2,915,358.  
 Scarrott, Gordon G., Harwood, and Johnson. 2,883,534.  
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 Shepherd, Alexander T., and Walker. 2,886,718.  
 Stewart, John. 2,910,678.  
 Williamson, David T. N., Shepherd, and Walker. 2,886,717.
- Ferrari, Fred. Eyebrow stencil. 2,917,058, 12-15-59, Cl. 132—88.5.
- Ferrara, Achille K., to Productive Equipment Co. Vibrating equipment. 2,902,868, 9-8-59, Cl. 74—87.
- Ferrara, John M.: *See*—  
 Chamot, Walter M., and Ferrara. 2,914,417.
- Ferrara, Peter B.: *See*—  
 Weingrad, Richard H., Ferrara, and Smith. 2,873,642.  
 Ferrara, Vincent. Filter sweep agitator. 2,880,874, 4-7-59, Cl. 210—272.
- Ferrari, Andres, Jr.: *See*—  
 Isreeli, Jack, and Ferrari. 2,893,324.  
 Whitehead, Edwin C., and Ferrari. 2,883,103.  
 Whitehead, Edwin C., and Ferrari. 2,899,280.
- Ferrari, Carlo: *See*—  
 De Ruggieri, Pietro, and Ferrari. 2,873,273.
- Ferrari, William A.: *See*—  
 Anderson, Orin M., and Ferrari. 2,868,398.
- Ferraris, John T., to Electrolux Corp. Pneumatic mechanism for rendering a vacuum cleaner inoperative if no bag is in place. 2,911,062, 11-3-59, Cl. 183—37.
- Ferraro, Thomas A., Jr. Method for the production of titanium. 2,874,040, 2-17-59, Cl. 75—84.5.
- Ferre, Fred L. Fastening device for installing lead liners to walls and the like. 2,894,463, 7-14-59, Cl. 109—82.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Directional neutron detector. 2,879,402, 3-24-59, Cl. 250—83.6.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Thermally insulated scintillation counter. 2,902,603, 9-1-59, Cl. 250—71.
- Ferre, Maurice C., to Schlumberger Well Surveying Corp. Pulse analyzer. 2,917,729, 12-15-59, Cl. 340—213.
- Ferre, Maurice C., N. A. Schuster, and F. F. Segesman, to Schlumberger Well Surveying Corp. Electrical resistivity well logging. 2,880,389, 3-31-59, Cl. 324—1.
- Ferreira, Fred R., to Morse-Starrett Products Co. Squeegee holding clamp. 2,905,959, 9-29-59, Cl. 15—245.
- Ferreira, Paul F. Spring suspension for vehicles. 2,911,208, 11-3-59, Cl. 267—17.
- Ferrel, Robert E., to United States of America, Agriculture. Procedure for preparing canned rice. 2,898,214, 8-4-59, Cl. 99—186.
- Ferrel, Ziba A.: *See*—  
 Black, Emerson W., and Ferrel. 2,897,776.
- Ferrell, William G., and R. R. Zindler, to Lambert Brake Corp. Bi-metallic housing construction for friction devices. 2,910,148, 10-27-59, Cl. 188—218.
- Ferrera, John. Extensible trailer. 2,898,143, 8-4-59, Cl. 296—23.
- Ferrera, John. Floor supporting means for expansible trailers. 2,898,144, 8-4-59, Cl. 296—23.
- Ferrera, John. Bay window construction for expansible trailers. 2,898,145, 8-4-59, Cl. 296—23.
- Ferrera, John. Expansible house trailer. 2,902,312, 9-1-59, Cl. 296—23.
- Ferri, Antonio, and G. Patron, to Sicedison S.p.A. Stabilization of the trichloroethylene and stabilizing product therefor. 2,887,516, 5-19-59, Cl. 260—652.5.
- Ferri, Antonio, P. A. Libby, and M. H. Bloom, to United States of America, Air Force. Water spray cooling method and apparatus for supersonic nozzle. 2,892,308, 6-30-59, Cl. 60—35.6.
- Ferri, Antonio, and G. Patron, to Sicedison S.p.A. Stabilization of the trichloroethylene and stabilizing product therefor. 2,906,782, 9-29-59, Cl. 260—652.5.
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- Ferri, Daniel O. Electric signal devices for weighing scales. 2,880,286, 3-31-59, Cl. 200—56.
- Ferrier, Peter. Clutches. 2,893,524, 7-7-59, Cl. 192—3.2.
- Ferris, Andrew K., and D. S. Miller. Automobile waste basket and support. 2,912,206, 11-10-59, Cl. 248—229.
- Ferris, Donald E. Method for producing hypochlorite of soda in an electronic cell. 2,873,236, 2-10-59, Cl. 204—95.
- Ferris, Ernest A.: *See*—  
 Troendly, Harry P., and Ferris. 2,912,086.  
 Troendly, Harry P., and Ferris. 2,916,124.
- Ferris, Ernest A., and B. A. Fulton, to Borg-Warner Corp. One-way clutch. 2,917,145, 12-15-59, Cl. 192—45.1.
- Ferris Instrument Co.: *See*—  
 Tyzzer, Howard J. 2,874,294.
- Ferris, James E.: *See*—  
 Michatek, Stephen F., Hughey, and Ferris. 2,908,208.
- Ferris, Richard D., to The Allbright-Nell Co. Cutter assembly for meat grinders. 2,914,103, 11-24-59, Cl. 146—182.
- Ferris, Robert G., to Starline, Inc. Parlor stall arrangement for milking and feeding cattle. 2,904,001, 9-15-59, Cl. 119—14.03.
- Ferris, Robert G., to Starline, Inc. Parlor stall for milking and feeding cattle. 2,904,002, 9-15-59, Cl. 119—27.
- Ferris, Seymour W.: *See*—  
 Harvey, Wildon T., and Ferris. 2,906,443.
- Ferris, Seymour W., to Sun Oil Co. Process for the recovery of solids from liquids by means of endless belt absorption. 2,904,495, 9-15-59, Cl. 208—26.
- Ferriss, Frederick, and J. R. Gainfort; said Gainfort assor. of 2.5% to R. Francioni, 2.5% to F. L. Pinola, 2.5% to G. Gasparini, and 2.5% to W. Brosch. Garbage, trash and sludge disposal. 2,879,726, 3-31-59, Cl. 110—7.
- Ferriss, Frederick, and J. R. Gainfort; said Gainfort assor. of 3.75% each to F. L. Pinola, W. Brosch, G. Gasparini, and the estate of R. Francioni, deceased. Garbage, trash and sludge disposal. 2,882,841, 4-21-59, Cl. 110—8.
- Ferro Chemical Corp.: *See*—  
 Hansen, Floyd R., and Zaremsky. 2,867,594.
- Ferro Corp.: *See*—  
 Elliott, Stanley B. 2,918,451.  
 Fuchsman, Charles H., Charnas, and Elliott. 2,905,554.  
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 Kruse, Marvin A. 2,890,318.  
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 Kupchinsky, Leonard, and Layne. 2,897,571.  
 Ross, Edward J. 2,899,663.  
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- Ferro Stamping Co.: *See*—  
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- Ferros Metals Research Co. Ltd.: *See*—  
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- Ferrotherm Co.: *See*—  
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- Ferstandig, Louis L., to California Research Corp. Separation of isomeric xylene diamines. 2,884,457, 4-28-59, Cl. 260—570.9.
- Fertier, Raymond: *See*—  
 Faugier, Gabriel, and Fertier. 2,896,912.
- Ferwerda, Koop: *See*—  
 McKay, Edwin L. 2,887,869.
- Ferwerda, Ray: *See*—  
 McKay, Edwin L. 2,887,869.
- Fesperman, James L., and R. F. Hackney, to Cabin Crafts, Inc. Rug wear testing machine. 2,895,326, 7-21-59, Cl. 73—7.
- Fess, Emil, and B. Nitschke, to Alderwerke vorm. Heinrich Kleyer Akt. Mechanism for varying the stroke of the keys of power-operated typewriters. 2,886,158, 5-12-59, Cl. 197—17.
- Fether, Donald W. Perforated pipe structure. 2,872,984, 2-10-59, Cl. 166—235.
- Fetko, Paul. Garment hanger. 2,881,965, 4-14-59, Cl. 223—94.
- Fetterly, Lloyd C., to Shell Development Co. Catalytic process for producing diarylmethanes. 2,879,312, 3-24-59, Cl. 260—668.
- Fetterly, Lloyd C., to Shell Development Co. Production of aromatic hydrocarbons. 2,897,245, 7-28-59, Cl. 260—668.
- Fetterman, Jay V., to Air Products Inc. Separation of gaseous mixtures. 2,881,595, 4-14-59, Cl. 62—13.
- Fetterolf, Luther D., to The New Jersey Zinc Co. Production of finely-divided silicon dioxide. 2,912,342, 11-10-59, Cl. 106—288.
- Fettes, Edward M.: *See*—  
 Nevers, Ashley D., and Fettes. 2,869,994.
- Fettes, Edward M., and E. R. Bertozzi, to Thiokol Chemical Corp. Production of polysulfide polymers. 2,875,182, 2-24-59, Cl. 260—79.
- Feucht, Jacob E., to Cleveland Rock Drill Division, Westinghouse Air Brake Co. Power actuated pin puller. 2,874,933, 2-24-59, Cl. 254—18.
- Feucht, Jacob E., to Westinghouse Air Brake Co. Handle for pneumatic tools. 2,882,927, 4-21-59, Cl. 137—560.
- Feuer, Henry, and J. W. Shepherd, to Purdue Research Foundation. Production of the dipotassium salt of a dinitrocyclic ketone. 2,868,838, 1-13-59, Cl. 260—586.
- Feuer, Henry, and J. W. Shepherd, to Purdue Research Foundation. Production of benzonitrocyclic ketones. 2,898,376, 8-4-59, Cl. 260—590.
- Feuerborn, Fritz. Interlay for plywood sheets used for doors, and the like. 2,889,594, 6-9-59, Cl. 20—91.
- Feuge, Reuben O.: *See*—  
 Ault, Waldo C., and Feuge. 2,895,966.
- Feuge, Reuben O., and T. L. Ward, to United States of America, Agriculture. Process for making fatty acid diglyceride, diesters of dibasic acids. 2,874,175, 2-17-59, Cl. 260—404.8.
- Feurer, Max: *See*—  
 Becker, Alfred, and Feuer. 2,887,489.  
 Schwyzer, Robert, Iselin, and Feuer. 2,912,427.
- Feurich, Werner, to VEB Maschinenbau Jonsdorf. Pressure platen means for a belt polishing or grinding machine. 2,904,937, 9-22-59, Cl. 51—141.
- Feustel, Ernest A. Combined yarn carrier and tension device. 2,880,601, 4-7-59, Cl. 66—126.



- Fevig, Glen A., J. W. Greiner, and K. W. Riebe, to The Upjohn Co. Counter current extraction process of sterols. 2,905,677, 9-22-59, Cl. 260—397.25.
- Fevre, Charles M., to Societe des Forges et Ateliers du Creusot. Low-head vertical-shaft hydro-electric set. 2,897,375, 7-28-59, Cl. 290—92.
- Few, William : *See—*  
Sauter, John D., and Few. 2,884,580.
- Few, William, to Penn Controls, Inc. Float linkage for air charger. 2,918,932, 12-29-59, Cl. 137—211.
- Fewster, James, to Fewsters (Stocksfield) Ltd. Tipping carrier for attachment to a tractor or similar vehicle. 2,898,148, 8-4-59, Cl. 298—17.
- Fewsters (Stocksfield) Ltd. : *See—*  
Fewster, James. 2,898,148.
- Fex, Hans J. : *See—*  
Diczfalusy, Egon R., Fernö, Fex, and Högborg. 2,904,562.
- Feyzeau, Andre L. A., to Societe Nouvelle de l'Outilsage R. B. V. et de la Radio-Industrie (R. B. V.-R. I.). Distant synchronisation of television equipment. 2,890,280, 6-9-59, Cl. 178—69.5.
- Fialkoff, Samuel, to Camin Laboratories, Inc. Electroforming system. 2,879,209, 3-24-59, Cl. 204—9.
- Fialkoff, Samuel, to Camin Laboratories, Inc. Method of making hollow body of non-uniform wall thickness. 2,889,258, 6-2-59, Cl. 204—9.
- Fiani, Peter, to Dow Corning Corp. Method of polymerizing hydroxylated siloxanes. 2,902,468, 9-1-59, Cl. 260—46.5.
- Fiat Metal Mfg. Co. : *See—*  
Kuehl, Thomas J. 2,904,824.
- Fiat Societa per Azioni : *See—*  
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- Fiber Bond Corp. : *See—*  
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- Fiber Controls Corp. : *See—*  
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- Fibercraft Products, Inc. : *See—*  
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- Fiberfil Corp. : *See—*  
Bradt, Rexford. 2,877,501.
- Fibikar, Robert J., to Gisholt Machine Co. Unbalance tolerance limit inspection machine. 2,891,241, 6-16-59, Cl. 340—261.
- Fibreboard Paper Products Corp. : *See—*  
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Hoopes, Harry P., Weber, and Neal. 2,904,444.  
Hoopes, Harry P., and Riesenberg. 2,900,109.  
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Marander, Myron P., Gschwend, and Smith. 2,869,722.  
Wagaman, Merle L. 2,889,102.  
Wagaman, Merle L. 2,894,674.  
Wilcox, William H. 2,869,439.
- Fibre-Metal Products Co., The : *See—*  
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- Fibrofelt Corp. : *See—*  
Clark, James d'A. 2,881,072.  
Clark, James d'A. 2,890,493.
- Ficarella, Leo A. Combination storage cabinet and drafting board. 2,897,030, 7-28-59, Cl. 311—16.5.
- Fichet, Edouard : *See—*  
Bo, Gilbert M. M., Fournet, Phelisse, and Fichet. 2,884,409.
- Ficht, Karl H. R., to Special Engineering Service, Inc. Flattening device for coiled strip. 2,887,147, 5-19-59, Cl. 153—85.
- Fichtel & Sachs A.G. : *See—*  
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Binder, Richard. 2,891,640.  
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Von Bomhard, Franz J. 2,918,545.  
Von Bomhard, Franz J., and Fädler. 2,901,073.
- Ficichy, James. Hair curling device. 2,874,706, 2-24-59, Cl. 132—42.
- Fiddler, Theodore E., to National Lock Co. Leg equalizers for appliances and the like. 2,890,545, 6-16-59, Cl. 45—139.
- Fidelity Instrument Corp. : *See—*  
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- Fidelity Machine Co., Inc. : *See—*  
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- Fidelity Philadelphia Trust Co., The : *See—*  
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- Fidelity Union Trust Co. : *See—*  
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Guenthard, Jacques, and Peter. 2,894,800.  
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Locher, Arthur, and Durst. 2,884,332.  
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Senn, Otto. 2,870,135.  
Stoll, Arthur, Jucker, and Lindenmann. 2,883,387.  
Thummel, Ludwig, and Aeberhardt. 2,869,968.  
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- Fidelman, Paul H., 80/100 to N. M. Markowitz, 6/100 to B. Gordon, 5/100 to H. W. Gordon, and 3/100 to L. Bannister. Cutting device. 2,882,598, 4-21-59, Cl. 30—294.
- Fiden, William H. : *See—*  
Miller, Burton F., and Fiden. 2,893,810.
- Fidler, Delmer A., to Olin Mathieson Chemical Corp. Process for preparing para-fluoroaniline. 2,884,458, 4-28-59, Cl. 260—580.
- Fidler, Robert E., to Thompson Products, Inc. Straddle mounted radius rod. 2,877,032, 3-10-59, Cl. 287—90.
- Fiechter, Jean J. Watch case. 2,909,893, 10-27-59, Cl. 58—90.
- Fiedler, George A. : *See—*  
Knighton, Daniel J., Haser, and Fiedler. 2,874,921.
- Fiedler, Herbert : *See—*  
Berg, Alex, and Fiedler. 2,886,488.
- Fiedler, Jack, and G. Reiner. Hook feeding apparatus. 2,893,338, 7-7-59, Cl. 112—219.
- Fiedler, Walter H. Curtain hanging device. 2,896,900, 7-28-59, Cl. 248—262.
- Fiedler, William S., to Bjorksten Research Laboratories, Inc. Method for preparing a catalytic metal foam and use thereof. 2,895,819, 7-21-59, Cl. 75—20.
- Fiedler, Willy A., to United States of America, Navy. Jet deflector. 2,903,851, 9-15-59, Cl. 60—35.54.
- Fiehl, Michael, to International Business Machines Corp. Record card handling device. 2,898,104, 8-4-59, Cl. 271—61.
- Fiehl, Michael, to International Business Machines Corp. Card weight. 2,919,130, 12-29-59, Cl. 271—44.
- Field, Boris, to General Electric Co. High frequency compensating matrix network. 2,880,319, 3-31-59, Cl. 250—27.
- Field, Edmund : *See—*  
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Juveland, Omar O., Friedlander, and Field. 2,915,516.  
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- Field, Everett J., to I-T-E Circuit Breaker Co. Electromagnet with special force displacement characteristics. 2,905,872, 9-22-59, Cl. 317—199.
- Field, Harold P., and J. A. Krumhansl, to General Dynamics Corp. Multiplex communication system. 2,872,520, 2-3-59, Cl. 179—15.
- Field, Herbert A. : *See—*  
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- Field, James H., to United States of America, Navy. Lens iris adjustment means for a camera or the like. 2,890,641, 6-16-59, Cl. 95—64.
- Field, Joseph H. : *See—*  
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- Field, Lester M. : *See—*  
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Birdsall, Charles K., and Field. 2,896,117.
- Field, Lester M., to Sperry Rand Corp. Electron discharge tube with means for trapping positive ions. 2,913,611, 11-17-59, Cl. 313—76.
- Field, Robert S. : *See—*  
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- Field, Sydney J., to Ozonair Engineering Co. Ltd. Self-cleaning filters. 2,878,892, 3-24-59, Cl. 183—76.
- Fieldcrest Mills, Inc. : *See—*  
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Mills, Edwin R. 2,903,548.
- Fielden Electronics Ltd. : *See—*  
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- Fielden, John E., to Fielden Electronics Ltd. Motion transducing servosystem. 2,905,875, 9-22-59, Cl. 318—31.
- Fielden, Marvel L. : *See—*  
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- Fielding, C. Stuart : *See—*  
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- Fielding, Francis W., to Lengsfeld Brothers, Inc. Article carrier. Re. 24,667, 7-14-59, Cl. 206—65.
- Fielding, Ralph H., Jr., to Valley Engineering Corp. Vibration detecting instrument. 2,892,034, 6-23-59, Cl. 179—1.
- Fields, Arnold C., to Westinghouse Electric Corp. Gas filter mats. 2,869,680, 1-20-59, Cl. 183—62.
- Fields, Chris J. Perspective drafting machine. 2,895,223, 7-21-59, Cl. 33—77.
- Fields, Ellis K. : *See—*  
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Scanley, Clyde S., and Fields. 2,897,153.
- Fields, Ellis K., to Standard Oil Co. Thiophosphoryl derivatives of hexachlorocyclopentadiene-unsaturated alcohol adducts. 2,881,196, 4-7-59, Cl. 260—429.9.
- Fields, Ellis K., to Standard Oil Co. Lubricant compositions. 2,885,361, 5-5-59, Cl. 252—32.7.
- Fields, Ellis K., to Standard Oil Co. Lubricant composition having non-rusting and detergency properties. 2,893,959, 7-7-59, Cl. 252—32.7.
- Fields, Ellis K., to Standard Oil Co. Phosphorus sulfide derivatives of hexachlorocyclopentadiene-unsaturated alcohol adducts. 2,900,377, 8-18-59, Cl. 260—139.
- Fields, Ellis K., to Standard Oil Co. Trithiones. 2,905,696, 9-22-59, Cl. 260—32.7.
- Fields, Ellis K., to Standard Oil Co. Corrosion inhibited compositions. 2,910,439, 10-27-59, Cl. 252—46.7.



- Fields, Ellis K., and A. E. Brehm, to Standard Oil Co. Odorless solvent naphtha composition of improved corrosivity to copper. 2,888,405, 5-26-59, Cl. 252-392.
- Fields, Ellis K., and A. E. Brehm, to Standard Oil Co. Additive for leaded gasoline. 2,901,335, 8-25-59, Cl. 44-69.
- Fields, George C., to Philco Corp. Clothes washing machine. 2,871,689, 2-3-59, Cl. 68-131.
- Fields, George C., to Philco Corp. Clothes washing machine having a wobble-type agitator. 2,902,851, 9-8-59, Cl. 68-131.
- Fields, George C., to Philco Corp. Clothes washing machines. 2,902,852, 9-8-59, Cl. 68-131.
- Fields, Joseph E.: *See*—
- Johnson, John H., and Fields. 2,892,736.
- Kosmin, Milton, and Fields. 2,883,287.
- Fields, Joseph E., to Monsanto Chemical Co. Non-foaming functional fluids. 2,909,489, 10-20-59, Cl. 252-78.
- Fields, Lester E., and M. E. Willdorf, to Hy-Sil Mfg. Co. Wire feeder mechanism. 2,914,643, 11-24-59, Cl. 219-19.
- Fields, Mack R. Means for sealing a bottle or the like. 2,888,159, 5-26-59, Cl. 215-43.
- Fields, Melvin: *See*—
- Coker, James N., Fields, and Rogers. 2,889,332.
- Coker, James N., Fields, and Rogers. 2,889,333.
- Coker, James N., Fields, and Rogers. 2,893,997.
- Fields, Paul R.: *See*—
- Dawson, Lyle R., and Fields. 2,907,628.
- Fields, Roger Q.: *See*—
- Lebourg, Maurice P., and Fields. 2,903,069.
- Fields, Roger Q., to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 2,903,071, 9-8-59, Cl. 166-100.
- Fieldsteel, Arnold H., to Allied Laboratories, Inc. Process for the attenuation of infectious canine hepatitis virus and a vaccine prepared therefrom. 2,915,436, 12-1-59, Cl. 167-78.
- Fierce, William L.: *See*—
- Sandner, Walter J., and Fierce. 2,885,353.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Process for preparing aliphatic nitriles. 2,883,413, 4-21-59, Cl. 260-465.1.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Preparation of cyanogen. 2,884,308, 4-28-59, Cl. 23-151.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Process for removing mercaptan sulfur with an organic phosphite. 2,899,386, 8-11-59, Cl. 208-237.
- Fierce, William L., and W. J. Sandner, to The Pure Oil Co. Process for preventing corrosion during distillation by adding an organic phosphite. 2,899,387, 8-11-59, Cl. 208-348.
- Fiero, Carl D., and J. H. Moran, Jr., to Lapp Insulator Co., Inc. Electrical insulators. 2,884,479, 4-28-59, Cl. 174-211.
- Fiero, George W.: *See*—
- Nelson, Franklin C., and Fiero. 2,898,263.
- Fieroh, William R. Plastic heat-sealing apparatus. 2,893,468, 7-7-59, Cl. 154-42.
- Fierro Esponja SA: *See*—
- Celada, Juan. 2,900,247.
- Fiesta Foods Corp.: *See*—
- Kunce, Basil H., Long, and Olson. 2,916,378.
- Fife, Irwin L. Turn guiding apparatus for webs. 2,904,333, 9-15-59, Cl. 271-2.6.
- Fife, Robert J., to S. A. Young. Bath drain plug guide. 2,871,487, 2-3-59, Cl. 4-199.
- Figaretti, Michael J. Storage and display box with lid support therefor. 2,899,095, 8-11-59, Cl. 217-61.
- Figdor, Sanford K., and G. D. Laubach, to Chas. Pfizer & Co., Inc. Water-soluble ionic esters of pregnanolones. 2,883,323, 4-21-59, Cl. 167-52.
- Figman, Murray. Illuminating fluorescent house number fixture. 2,893,148, 7-7-59, Cl. 40-132.
- Fihe, Albert J. Folding sectional table. 2,901,304, 8-25-59, Cl. 311-92.
- Fike, Floyd M. Leaf spring re-arching tool. 2,910,108, 10-27-59, Cl. 153-38.
- Fike, Harold L., to International Minerals & Chemical Corp. Purification of glutamic acid enantiomorphs. 2,882,302, 4-14-59, Cl. 260-534.
- Fike, Harry S. Utility hand truck. 2,917,193, 12-15-59, Cl. 214-372.
- Fike, Russell R., to Borg-Warner Corp. Method of making pump bushings and the like. 2,885,532, 5-5-59, Cl. 219-107.
- Fike, Russell R., to Borg-Warner Corp. Composite bonded article. 2,916,337, 12-8-59, Cl. 308-237.
- Fike, Russell R., and A. J. Pilous, to Borg-Warner Corp. Composite metal articles. 2,887,766, 5-26-59, Cl. 29-183.5.
- Fike, Russell R., and A. J. Pilous, to Borg-Warner Corp. Babbitt-bronze-aluminum bonding process. 2,911,708, 11-10-59, Cl. 29-149.5.
- Fikenscher, Friedrich, to L. & C. Steinmuller G.m.b.H. Rotating regenerative air preheater for excessive air heating. 2,913,228, 11-17-59, Cl. 257-267.
- Fikentscher, Hans, and R. Fricker, to Badische Anilin- & Soda-Fabrik Akt. Production of poly-N vinylcarbazole. 2,877,216, 3-10-59, Cl. 260-88.3.
- Fikse, Tynan H. Vehicle suspension system. 2,901,240, 8-25-59, Cl. 267-11.
- Fikse, Tynan H. Suspension system for automotive vehicles. 2,905,459, 9-22-59, Cl. 267-15.
- Filachione, Edward M.: *See*—
- Fein, Martin L., and Filachione. 2,880,053.
- Wells, Percy A., Filachione, and Fein. 2,886,401.
- Filachione, Edward M., and E. H. Harris, Jr., to United States of America, Agriculture. Tanning with epoxy resins. 2,869,970, 1-20-59, Cl. 8-94.33.
- Filberich, Ludwig, D. v. Haebler, and H. Nagorsen, to Siemens-Schuckertwerke Akt. Semiconductor junction-type rectifier systems. 2,895,100, 7-14-59, Cl. 321-11.
- Filbey, Allen H., to Ethyl Corp. Method for preparing 3,3', 5,5'-tetraalkyl-4,4'-diphenylquinones. 2,905,674, 9-22-59, Cl. 260-396.
- Filbey, Allen H., and L. R. Buzbee, to Ethyl Corp. Process for obtaining sec-N-aryl-beta-haloalkylamines. 2,892,871, 6-30-59, Cl. 260-577.
- Filbey, Allen H., and T. H. Coffield, to Ethyl Corp. 3,3'-diisopropyl-5,5'-di-tert-butyl-4,4'-dihydroxydiphenyl, its preparation and use. 2,900,417, 8-18-59, Cl. 260-620.
- Filbey, Emery T.: *See*—
- Niven, Charles F., Jr., Deibel, and Wilson. 2,907,661.
- Pircon, Ladislav J. 2,896,054.
- Filer & Stowell Co., The: *See*—
- Shaw, Ernest C., Frank, and Jackson. 2,893,452.
- Filicky, Joseph G.: *See*—
- Hassler, John W., Westley, and Filicky. 2,894,914.
- Filipowsky, Richard F. J., to Companhia Portuguesa Radio Marconi, S. A. R. L. Dynamic memory device using electrical pulses. 2,870,432, 1-20-59, Cl. 340-173.
- Filipowsky, Richard F. J., to Companhia Portuguesa Radio Marconi, S. A. R. L. Electric multichannel pulse communication system operating in time division. 2,879,336, 3-24-59, Cl. 179-15.
- Filko, John. Contact assembly locking means. 2,868,903, 1-13-59, Cl. 200-30.
- Fillauer, George W., Sr.: *See*—
- Thomsen, Wilhelm. 2,893,394.
- Fillebrown, Stephen M.: *See*—
- Bensky, Lowell S., and Fillebrown. 2,880,934.
- Booth, Grant W., Hobbs, and Fillebrown. 2,911,624.
- Sublette, Ivan H., Beard, Bensky, Hobbs, and Fillebrown. 2,877,446.
- Fillebrown, Stephen M., and G. W. Booth, to Radio Corp. of America. Multiple character comparator. 2,884,616, 4-28-59, Cl. 340-149.
- Filler, Edward Z., and J. J. Kelter. Single-use toothbrush. 2,893,036, 7-7-59, Cl. 15-176.
- Fillingame, John E., to National Geographic Society. Photographic reproduction apparatus. 2,867,150, 1-6-59, Cl. 88-24.
- Filinger, Charles, to Herr Mfg. Co., Inc. Spinning rings. 2,871,651, 2-3-59, Cl. 57-120.
- Filliug, Jacques J., to Sloan Valve Co. Shower heads. 2,890,835, 6-16-59, Cl. 239-109.
- Fillmore, William E., to Owens-Illinois Glass Co. Dispensing container. 2,903,159, 9-8-59, Cl. 221-264.
- Filmer, James C.: *See*—
- Schmidt, Robert C., and Filmer. 2,888,591.
- Filotecnica Salmoiraghi S.p.A.: *See*—
- Bruscaioni, Raffaello. 2,890,616.
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- Filper Corp.: *See*—
- Perrelli, Joseph. 2,880,774.
- Filsinger, Elmer J., to Gladding, McBean & Co. Tile molding for sink and drainboard construction. 2,892,337, 6-30-59, Cl. 72-5.
- Filsinger, Jamieson A., and P. N. Braun, to Textile Marking Machine Co., Inc. Machine for affixing identification tags. 2,895,388, 7-21-59, Cl. 93-88.
- Filsinger, Jamieson A., and P. N. Braun; said Filsinger assor. to said Braun. Apparatus for heat sealing identification tags to garments and the like. 2,914,208, 11-24-59, Cl. 216-29.
- Filstrup, Edward C., to Olin Mathieson Chemical Corp. Insulated couplings for high pressure fluid lines. 2,918,312, 12-22-59, Cl. 285-50.
- Filters, Inc.: *See*—
- Molyneux, Cecil P. 2,916,584.
- Finally, John M., and E. H. H. Graf, to Detroit Broach & Machine Co. Means for reciprocating elements of machine tools and the like. 2,902,875, 9-8-59, Cl. 74-409.
- Finan, Edward J. Apparatus for maintaining windshields free of ice and snow. 2,916,326, 12-8-59, Cl. 296-91.
- Finazzo, Joseph. Safety lock valve for fuel lines. 2,881,789, 4-14-59, Cl. 137-354.
- Finberg, Harry. Photographic projection easel. 2,915,941, 12-8-59, Cl. 88-24.
- Fincas e Industrias Tiribi Ltda.: *See*—
- Stone, Roger T. 2,908,442.
- Finch, Dan. Thermostatic switch. 2,897,318, 7-28-59, Cl. 200-122.
- Finch, Harry D.: *See*—
- Hearne, George W., La France, and Finch. 2,887,498.
- Finch, Thomas E., to General Electric Co. Temperature controlled soldering iron. 2,897,335, 7-28-59, Cl. 219-26.
- Finch, Walter G.: *See*—
- Crosswhite, Henry M., Jr., and Fastie. 2,914,987.
- Finckenor, Lawrence E.: *See*—
- Gould, David H., Reimann, and Finckenor. 2,894,963.
- Findlay, Jacquelyn M. Apparatus for pumping liquid metal. 2,915,973, 12-8-59, Cl. 103-1.
- Findlay, Robert A., to Phillips Petroleum Co. Continuous gas absorption process and apparatus. 2,869,672, 1-20-59, Cl. 183-2.



- Findlay, Robert A., to Phillips Petroleum Co. Pebble heater apparatus and process. 2,881,134, 4-7-59, Cl. 208—165.
- Findlay, Robert A., to Phillips Petroleum Co. Process for producing high octane motor fuels. 2,890,995, 6-16-59, Cl. 208—65.
- Findlay, Robert A., to Phillips Petroleum Co. Separation by crystallization. 2,895,835, 7-21-59, Cl. 99—199.
- Findlay, Robert A., to Phillips Petroleum Co. Crystal purification apparatus. 2,898,271, 8-4-59, Cl. 196—145.
- Findlay, Robert A., to Phillips Petroleum Co. Manufacture of low odor solvents. 2,899,377, 8-11-59, Cl. 208—62.
- Findlay, Robert A., to Phillips Petroleum Co. Process for producing high octane motor fuels. 2,904,498, 9-15-59, Cl. 208—49.
- Findlay, Robert A., to Phillips Petroleum Co. Distillation method and apparatus. 2,905,596, 9-22-59, Cl. 202—40.
- Findlay, Robert A., to Phillips Petroleum Co. Continuous process for preparing halogenated polymers. 2,918,419, 12-22-59, Cl. 204—163.
- Findler, Arthur: *See—*  
Aibel, Frederic L. 2,878,661.
- Findley, Thomas W.: *See—*  
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- Findley, Thomas W., to Swift & Co. Epoxy fatty hydrazides and process of preparing the same. 2,892,848, 6-30-59, Cl. 260—348.
- Fine, Harry, Color television systems. 2,903,505, 9-8-59, Cl. 178—52.
- Fine, James A.: *See—*  
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- Fine, Leon, & Associates: *See—*  
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- Fine, Norman, to Colgate-Palmolive Co. Pressurized shaving cream compositions. 2,908,650, 10-13-59, Cl. 252—90.
- Fine Organics Inc.: *See—*  
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- Fine, Samuel: *See—*  
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Hendee, Charles F., and Fine. 2,881,328.  
Hendee, Charles F., and Fine. 2,882,418.  
Hendee, Charles F., Fine, and Brown. 2,881,325.
- Finegan, James C., to J. A. Brewer. Spat-type protector. 2,872,745, 2-10-59, Cl. 36—2.
- Finehout, Lyman J., K. L. Ebershoff, and J. H. Overman, to P. R. Mallory & Co. Inc. Intermittent driving mechanism. 2,868,026, 1-13-59, Cl. 74—125.
- Finelli, Anthony F., and N. V. Seeger, to The Goodyear Tire & Rubber Co. Catalyst. 2,888,437, 5-26-59, Cl. 260—75.
- Fineman, Manuel N., and C. G. Gebelein, to Rohm & Haas Co. Liquid detergent composition. 2,913,416, 11-17-59, Cl. 252—109.
- Finestone, Arnold B., to Westinghouse Electric Corp. Catalysts for glycidyl polyethers and products produced thereby. 2,871,222, 1-27-59, Cl. 260—47.
- Fingerhood, Stanford A.: *See—*  
Tribken, Everett R., and Fingerhood. 2,870,979.
- Fingerhut, Rudolph,  $\frac{1}{2}$  to Jacques A. Davis, Inc. Gang-type closure for storage batteries. 2,881,239, 4-7-59, Cl. 136—170.
- Finholt, Robert W.: *See—*  
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- Finigan, Charles M.: *See—*  
Rush, Ian C., and Finigan. 2,886,613.
- Finigan, Charles M., and J. P. Spehar, to Polymer Corp. Ltd. Anti-foam agents in separation of olefines from solvent. 2,884,474, 4-28-59, Cl. 260—6815.
- Fink, Aaron, to Essex Paper Box Mfg. Co., Inc. Method of constructing a wall and plastic window assembly. 2,878,524, 3-24-59, Cl. 18—59.
- Fink, Heinrich, to SKF Kugellagerfabriken G. m. b. H. Mounting for a spindle base of a spinning and twisting spindle in a textile machine. 2,872,774, 2-10-59, Cl. 57—129.
- Fink, Heinrich, to SKF Kugellagerfabriken G.m.b.H. Spindle drive for a spinning and twisting machine. 2,896,395, 7-28-59, Cl. 57—102.
- Fink, Herbert H., to The B. F. Goodrich Co. Conveyor belt for tobacco handling. 2,880,128, 3-31-59, Cl. 154—524.
- Fink, Herbert H., to The B. F. Goodrich Co. Method and apparatus for making cable reinforced conveyor belts. 2,893,466, 7-7-59, Cl. 154—4.
- Fink, Israel J., and E. D. Price; said Price assor. to said Fink. Automatic drill changer for chucks. 2,883,890, 4-28-59, Cl. 77—327.
- Fink, James E., to Allis-Chalmers Mfg. Co. Screening device. 2,914,175, 11-24-59, Cl. 209—269.
- Fink, Jean: *See—*  
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Gibbs, Thomas B., and Fink. 2,911,915.
- Fink, Lauretta. Game device. 2,871,018, 1-27-59, Cl. 273—1.
- Fink, Leroy E., to Electric Steel Foundry Co. Method for overcoming embrittlement of steel alloys. 2,867,533, 6-30-59, Cl. 75—130.5.
- Fink, Leroy E., and R. W. de Weese, to Electric Steel Foundry Co. Stainless steel alloy and method of forming. 2,889,223, 6-2-59, Cl. 75—130.5.
- Fink, Leroy M., to The Babcock & Wilcox Co. Radiant steam generating unit with tubular furnace division wall sections spaced apart to form a gap aligned with the hopper bottom throat. 2,918,910, 12-29-59, Cl. 122—478.
- Fink, Lyman R., and E. O. Peterson, to General Electric Co. Combination television cabinet and picture tube mounting. 2,884,626, 4-28-59, Cl. 340—367.
- Fink, Milton: *See—*  
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- Fink, Raymond E., to The New Haven Board and Carton Co. Packages of cylindrical articles. 2,912,104, 11-10-59, Cl. 208—65.
- Fink, Robert R., to Kawneer Co. Store front construction. 2,882,562, 4-21-59, Cl. 20—56.4.
- Fink, Trevor: *See—*  
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Green, Thomas A., Gorrie, Shannon, and Fink. 2,885,536.
- Finkbeiner, Ernest, to Mid-West Coil and Transformer Corp. Intercommunication unit. 2,889,401, 6-2-59, Cl. 179—1.
- Finkbeiner, Herman L., Jr.: *See—*  
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Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,400.  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,401.
- Finke, Arthur A.: *See—*  
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- Finke, Harry F.: *See—*  
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- Finke, Walter A.: *See—*  
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- Finkel Umbrella Frame Co., Inc., The: *See—*  
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- Finkelstein, Harry. Portable press extractor. 2,892,397, 6-30-59, Cl. 100—100.
- Finkelstein, Morris B., to Radio Corp. of America. Deflection systems. 2,886,740, 5-12-59, Cl. 315—27.
- Finkelstein, Morris B., to Radio Corp. of America. Transistor deflection system for television receivers. 2,913,625, 11-17-59, Cl. 315—27.
- Finken, Walter S.: *See—*  
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- Finken, Walter S., to L. P. Frieder. Headgear with stabilizing crown rigging. 2,866,977, 1-6-59, Cl. 2—3.
- Finken, Walter S., to Frieder, Leonard P. Oxygen mask. 2,868,195, 1-13-59, Cl. 128—141.
- Finken, Walter S., to L. P. Frieder. Microphone support. 2,879,343, 3-24-59, Cl. 179—156.
- Finken, Walter S., to General Textile Mills, Inc. Readily releasable parachute harness buckle. 2,884,676, 5-5-59, Cl. 24—171.
- Finken, Walter S., to Gentex Corp. Evacuation litter. 2,899,692, 8-18-59, Cl. 5—82.
- Finken, Walter S., and J. A. Alleo, to L. P. Frieder. Close-fitting helmet. 2,871,484, 2-3-59, Cl. 2—195.
- Finken, Walter S., and J. A. Alleo, to L. P. Frieder. Sound attenuator helmet. 2,893,011, 7-7-59, Cl. 2—3.
- Finken, Walter S., and H. K. Robinson, to Gentex Corp. Unitary ballistic fabric. 2,899,987, 8-18-59, Cl. 139—408.
- Finken, Walter S., and J. A. Alleo, to L. P. Frieder. Eye shield. 2,903,700, 9-15-59, Cl. 2—10.
- Finkle, Lewis C.: *See—*  
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- Finlay, Alexander, Jr.: *See—*  
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- Finlay, Dorothy L.: *See—*  
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Smith, Ralph D., Swan, and Finlay. 2,871,678.
- Finlayson, Claude M., and J. W. Jordan, to National Lead Co. Oil dispersible phytates and compositions thereof. 2,871,190, 1-27-59, Cl. 252—32.5.
- Finlayson, Donald, A. Harcolinski, and B. Krzesinski, to British Celanese Ltd. Production of filamentary materials. 2,888,711, 6-2-59, Cl. 18—8.
- Finlayson, Frank E., to General Electric Co. Thermostatically controlled fiatron. 2,901,584, 8-25-59, Cl. 219—25.
- Finlayson, Frank E., A. G. Swenson, N. G. Herman, R. L. Logg, and B. A. Denton, to General Electric Co. Balanced pressure steam iron. 2,892,272, 6-30-59, Cl. 38—77.
- Finley, John A.: *See—*  
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- Finn, Charles O., to The Finn Equipment Co. Hydraulic apparatus for seeding, fertilizing, or seeding and fertilizing soil. 2,878,617, 3-24-59, Cl. 47—1.
- Finn, Charles O., to The Finn Equipment Co. Nozzles for spraying aqueous solutions containing a high percentage of solids. 2,879,003, 3-24-59, Cl. 239—398.
- Finn, Edward W.: *See—*  
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- Finn, James F. Goggles. 2,907,041, 10-6-59, Cl. 2—14.
- Finn, John, to Finn Enterprises. Electric razor hair-cutting gauge. 2,880,504, 4-7-59, Cl. 30—34.
- Finn, Raymond J. Tire changing aid. 2,910,201, 10-27-59, Cl. 214—330.
- Finn, Sidney J., to United Shoe Machinery Corp. Heel and shank lasting machines. 2,869,155, 1-20-59, Cl. 12—8.5.



- Finn, Sidney J., to United Shoe Machinery Corp. Machines for shaping uppers over lasts. 2,887,696, 5-26-59, Cl. 12-8.5.
- Finn, Stephen M., to Foster Wheeler Corp. Motion transmitting device. 2,917,147, 12-15-59, Cl. 192-150.
- Finn, William J., to Texaco Inc. Railroad journal bearing. 2,897,019, 7-28-59, Cl. 308-79.1.
- Finneburgh, Lewis H., Jr. Selective multiple channel TV antennas. 2,897,497, 7-28-59, Cl. 343-819.
- Finnell, Eugene E. Card. 2,915,842, 12-8-59, Cl. 40-102.
- Finnell, Walters S. Floor working machine. 2,879,528, 3-31-59, Cl. 15-50.
- Finnerman Products, Inc.: *See*—
- Flora, Laurence H., and Kelly. 2,867,258.
- Finney Mfg. Co.: *See*—
- Kearse, George P. 2,872,681.
- Kobler, Jan K. 2,893,004.
- Finnigan, Joseph C. Safety apparatus for use on a motor vehicle. 2,883,123, 4-21-59, Cl. 242-107.4.
- Fino, Alexander F., to Hammond Iron Works. Adjustable floating roof. 2,873,042, 2-10-59, Cl. 220-26.
- Fino, Alexander F., to Hammond Iron Works. Floating roof weather seal. 2,914,212, 11-24-59, Cl. 220-26.
- Fino, Alexander F., to Hammond Iron Works. Liquid storage floating cover. 2,919,047, 12-29-59, Cl. 220-26.
- Finsterwalder, Carl J., M. E. Simmons, and F. J. Terkoski, to General Motors Corp. Vehicle window actuators. 2,883,183, 4-21-59, Cl. 268-121.
- Finsterwalder, Ulrich. Method of constructing reinforced concrete bridge. 2,898,757, 8-11-59, Cl. 72-8.
- Finston, Victor, to The Meaker Co. Processing machine. 2,869,560, 1-20-59, Cl. 134-70.
- Finucane, Thomas P., to General Foods Corp. Method of preparing cakes of the foam-batter type. 2,916,379, 12-8-59, Cl. 99-92.
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- Finvoid, Rodger C., to General Dynamics Corp. Electro-mechanical transducer. 2,916,016, 12-8-59, Cl. 121-41.
- Finzel, Theron G., to United States of America, Atomic Energy Commission. Bismuth phosphate carrier process for Pu recovery. 2,872,286, 2-3-59, Cl. 23-14.5.
- Finzel, Theron G., to United States of America, Atomic Energy Commission. Process using bismuth phosphate as a carrier precipitate for fission products and plutonium values. 2,877,090, 3-10-59, Cl. 23-14.5.
- Finzi, Leo A.: *See*—
- Mathias, Robert A., and Finzi. 2,898,043.
- Fiore, Alphonse T., G. C. Kitchens, and H. C. Saunders, to The Givaudan Corp. Soaps and other perfumed compositions containing dihydroterpinyl acetate. 2,889,254, 6-2-59, Cl. 167-94.
- Fiore, Giovanni. Multi-digit indicating register. 2,877,579, 3-17-59, Cl. 40-70.
- Fiore, Hannibal S., E. S. Geary, and A. F. Pyde, to Western Electric Co., Inc. Cable forming fixture. 2,902,059, 9-1-59, Cl. 140-92.1.
- Fiore, Joseph P., to Zenith Radio Corp. Color television tube mask and frame assembly. 2,897,392, 7-28-59, Cl. 313-92.
- Fiore, Vincent J., and O. Reich; said Reich assor, to said Fiore. Pile driving point and ram for open end pipe piles and H-beam bearing piles. 2,874,547, 2-24-59, Cl. 61-53.
- Fiorentini, Pietro. Butterfly valve for fluids under high pressure. 2,883,149, 4-21-59, Cl. 251-306.
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- Albert, Harry E. 2,905,655.
- Alliger, Glen, and Stevens. 2,875,260.
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- Bishop, Walter F. 2,874,760.
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- Brink, Winfield S. 2,874,749.
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- Gerhard, James R., II. 2,875,187.
- Gerhard, James R., II, Deegan, and Fisher. 2,875,186.
- Grover, Frank S., and Lavery. 2,904,993.
- Hayes, Robert A. 2,905,653.
- Hugg, James K. 2,863,749.
- Jones, Gordon F. 2,874,758.
- Koch, Robert C. 2,879,824.
- Koch, Robert C. 2,905,222.
- Lancaster, Arthur M., and Hollis. 2,879,828.
- McLaughlin, Francis M. 2,879,605.
- Noall, John. 2,905,361.
- Nonnamaker, William M. 2,905,221.
- Powers, Robert P. 2,868,258.
- Powers, Robert P. 2,868,259.
- Powers, Robert P. 2,868,261.
- Powers, Robert P. 2,874,748.
- Powers, Robert P., Mulder, and Fordyce. 2,868,260.
- Ranallo, Emil G. 2,874,759.
- Reid, Robert J., and Matlack. 2,875,169.
- Reid, Robert J., Smith, and Werner. 2,905,651.
- Firestone Tire & Rubber Co., The: *See*—Continued
- Robertson, James J. 2,905,660.
- Rowe, Walter C. 2,874,743.
- Schen, Lester W. 2,875,388.
- Schutz, Joseph M. 2,905,220.
- Smith, Floyd M. 2,875,116.
- Smith, Randall D. 2,874,458.
- Smith, Walter J. 2,904,828.
- Smith, William M., Jr., and Best. 2,875,168.
- Spohn, James E., and Smith. 2,875,019.
- Stanford, James R. 2,874,405.
- Tann, William E. 2,875,184.
- Trainer, James E. 2,874,744.
- Varvaro, Alexander J. 2,874,761.
- Wann, Richard L. 2,874,745.
- Webb, Frederick J. 2,875,174.
- Webb, Frederick J. 2,905,737.
- Weissert, Frederick C. 2,880,182.
- Weissert, Frederick C. 2,880,183.
- Woodall, William R. 2,874,747.
- Firestone, Vance S., to Pittsburgh Plate Glass Co. Grinding and polishing table unlocking device. 2,886,925, 5-19-59, Cl. 51-240.
- Firestone, Vance S., to Pittsburgh Plate Glass Co. Conveyor and washer for elongated plates. 2,899,967, 8-18-59, Cl. 134-63.
- Firestone, William L.: *See*—
- Rohr, Louis H., and Firestone. 2,878,452.
- Firetabs Fuel & Chemical Corp.: *See*—
- Grimes, Paul R. 2,916,364.
- Firewel Industries: *See*—
- Meidenbauer, Phillip E., Jr. 2,867,227.
- Meidenbauer, Phillip E., Jr. 2,914,067.
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- Mudersbach, Ernst, and Firgau. 2,873,952.
- Firgau, Werner, to Svenska Rotor Maskiner Aktiebolag. Rotary regenerative air preheater. 2,892,616, 6-30-59, Cl. 257-6.
- Firma Accumulatoren-Fabrik Akt.: *See*—
- Haebler, Herbert. 2,874,203.
- Firma Bettermann Elektro G. m. b. H.: *See*—
- Wieneke, Wilhelm. 2,874,383.
- Firma Bolkow Entwicklungen Kommanditgesellschaft: *See*—
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- Firma Carl Still: *See*—
- Schmidt, Josef, and Weber. 2,894,601.
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- Firma Cementfabrik Holderbank-Wildegg A.G.: *See*—
- Sommer, Hans. 2,884,287.
- Firma Ciments D'Obourg, S. A. Obourg (Belgien): *See*—
- Sommer, Hans. 2,916,146.
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- Porsche, Ferdinand, and Binder. 2,902,020.
- Porsche, Ferdinand, and Hoenick. 2,900,035.
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- Wittmoser, Adalbert. 2,895,188.
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- Firma Fortuna-Werke Spezialmaschinenfabrik A.G.: *See*—
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- Heumann, Eberhard. 2,885,970.
- Firma Kugelfischer George Schafer & Co.: *See*—
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- Firma Montanwerke Walter Akt.: *See*—  
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- Firma Norddeutsche Seekabelwerke Akt.: *See*—  
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- Firma Nordischer Maschinenbau Rud. Baader: *See*—  
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- Firma Ruhrstahl Akt.: *See*—  
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- Firma Union Sils Van De Loo & Co.: *See*—  
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- Firma Walther & Cie. Akt.: *See*—  
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- Firma Wilhelm Schroeder: *See*—  
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- Firman, Reginald A., to Vickers-Armstrongs (Aircraft) Ltd.  
Electric switches. 2,907,854, 10-6-59, Cl. 200-166.
- Firmenich, Klaus, to North American Philips Co., Inc.  
Circuit-arrangement for producing adjustable reference lines  
on the picture screens of cathode-ray tubes simultaneously  
with the curve of a phenomenon. 2,901,664, 8-25-59, Cl.  
315-22.
- Firnhaber, Miles S., to Sealtite Insulation Mfg. Corp. Apparatus  
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7-28-59, Cl. 18-2.5.
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Mfg. Corp. Apparatus for manufacturing glass fibers.  
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to Union Carbide Corp. Process and apparatus for separating  
gas mixtures. 2,908,144, 10-13-59, Cl. 62-13.
- First, Vincent E., and E. L. Paulsen, to Union Carbide Corp.  
Process and apparatus for separating gas mixtures.  
2,918,801, 12-29-59, Cl. 62-14.
- First Bank of Grantsburgh, The: *See*—  
Ollig, John L., Hirsch, Miller, and Westerholm.  
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- First National Bank of Philadelphia, The: *See*—  
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- First Spice Mfg. Corp.: *See*—  
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- Firth, Arthur: *See*—  
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- Firth, Arthur J., to The Colchester Lathe Co. Ltd. Machine  
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- Firth Brown Tools Ltd.: *See*—  
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- Firth Carpet Co., Inc., The: *See*—  
Herrstadt, Gerald E., and Hubbard. 2,899,813.
- Firth, David, to Dodge Mfg. Corp. Locking split spring collar  
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- Firth Sterling Inc.: *See*—  
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Porterfield, Cecil P. 2,903,555.  
Williams, Everard M., and Porterfield. 2,868,947.
- Firth-Vickers Stainless Steels Ltd.: *See*—  
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- Fisch, Edwin J.: *See*—  
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- Fisch, Paul: *See*—  
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- Fisch, Willi: *See*—  
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- Fisch, Willy: *See*—  
Hochuli, Ernst, Werdenberg, and Fisch. 2,904,447.
- Fisch, Willy, to Ciba Ltd. Composition comprising a reaction  
product of a polyester and a polyepoxide and process  
for preparation. 2,891,034, 6-16-59, Cl. 260-45.4.
- Fischbein, Dave, Co.: *See*—  
Fischbein, Dave. 2,892,429.
- Fischbein, Dave, to Dave Fischbein Co. Presser foot for  
sewing machines. 2,892,429, 6-30-59, Cl. 112-235.
- Fischborn, Herbert B.: *See*—  
Key, Edward M. 2,899,992.
- Fischer, Adalbert, to Kohlenscheidungs-Gesellschaft m. b. H.  
Apparatus for uniform distribution of divided solids.  
2,873,037, 2-10-59, Cl. 214-17.
- Fischer, Albert M., to Davenport Machine and Foundry Co.  
Drum dryer feed distribution apparatus. 2,903,054,  
9-8-59, Cl. 159-43.
- Fischer, Albert W.: *See*—  
Chambers, Herbert I., and Fischer. 2,886,782.
- Fischer, Aloys A.: *See*—  
Fischer, Andrew P., and A. A. 2,888,871.
- Fischer, Andrew P. Variable speed drive mechanism.  
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- Fischer, Andrew P., and A. A. Range ventilator. 2,888,871,  
6-2-59, Cl. 98-115.
- Fischer, Anthony J., to Dorr-Oliver Inc. Combination flotation-  
settling unit. 2,888,139, 5-26-59, Cl. 210-221.
- Fischer, Arthur H., to Minerec Corp. Froth flotation of  
copper sulfide ores. 2,901,107, 8-25-59, Cl. 209-166.
- Fischer, Artur. Flash bulb unit. 2,876,337, 3-3-59, Cl.  
240-1.3.
- Fischer, Carl M.,  $\frac{1}{2}$  to A. C. Migeot. Fog light convertor  
for headlights. 2,904,672, 9-15-59, Cl. 240-46.15.
- Fischer, Charles F., to Colgate-Palmolive Co. Spray drying  
apparatus. 2,891,611, 6-23-59, Cl. 159-4.
- Fischer, Cecil, and A. Kafko. Retaining and signaling means  
for slide fasteners. 2,886,825, 5-19-59, Cl. 2-234.
- Fischer, Curtis. Hurdle. 2,878,018, 3-17-59, Cl. 272-59.
- Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft  
vormals Meister Lucius & Bruning. Process for the manu-  
facture of polyhalogenated carboxylic acids. 2,903,467,  
9-8-59, Cl. 260-408.
- Fischer, Edgar, to Farbwerke Hoechst Aktiengesellschaft vormals  
Meister Lucius & Bruning. Process for purifying poly-  
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- Fischer, Edgar, K. Weishermel, and G. Bier, to Farbwerke  
Hoechst Akt. vormals Meister Lucius & Bruning. Treat-  
ment of perfluorochloroolefin polymers. 2,902,477, 9-1-59,  
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- Fischer, Edward: *See*—  
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- Fischer, Edwin L., and C. E. White, 75% to D. V. Cole.  
Lifting and transporting device. 2,908,916, 10-20-59,  
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- Fischer, Elly C.: *See*—  
Giblin, Katherine M., and Fischer. 2,893,658.
- Fischer, Ernst: *See*—  
Ruschig, Heinrich, Fugmann, Eggert, Fischer, and Lind-  
ner. 2,874,156.
- Fischer, Ernst, to Farbwerke Hoechst Akt. vormals Meister  
Lucius & Bruning. Monoazo-dyestuffs insoluble in water.  
2,890,216, 6-9-59, Cl. 260-193.
- Fischer, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals  
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uble in water. 2,899,421, 8-11-59, Cl. 260-204.
- Fischer, Ernst, to Farbwerke Hoechst Aktiengesellschaft  
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soluble in water. 2,915,518, 12-1-59, Cl. 260-203.
- Fischer, Eugen. Method for determining the position of the  
core of a body consisting of a core and a mantle. 2,898,-  
550, 8-4-59, Cl. 324-61.
- Fischer, Falton W. Boat trailer. 2,893,580, 7-7-59, Cl.  
214-394.
- Fischer, Franz, and V. Viasmensky, to Bulova Research and  
Development Laboratories, Inc. Focal plane shutter.  
2,909,978, 10-27-59, Cl. 95-57.
- Fischer, Franz L., and E. F. Wernld, to Bulova Research and  
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scope. 2,871,706, 2-3-59, Cl. 74-5.7.
- Fischer, Georg, Aktiengesellschaft: *See*—  
Von Zelewsky. 2,896,490.  
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- Fischer, Harry C., to Delta-T-Inc. Hot water heater. 2,903,-  
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- Fischer, Heinz. Ultra-rapid displacement of gases. 2,900,-  
566, 8-18-59, Cl. 315-36.
- Fischer, Heinz. Ultra short light pulse generation. 2,911,567,  
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- Fischer, Herbert, to Ruhr Intrans Hubstapler G.m.b.H.  
Clamping device for industrial trucks. 2,896,994, 7-28-59,  
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- Fischer, Herbert C., to National Fibre Glass Co., Inc. Manu-  
facture of fiber glass web expanded from unidirectional fiber  
glass mat, and articles made therefrom. 2,884,010, 4-28-59,  
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- Fischer, Horst: *See*—  
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- Fischer, Howard R., and M. P. D'Haem, to Chicago Pneu-  
matic Tool Co. Hydraulically actuated crimping tool.  
2,897,703, 8-4-59, Cl. 81-15.
- Fischer, John J.: *See*—  
Clark, John A., Jr., and Fischer. 2,869,834.
- Fischer, John J., to The Patterson-Kelley Co., Inc. Liquids-  
solids blending machine. 2,890,027, 6-9-59, Cl. 259-16.
- Fischer, John J., to The Patterson-Kelley Co., Inc. Blending  
mill agitator and additive feed. 2,908,487, 10-13-59, Cl.  
259-25.
- Fischer, John J., to The Patterson-Kelley Co., Inc. Blend-  
ing mill liquid feed. 2,913,300, 12-1-59, Cl. 259-16.
- Fischer, John J., to The Patterson-Kelley Co., Inc. Blend-  
ing and heat exchange mill. 2,919,116, 12-29-59, Cl.  
257-75.
- Fischer, Karl, H. Sydow, and E. Streckebach, to Deutsche  
Erdöl-Akt. Method for producing catalysts. 2,902,455,  
9-1-59, Cl. 252-448.



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- Fischer, Kurt: *See—*
- Friedrich, Hilda, Fischer, and Rummert. 2,916,457.
- Fischer, Laurin G., to International Telephone and Telegraph Corp. Sector-scanning direction-finder systems. 2,912,692, 11-10-59, Cl. 343-120.
- Fischer, Laurin G. and R. C. Neunzig, to International Telephone and Telegraph Corp. Triggered pulse generator. 2,889,457, 6-2-59, Cl. 250-27.
- Fischer, Laurin G., L. Himmel, and R. L. Whittle, to United States of America, Air Force. Interchannel reception system. 2,903,680, 9-8-59, Cl. 340-213.
- Fischer, Oskar: *See—*
- Weise, Johannes, Fischer, Hahn, Kromer, and Noack. 2,893,301.
- Fischer, Paul E.: *See—*
- Langlois, Gordon E., and Fischer. 2,902,523.
- Fischer, Paul W., to Union Oil Co. of California. Method of gas purification utilizing an amine solution and an anti-corrosion agent. 2,869,978, 1-20-59, Cl. 23-3.
- Fischer, Paul W., V. Kenny, and J. W. Scheffel, to Union Oil Co. of California. Bituminous sand process. 2,903,407, 9-8-59, Cl. 208-11.
- Fischer & Porter Co.: *See—*
- Haigler, Edmund D. 2,911,278.
- Birchall, George H., Jr., and Purdy. 2,876,985.
- Fischer, Raymond C., to Allis-Chalmers Mfg. Co. Eccentric conical feed members for manure spreader. 2,883,196, 4-21-59, Cl. 275-6.
- Fischer, Raymond P.: *See—*
- Allegretti, Anthony J., and Fischer. 2,897,523.
- Fischer, Richard A., to The Garrett Corp. Cabin pressure control mechanism. 2,873,661, 2-17-59, Cl. 98-1.5.
- Fischer, Richard A., and J. M. Kemper, to The Garrett Corp. Dual differential pressure regulating control. 2,900,890, 8-25-59, Cl. 98-1.5.
- Fischer, Rudolph F., to Shell Development Co. Epoxidized acetals and polymers thereof. 2,895,962, 7-21-59, Cl. 260-340.7.
- Fischer, Rudolph F., to Shell Development Co. Allylation of aromatic compounds. 2,915,563, 12-1-59, Cl. 260-624.
- Fischer, Rudolph F., and C. W. Smith, to Shell Development Co. Production of polyols. 2,888,492, 5-26-59, Cl. 260-635.
- Fischer, Rudolph F., and T. F. Mika, to Shell Development Co. Aldehyde polyerythritol polymers. 2,895,945, 7-21-59, Cl. 260-67.
- Fischer, Thomas: *See—*
- Kaess, Franz J., Fischer, Gotzinger, and Kronacher. 2,886,417.
- Fischer, Thomas, H. Kronacher, and F. Kaess, to Sueddeutsche Kalkstickstoff-Werke A.G. Apparatus for the continuous manufacture of calcium cyanamide. 2,917,371, 12-15-59, Cl. 23-262.
- Fischer, Valentine J., J. I. Miller, S. Sass, and B. Witten, to United States of America, Army. Direct color test employing diisonirosacetone. 2,867,509, 1-6-59, Cl. 23-230.
- Fischer, Walter, to Getreidehocken A. G. Container and closure for the same. 2,868,435, 1-13-59, Cl. 229-66.
- Fischer, Wilbur E. Component mounting clamp. 2,896,295, 7-28-59, Cl. 24-263.
- Fischer, Wilbur F.: *See—*
- Brodney, Robert S., Catterall, Fischer, and Arundale. 2,876,264.
- Young, David W., and Fischer. 2,881,151.
- Fischer, Wilhelm A., and G. Lorenz, to Max-Planck-Institut für Eisenforschung. Thermocouples. 2,912,477, 11-10-59, Cl. 136-4.
- Fischer, Wolfgang, to Aktiengesellschaft für Unternehmungen der Eisen- und Stahlindustrie. Process for blanching zirconium. 2,879,186, 3-24-59, Cl. 134-3.
- Fischl, Fred B.: *See—*
- Weisgerber, George A., and Fischl. 2,873,179.
- Fischl, Fred B., J. V. Clarke, Jr., and J. O. Smith, Jr., to Esso Research and Engineering Co. Rust inhibited stabilized hydrocarbon fuel oil. 2,888,338, 5-26-59, Cl. 44-63.
- Fischrupp, Clarence R.: *See—*
- Anderson, Paul E., and Fischrupp. 2,872,693.
- Fiser, William D., to The Texas Co. Oil phase antifreeze inhibitor. 2,886,531, 5-12-59, Cl. 252-75.
- Fish, Benjamin. Drapery hook applier. 2,910,699, 11-3-59, Cl. 1-47.
- Fish Engineering Corp., The: *See—*
- Daugherty, Robert A. 2,916,103.
- Fish, Herbert L. Torque meter. 2,909,055, 10-20-59, Cl. 73-1.
- Fish, James L. and J. H. Hydraulic vise. 2,869,434, 1-20-59, Cl. 90-60.
- Fish, John H.: *See—*
- Fish, James L. and J. H. 2,869,434.
- Fish, Walter D., and J. C. Curtis; said Fish assor. to Joy Mfg. Co. Hammer rock drill. 2,871,826, 3-23-59, Cl. 121-10.
- Fish, William G. Ceramic tile fireplace. 2,875,747, 3-3-59, Cl. 126-127.
- Fishburne, Benjamin P., Jr.: *See—*
- Bell, Keith L. 2,881,558.
- Fishel, Clarence, and R. C. and R. S. Weiskopf. Apparatus for dispensing sheet material. 2,892,596, 6-30-59, Cl. 242-55.5.
- Fishel, John B., to The Ohio Oil Co. Process for separating Polycyclic aromatic compounds from organic mixtures. 2,885,453, 5-5-59, Cl. 260-674.
- Fisher's Awning & Supply Co.: *See—*
- Morrison, Robert O. 2,891,704.
- Fisher, Alan J., to United States of America, Army. Crystal-tuned oscillators. 2,881,316, 4-7-59, Cl. 250-36.
- Fisher, Alec, to General Electric Co. Brush holder for dynamoelectric machines. 2,881,339, 4-7-59, Cl. 310-246.
- Fisher, Arnold J. Moisture-free bag. 2,913,030, 11-17-59, Cl. 150-52.
- Fisher, Arthur F. Scraper. 2,895,217, 7-21-59, Cl. 30-169.
- Fisher, Arthur L.: *See—*
- Davis, Walter M., and Fisher. 2,893,836.
- Fisher, Baxter. Locking pin having pivotal locking ring. 2,905,044, 9-22-59, Cl. 85-8.1.
- Fisher, Bernard C., to Neutronic Development Corp. Sparking device. 2,913,608, 11-17-59, Cl. 313-11.5.
- Fisher, Charles H. Portable barbecue. 2,900,897, 8-25-59, Cl. 99-340.
- Fisher, Charles P., to Sigma Instruments, Inc. Electro magnetic devices. 2,884,498, 4-28-59, Cl. 200-93.
- Fisher, Chester C. Refrigerator drip water disposal means. 2,904,970, 9-22-59, Cl. 62-188.
- Fisher, Claude F., to Sylvania Electric Products Inc. Sealing peg. 2,884,743, 5-5-59, Cl. 49-2.
- Fisher, Constance M.: *See—*
- Fisher, John V. 2,889,040.
- Fisher, John V. 2,892,296.
- Fisher, John V. 2,917,877.
- Fisher, Daniel R., Jr., and M. R. Karecki, to Whirlpool Corp. Countertop cooking apparatus. 2,867,711, 1-6-59, Cl. 219-37.
- Fisher, Donald G. Fish lures. 2,871,608, 2-3-59, Cl. 43-35.
- Fisher, Donald H.: *See—*
- Cope, John E., Segrave, and Fisher. 2,875,277.
- Fisher, Donald H., to Pye Ltd. Television receivers. 2,910,533, 10-27-59, Cl. 178-7.5.
- Fisher, Earl E.: *See—*
- Baus, Richard E., Fisher, and Pendell. 2,911,367.
- Fisher, Earl E., to Gulf Oil Corp. Process for stabilizing pyrophoric iron. 2,874,037, 2-17-59, Cl. 75-34.
- Fisher, Earl E., to E. I. du Pont de Nemours & Co. Liquid coating composition comprising a polythiol polymer, a metallic drier, an amine, and a solvent therefor. 2,877,197, 3-10-59, Cl. 260-29.2.
- Fisher, Earl E., to Gulf Oil Corp. Soluble oil. 2,913,410, 11-17-59, Cl. 252-33.3.
- Fisher, Edward: *See—*
- Peterssen, Henry F., and Fisher. 2,888,679.
- Fisher, Elwyn D., to Purolator Products, Inc. Aluminum filters and method of production. 2,876,097, 3-3-59, Cl. 75-223.
- Fisher, Emery J. Combination exfoliator and blower. 2,910,250, 10-27-59, Cl. 241-101.
- Fisher Flouring Mills Co.: *See—*
- Robbins, Dewey H. 2,884,327.
- Fisher, Frank. Geometrical instrument and/or drafting aid. 2,906,023, 9-29-59, Cl. 33-1.
- Fisher, Gene J., and A. F. MacLean, to Celanese Corp. of America. Esterification of acrylic acid with methanol. 2,916,512, 12-8-59, Cl. 260-486.
- Fisher Governor Co.: *See—*
- Gaffney, Donald J. 2,891,568.
- Irwin, Donald W. 2,895,501.
- Rich, Herbert G. 2,877,791.
- Smith, Peter A. 2,886,052.
- Smith, Peter A., and Johnson. 2,886,054.
- Smith, Peter A., and Johnson. 2,886,061.
- Fisher, Hardin Y., to Controls Co. of America. Overcenter snap acting mechanism. 2,892,050, 6-23-59, Cl. 200-68.
- Fisher, Henry T., and J. Moran, to The Ontario Paper Co. Ltd. Wet strength tester. 2,893,241, 7-7-59, Cl. 73-159.
- Fisher, James L., and J. N. Hilderbrand, to Century Geophysical Corp. Magnetic-brush developer. 2,904,000, 9-15-59, Cl. 118-637.
- Fisher, James T., to B. & C. Metal Stamping Co. Meter box. 2,907,927, 10-6-59, Cl. 317-109.
- Fisher, James W.: *See—*
- Grady, Dennis, Bates, and Fisher. 2,872,331.
- Fisher, James W., E. J. Kowolik, and C. W. Stone, to British Celanese Ltd. Process for producing acrylonitrile copolymers containing free amine groups, a copolymer obtained thereby, and textile material containing fibers of said copolymer. 2,917,474, 12-15-59, Cl. 260-8.
- Fisher, John, and N. P. Darash, to The Warner & Swasey Co. Weft selecting mechanism for weaving machine. 2,884,014, 4-28-59, Cl. 139-125.
- Fisher, John C. Liquid pump. 2,898,858, 8-11-59, Cl. 103-1.
- Fisher, John C. Self-rectifying fluid pump. 2,918,875, 12-29-59, Cl. 103-76.
- Fisher, John G.: *See—*
- Straley, James M., and Fisher. 2,887,477.
- Straley, James M., and Fisher. 2,868,774.
- Straley, James M., and Fisher. 2,875,190.
- Straley, James M., and Fisher. 2,916,482.
- Straley, James M., Fisher, and Wallace. 2,908,677.
- Straley, James M., Wallace, and Fisher. 2,871,231.



- Fisher, John V., deceased; C. M. Fisher, administratrix, to Container Corp. of America. Carton package. 2,889,040, 6-2-59, Cl. 206-65.
- Fisher, John V., deceased; C. M. Fisher, administratrix. Apparatus for forming multiple container packages. 2,892,296, 6-30-59, Cl. 53-134.
- Fisher, John V., deceased (C. M. Fisher, administratrix of said J. V. Fisher), 20% to L. Crosby, and 20% to K. M. Crawford. Multiple container package, carrier device and packaging method. 2,917,877, 12-22-59, Cl. 53-14.
- Fisher, Joseph C., Jr., to Union Carbide Corp. Oxidation resistant graphite and method for making the same. 2,897,102, 7-28-59, Cl. 117-169.
- Fisher, Joseph R.: *See*—  
Hornickel, Robert R., and Fisher. 2,879,513.
- Fisher, Joseph R., to Mine Safety Appliances Co. Protective headgear and lining suspensions. 2,870,445, 1-27-59, Cl. 2-8.
- Fisher, Joseph R., and M. D. Rigerink, to Bell Telephone Laboratories, Inc. Formation of expanded silica spheres. 2,883,347, 4-21-59, Cl. 252-502.
- Fisher, Lawrence E., to General Electric Co. Distribution system. 2,906,811, 9-29-59, Cl. 174-99.
- Fisher, Mark E.: *See*—  
Christenson, Howard W., Maci, and Fisher. 2,912,884.
- Fisher, Milton W.: *See*—  
Barnes, John L., and Fisher. 2,906,506.
- Fisher, Philip A., to Magnesium Elektron Ltd. Device for use in making nodular cast iron. 2,872,179, 2-3-59, Cl. 266-34.
- Fisher-Price Toys, Inc.: *See*—  
Crawford, Ralph W. 2,883,793.  
Doe, Walter P., and Sly. 2,908,998.
- Fisher Radio Corp.: *See*—  
Maerle, George P. 2,876,420.
- Fisher, Raoul C., to Head Wrightson Processes Ltd. Separation of components from a fluid mixture. 2,885,356, 5-5-59, Cl. 208-361.
- Fisher, Richard A.: *See*—  
Bronstien, Edward L., Jr., and Fisher. 2,873,768.  
Bronstien, Edward L., Jr., and Fisher. 2,913,736.
- Fisher, Richard A., to The United States Bedding Co. Sofa bed. 2,910,706, 11-3-59, Cl. 5-55.
- Fisher, Richard G.: *See*—  
Angel, Arthur M., and Fisher. 2,877,012.
- Fisher, Robert A., to Olin Mathieson Chemical Corp. Extraction of vitamin B<sub>12</sub> from microbial materials. 2,899,360, 8-11-59, Cl. 167-81.
- Fisher, Roy A. Humidifier. 2,903,013, 9-8-59, Cl. 137-408.
- Fisher, Russel E. System for dispensing flavored beverages. 2,880,912, 4-7-59, Cl. 222-129.4.
- Fisher Scientific Co.: *See*—  
Taylor, Billy W. 2,876,175.
- Fisher, Seth G., to United States of America, Navy. Depth and depth rate measuring system. 2,910,867, 11-3-59, Cl. 73-179.
- Fisher, Seth G., to United States of America, Navy. Depth measuring system. 2,910,868, 11-3-59, Cl. 73-301.
- Fisher-Stevens, Inc.: *See*—  
Romano, Joseph V. 2,878,751.
- Fisher, Thomas: *See*—  
Graef, Charles G., Fisher, and Deckman. 2,915,800.
- Fisher, Thomas W., Jr.: *See*—  
Gerhard, James R., II, Deegan, and Fisher. 2,875,186.
- Fisher, Walter M., to Sturgis Posture Chair Co. Furniture glide. 2,878,509, 3-24-59, Cl. 16-42.
- Fisher, Walter S., and W. M. Kennedy, to General Motors Corp. Carburetor control system. 2,886,022, 5-12-59, Cl. 123-127.
- Fisher, William T., and J. Platt, to Bristol Aircraft Ltd. Snap ring devices. 2,869,910, 1-20-59, Cl. 292-256.067.
- Fisler, Avery J. Tank type disaster shelter. 2,871,802, 2-3-59, Cl. 109-1.
- Fishlove, H., & Co.: *See*—  
Dawson, Norman E. 2,881,560.  
Drane, Edward O. 2,908,499.
- Fishtahler, Vernon F., to General Motors Corp. Vibration damping means. 2,895,315, 7-21-59, Cl. 64-27.
- Fishtahler, Vernon F., and W. W. Vincent, to General Motors Corp. High-low brake pedal linkage. 2,910,147, 10-27-59, Cl. 188-152.
- Fishwood, Rollin W.: *See*—  
Williams, Norman C., and Fishwood. 2,880,754.
- Fisk, James C. Gauge support. 2,909,873, 10-27-59, Cl. 51-165.
- Fisk, Roy T., to Hyland Laboratories. Disposable culturing device. 2,874,091, 2-17-59, Cl. 195-139.
- Fisk, Wilbur, to The Bianchi Co. Cupping and packaging method and apparatus for fragile food products. 2,886,927, 5-19-59, Cl. 53-26.
- Fiske, David L. Blade lifter for safety razors. 2,886,888, 5-19-59, Cl. 30-58.
- Fiske, David L. Ground anchor. 2,892,518, 6-30-59, Cl. 189-90.
- Fisons Pest Control Ltd.: *See*—  
Hartley, Gilbert S. 2,895,808.  
Hartley, Gilbert S., and Park. 2,907,691.
- Fistell, David N. Units for analyzing, rejuvenating and repairing television picture tubes. 2,897,435, 7-28-59, Cl. 324-23.
- Fitch, Clyde J., to International Business Machines Corp. Electroadhesive clutch. 2,897,934, 8-4-59, Cl. 192-84.
- Fitch, Clyde J., to International Business Machines Corp. High speed printing mechanism. 2,909,996, 10-27-59, Cl. 101-93.
- Fitch, Elliott B., to Dorr-Oliver Inc. Hydrocyclones in closed-circuit grinding operations. 2,870,908, 1-27-59, Cl. 209-211.
- Fitch, Frederick T., to W. R. Grace & Co. Fluosilane manufacture. 2,889,348, 6-2-59, Cl. 260-448.2.
- Fitch, Frederick T., to W. R. Grace & Co. Process for alkyl-trifluorosilanes. 2,895,977, 7-21-59, Cl. 260-448.2.
- Fitch, Frederick T., and J. E. Armstrong, to W. R. Grace & Co. Artificial cryolite process. 2,916,352, 12-8-59, Cl. 23-88.
- Fitch, Harold L., to Eastman Kodak Co. Film mount adhesive liquid applicator. 2,874,673, 2-24-59, Cl. 118-2.
- Fitch, Howard M., to Campbell Pharmaceuticals, Inc. Aryl esters of acid phosphorus compounds. 2,895,981, 7-21-59, Cl. 260-461.
- Fitch, Howard M., to Campbell Pharmaceuticals, Inc. Dialkylaminophenyl esters of thiophosphoric acids. 2,901,503, 8-25-59, Cl. 260-461.
- Fitch, Howard M., to Campbell Pharmaceuticals, Inc. Quaternary salts of dialkyl thiophosphate esters. 2,911,430, 11-3-59, Cl. 260-461.
- Fitko, Chester W.: *See*—  
Albanese, John, and Fitko. 2,888,418.
- Fitting, Howard K., to Curtiss-Wright Corp. Panel attaching device. 2,901,788, 9-1-59, Cl. 20-92.
- Fitz, Elmore J., to General Electric Co. Method of decarburizing silicon steel in a wet inert gas atmosphere. 2,875,113, 2-24-59, Cl. 148-113.
- Fitz, Elmore J., to General Electric Co. Silicon steel with improved magnetic anisotropy and method of making the same. 2,913,361, 11-17-59, Cl. 148-110.
- Fitz, Kenneth E., R. W. Schulke, and L. H. Wolfe, to The Babcock & Wilcox Co. Wear lining. 2,885,156, 5-5-59, Cl. 241-182.
- Fitzer, Erich, to Siemens-Planawerke Akt. Fuer Kohlefabrikate. Method of producing sintered nickel-aluminum articles. 2,877,113, 3-10-59, Cl. 75-211.
- Fitzer, Erich, to Siemens-Planawerke Akt. Fuer Kohlefabrikate. Method of producing sintered metallic bodies. 2,877,114, 3-10-59, Cl. 75-223.
- Fitzer, Erich, to Siemens-Planawerke Akt. fur Kohlefabrikate. Method of coating metallic bodies with aluminum utilizing vaporous sub-chlorides. 2,886,469, 5-12-59, Cl. 117-107.
- Fitzer, Erich, to Siemens-Planawerke Aktiengesellschaft fur Kohlefabrikate. Work pieces for high temperature operation and method of making them. 2,902,392, 9-1-59, Cl. 117-212.
- Fitzgerald, Albert J., to General Electric Co. Toggle retainer and framing apparatus. 2,889,592, 6-9-59, Cl. 20-56.4.
- Fitzgerald, Albert J., to General Electric Co. Framing structure and toggle retainer thereof. 2,896,275, 7-28-59, Cl. 20-56.4.
- Fitzgerald, Albert J., to General Electric Co. Prefabricated surfaces. 2,897,620, 8-4-59, Cl. 40-34.
- Fitzgerald, Albert J., to General Electric Co. Jointure between members of a prefabricated structure. 2,897,927, 8-4-59, Cl. 189-36.
- Fitzgerald, Charles F., to United Shoe Machinery Corp. Bobbin winding machine. 2,889,120, 6-2-59, Cl. 242-23.
- Fitzgerald, Charles W., to Joy Mfg. Co. Cutter bit cluster and supporting means therefor. 2,872,172, 2-3-59, Cl. 262-33.
- Fitzgerald, Charles W., to Joy Mfg. Co. Floor clean-up mechanism for continuous miner. 2,877,882, 3-17-59, Cl. 198-9.
- Fitzgerald, Cornelius G., and A. A. Benderly, to United States of America, Army. Thermosetting resinous coating material with thixotropic properties and article coated therewith. 2,887,458, 5-19-59, Cl. 260-18.
- Fitzgerald, Dean B., to Pittsburgh Plate Glass Co. Conveyor apparatus. 2,917,157, 12-15-59, Cl. 198-34.
- Fitzgerald, Edward L., to Diana Mfg. Co. Breast pad and method of manufacture. 2,896,623, 7-28-59, Cl. 128-280.
- Fitzgerald, Harold J., to Supurdisplay, Inc. Popcorn warmer and server. 2,875,013, 2-24-59, Cl. 312-236.
- Fitzgerald, Harold J., to Superdisplay, Inc. Illuminated display cabinet. 2,883,252, 4-21-59, Cl. 312-128.
- Fitzgerald, John R. Coating apparatus for fruits and vegetables. 2,903,995, 9-15-59, Cl. 118-18.
- Fitzgerald, John R. Fruit sizing machine. 2,904,175, 9-15-59, Cl. 209-84.
- Fitzgerald, John V., to Tile Council of America, Inc. Apparatus for making tile panels. 2,917,801, 12-22-59, Cl. 25-1.
- Fitzgerald, John V., and E. L. Kastenbein. Ceramic bird houses. 2,887,987, 5-26-59, Cl. 119-23.
- Fitzgerald, John W. Sectional boat. 2,879,525, 3-31-59, Cl. 9-2.
- Fitzgerald, John W., to Ames Safety Envelope Co. Snap fastener construction for envelopes. 2,913,164, 11-17-59, Cl. 229-78.
- Fitzgerald, Joseph N., J. W. Gernhardt, and O. C. Redmon, to Fram Corp. Water separators. 2,872,043, 2-3-59, Cl. 210-307.
- Fitzgerald, Robert E., to United-Carr Fastener Corp. Lamp socket assembly. 2,912,669, 11-10-59, Cl. 339-188.



- Fitzgerald, Thomas C.: *See—*  
 Bachus, Benson F., and Fitzgerald. 2,916,229.  
 Fitzgerald, William F. Fishing device. 2,874,510, 2-24-59, Cl. 43—44.81.
- Fitz Gerald, William P.: *See—*  
 Banes, Fred W., and Fitz Gerald. 2,901,458.
- Fitzgerald, William P., and J. F. Nelson, to Esso Research and Engineering Co. Color stabilization of resins with alkali. 2,906,726, 9-29-59, Cl. 260—45.7.
- Fitz Gibbons, William A.: *See—*  
 Wright, Wayne E., Fitz Gibbons, and Major. 2,885,523.
- Fitz Harris, Leo J., to Minnesota Mining and Mfg. Co. Lamination of thermoplastic polymers. 2,867,241, 1-6-59, Cl. 138—55.
- Fitzhugh, Andrew F.: *See—*  
 Lavin, Edward, Fitzhugh, and Crozier. 2,917,482.  
 Lavin, Edward, Fitzhugh, and Crozier. 2,917,483.
- Fitzloff, John W. Breeding blanket for turkeys. 2,889,808, 6-9-59, Cl. 119—143.
- Fitzmorris, Stanley R., to United States of America, Air Force. Tube mounting method and apparatus. 2,879,487, 3-24-59, Cl. 333—98.
- Fitzmorris, Stanley R., to General Electric Co. Wave coupling arrangement. 2,901,709, 8-25-59, Cl. 333—10.
- Fitz-On Heel Corp.: *See—*  
 Fitzsimmons, James F. 2,874,488.  
 Fitzsimmons, James F. 2,875,532.  
 Fitzsimmons, James F. 2,878,594.
- Fitzpatrick, John A., to Airtronics Inc. Hydrogen gas generating propellant compositions. 2,885,277, 5-5-59, Cl. 52—5.
- Fitzpatrick, Thomas. Indicator for machine tools. 2,914,856, 12-1-59, Cl. 33—125.
- Fitzpatrick, W. J., Co.: *See—*  
 Covey, Gordon W. 2,907,662.
- Hawk, Le Roy R., Magnus, and Manion. 2,873,663.  
 Hawk, Le Roy R., Magnus, and Manion. 2,912,330.  
 Kircher, Albert, Jr., and Manion. 2,874,054.
- Fitzpatrick, William B., to Harrison-Simpson Co. Method and apparatus for edge forming sheet material. 2,872,981, 2-10-59, Cl. 164—61.
- Fitzsimmons, James F., to Fitz-On Heel Corp. Heel with expanded tube anchored therein. 2,874,488, 2-24-59, Cl. 36—34.
- Fitzsimmons, James F., to Fitz-On Heel Corp. Top lift attachment. 2,875,532, 3-3-59, Cl. 36—36.
- Fitzsimmons, James F., to Fitz-On Heel Corp. Replaceable top lift. 2,878,594, 3-24-59, Cl. 36—34.
- Fitzsimmons, James W.: *See—*  
 Costis, George. 2,912,076.
- Fitzsimmons, William E. Map holder and protector. 2,869,604, 1-20-59, Cl. 150—39.
- Fixel, Anne. Brassiere attachment. 2,895,480, 7-21-59, Cl. 128—453.
- Fixture Hardware Corp., The: *See—*  
 Keil, Henry P. 2,867,169.
- Fjellstedt, Thorsten A., to McGraw-Edison Co. Switch group operating mechanism. 2,878,331, 3-17-59, Cl. 200—48.
- Fjellstedt, Thorsten A., to McGraw-Edison Co. Bus support. 2,896,012, 7-21-59, Cl. 174—171.
- Flach, Donald O., and R. E. Garver, to Food Machinery and Chemical Corp. Production of persulfates. 2,899,272, 8-11-59, Cl. 23—114.
- Flach, Wilhelm: *See—*  
 Jung, Bernhard, Flach, and Kratz. 2,912,131.
- Flack, Alfred, to Lily-Tulip Cup Corp. Nestable plastic containers. 2,879,917, 3-31-59, Cl. 220—97.
- Fladung, Albert L. Sill faucets. 2,870,780, 1-27-59, Cl. 137—360.
- Fladung, Albert L., to Clark-Feather Mfg. Co. Oil can spouts. 2,895,643, 7-21-59, Cl. 222—90.
- Flagg, John E., and J. A. Ruseckas, to United States of America, Navy. Separable wrist bearing. 2,876,453, 3-10-59, Cl. 2—2.1.
- Flagg, Raymond P., to Minneapolis-Honeywell Regulator Co. Combination valve and safety pilot. 2,871,311, 1-27-59, Cl. 200—61.86.
- Flahaut, René E. Nut thread with pitch difference relative to bolt thread to provide good thread bearing under load. 2,870,668, 1-27-59, Cl. 85—32.
- Flaig, Christian. Adjusting means for a slidable inner jaw wrench. 2,914,980, 12-1-59, Cl. 8—145.
- Flair, Henry J., to Illinois Tool Works. Analytical gear comparator. 2,914,861, 12-1-59, Cl. 33—179.5.
- Flamand, Maurice R., and A. J. Tosches, to Draper Corp. Filling carrier drive for shuttleless looms. 2,888,956, 6-2-59, Cl. 139—122.
- Flanagan, Charles D., and R. W. Hood, to Texas Instruments Inc. Terminal construction. 2,912,670, 11-10-59, Cl. 339—220.
- Flanagan, James L., to United States of America, Air Force. Speech analysis. 2,891,111, 6-16-59, Cl. 179—1.
- Flanagan, Thomas E., to Kalamazoo Vegetable Parchment Co. Paper rolls and method of making. 2,874,831, 2-24-59, Cl. 206—59.
- Flanagan, William H., Jr., to United-Carr Fastener Corp. Connector. 2,877,437, 3-10-59, Cl. 339—91.
- Flanagan, William H., Jr., to United-Carr Fastener Corp. Electrical assembly. 2,891,229, 6-16-59, Cl. 339—17.
- Flandrick, Carl R. Invalid lifting and transporting apparatus. 2,903,238, 9-8-59, Cl. 254—124.
- Flanigan, Clifford H. Blade speed controller for electric lawn mower. 2,906,081, 9-29-59, Cl. 56—25.4.
- Flanigan, Richard J.: *See—*  
 Enyeart, Duane B., and Flanigan. 2,877,655.  
 Guschling, Nagle V., and Flanigan. 2,898,891.
- Flannery, Frank A., and R. E. Novkov; said Novkov assor. to L. W. Kuttler, Jr. Floating reamer. 2,906,146, 9-29-59, Cl. 77—75.
- Flannery, Frank A., R. E. Novkov, and W. B. Stein; said Stein assor. to said Flannery and L. W. Kuttler, Jr., and said Novkov assor. to L. W. Kuttler, Jr. Tool holder. 2,913,935, 11-24-59, Cl. 77—58.
- Flannery, James N.: *See—*  
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- Flannery, John P., to The Murray Corp. of America. Drier lint collector. 2,886,900, 5-19-59, Cl. 34—82.
- Flansburgh, John C.: *See—*  
 Hollerith, Charles, Flansburgh, and White. 2,918,775.
- Flaschen, Steward S.: *See—*  
 Brady, George W., and Flaschen. 2,916,681.
- Flaskamp, Richard K.: *See—*  
 Husum, Charles W., and Flaskamp. 2,910,397.
- Flatet, Jacques, and M. Cornu, to La Telemecanique Electrique. Contactor retarder. 2,899,523, 8-11-59, Cl. 200—166.
- Flatland, Lloyd P. High speed angle hand piece. 2,873,527, 2-17-59, Cl. 32—27.
- Flatland, Lloyd P. Self-contained dental handpiece. 2,894,325, 7-14-59, Cl. 32—27.
- Flatland, Lloyd P. Dental angle device. 2,899,745, 8-18-59, Cl. 32—28.
- Flatland, Lloyd P. Dental handpiece attachment. 2,908,976, 10-20-59, Cl. 32—27.
- Flatow, Tobias: *See—*  
 Blount, Alvie E., Flatow, and Chalmers. 2,897,907.  
 Carlisle, Charles H., and Flatow. 2,902,106.
- Flatow, Tobias, and C. H. Carlisle, to Jersey Production Research Co. Method of determining seismic reflecting subsurfaces. 2,894,596, 7-14-59, Cl. 181—5.
- Flavin, Thomas C., to Phillips Petroleum Co. Controlling the B.t.u. content of residue gas from a hydrocarbon separation system. 2,910,435, 10-27-59, Cl. 208—344.
- Flavin, Thomas C., and J. L. Groebe, to Phillips Petroleum Co. Catalytic reactor. 2,890,251, 6-9-59, Cl. 260—666.
- Flaws, John, Jr., and L. E. Dilts, to General Electric Co. Sealed beam headlight with internal shield. 2,880,347, 3-31-59, Cl. 313—115.
- Flax, Valer. Production of sealed containers filled with liquid. 2,870,583, 1-27-59, Cl. 53—37.
- Flaxall Products Ltd.: *See—*  
 Coburn, Robert. 2,895,732.
- Fleck, Francis C., and G. Ralich, to General Motors Corp. Power plant control mechanism. 2,875,635, 3-3-59, Cl. 74—472.
- Fleck, Horst G., to Schlumberger Well Surveying Corp. Rotary switch. 2,902,564, 9-1-59, Cl. 200—104.
- Fleck, Marian, to Society Conte. Device for the manufacture of pencils. 2,879,544, 3-31-59, Cl. 18—13.
- Fleck, Raymond N., and C. G. Wight, to Union Oil Co. of California. Adsorptive fractionation process. 2,881,862, 4-14-59, Cl. 183—114.2.
- Fleckenstein, Joseph E., to Johnson Service Co. Vapor pressure spring. 2,882,042, 4-14-59, Cl. 267—34.
- Fleckenstein, Lambert W. Closure caps. 2,867,350, 1-6-59, Cl. 220—40.
- Fleckenstein, Lambert W. Closure caps. 2,879,914, 3-31-59, Cl. 220—40.
- Fleckenstein, William O.: *See—*  
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- Fleckenstein, William O., to Bell Telephone Laboratories, Inc. Universal line concentrator. 2,916,557, 12-8-59, Cl. 179—18.
- Fleckenstein, William O., E. R. Kretzmer, and W. S. Michel, to Bell Telephone Laboratories, Inc. Facsimile communication system. 2,909,601, 10-20-59, Cl. 178—6.8.
- Fleekop, Fred, and J. A. Fritts, to J. F. and J. Co., Inc. Door opening and closing device. 2,917,306, 12-15-59, Cl. 268—66.
- Fleener, Austin E., 1/4 to W. H. F. Schmieding and 1/4 to P. Flutz. Tag dispenser. 2,908,435, 10-13-59, Cl. 225—32.
- Fleet, C. B., Co., Inc.: *See—*  
 Forsyth, Harry D. 2,869,545.
- Fleischer, Alfred R.: *See—*  
 Alling, John F., and Fleischer. 2,893,137.
- Fleischer, Arthur, to United States of America, Army. Method of manufacturing cadmium plates for nickel-cadmium batteries. 2,899,480, 8-11-59, Cl. 136—67.
- Fleischer, Joseph, R. C. Evans, and F. E. Stevens, Jr., to Olin Mathieson Chemical Corp. Stabilized manganese dioxide. 2,885,262, 5-5-59, Cl. 23—145.
- Fleischer, Paul C.: *See—*  
 Snodgrass, James M., and Fleischer. 2,919,420.
- Fleischer, Svend S. C. Apparatus for separating magnetizable drop wires designed to indicate breakage in threads of a warp in a loom. 2,899,736, 8-18-59, Cl. 28—46.
- Fleischhauer, Werner. Bands for wrapping buddings. 2,916,852, 12-15-59, Cl. 47—7.



- Fleischmann, Carlo. Boundary layer control apparatus for improving the action of aircraft. 2,873,931, 2-17-59, Cl. 244-42.
- Fleischmann, John J., and C. D. Wilson, to Allis-Chalmers Mfg. Co. Fluid cooled barrel cylinder for turbines. 2,888,240, 5-26-59, Cl. 253-39.1.
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- Fleischmann, Lester K. Carbon roll. 2,876,885, 3-10-59, Cl. 197-126.
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- Fleisher, Harold, to International Business Machines Corp. Transistor switching circuits. 2,903,602, 9-8-59, Cl. 307-88.5.
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- Fleissner, Gerold: *See—*  
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- Fleming, Fred, to The British Oxygen Co. Ltd. Welding positioners. 2,884,242, 4-28-59, Cl. 269-185.
- Fleming, George W. Iron rack. 2,915,269, 12-1-59, Cl. 248-117.7.
- Fleming, Harold W., and R. E. Reitmeier, to Chemetron Corp. Hydrogenation catalyst. 2,897,160, 7-28-59, Cl. 252-455.
- Fleming, Hugh B. Transformer construction. 2,885,643, 5-5-59, Cl. 336-96.
- Fleming, Jack F.: *See—*  
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- Fleming, John S.: *See—*  
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- Fleming, John S. Machine for tearing paper. 2,913,160, 11-17-59, Cl. 225-99.
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- Fleming, Richard B. Concrete cylinder form slitting machine. 2,875,828, 3-3-59, Cl. 164-77.
- Fleming, Robert E.: *See—*  
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- Fleming, Robert S., to Amerace Corp. Bowling ball grip-measuring device. 2,880,517, 4-7-59, Cl. 33-174.
- Fleming & Sons, Inc.: *See—*  
Holden, Thomas M. 2,904,105.
- Fleming, Walter H., to Microloc Corp. Electric arming device. 2,918,845, 12-29-59, Cl. 89-1.5.
- Fleming, William J., to General Electric Co. Circuit breaker for plug-in panelboard. 2,905,796, 9-22-59, Cl. 200-168.
- Fleming, William M.: *See—*  
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- Flemming, Norbert A., and E. E. Montross, to The Polymer Corp. Apparatus and process for centrifugal molding of articles from thermoplastic materials which exhibit substantial volumetric shrinkage. 2,874,412, 2-24-59, Cl. 18-39.
- Flenner, Albert L., to E. I. du Pont de Nemours and Co. Organo mercuric mercaptides. 2,883,407, 4-21-59, Cl. 260-431.
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- Flesch, Norman F.: *See—*  
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- Flesch, Peter. Method for protecting, dyeing and waving peroxide bleach-damaged keratin. 2,892,756, 6-30-59, Cl. 167-87.1.
- Flesch, Wilhelm, and O. Pistorius. Process for the generation of gas in two or more producers. 2,890,107, 6-9-59, Cl. 48-206.
- Flessate, Clarence L., to Blackhawk Mfg. Co. Art of bending and ejecting bent pipes. 2,871,908, 2-3-59, Cl. 153-38.
- Fletcher Aviation Corp.: *See—*  
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- Gordon, Carroll G. 2,884,904.
- McLane, Philip W., and Dugan. 2,876,923.
- Fletcher, Ed, to Owens-Corning Fiberglas Corp. Winding apparatus. 2,906,470, 9-29-59, Cl. 242-72.
- Fletcher, Edward H., to Deere & Co. Tractor transmission-hydraulic power shifting. 2,917,936, 12-22-59, Cl. 74-334.
- Fletcher, Edward H., and R. A. Wittren, to Deere & Co. Power brake system. 2,887,187, 5-19-59, Cl. 188-152.
- Fletcher, Edward W.: *See—*  
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- Fletcher, Fred E. and M. W., to Atlantic Chemical & Equipment Co. Chemical dissolver with feed control. 2,919,178, 12-29-59, Cl. 23-267.
- Fletcher, Frederick L., O. Hindley, and N. S. Nichols, to Wyandotte Chemicals Corp. Screen panel for rotary-knife cutter machines. 2,890,840, 6-16-59, Cl. 241-73.
- Fletcher, Herbert J., and G. L. Constan, to Dow Corning Corp. Phenylmethyltrisiloxanes. 2,890,234, 6-9-59, Cl. 260-448.2.
- Fletcher, Lawrence W., to Agronomists' Research Corp. Method of treating soil by non-ionic surface active agents. 2,867,944, 1-13-59, Cl. 47-58.
- Fletcher, Myles W.: *See—*  
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- Fletcher, Peter S., to A. Lorenz. Adjustable chairs. 2,879,833, 3-31-59, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Article of repose for supporting the body of a person. 2,890,742, 6-16-59, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Adjustable chairs. 2,914,112, 11-24-59, Cl. 155-106.
- Fletcher, Peter S., to A. Lorenz. Adjustable chairs. 2,914,113, 11-24-59, Cl. 155-106.
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- Fletcher, Roland A. Multiple contact device. 2,907,867, 10-6-59, Cl. 219-87.
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- Fletcher, Theodore W. Combination storm and screen window unit. 2,878,864, 3-24-59, Cl. 160-106.
- Fletcher, William A., to General Motors Corp. Filament coiling machine having finely adjustable coiling head. 2,873,788, 2-17-59, Cl. 153-67.
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- Fléuret, Marcel, to Societe Rhodiaceta. Device for throwing or twisting threads, fibres and similar products. 2,898,728, 8-11-59, Cl. 57-58.83.
- Flexan Corp., The: *See—*  
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- Flexible Sewertool Corp.: *See—*  
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- Flexibox Ltd.: *See—*  
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- Flexigrip Inc.: *See—*  
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- Flex-O-Lators, Inc.: *See—*  
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- Andersen, Raymond C., and Parlasca. 2,873,984.
- Hesterman, Francis C. 2,887,146.
- Myers, Kenneth H., Farmer, and Briesch. 2,911,238.
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- Flexsleeve, Inc.: *See—*  
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- Flick, Ralph J., to Ford Motor Co. Air conditioner evaporator unit. 2,895,313, 7-21-59, Cl. 62-426.
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- Flieger, Emil W. Flush valve. 2,892,197, 6-30-59, Cl. 4-57.
- Flieg, Werner. Detachable coupling. 2,907,189, 10-6-59, Cl. 64-15.
- Flight Refueling Inc.: *See—*  
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- Lazar, James, Zeitler, and Smith. 2,918,313.
- Macgregor, Peter S., and Goodlife. 2,887,297.
- Macgregor, Peter S., and Goodlife. 2,905,407.
- Maslow, John E., and Zeitler. 2,913,001.
- Smith, Charles H. 2,879,017.
- Flight, Theodore N., and G. R. Shepherd, to The Rheostatic Co. Ltd. Temperature control device. 2,898,544, 8-4-59, Cl. 323-69.



- Flinn, George E., to Borg-Warner Corp. Transmission. 2,893,261, 7-7-59, Cl. 74-472.
- Flinn, Richard A., and J. B. McKinley, to Gulf Research & Development Co. Hydrodesulfurization of hydrocarbons with catalyst composed of molybdenum and two members of the iron group metals. 2,880,171, 3-31-59, Cl. 208-216.
- Flint, Alden C.: *See*—
- Long, John R., and Flint. 2,890,841.
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- Flint, Edward F., to Eastman Kodak Co. Television gunsight. 2,912,494, 11-10-59, Cl. 178-63.
- Flint, Erlon W., to Bell Telephone Laboratories, Inc. Translator. 2,905,934, 9-22-59, Cl. 340-347.
- Flint, Frances O.: *See*—
- Burton, Donald, Reed, and Flint. 2,871,162.
- Flint, Frederick C.: *See*—
- Bryden, Joseph E., Flint, Hyamson, and Small. 2,882,401.
- Flint, Hyland C., to American Metal Products Co. Spring construction. 2,867,265, 1-6-59, Cl. 155-179.
- Flint, Hyland C., to American Metal Products Co. Formed spring cushion construction. 2,868,276, 1-13-59, Cl. 155-179.
- Flint, Hyland C., to American Metal Products Co. Spring construction. 2,886,311, 5-12-59, Cl. 267-1.
- Flint, Kenneth C.: *See*—
- Jackson, John M., Zurbuchen, Flint, Coleman, and Werner. 2,911,141.
- Werner, Frank R., Flint, and Sterzer. 2,880,930.
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- Flint, Rinard W., to U M & F Mfg. Corp. Radio chassis, or the like. 2,906,482, 9-29-59, Cl. 248-163.
- Flint, Russell C., to LCN Closers, Inc. Hold-open device. 2,905,965, 9-29-59, Cl. 16-49.
- Flitter, David: *See*—
- Barrett, Edward J., Jr., and Flitter. 2,873,210.
- Floam, Leonard, and A. R. Rice. Control switch for vehicle signalling system. 2,916,567, 12-8-59, Cl. 200-16.
- Flo-Ball Pen Corp.: *See*—
- Boyden, Robert E., Eakin, Mark, and Spiro. 2,884,900.
- Flocken, Linton H., to Oak Mfg. Co. Electric switch means. 2,876,302, 3-3-59, Cl. 200-5.
- Flo-Container Inc.: *See*—
- Gassaway, Benjamin F. 2,898,007.
- Flodin, Allan: *See*—
- Flodin, John F. 2,917,170.
- Flodin, Frank: *See*—
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- Flohr, William P., Jr.: *See*—
- Bricker, Robert E., Flohr, and Gebel. 2,899,778.
- Flo-Mix Fertilizers Corp.: *See*—
- Dugan, John W. 2,872,297.
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- Flood, Carl A., to Dennison Mfg. Co. Machine for pinning tickets to articles. 2,914,768, 12-1-59, Cl. 1-118.
- Flood, Carl A., to Dennison Mfg. Co. String tags. 2,915,177, 12-1-59, Cl. 206-56.
- Flood, Harry G.: *See*—
- Robinson, Norman W., and Flood. 2,885,592.
- Flood, John E., to Siemens Edison Swan Ltd. Automatic telephone systems. 2,890,284, 6-9-59, Cl. 179-15.
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- Flood, John E., and R. S. Hopkins, to Siemens Edison Swan Ltd. Automatic telephone exchange systems. 2,897,279, 7-28-59, Cl. 179-18.
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- Flood, Reginald F. J., to Amalgamated Wireless (Australasia) Ltd. Electrical power supply systems. 2,894,194, 7-7-59, Cl. 321-2.
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- Flood Control Valve Co.: *See*—
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- Flook, William M., Jr., and F. A. Keidel, to E. I. du Pont de Nemours and Co. Electrolytic oxygen analysis. 2,898,282, 8-4-59, Cl. 204-195.
- Flook, William M., Jr., and D. D. Friel, to E. I. du Pont de Nemours and Co. Radiation temperature measurement. 2,909,924, 10-27-59, Cl. 73-355.
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- Flora, Laurence H., to Tinnerman Products, Inc. Closure check or the like. 2,904,820, 9-22-59, Cl. 16-86.
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- Florea, Harold R. Switching circuit for a training device. 2,894,335, 7-14-59, Cl. 35-12.
- Florence, Estel E. Lubrication system. 2,888,098, 5-26-59, Cl. 184-7.
- Florence, Robert T.: *See*—
- Chambers, Thomas S., and Florence. 2,868,741.
- Klimkowski, Robert J., and Florence. 2,873,668.
- Florence, Robert T., to A. B. Dick Co. Copy process and materials for use in same. 2,873,671, 2-17-59, Cl. 101-149.4.
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- Flores, Juan A., to E. I. du Pont de Nemours and Co. Melter. 2,916,262, 12-8-59, Cl. 257-208.
- Florestano, Herbert J., S. F. Jeffries, C. E. Osborne, and M. E. Bahler, to Allied Laboratories, Inc. Pharmaceutical preparations containing dyclonine hydrochloride and chlorobutanol. 2,868,689, 1-13-59, Cl. 167-52.
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- Florey, Klaus G., to Olin Mathieson Chemical Corp. 6 $\beta$ ,19-seleno-1-dehydrotestosterone and esters thereof. 2,875,196, 2-24-59, Cl. 260-239.5.
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- Florida, James D. Soap dissolving device. 2,880,077, 3-31-59, Cl. 23-267.
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- Florman, Irvin G., and B. W. Bowden, to Southern Fabricating Co., Inc. Tension screen. 2,882,963, 4-21-59, Cl. 160-328.
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- Flo-Seal Corp., The: *See*—
- Phillips, Henry F. 2,885,933.
- Flotepak Corp.: *See*—
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- Flower, Malcolm T., to H. W. Alderson. Quick release hose coupling. 2,893,755, 7-7-59, Cl. 284-18.
- Flower, Robert A., to General Precision Laboratory Inc. Pulse repetition frequency generator and driver. 2,887,579, 5-19-59, Cl. 250-36.
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- Flowers, Daniel F. Fluid operated power lifting unit for dumping vehicles. 2,872,787, 2-10-59, Cl. 60-97.
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- Flox, Jack, to United States of America, Atomic Energy Commission. Process for removing aluminum coatings. 2,893,863, 7-7-59, Cl. 75-101.
- Floy, Delbert W., 25% to O. Floy and 50% to Ris-Van, Inc. Liquid fertilizer attachment for corn planter. 2,903,982, 9-15-59, Cl. 111-7.
- Floy, Oscar: *See—*
- Floy, Delbert W. 2,903,982.
- Floyd, Acey L.: *See—*
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- Floyd, Burton D., to North American Aviation, Inc. Slot port for valve. 2,882,866, 4-21-59, Cl. 121-46.5.
- Floyd, Burton D., to Weston Hydraulics, Ltd. Sealing means. 2,917,078, 12-15-59, Cl. 137-623.
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- Hodges, William A., Floyd, and Lang. 2,883,266.
- Floyd, Victor S., to Pittsburgh Plate Glass Co. Apparatus for glass chip removal. 2,914,784, 12-1-59, Cl. 15-4.
- Flubacker, Charles H., to Cook Electric Co. Terminal construction. 2,872,506, 2-3-59, Cl. 174-153.
- Fluegel, Dale A.: *See—*
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- Fluegel, Dale A., and M. C. Burk, to Phillips Petroleum Co. Emission regulator. 2,886,710, 5-12-59, Cl. 250-41.9.
- Fluhr, Joseph J.: *See—*
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- Baird, Raymond C. 2,869,962.
- Brice, Donat B. 2,879,208.
- De Flon, James G. 2,886,126.
- De Flon, James G. 2,889,584.
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- Solnick, Robert L., and Sollars. 2,904,958.
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- Flynn, Floyd W.: *See—*
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- Flynn, Frank. Snow removal machine. 2,877,762, 3-17-59, Cl. 126-343.5.
- Flynn, George J., Jr.: *See—*
- Armstrong, John D., Flynn, and Wittenberger. 2,883,033.
- Flynn, George M., to Continental Can Co., Inc. Can body side seam soldering and wiping machine. 2,910,030, 10-27-59, Cl. 113-97.
- Flynn, John H. Gas burner with selective flame distribution. 2,869,630, 1-20-59, Cl. 158-105.
- Flynn, John H. Method of drying coated webs. 2,884,705, 5-5-59, Cl. 34-23.
- Flynn, John H. Carbureting and mixing devices for gaseous fuels. 2,888,068, 5-26-59, Cl. 158-118.
- Flynn, John M., to The Dow Chemical Co. Purifying after-treatment for polymerized olefins prepared with catalytic metals compounds. 2,918,461, 12-22-59, Cl. 260-94.9.
- Flynn, John V., to The Kurlash Co., Inc. Eyelash curlers. 2,893,404, 7-7-59, Cl. 132-32.
- Flynn, Maurice J. Tangent adjustment for dumpy levels and the like. 2,873,530, 2-17-59, Cl. 33-46.
- Flynn, Maurice J. Leveling adjustment for dumpy levels and the like. 2,906,483, 9-29-59, Cl. 248-180.
- Flynn, Stanley F. Egg tray. 2,867,343, 1-6-59, Cl. 217-27.
- Flynn, Thomas E., to Fort Wayne Corrugated Paper Co. Carton. 2,879,934, 3-31-59, Cl. 229-27.
- Flynt, James W., and S. Suda, to The Babcock & Wilcox Co. By product and heat recovery from residual liquor. 2,879,838, 3-31-59, Cl. 159-4.
- Foatelli, Pierre C.: *See—*
- Louis, Raymond M. R. G., and Foatelli. 2,907,052.
- Fobelets, Paul L., to Societe Anonyme Usines Emile Henricot. Ribbed frusto-conical lining for tube mills. 2,876,957, 3-10-59, Cl. 241-183.
- Focht, Claude K., and C. H. Melcher, to Curtiss-Wright Corp. Composite valve structure. 2,880,820, 4-7-59, Cl. 184-6.
- Focht, John R., to Precision Valve Corp. Machine for assembling a valve core, washer and spring. 2,906,011, 9-29-59, Cl. 29-211.
- Focht, John R., to Precision Valve Corp. Means for dispensing aerosols and the like. 2,906,440, 9-29-59, Cl. 222-394.
- Focht, Nevin S. Shock absorber. 2,914,143, 11-24-59, Cl. 188-88.
- Foddy, Harold W., and C. C. Hebert, to Ford Motor Co. Fuel injector control. 2,881,748, 4-14-59, Cl. 123-179.
- Foderaro, Anthony J., to Picker X-Ray Corp. Waite Mfg. Division, Inc. Compensating cam and spring balance for X-ray devices. 2,876,362, 3-3-59, Cl. 250-91.
- Fodermaier, John J., to Chrysler Corp. Variable rate spring suspension. 2,893,475, 7-7-59, Cl. 155-179.
- Fodge, Adrian J., to General Railway Signal Co. Highway crossing with insulated track section at crossing. 2,881-309, 4-7-59, Cl. 246-130.
- Fodor, Gábor, I. W. Vincze, J. Toth, G. Janzso, and K. Láng, to Egyesult Gyogyszeres Tapszergyar. Process for the preparation of 3-acetyloxy-6 $\beta$ -hydroxy-tropans. 2,905,687, 9-22-59, Cl. 260-292.
- Foerster, Charles V.: *See—*
- Cape, Arthur T., and Foerster. 2,899,302.
- Foerster, Wolfgang, to Reichhold Chemicals, Inc. Hardening mixtures of epoxy resins and polyamide-like condensation products and the process of producing the same. 2,890,184, 6-9-59, Cl. 260-18.
- Fogarty, Charles F., and D. J. Carlson. Pallet for straddle type fork lift truck. 2,890,849, 6-16-59, Cl. 248-120.
- Fogarty Mfg. Co.: *See—*
- Shoffner, Willie M. 2,915,194.
- Fogel, Louis, to B. Sherman and L. Fogel, as tenants in common. Collapsible lamp shade. 2,884,515, 4-28-59, Cl. 240-108.
- Fogel, Samuel. Display package. 2,893,622, 7-7-59, Cl. 229-34.
- Fogg, Russell. Truss for human body. 2,872,918, 2-10-59, Cl. 128-121.
- Fogiel, Max. Potentiometer controlled follow-up system. 2,871,429, 1-27-59, Cl. 318-29.
- Fogiel, Max. Circuit of mathematical functions. 2,889,506, 6-2-59, Cl. 318-28.
- Fogle, Merlyn W.: *See—*
- De Witt, Clyde C., and Fogle. 2,894,954.
- Fohn, Jack E., to Aurora Steel Products Co. Latching and locking mechanism for locker doors and the like. 2,875,604, 3-3-59, Cl. 70-80.
- Foil Cartons, Inc.: *See—*
- Saidel, William R. 2,907,511.
- Foil Process Corp.: *See—*
- Barnes, James F., and Bent. 2,888,826.
- Barnes, James F., and Rebholz. 2,896,839.
- Barnes, James F., Rebholz, and Silversher. 2,910,094.
- Barnes, James F., and Silversher. 2,900,881.
- Barnes, James F., and Silversher. 2,914,091.
- Foit, William R., and R. H. Wellman, to General Motors Corp. Air intake for free piston engines. 2,916,026, 12-3-59, Cl. 123-46.
- Fokker, Herman: *See—*
- Köhler, Jacob W. L., and Fokker. 2,907,175.
- Folberth, William M. Horn blowing device. 2,890,443, 6-9-59, Cl. 340-262.
- Foley, Daniel E.: *See—*
- Eggensperger, Arlo R., and Foley. 2,871,462.
- Foley, Edward A., to Masonite Corp. Wrapping machine. 2,898,720, 8-11-59, Cl. 53-209.
- Foley, Eldon C. Plug retriever. 2,893,157, 7-7-59, Cl. 43-17.2.
- Foley Mfg. Co.: *See—*
- Adams, Kenneth T. 2,916,320.
- Pommer, Dennis L. 2,887,839.
- Foley, Michael P. Pulse generating circuit. 2,904,755, 9-15-59, Cl. 331-112.
- Foley, Michael P., to Western Precipitation Corp. Apparatus for controlling the operation of electrical precipitators. 2,907,403, 10-6-59, Cl. 183-7.
- Foley, Thomas P., to General Electric Co. Magnetic door latch. 2,867,467, 1-6-59, Cl. 292-251.5.
- Foley, Thomas P., to General Electric Co. Magnetic latch for refrigerator door. 2,877,041, 3-10-59, Cl. 292-251.5.
- Foley, Thomas R.: *See—*
- Montgomery, Clement W., and Foley. 2,888,947.
- Folger, Erwin, to Compagnie des Metaux d'Overpelt-Lommel et de Corphalie. Heat exchanger. 2,879,050, 3-24-59, Cl. 263-20.
- Folk, Joseph, to U. S. Slicing Machine Co., Inc. Automatic shingling or stacking device for a slicing machine. 2,870,810, 1-27-59, Cl. 146-94.
- Folk, Joseph, to U. S. Slicing Machine Co., Inc. Slicing machine with feed and conveying mechanism. 2,888,793, 6-2-59, Cl. 53-251.
- Folkenroth, Earl E., to AMP Inc. Insulation stripping applicator and methods of application. 2,873,511, 2-17-59, Cl. 29-155.55.
- Folker, James J. Slidably adjustable extender plate for support brackets. 2,913,213, 11-17-59, Cl. 248-265.
- Folkers, Karl A., and C. H. Shunk, to Merck & Co., Inc. 1-halomercuri, trihalo benzimidazoles. 2,876,230, 3-3-59, Cl. 260-299.
- Folkerts, Walter E., to Chrysler Corp. Power steering apparatus. 2,917,938, 12-22-59, Cl. 74-388.



- Folkins, Hillis O.: *See*—  
Miller, Elmer L., and Folkins. 2,918,509.
- Folkins, Hillis O., and N. L. Carr, to The Pure Oil Co. Process and catalyst for isomerizing hydrocarbons. 2,888,501, 5-26-59, Cl. 260—683.65.
- Folkins, Hillis O., and K. E. Lucas, to The Pure Oil Co. Hydrogenation of a hydrocarbon oil feed for use in a catalytic cracking process to produce gasoline. 2,903,413, 9-8-59, Cl. 208—57.
- Folkins, Hillis O., and E. L. Miller, to The Pure Oil Co. Process of preparing low molecular weight alkyl monosulfides. 2,910,506, 10-27-59, Cl. 260—609.
- Foll, John V., P. W. Sieber, and A. A. Kirchel, to Muirhead & Co. Ltd. Facsimile telegraph scanning mechanism. 2,883,453, 4-21-59, Cl. 178—7.1.
- Follansbee, Rogers. Heating system. 2,889,991, 6-9-59, Cl. 237—2.
- Follansbee, Wesley M., and E. O. Schoenike, to Collins Radio Co. Quick-acting squeal circuit. 2,888,527, 5-26-59, Cl. 179—171.
- Föllner, Ernst, and D. Störko, to Vereinigte Glanzstoff-Fabriken AG. Bobbin changing apparatus. 2,905,402, 9-22-59, Cl. 242—18.
- Follett, Lesta M., and J. R. Nash. Hospital cart. 2,907,516, 10-6-59, Cl. 232—43.1.
- Follett, Louis W., and C. Hagen, to Davenport Machine and Foundry Co. Rotary indirect cooler. 2,902,263, 9-1-59, Cl. 257—88.
- Follingstad, Henry G., to Bell Telephone Laboratories, Inc. Oscilloscopic display method or means. 2,869,028, 1-13-59, Cl. 315—26.
- Folliot, Albert E. J., and L. Kenzinger, to Ciments Lafarge. Rotary furnace. 2,869,849, 1-20-59, Cl. 263—33.
- Follows, Alan G., and P. A. Keene, to Allied Chemical Corp. Method of producing titanium. 2,882,144, 4-14-59, Cl. 75—84.5.
- Folmsbee, Clyde H., to Union Tank Car Co. Cover assembly for tanks. 2,873,043, 2-10-59, Cl. 220—55.
- Folmsbee, Clyde H., to Union Tank Car Co. Valve mechanism. 2,878,829, 3-24-59, Cl. 137—588.
- Folmsbee, Clyde H., to Union Tank Car Co. Railway tank car. 2,907,284, 10-6-59, Cl. 105—360.
- Folse, Kenneth H. Magnetic drum eraser. 2,898,408, 8-4-59, Cl. 179—100.2.
- Folsom, George I., to Scott & Williams, Inc. Knitting method and machine. 2,909,048, 10-20-59, Cl. 66—13.
- Foltz, Frederick F., and E. M. Setzekorn, to U.S. Industries, Inc. Storage tank for volatilizable material. 2,888,339, 5-26-59, Cl. 48—176.
- Foltz, Gerald G.: *See*—  
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- Foltzer, Marcel, and W. Wagner. Valve arrangement for pressure-fluid pipe systems. 2,875,785, 3-3-59, Cl. 137—629.
- Fomenko, Sergei M., to Litton Industries Inc. Magnetic recording apparatus. 2,908,541, 10-13-59, Cl. 346—74.
- Foncannon, John L., and E. F. Adams, to Beech Aircraft Corp. Contour sensing control for machine tools. 2,868,092, 1-13-59, Cl. 90—62.
- Fonda, Jay C., to L. H. Keeler, R. W. Shaw, J. C. Fonda, R. Cross, R. E. Messmer, and J. F. Donohue. Tape recorder. 2,908,769, 10-13-59, Cl. 179—100.2.
- Fonda-Bonardi, Giusto: *See*—  
Dexter, George W., and Fonda-Bonardi. 2,887,684.
- Fonda-Bonardi, Giusto, to De Mornay-Bonardi, Inc. Microwave component mount. 2,894,229, 7-7-59, Cl. 333—98.
- Fonden, Per B., and K. O. T. Walander. Arresting net for airplanes. 2,913,197, 11-17-59, Cl. 244—110.
- Fonderies Debard: *See*—  
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- Fong, Samuel G.: *See*—  
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- Fong, Willie: *See*—  
Pardo, Clay E., Jr., and Fong. 2,890,926.
- Fong, Willie, to United States of America, Agriculture. Process of clarifying aqueous suint bath containing grease and scouring raw wool with the purified bath. 2,897,043, 7-28-59, Cl. 8—139.
- Fong, Willie, to United States of America, Agriculture. Treatment of wool scouring waste. 2,903,424, 9-8-59, Cl. 210—43.
- Fonken, Gunther S.: *See*—  
Wechter, William J., and Fonken. 2,897,198.
- Fonken, Gunther S., and J. A. Hogg, to The Upjohn Co. 11-oxygenated-17a,20a-epoxy-4-pregnones. 2,873,272, 2-10-59, Cl. 260—239.55.
- Fonken, Gunther S., R. H. Levin, and A. Vern McIntosh, Jr., to The Upjohn Co. 11a,17a dihydroxy-normal pregnane-3,20-dione and 11a esters thereof. 2,877,241, 3-10-59, Cl. 260—397.45.
- Fonken, Gunther S., J. A. Hogg, and B. J. Magerlein, to The Upjohn Co. 3-ethylene glycol ketal of 11a-lower alkyl 11a-hydroxy-21-acyloxy-5,17(20)-pregnadiene-3-one. 2,880,204, 3-31-59, Cl. 260—239.55.
- Fonken, Gunther S., J. A. Hogg, and B. J. Magerlein, to The Upjohn Co. 11a-lower alkyl steroids. 2,880,215, 3-31-59, Cl. 260—397.5.
- Fonken, Gunther S., and H. C. Murray, to The Upjohn Co. 5 $\beta$ -pregn-1-ene-3,20-dione and 20-ketals thereof. 2,913,457, 11-17-59, Cl. 260—239.55.
- Fonken, William A., to Hold Corp. Canting holddown clamp. 2,877,815, 3-17-59, Cl. 144—290.
- Font, Ramo, to Premier Research Laboratories, Inc. Temperature-controlled enclosure for dual electrical components. 2,915,612, 12-1-59, Cl. 219—19.
- Fontana, Beppino J.: *See*—  
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- Fontana, Fernando. Method of manufacturing a bracelet. 2,891,306, 6-23-59, Cl. 29—414.
- Fontein, Freerk J., to Stamicarbon N. V. Process and apparatus for treating suspensions. 2,889,925, 6-9-59, Cl. 209—172.5.
- Fontein, Freerk J., to Stamicarbon N.V. Method for separating fine material. 2,896,785, 7-28-59, Cl. 209—273.
- Fontein, Freerk J., to Stamicarbon N.V. Process and apparatus for separating particles according to size. 2,916,142, 12-8-59, Cl. 209—274.
- Fontein, Freerk J., to Stamicarbon N.V. Screening apparatus. 2,917,174, 12-15-59, Cl. 209—273.
- Fontein, Freerk J., and H. H. Dreissen, to Stamicarbon N. V. Screen. 2,872,041, 2-3-59, Cl. 209—273.
- Fontvieille, Jean, to Manufacture Francaise d'Armes et Cycles de Saint-Etienne. Repeating firearm with pivoted locking bolt. 2,901,853, 9-1-59, Cl. 42—21.
- Food Engineering Corp.: *See*—  
Brous, Donald W. 2,907,495.
- Food Giant Markets, Inc.: *See*—  
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- Food Machinery and Chemical Corp.: *See*—  
Anderson, Gerald R., Hayes, Kerr, and Newburn. 2,872,017.
- Andresen, William F., Jr., and Schempp. 2,867,158.
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- Carrigan, Tracy. 2,892,513.
- Carter, Newell A., and Hemborg. 2,874,818.
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- Easton, Bernard K., and Weinberg. 2,875,018.
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- Freeman, Marshall E. C. 2,901,013.
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- Galloway, Robert K. 2,906,392.
- Gates, Robert L. 2,898,266.
- Getz, John W., and Timmerman. 2,882,131.
- Gilmont, Ernest R. 2,916,481.
- Greedy, Edwin F., and Schaafe. 2,910,070.
- Greenspan, Frank P., and Gall. 2,919,283.
- Greenspan, Frank P., and Light. 2,875,178.
- Griffin, William K., Jr., and Killion. 2,873,717.
- Hait, James M. 2,907,440.
- Hait, James M. 2,909,270.
- Hait, James M. 2,910,246.
- Hait, James M. 2,913,028.
- Hayes, Dudley W. 2,910,183.
- Hobbs, Howard H. 2,914,024.
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- Latourette, Harold K., Johnson, and Getz. 2,894,035.
- Latourette, Harold K., and Levesque. 2,916,853.
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- McEwen, Robert L., Raleigh, and Price. 2,875,102.
- McEwen, Robert L., Raleigh, and Price. 2,912,297.
- McGrath, Earle J. 2,901,083.
- Mumma, Harold J. 2,895,274.
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- Pianfetti, John A., and Kosolapoff. 2,881,202.
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- Sheetz, Charles E. 2,910,258.
- Simpson, Frank E. 2,892,631.
- Stafford, Neil S. 2,874,925.
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- Stillwell, Robert E. 2,874,978.
- Stillwell, Robert E., and Campbell. 2,892,466.
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- Willard, Joe R., and Henahan. 2,873,228.
- Willard, Joe R., and Henahan. 2,877,152.
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- Fookes, James H., to The Dow Chemical Co. Nitrated butyl-phenyl ethers of polyglycols. 2,912,456, 11-10-59, Cl. 260-466.
- Fookes, James H., E. L. Peiton, and M. W. Long, Jr., to The Dow Chemical Co. Oxidation of 2,4-di-tertiary-alkylphenols with oxygen. 2,885,444, 5-5-59, Cl. 260-620.
- Fookes, James H., and R. A. Nutter, to The Dow Chemical Co. Ethyl cellulose compositions. 2,911,315, 11-3-59, Cl. 106-189.
- Fooks, John H.: *See*—
- Siedel, Martin P., and Fooks. 2,892,168.
- Foos, Raymond A.: *See*—
- Wilhelm, Harley A., and Foos. 2,871,092.
- Foot-Burt Co., The: *See*—
- Delamater, Roland E. 2,918,720.
- Foot, Daniel J.: *See*—
- Soref, Harry E., and Foot. 2,893,231.
- Foot, Daniel J., and M. Soref, to Master Lock Co. Drainage ported padlock. 2,867,110, 1-6-59, Cl. 70-38.
- Foot, Daniel J., and H. E. Soref, deceased (by M. Soref, administrator), to Master Lock Co. Laminated padlock. 2,893,232, 7-7-59, Cl. 70-38.
- Foot, Earl H., Jr., to The Commonwealth Engineering Co. of Ohio. Dextran formal. 2,893,987, 7-7-59, Cl. 260-209.
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- Foot, Frank G., to United States of America, Atomic Energy Commission. Thorium-silicon-beryllium alloys. 2,873,186, 2-10-59, Cl. 75-122.7.
- Foot, Harold B., and R. M. Manning, to General Electric Co. Electrical switch blade assembly. 2,896,053, 7-21-59, Cl. 200-166.
- Foot, Howard L.: *See*—
- Morris, Frank A., Confeld, Foot, and Gleason. 2,886,642.
- Foot, Howland S., and R. V. Tino, to General Motors Corp. Pillow block. 2,872,253, 2-3-59, Cl. 308-30.
- Foot, Kenneth E.: *See*—
- Siemens, Henry S., and Foot. 2,870,579.
- Foot, James E., to Diamond Gardner Corp. Molding pulp articles. 2,894,869, 7-14-59, Cl. 162-224.
- Foot, Leonard, Shower curtain adapter. 2,878,487, 3-24-59, Cl. 4-154.
- Foot Mineral Co.: *See*—
- Commons, Charles H., Jr. 2,916,387.
- Commons, Charles H., Jr., and Shearer. 2,890,964.
- Foot, William R., to General Electric Co. Gas turbine power-plant cycle with water evaporation. 2,869,324, 1-20-59, Cl. 60-39.59.
- Foraker, David K. Steering means for outboard motors. 2,895,445, 7-21-59, Cl. 115-18.
- Forbes, Charles A., Jr.: *See*—
- Lingenfelter, Daniel J., Grover, and Forbes. 2,878,849.
- Forbes, Edmund J., to Radio Corp. of America. Radio relay station with drop channeling. 2,897,274, 7-28-59, Cl. 179-15.
- Forbes Lithograph Mfg. Co.: *See*—
- Bogart, John A., Jr. 2,896,793.
- Forbes, Melvin T., and C. L. Moultray. Vertically adjustable mount for an outboard motor. 2,908,242, 10-13-59, Cl. 115-41.
- Forbes, Nelson H. Driving mechanism with flexible joints. 2,902,843, 9-8-59, Cl. 64-19.
- Forbes-Robinson, Christina E. Sports cap or hat accessory. 2,897,510, 8-4-59, Cl. 2-172.
- Forbush, Lothrop M., to General Motors Corp. Vehicle wheel fastening means. 2,906,558, 9-29-59, Cl. 301-9.
- Force, Edwin N. Water ski rope reel. 2,915,259, 12-1-59, Cl. 242-107.
- Forcey, Earl O. Coin chute for coin operated machines. 2,892,527, 6-30-59, Cl. 194-98.
- Ford Alexander Corp., The: *See*—
- Gieske, William R. 2,869,072.
- Ford, Barton H., to Ford Grain Door Co. Freight car bulk-head. 2,895,431, 7-21-59, Cl. 105-369.
- Ford, Barton H., to Ford Grain Door Co. Temporary car opening closure. 2,915,116, 12-1-59, Cl. 160-91.
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- Ford, Birchard H., to Summers Gyroscope Co. Potentiometer. 2,899,660, 8-11-59, Cl. 338-143.
- Ford, David, Fence stretcher. 2,884,225, 4-28-59, Cl. 254-67.
- Ford, Edward, Vehicle tire. 2,891,594, 6-23-59, Cl. 152-209.
- Ford, Erwin C., to Pioneer Specialties, Inc. Liner puller. 2,890,520, 6-16-59, Cl. 29-252.
- Ford, Florence M., to Joseph Bancroft & Sons Co. Method of producing resinous copolymers in situ on fabrics. 2,876,136, 3-3-59, Cl. 117-65.
- Ford, Francis P.: *See*—
- Nelson, Joseph F., Ford, and Hubbard. 2,872,384.
- Ford, Francis P., to Esso Research and Engineering Co. Co-vulcanizable composition of butyl rubber with highly unsaturated rubbers, process of vulcanizing said composition and vulcanized product. 2,906,313, 9-29-59, Cl. 152-330.
- Ford, Francis P., and J. V. Fusco, to Esso Research and Engineering Co. Butyl rubber co-vulcanizates. 2,897,164, 7-28-59, Cl. 260-5.
- Ford, Gerald M., and B. D. Tague, to United States of America, Navy. Direct current transistor voltage or current regulators. 2,889,512, 6-2-59, Cl. 323-22.
- Ford Grain Door Co.: *See*—
- Ford, Barton H. 2,895,431.
- Ford, Barton H. 2,915,116.
- Ford, Barton H. 2,915,117.
- Ford, Harold H., to Emerson-Pryne Co. Combined heating and ventilating unit. 2,870,319, 1-20-59, Cl. 219-39.
- Ford, Harry E., and W. J. Shenk, Jr., to The Harshaw Chemical Co. Aryl sulfimides. 2,891,979, 6-23-59, Cl. 260-439.
- Ford, Harold H., to Pryne & Co., Inc. Cover attaching assembly. 2,869,908, 1-20-59, Cl. 292-1.
- Ford, Harold H., and R. A. Papsdorf, to Emerson-Pryne Co. Combined heating and ventilating unit. 2,875,316, 2-24-59, Cl. 219-39.
- Ford Hugh: *See*—
- Howland, Alfred H., Hughes, Ford, and Moore. 2,868,857.
- Ford, Jack M.: *See*—
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- Ford, James G.: *See*—
- Sloat, Truman K., and Ford. 2,892,166.
- Ford, Jared H., to The Upjohn Co. Chemical process. 2,885,395, 5-5-59, Cl. 260-210.
- Ford, Jared H., to The Upjohn Co. Isomer of cycloheximide and process. 2,903,457, 9-8-59, Cl. 260-281.
- Ford, John A., M. C. Jackson, and R. C. Crook, to The Fairey Aviation Co. Ltd. Gyroscopic apparatus. 2,893,246, 7-7-59, Cl. 74-5.6.
- Ford, John L., to The Ford Meter Box Co., Inc. Mounting for fluid meter. 2,892,641, 6-30-59, Cl. 285-30.
- Ford, Ledger D.: *See*—
- Bell, Ralph E., and Ford. 2,889,573.
- Ford Meter Box Co., Inc., The: *See*—
- Ford, John L. 2,892,641.
- Ford Motor Co.: *See*—
- Altgelt, Rudolph J. 2,874,788.
- Baker, Willard C. 2,901,922.
- Blenstein, Julius M. 2,876,512.
- Bodeau, Arthur C., and Shull. 2,913,199.
- Bordinat, Eugene, Jr., and Hibbard. 2,913,545.
- Boyer, Marion J., and Dvorak. 2,877,661.
- Braun, Paul E. 2,872,912.
- Brewer, Richard D. 2,872,877.
- Cannon, William A., and Welling. 2,912,300.
- Christensen, Max C. 2,899,111.
- Csabi, William A. 2,876,998.
- Damon, James J. 2,908,284.
- Diepenhorst, Gerald, and Dunenfeld. 2,896,046.
- Duesenberg, Denny D. Re. 24,593.
- Duesenberg, Denny D. 2,876,759.
- Duesenberg, Denny D. 2,907,615.
- Duffy, James J. 2,907,232.
- Eisner, Steve. 2,887,367.
- Erwin, Robert L., and McAninch. 2,907,428.
- Felts, Jerome J. 2,881,875.
- Flick, Ralph J. 2,895,313.
- Foddy, Harold W., and Hebert. 2,881,748.
- Gropp, Karl H. 2,908,262.
- Gustafson, John R., and Tsang. 2,882,041.
- Haynes, Alex L., Kurz, and Van Wicklin. 2,881,706.
- Hebbinghaus, Helmut. 2,896,760.
- Hebert, Clarence C. 2,907,313.
- Hutchison, Joseph D. 2,869,393.
- Irland, Max J., and Schermer. 2,904,450.
- Irland, Max J., Schermer, and Goldman. 2,907,672.
- Jandasek, Vladimir J. 2,909,034.
- Jania, Zbigniew J. 2,895,298.
- Jensen, William G. 2,896,040.
- Jovanovich, Milton, Jumisco, and Jensen. 2,887,898.
- Kampe, Dwight F. 2,905,255.
- Klotsch, Paul. 2,916,025.
- Koehl, Frank J. 2,869,394.
- Krahn, Vincent F. 2,893,537.
- Kramer, Clarence F. 2,885,709.
- Kramer, Clarence F. 2,877,038.
- Kucher, Andrew A. 2,879,341.
- MacPherson, Earle S. 2,886,341.
- Marosi, Jess. 2,899,025.
- McRae, Edwin C. 2,873,324.
- McRae, Edwin C. 2,911,961.
- McRae, Edwin C. 2,911,962.
- Millar, Gordon H. 2,916,098.
- Moore, Harold K. 2,912,635.
- Muller, George H. 2,876,855.
- Muller, George H. 2,916,296.
- Muller, George H., and Cuskie. 2,916,282.
- Muller, George H., and Spear. 2,908,324.
- Najjar, John. 2,903,992.
- Nordrum, Richard C., and Walaskay. 2,904,122.
- Oster, Thomas H. 2,881,330.
- Radin, Bernard G. 2,915,642.
- Ribaux, Paul A. 2,898,900.
- Risk, Thomas H. 2,895,767.
- Roberts, Albert O. 2,885,904.
- Rosenberg, Phillip. 2,913,278.
- Rudnicki, William E., and Roberts. 2,894,790.
- Ruhl, John H., and Mazurkiewicz. 2,913,254.
- Sandberg, Fritz E. 2,916,295.
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 Stevenson, James R., Lysett, and Zeidler. 2,880,833.  
 Stout, Joseph M. 2,872,909.  
 Van Deun, Jules J. 2,908,261.  
 Venditty, Chester G., and Crawford. 2,873,979.  
 Venditty, Chester G., and Fleming. 2,869,891.  
 Wanlass, Cravens L. and S. D. 2,915,597.  
 Williams, Gerald J. 2,906,140.  
 Wilson, Glenn R. 2,888,481.  
 Witt, Robert H., and Lock. 2,912,814.
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 Bywater, James E. 2,873,125.
- Ford, Perry T. Heater hood. 2,891,536, 6-23-59, Cl. 126-271.2.
- Ford, Ralph E., to W. A. Ternes. Door construction. 2,898,987, 8-11-59, Cl. 160-206.
- Ford, Reginald C. Rotary pumps. 2,885,966, 5-12-59, Cl. 103-149.
- Ford, Richard W., to Central Rubber and Steel Corp. Fluid conduit system with segmented housing for clamping parallel hoses to supply and discharge tubes. 2,876,023, 3-3-59, Cl. 285-137.
- Ford, Silas M. Children's teeter totter play toy. 2,874,515, 2-24-59, Cl. 46-175.
- Ford, Walter D., to Pittsburgh Corning Corp. Cellulated silica and the production thereof. 2,890,126, 6-9-59, Cl. 106-40.
- Ford, Walter D., to Pittsburgh Corning Corp. Method of making cellular silica. 2,890,127, 6-9-59, Cl. 106-40.
- Ford, Walter D., and H. H. Anderson, to Pittsburgh Corning Corp. Production of cellulated silica. 2,890,173, 6-9-59, Cl. 252-62.
- Ford, William H. : *See*—  
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- Ford, William H. Knife guard. 2,876,539, 3-10-59, Cl. 30-283.
- Ford, William H.,  $\frac{1}{2}$  to W. R. Bartlett. Irrigating machine. 2,918,800, 12-29-59, Cl. 61-12.
- Ford, Wilbur S., to Amalgamated Wireless (Australasia) Ltd. Extractor-engager device. 2,897,033, 7-28-59, Cl. 312-320.
- Fordyce, Denny, Jr. : *See*—  
 Powers, Robert P., Mulder, and Fordyce. 2,868,260.
- Fordyce, Homer E. : *See*—  
 Baker, Donald R., and Fordyce. 2,892,509.
- Fordyce, Rufus G., to Radium Service Corp. of America. Cervico-vaginal radium applicator. 2,888,917, 6-2-59, Cl. 128-1.2.
- Foreman, Arnal B., Jr. : *See*—  
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- Foreman, Calvin E. Measuring dispenser for granular substances. 2,910,213, 10-27-59, Cl. 222-456.
- Foreman, Clayton E. Method of cleaning and resizing baseball caps. 2,914,225, 11-24-59, Cl. 223-10.
- Foreman, John C. Rail joint dust cap. 2,915,250, 12-1-59, Cl. 238-151.
- Foreman, Robert W. : *See*—  
 Darling, Samuel M., and Foreman. 2,914,390.  
 Hardman, Harley F., and Foreman. 2,894,904.  
 Idol, James D., Jr., Callahan, and Foreman. 2,881,212.  
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 Idol, James D., Jr., Callahan, and Foreman. 2,881,214.
- Foreman, Robert W., to The Standard Oil Co. Process for preparing copper liquor for use in removing carbon oxides from ammonia synthesis gas and product. 2,900,347, 8-18-59, Cl. 252-182.
- Foreman, Robert W., J. L. Callahan, and F. Veatch, to The Standard Oil Co. Process for the manufacturing of acetone. 2,874,191, 2-17-59, Cl. 260-597.
- Foremost Dairies, Inc. : *See*—  
 Peebles, David D. 2,897,084.  
 Stewart, Aubrey P., Jr., Johnson, and Wilcox. 2,886,450.  
 Wilcox, Donald F. 2,879,166.
- Foresman, Robert A. Jr. Machine for capping containers. 2,878,632, 3-24-59, Cl. 53-330.
- Foresman, Robert A., Jr. Container capping apparatus. 2,883,817, 4-28-59, Cl. 53-334.
- Foresman, Robert A., Jr. Apparatus for filling and discharging containers. 2,914,096, 11-24-59, Cl. 141-20.
- Forester, George A. : *See*—  
 Harrell, Bob R., and Forester. 2,887,364.
- Foret, Pierre G., and R. E. Wilkins, to Minneapolis-Honeywell Regulator Co. Expandable reel mandrel. 2,875,874, 3-3-59, Cl. 192-76.
- Förg, Friedrich J., to Bacto-Strip A.G. Process and means for carrying out bacteriological operations. 2,904,474, 9-15-59, Cl. 195-139.
- Forbach, Calman, to Massey-Ferguson Inc. Hinge mechanism. 2,880,452, 4-7-59, Cl. 16-179.
- Forges de Strasbourg (Société Anonyme) : *See*—  
 Henry, Louis. 2,907,471.
- Forges et Ateliers de Constructions Electriques de Jeumont : *See*—  
 Bertaux, Gerard. 2,882,333.  
 Kohn, Stéphane. 2,878,402.  
 Louis, Romeo. 2,902,934.  
 Pons, Paul M. 2,918,002.
- Forghieri, Renato. Fluid feeder and pressure intensifier for automatic operation by using the initial pressure of the fluid fed itself. 2,896,542, 7-28-59, Cl. 103-50.
- Forgo, Eric J., to Battle Creek Packaging Machines, Inc. Wrapper indexing mechanism for wrapping machines. 2,871,639, 2-3-59, Cl. 53-180.
- Forgrove Machinery Co. Ltd., The : *See*—  
 Brook, Leonard, and Walker. 2,875,567.  
 Brooke, Harold, and Parker. 2,903,635.
- Forkel, Curt E. : *See*—  
 Hall, Dick S., Dean, Seyer, and Forkel. 2,880,078.
- Forkel, Curt E., D. S. Hall, and C. L. Seyer, to Phillips Petroleum Co. Pebble heating chamber. 2,880,983, 4-7-59, Cl. 263-19.
- Forke, Gordon M., and H. F. Ogrinc, to General Electric Co. Soldering flux composition. 2,901,387, 8-25-59, Cl. 148-23.
- Forknor, John H., to The Pillsbury Co. Food manufacturing method and products. 2,878,127, 3-17-59, Cl. 99-132.
- Forknor, John H., to The Pillsbury Co. Dried apple and process for preparing. 2,901,359, 8-25-59, Cl. 99-204.
- Forman, Dorothy : *See*—  
 Forman, Philip and D. 2,885,090.
- Forman, Ford & Co. : *See*—  
 Lox, Walter E. 2,901,447.
- Forman, George W., and R. D. George, to Butler Mfg. Co. Grain probe. 2,896,444, 7-28-59, Cl. 73-425.2.
- Forman, Herbert B., to Metal & Thermit Corp. Process for the chlorination of zirconium-bearing materials. 2,914,379, 11-24-59, Cl. 23-87.
- Forman, James R. : *See*—  
 Price, Edgar E. 2,895,374.
- Forman, Jan, to Burroughs Corp. Dual magnetron and circuits. 2,910,651, 10-27-59, Cl. 331-86.
- Forman, Jan, to Burroughs Corp. Multiplex measuring device. 2,919,436, 12-29-59, Cl. 340-183.
- Forman, Philip and D. Telescoping dress rack. 2,885,090, 5-5-59, Cl. 211-175.
- Forman, Sylvan E. : *See*—  
 Wachs, Herman, and Forman. 2,878,265.  
 Wachs, Herman, and Forman. 2,878,266.
- Formanek, Robert J., and M. W. Wilson, to The B. F. Goodrich Co. Composition, article and method. 2,912,355, 11-10-59, Cl. 154-130.
- Formgrading and Press Machine Corp., The : *See*—  
 Schiavi, Vincent. 2,902,908.
- Formis, Frederick K. Egg opener. 2,904,089, 9-15-59, Cl. 146-2.
- Formsprag Co. : *See*—  
 Szady, Leopold T. 2,883,023.  
 Zirotek, Thaddeus F. 2,892,523.  
 Zirotek, Thaddeus F. 2,917,146.
- Forney, Birdie F. : *See*—  
 Forney, Ira C. 2,867,248.
- Forney, Edgar W., Jr., to AMP Inc. Shielded braid terminator. 2,890,267, 6-9-59, Cl. 174-88.
- Forney, Edgar W., Jr., to AMP Inc. Shielded wire connectors. 2,904,619, 9-15-59, Cl. 174-88.
- Forney Generators, Inc. : *See*—  
 Haug, Samuel E. 2,917,935.
- Forney, Ira C., deceased; by B. F. Forney, executrix. Automobile thermos jug holder. 2,867,248, 1-6-59, Cl. 141-375.
- Forni, George P. : *See*—  
 Forni, Jay S. 2,883,853.
- Forni, Jay S., to G. P. Forni, d.b.a. Forni Mfg. Co. Meter box cover. 2,883,853, 4-28-59, Cl. 72-100.
- Forni Mfg. Co. : *See*—  
 Forni, Jay S. 2,883,853.
- Forquer, Michael J. Leg attached light. 2,867,717, 1-6-59, Cl. 240-10.68.
- Forrand, George W. : *See*—  
 Samdahl, Russell H. 2,871,580.
- Forrer, Gilbert R., and J. F. Klein, to The Babcock & Wilcox Co. Radiation projector and charge handling means therefor. 2,876,363, 3-3-59, Cl. 250-106.
- Forrer, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Electrical contact device. 2,876,336, 3-3-59, Cl. 219-156.
- Forrer, Homer W., to Mead-Atlanta Paper Co. Paperboard wrapper having strengthened edges. 2,872,036, 2-3-59.
- Forrer, Homer W., to Mead-Atlanta Paper Co. Wrapper carton incorporating center partitioning means. 2,877,894, 3-17-59, Cl. 206-65.
- Forrer, Homer W., to Mead-Atlanta Paper Co. Light bulb carton and overwrap therefor. 2,905,316, 9-22-59, Cl. 206-65.
- Forrer, Homer W., to Mead Packaging, Inc. Four-cell compartmented carton. 2,917,202, 12-15-59, Cl. 220-113.
- Cl. 34-57.
- Forrest, Frank R., to Allis-Chalmers Mfg. Co. Adjustable bypass valve. 2,874,642, 2-24-59, Cl. 103-97.
- Forrest, Harry D., and D. R. Murray, to The General Tire & Rubber Co. Rotary dryer for resins. 2,904,896, 9-22-59.
- Forrest, John R., and A. A. Moul, to MacMillan & Bloedel Ltd. Fork lift truck load support carrier. 2,900,098, 8-18-59, Cl. 214-650.
- Forrester, Gilbert. Process and apparatus for defoaming liquids. 2,908,652, 10-13-59, Cl. 252-321.
- Forrester, Thomas N. : *See*—  
 Barratt, Harold, Forrester, and Wilson. 2,896,946.
- Forrester, William A., to Universal Metals Co. Automatic valve. 2,912,215, 11-10-59, Cl. 251-13.
- Forry, Donald R., to D. E. McCarty. Ring feed for a meat packaging machine. 2,917,204, 12-15-59, Cl. 221-200.
- Forry, Leonard E., to Getman Brothers Mfg. Division, Inc. Diesel exhaust gas filter. 2,911,289, 11-3-59, Cl. 23-284.
- Forsans, Pierre E. H. Sealing means for the hydraulic joint of a coke oven door and for like closures. 2,878,170, 3-17-59, Cl. 202-247.



- Forsberg, Frank, to The Gillette Co. Method of inducing permanent set in razor blade strip. 2,898,254, 8-4-59, Cl. 148—215.
- Forsberg, Richard P., to Hexcel Products Inc. Stitched multiply cellular structure. 2,909,784, 10-27-59, Cl. 2—243.
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- Hettche, Hans O. 2,884,378.
- Forschungsinstitut für bildsame Formung der Metalle: *See*—
- Engelhardt, Werner H., and Gross. 2,875,608.
- Forse, Harry D.: *See*—
- Campbell, Rollin E., and Forse. 2,894,667.
- Forseth, George O. Electrode holders. 2,885,535, 5-5-59, Cl. 219—143.
- Forshaw, Kenneth G. W. J., and C. B. Charlton, to Telephone Mfg. Co. Ltd. Manufacturing processes. 2,917,613, 12-15-59, Cl. 219—19.
- Forshee, Sheila. Method and means for trapping paint overspray. 2,875,680, 3-3-59, Cl. 98—115.
- Forsland, Andre C. Posture pillow. 2,880,428, 4-7-59, Cl. 5—337.
- Forslund, Paul A. S. Latch for closet doors. 2,880,028, 3-31-59, Cl. 292—126.
- Forslund, Johan E. Pressure fluid servomotor. 2,868,175, 1-13-59, Cl. 121—46.
- Forssmark, Boo H., to Banner Welder, Inc. Electric resistance welders with deflection firing heads. 2,906,856, 9-29-59, Cl. 219—89.
- Forster, Ellen (nee Dixon): *See*—
- Forster, Joseph and E. (nee Dixon). 2,899,113.
- Forster, Eric O.: *See*—
- Black, James F., and Forster. 2,905,825.
- Furey, Michael J., and Forster. 2,883,289.
- Förster, Friedrich M. O. Method and apparatus for non-destructive testing. 2,901,691, 8-25-59, Cl. 324—34.
- Forster, Hans-Joachim M.: *See*—
- Scherenberg, Hans O., and Forster. 2,918,154.
- Förster, Hans-Joachim M., to Daimler-Benz Akt. Transmission. 2,886,981, 5-19-59, Cl. 74—730.
- Förster, Hans-Joachim M., to Daimler-Benz Akt. Speed change transmission. 2,890,601, 6-16-59, Cl. 74—688.
- Forster, Hans-Joachim M., to Daimler-Benz Akt. Speed change transmission, particularly for motor vehicles. 2,892,355, 6-30-59, Cl. 74—330.
- Forster, Hans-Joachim M., to Daimler-Benz Akt. Speed change transmission. 2,893,267, 7-7-59, Cl. 74—732.
- Förster, Hans-Joachim M., to Daimler-Benz Akt. Control system for an internal combustion engine. 2,897,809, 8-4-59, Cl. 123—140.
- Förster, Hans-Joachim M., to Daimler-Benz Aktiengesellschaft. Power-driven window-actuating mechanism for motor vehicles. 2,911,212, 11-3-59, Cl. 268—125.
- Forster, John O., to Heli-Coil Corp. Seating tool for wire coil screw thread inserts. 2,869,224, 1-20-59, Cl. 29—240.5.
- Forster, Joseph and E. (nee Dixon). Automatic delay-action device. 2,899,113, 8-11-59, Cl. 222—336.
- Forster, Leslie G., to Forsters Machine Co. Ltd. Wrapping machine for articles or assemblies of articles. 2,901,874, 9-1-59, Cl. 53—223.
- Forster, Lloyd M. Automotive vehicle power brake employing power steering pump pressure. 2,870,605, 1-27-59, Cl. 60—54.5.
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- Barnes, Leslie W. 2,873,767.
- Förster, Wolfgang: *See*—
- Weisbart, Hans, and Forster. 2,911,388.
- Forster, Warren S., to American Cyanamid Co. Chlorinated benzophenone ultraviolet absorbers. 2,892,872, 6-30-59, Cl. 260—591.
- Förster, Wolfgang, to Reichhold Chemicals, Inc. Process for the preparation of condensation products. 2,868,768, 1-13-59, Cl. 260—59.
- Förster, Wolfgang C. G., to Reichhold Chemicals, Inc. New polyamide like condensation products and process of producing the same. 2,890,228, 6-9-59, Cl. 260—404.5.
- Forsters Machine Co. Ltd.: *See*—
- Forster, Leslie G. 2,901,874.
- Forstner, Egon: *See*—
- Rabe, Karl, and Forstner. 2,901,052.
- Forsum Co., The: *See*—
- Woeber, Carl E. and R. V. 2,881,914.
- Forsyth, George H., G. Wood, and J. Stevens, to Vickers-Armstrongs (Engineers) Ltd. Pipe lines. 2,895,512, 7-21-59, Cl. 138—87.
- Forsyth, Harry D., to C. B. Fleet Co., Inc. Package. 2,869,545, 1-20-59, Cl. 128—232.
- Forsyth, Herbert D. Portable casting or molding machine. 2,875,498, 3-3-59, Cl. 25—41.
- Forsyth, William, to Imperial Chemical Industries Ltd. Delay blasting devices. 2,891,476, 6-23-59, Cl. 102—27.
- Forsythe, Alan K., and J. A. Parker, to Armstrong Cork Co. Polyvinyl halide composition containing oxidized polyester resin, and method of making same. 2,877,203, 3-10-59, Cl. 260—45.4.
- Forsythe, Richard P., to Foundry Services Ltd. Method of initiating an exothermic reaction in a mold by chemical means. 2,891,293, 6-23-59, Cl. 22—193.
- Fort, Ben F., Jr.: *See*—
- Ballard, Wiley P., Gibson, and Fort. 2,906,795.
- Fort, Leas M. Structural blocks. 2,892,340, 6-30-59, Cl. 72—41.
- Forté, Donald J., and J. A. Wolfe, to Minneapolis-Honeywell Regulator Co. Coil bobbin and lamination keeper. 2,899,655, 8-11-59, Cl. 336—198.
- Fortess, Fred: *See*—
- Conciatori, Anthony B., Fortess, and Rosen. 2,892,672.
- Conciatori, Anthony B., Fortess, and Salvin. 2,880,052.
- Schoeneberg, Werner A. P., and Fortess. 2,892,668.
- Fortess, Fred, and J. Rudy, to Celanese Corp. of America. Butyl benzoate as a dyeing assistant. 2,880,050, 3-31-59, Cl. 8—55.
- Forth, Murray W., and H. R. Adams, to Deere & Co. Bale thrower variations. 2,894,651, 7-14-59, Cl. 214—83.3.
- Forti, Egle A. Brasiere. 2,891,548, 6-23-59, Cl. 128—485.
- Fortier, Laurent. Loading attachment for tractors. 2,868,399, 1-13-59, Cl. 214—140.
- Fortiphone Ltd.: *See*—
- Johnston, Denis L. 2,916,713.
- Fortmann, William E., to United Aircraft Corp. Fuel control with force multiplication. 2,918,792, 12-29-59, Cl. 60—39.28.
- Fortner, Herman S., to The Armstrong Rubber Co. Tire building apparatus. 2,893,467, 7-7-59, Cl. 154—9.
- Fortney, David F., to Sylvania Electric Products Inc. Method of preparing activated calcium halophosphate phosphor. 2,917,463, 12-15-59, Cl. 252—301.4.
- Fortney, Elza L. Boxing dummy. 2,909,370, 10-20-59, Cl. 372—76.
- Fort Pitt Bridge Works: *See*—
- Patterson, William A. 2,885,199.
- Patterson, William A. 2,892,698.
- Fortson, Warren D. Pellet gun target trap. 2,901,254, 8-25-59, Cl. 273—102.4.
- Fortuin, Jan P.: *See*—
- Alders, Lucas, Fortuin, Mondria, and Reman. 2,915,558.
- Fortuna-Werke Spezialmaschinenfabrik A.G.: *See*—
- Voller, Rolf. 2,900,767.
- Fortune, Henry J., to The Garrard Engineering and Mfg. Co. Ltd. Record supporting and feeding means for record changing mechanism. 2,887,321, 5-19-59, Cl. 274—10.
- Fortune, James H.: *See*—
- Frazier, Charles, and Fortune. 2,868,748.
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- Fortune, Raymond L.: *See*—
- Davidson, John L., Georgen, and Fortune. 2,870,399.
- Fortune, Ronald,  $\frac{1}{10}$  to E. H. Lang. Diaphragm valve. 2,891,763, 6-23-59, Cl. 251—333.
- Fortune, Ronald,  $\frac{1}{10}$  to E. H. Lang. Diaphragm valve. 2,907,346, 10-6-59, Cl. 137—601.
- Fort Wayne Corrugated Paper Co.: *See*—
- Flynn, Thomas E. 2,879,934.
- Jones, Rexford W. 2,893,320.
- Werner, Alfred A., and Sieffert. 2,885,139.
- Fort Wayne Tool Die & Engineering Co.: *See*—
- Eminger, Robert J. 2,904,269.
- Nil, Richard G. 2,904,270.
- 44 Trinity Place Corp.: *See*—
- Phillips, Walt. 2,893,958.
- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Extinguishing chamber for electric circuit breakers. 2,878,345, 3-17-59, Cl. 200—150.
- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Air blast circuit breaker. 2,881,291, 4-7-59, Cl. 200—148.
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- Forwald, Haakon, to Allmänna Svenska Elektriska Aktiebolaget. Arrangement in air blast circuit breakers in which drying air is delivered to the control air pipe. 2,890,312, 6-9-59, Cl. 200—148.
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- Forward, Frank A., and W. C. Lin, to Sherritt Gordon Mines Ltd. Process for recovering precious metals from refractory minerals. 2,867,529, 1-6-59, Cl. 75—118.
- Forward, Frank A., and A. M. Armstrong, to Sherritt Gordon Mines Ltd. Method of treating pyrrhotitic mineral sulphides containing non-ferrous metal values for the recovery of said metal values and sulfur. 2,898,196, 8-4-59, Cl. 23—224.
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- Forward, Paul C.: *See*—
- Fairchilds, Bertram S., and Forward. 2,901,055.
- Fosburgh, Herman, to Anchor Mfg. Co. Meter troughs. 2,891,693, 6-23-59, Cl. 220—3.8.
- Foscoe, Clayton, and B. A. Clubbs, to International Paper Co. Silencing means for paper machine suction rolls. 2,882,969, 4-21-59, Cl. 162—369.
- Fosdick Machine Tool Co., The: *See*—
- Knosp, Robert N., Linden, and Wetzel. 2,882,761.
- Knosp, Robert N., Linden, and Wetzel. 2,908,978.
- Foss, Burdette W., to Tokheim Oil Tank and Pump Co. Reset mechanism for fuel delivery pump register. 2,877,930, 3-17-59, Cl. 222—33.



- Foss, Carl E. Cooperating container. 2,897,994, 8-4-59, Cl. 220-4.
- Fossa, Joseph, to United Shoe Machinery Corp. Machine for operating upon shoe uppers. 2,872,691, 2-10-59, Cl. 12-51.
- Fossa, Joseph, to United Shoe Machinery Corp. Lacing machine. 2,883,687, 4-28-59, Cl. 12-58.5.
- Fossa, Joseph, to United Shoe Machinery Corp. Lace clamping device. 2,887,697, 5-26-59, Cl. 12-58.5.
- Fossa, Joseph, to United Shoe Machinery Corp. Lace measuring mechanism. 2,887,698, 5-26-59, Cl. 12-58.5.
- Fossa, Joseph, to United Shoe Machinery Corp. Shield mechanism for turret structure. 2,887,699, 5-26-59, Cl. 12-58.5.
- Fossa, Joseph, to United Shoe Machinery Corp. Extra side supports for the turret structure. 2,887,700, 5-26-59, Cl. 12-58.5.
- Fossa, Joseph, to United Shoe Machinery Corp. Guard in a lacing machine. 2,887,701, 5-26-59, Cl. 12-58.5.
- Foster, Alan: *See*—  
Marples, Bernard P., and Foster. 2,917,681.
- Foster, Arthur G., and D. G. Stetka, to Western Electric Co., Inc. Strand reeling apparatus. 2,883,120, 4-21-59, Cl. 242-25.
- Foster, Bertram D., and E. J. McCabe, Jr., to M. S. Shapiro. Barbecue grill grate. 2,879,761, 3-31-59, Cl. 126-40.
- Foster, Carl E. Adjustable rearview mirror. 2,877,686, 3-17-59, Cl. 88-98.
- Foster, Christopher J. Floating dry docks. 2,894,472, 7-14-59, Cl. 114-45.
- Foster, Claude R. Signal system for vehicles. 2,876,431, 3-3-59, Cl. 340-81.
- Foster, Douglas V., to United States of America, Navy. Improved strut supported turbine blade. 2,894,719, 7-14-59, Cl. 253-39.15.
- Foster, Edwin E. Spring motor. 2,869,801, 1-20-59, Cl. 242-107.3.
- Foster, Edwin E. Spring sash balance. 2,873,472, 2-17-59, Cl. 16-197.
- Foster, Edwin E. Low gradient spring motor. 2,899,193, 8-11-59, Cl. 267-1.
- Foster, Elton G.: *See*—  
Anderson, Elmer A., Foster, Gable, and Hood. 2,869,986.
- Foster, Frances J., 50% to F. G. Foster. Adjustable cake frame. 2,891,466, 6-23-59, Cl. 99-435.
- Foster, Frank G.: *See*—  
Foster, Frances J. 2,891,466.
- Foster, Frank M.: *See*—  
Engelmann, Richard H., and Foster. 2,917,666.
- Foster, George B., to Industrial Nucleonics Corp. Standardizing means. 2,884,530, 4-28-59, Cl. 250-83.
- Foster, George E., to Bailey Meter Co. Multiple program control apparatus. 2,878,397, 3-17-59, Cl. 290-4.
- Foster, Gerald L., and B. D. Oakes, to The Dow Chemical Co. Propargyl sulfide as a corrosion inhibitor in acidic solutions. 2,880,180, 3-31-59, Cl. 252-39.5.
- Foster, Gilbert C., to General Dynamics Corp. Electronic telephone system. 2,898,407, 8-4-59, Cl. 179-18.
- Foster Grant Co., Inc.: *See*—  
Bloch, Jack. 2,895,522.
- Kruffy, Piet C. 2,872,420.
- Foster, Harley B. Methods of changing or altering the color Electric Co. Torque limiting clutch. 2,903,112, 9-8-59, Cl. 192-104.
- Foster, Harold S., R. E. Bosch, and C. E. Warner, to General of building bricks, tile, or other ceramic units. 2,902,739, 9-8-59, Cl. 25-156.
- Foster, Harry C., to Olin Mathieson Chemical Corp. Supporting means and recoil spring for a gun mount. 2,879,694, 3-31-59, Cl. 89-44.
- Foster, Harry C., to Olin Mathieson Chemical Corp. Gaging device. 2,897,964, 8-4-59, Cl. 209-71.
- Foster, Harry R., E. E. Crump, and P. C. Demarest, to Ohmega Laboratories. Electrical plural-switch mechanism. 2,906,832, 9-29-59, Cl. 200-18.
- Foster, Herbert V., and D. Johnston, to Crompton & Knowles Corp. Jacquard mechanism for loom. 2,868,232, 1-13-59, Cl. 139-59.
- Foster, Jack E. Detection of stuck point in wells. 2,902,640, 9-1-59, Cl. 324-34.
- Foster, Jack V., and P. A. Hanold, to American Machine & Foundry Co. Switching apparatus. 2,917,598, 12-15-59, Cl. 200-87.
- Foster, James H., to Erie Resistor Corp. Printed circuit assembly. 2,898,519, 8-4-59, Cl. 317-101.
- Foster, Jerry F., to Burroughs Corp. Information storage system. 2,874,371, 2-17-59, Cl. 340-174.
- Foster, Jerry F., M. H. Shuler, and J. H. Paquin, to Burroughs Corp. Timing pulse system. 2,895,123, 7-14-59, Cl. 340-174.
- Foster, John C.: *See*—  
Amdur, Elias J., and Foster. 2,876,321.
- Foster, John R., to T.M.M. (Research) Ltd. Textile combing machines. 2,895,177, 7-21-59, Cl. 19-120.
- Foster, John R., to Vonnegut Hardware Co. Vertical rod, top-and-bottom panic latch mechanism. 2,908,523, 10-13-59, Cl. 292-333.
- Foster, John V., to United States of America, Navy. Mechanically-limited, electrically operated hydraulic valve system for aircraft controls. 2,898,889, 8-11-59, Cl. 121-38.
- Foster, Julius E. Welding system. 2,882,384, 4-14-59, Cl. 219-67.
- Foster, Laurence H., to Corning Glass Works. Article handling. 2,889,962, 6-9-59, Cl. 221-293.
- Foster, Leigh C.: *See*—  
Aiken, William R., and Foster. 2,880,341.
- Foster, Leslie W.: *See*—  
Bandli, John C., Foster, and Farmer. 2,899,902.
- Foster, Luther M., to United States of America, Atomic Energy Commission. Method of jacketing fissionable materials. 2,871,555, 2-3-59, Cl. 29-474.3.
- Foster, Melville E. Catalogue binder. 2,891,554, 6-23-59, Cl. 129-23.
- Foster Metal Products Inc.: *See*—  
Boots, William C. 2,890,509.
- Foster, Ned R., to General Motors Corp. Ice detector. 2,916,731, 12-8-59, Cl. 340-234.
- Foster, Newton C.: *See*—  
Minter, Herbert F., and Foster. 2,871,420.
- Foster, Newton C., and H. M. Philofsky, to Westinghouse Electric Corp. Method of insulating electrical members with doubly oriented polystyrene backed mica tape. 2,917,420, 12-15-59, Cl. 154-228.
- Foster, Paul D. Tile-molding machine. 2,885,760, 5-12-59, Cl. 25-43.
- Foster, Robert F.: *See*—  
Jones, Sam P., and Foster. 2,889,688.
- Foster, Robert F., to Lone Star Gas Co. Separable couplings. 2,915,325, 12-1-59, Cl. 285-276.
- Foster, Robert L.: *See*—  
Chambers, Robert R., and Foster. 2,885,445.
- Foster, Samuel L., to Ailis-Chalmers Mfg. Co. Core separator for transformers. 2,912,659, 11-10-59, Cl. 336-60.
- Foster, Samuel P., and R. W. Peterson, to E. I. du Pont de Nemours and Co. Process of making carbon-filled polyamide. 2,875,171, 2-24-59, Cl. 260-37.
- Foster, Theodore, to American Steel Foundries. Power turret indexing. 2,874,595, 2-24-59, Cl. 74-822.
- Foster, Theodore, to American Steel Foundries. Preselective speed changer. 2,885,899, 5-12-59, Cl. 74-359.
- Foster, Vincent F., to Inductosyn Corp. Pattern for slider of position measuring transformer. 2,915,722, 12-1-59, Cl. 336-115.
- Foster, Walter E., to Avco Mfg. Corp. Retractable antenna. 2,902,688, 9-1-59, Cl. 343-702.
- Foster, Warren D.: *See*—  
Facer, Leroy H. 2,867,522.
- McKay, Herbert C. 2,886,475.
- Foster Wheeler Corp.: *See*—  
Apblett, William R., and Wedekind. 2,908,805.
- Arnold, Stanfield N., and Tate. 2,909,158.
- Bell, Alan. 2,893,701.
- Bell, Alan. 2,895,492.
- Bliss, Charles, and Faatz. 2,908,157.
- Chao, Tsei Y. 2,898,625.
- Culver, Leonard J. 2,874,543.
- Finn, Stephen M. 2,917,147.
- Koch, Eugene C., and Ray. 2,868,944.
- Jankowski, Henry J. 2,884,911.
- Jankowski, Henry J. 2,909,132.
- Tate, George E. 2,895,456.
- Thunstrom, John F. 2,868,180.
- West, John M. 2,880,146.
- Whitney, Gilbert C., Jr. 2,913,010.
- Whitney, Gilbert C., Jr., and Clark. 2,912,942.
- Foster, William B. Poultry packaging machine. 2,877,615, 3-17-59, Cl. 53-371.
- Foster, William C. Cat and dog collar. 2,880,701, 4-7-59, Cl. 119-106.
- Foster, William R.: *See*—  
Rosen, Leonard J., and Fortess. 2,880,051.
- Watkins, Thomas E., and Foster. 2,875,835.
- Foster, William W., and W. L. White. Fishing lure retriever. 2,906,050, 9-29-59, Cl. 43-17.2.
- Fostey, James W., to Studebaker-Packard Corp. Reversible turbine with independently operated vanes. 2,914,298, 11-24-59, Cl. 253-51.
- Fostoria Corp.: *See*—  
White, Howard T. 2,906,208.
- White, Howard T. 2,913,988.
- Fostoria Pressed Steel Corp. The: *See*—  
Carter, Richard H. 2,875,694.
- Foti, Arem, to I-T-E Circuit Breaker Co. High voltage automatic grounding switch. 2,891,130, 6-16-59, Cl. 200-145.
- Foti, Arem, and H. W. Kennealy, Jr., to I-T-E Circuit Breaker Co. High voltage automatic grounding switch. 2,891,129, 6-16-59, Cl. 200-145.
- Fotiades, Spyros M. Automatic book and sheet-binding machine. 2,897,522, 8-4-59, Cl. 11-1.
- Fotiades, Spyros M. Clasp, binder and key. 2,903,766, 9-15-59, Cl. 24-107.
- Fotis, Peter, Jr.: *See*—  
Esmay, Donald L., Fotis, and Wilson. 2,881,234.
- Fotis, Peter, Jr., to Standard Oil Co. Production of solid polyethylene by a catalyst consisting essentially of an alkali metal and an adsorbent alumina-containing material. 2,887,472, 5-19-59, Cl. 260-94.9.
- Fotis, Peter, Jr., and D. L. Esmay, to Standard Oil Co. Catalytic process. 2,912,422, 11-10-59, Cl. 260-94.9.
- Fotis, Peter, Jr., D. L. Esmay, and P. Hill, to Standard Oil Co. Catalyst of alkaline earth metal hydride and a metal oxide and polymerization thereby. 2,919,268, 12-29-59, Cl. 260-94.9.



- Fotland, Arne: *See*—  
Pape, Harry E., and Fotland. 2,881,907.
- Fotland, Richard A., to Horizons Inc. Non-linear electric resistor. 2,885,521, 5-5-59, Cl. 201-63.
- Fouassin, Marcel L., to Ateliers de Constructions Electriques de Charleroi. Preset servo system. 2,898,541, 8-4-59, Cl. 322-73.
- Fouche, George H. Hair cutting guide. 2,917,055, 12-15-59, Cl. 132-45.
- Fouche, Jean C. L.: *See*—  
Jacob, Robert M., and Fouche. 2,872,453.
- Foulds, John P., to General Electric Co. Luminaire. 2,901,594, 8-25-59, Cl. 240-25.
- Foulger, Douglas S. High pressure spearhead attachment. 2,918,286, 12-22-59, Cl. 273-106.5.
- Foulke, Donald G., O. Kardos, and H. Koretzky, to Hanson-Van Winkle-Munning Co. Electroplating. 2,881,121, 4-7-59, Cl. 204-52.
- Foulke, Donald G., O. Kardos, and H. Koretzky, to Hanson-Van Winkle-Munning Co. Electroplating. 2,881,122, 4-7-59, Cl. 204-52.
- Foulletier, Louis, and R. Dassaud, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electrique d'Ugine. Catalytic ovens. 2,897,064, 7-28-59, Cl. 23-288.
- Foundry Equipment Co., The: *See*—  
Beyvl, Joseph M. 2,891,319.
- Foundry Equipment Ltd.: *See*—  
Beech, Austin S. 2,901,791.
- Beech, Austin S., and Spencer. 2,879,905.
- Foundry Services Inc.: *See*—  
Bonney, John L. V., Jr. 2,874,428.
- Forsythe, Richard P. 2,891,293.
- Shepherd, Harry D., Jr. 2,867,871.
- Fountain, Henry F., and W. L. Tancred, to Sturupp, Inc. Method of and apparatus for gauging the dimensions of objects of irregular contour. 2,870,336, 1-20-59, Cl. 250-53.
- Fountain of Youth Properties, Inc.: *See*—  
Fraser, Walter B. 2,883,768.
- Fouquet, Eugene. Process and arrangements for simultaneous lubrication and cooling of the piece of work and the cutting tools during machining operations. 2,914,892, 12-1-59, Cl. 51-267.
- Fourés, André G. F., J. R. M. Girard, and R. L. M. De Montard, to Societe Francaise de Construction d'Appareils Medicaux. Endoscopic devices. 2,867,209, 1-6-59, Cl. 128-6.
- Fourmanoit, Robert, to Eternit Soc. p. Az. Method of and apparatus for removing from a mandrel, by means of compressed air, fibrocement tubes produced with tube-making machines and the like. 2,895,867, 7-21-59, Cl. 162-118.
- Fournet, Andre: *See*—  
Bo, Gilbert M. M., Fournet, Phelisse, and Fichet. 2,884,409.
- Fournet, Marie R. Hospital bed having laterally adjustable spring sections. 2,872,689, 2-10-59, Cl. 5-90.
- Fournier, Albert. Machine for decorating plates or similar objects. 2,874,676, 2-24-59, Cl. 118-301.
- Fournier, Valmar: *See*—  
Olson, Mark W., Fournier, and Dobbs. 2,873,227.
- Fouse, Frederick Z., to Anchor Hocking Glass Corp. Mold grab. 2,908,114, 10-13-59, Cl. 49-75.
- Fouse, Samuel S., and E. O. Krance, to Westinghouse Electric Corp. Branch bus duct structures. 2,871,285, 1-27-59, Cl. 174-72.
- Foust, Eugene A., to Perfect Circle Corp. Cleaning and reeling mechanism for strip stock. 2,895,489, 7-21-59, Cl. 134-57.
- Foust, James M. Folding platforms. 2,877,058, 3-10-59, Cl. 304-2.
- Foust, William A. Liquid filter cartridge. 2,914,179, 11-24-59, Cl. 210-323.
- Fouts, Jared G. Match book dispenser. 2,873,882, 2-17-59, Cl. 221-116.
- Fowkes, Frederick M., W. M. Sawyer, and M. J. Schick, to Shell Development Co. Foaming detergent compositions. 2,900,346, 8-18-59, Cl. 252-161.
- Fowle, Irving H., to General Aniline & Film Corp. Folding box. 2,875,936, 3-3-59, Cl. 229-6.
- Fowle, Irving H., to General Aniline & Film Corp. Photographic slide container and viewer combination. 2,882,628, 4-21-59, Cl. 40-106.1.
- Fowler, Benjamin T., M. F. Hoare, and H. G. Krischai, to Esso Research and Engineering Co. Low temperature stability of synthetic lubricants. 2,911,368, 11-3-59, Cl. 252-34.
- Fowler, Clarence D. Identification badge holder. 2,874,495, 2-24-59, Cl. 40-1.5.
- Fowler, Curtis O.: *See*—  
Kuhlschmidt, Donald, and Fowler. 2,891,754.
- Fowler, Frank C., and J. G. Seay. Process and apparatus for thermal dehydrogenation. 2,877,279, 3-10-59, Cl. 260-683.
- Fowler, Frank E., and R. J. Minder. Cracker-sandwich making machine. 2,902,948, 9-8-59, Cl. 107-1.
- Fowler, Frank E., and R. J. Minder. Package vending machine. 2,906,577, 9-29-59, Cl. 312-97.1.
- Fowler, George L. Erasure shield for manifold copies. 2,868,347, 1-13-59, Cl. 197-181.
- Fowler, Herbert G. Fishline reel stand. 2,903,196, 9-8-59, Cl. 242-104.
- Fowler, Ival G., and D. W. Dunipace, to Libbey-Owens-Ford Glass Co. Method of producing pattern-cut bent glass sheets. 2,897,632, 8-4-59, Cl. 49-79.
- Fowler, Ivan L., and L. A. K. Watt, to United States of America, Atomic Energy Commission. Geiger-Muller type counter tube. 2,917,647, 12-15-59, Cl. 313-93.
- Fowler, Jack C.: *See*—  
Ferguson, Lachlan G., and Fowler. 2,872,052.
- Fowler, Jesse C. Boom attachment for fork lift truck. 2,873,873, 2-17-59, Cl. 214-620.
- Fowler, John L., to The Fairey Aviation Co. Ltd. Aircraft controls. 2,912,193, 11-10-59, Cl. 244-83.
- Fowler, Leslie L., to Barnes Drill Co. Combined gravity separator and filter. 2,876,904, 3-10-59, Cl. 210-298.
- Fowler, Preston L., Jr., to The American Tobacco Co. Feeding mechanism for cigarette-making machine. 2,910,071, 10-27-59, Cl. 131-21.
- Fowler, Raymond L.: *See*—  
Colman, Harry, and Fowler. 2,910,940.
- Fowler, Richard G., to United States of America, Navy. Transfer cathode thyatron. 2,900,550, 8-18-59, Cl. 313-189.
- Fowler, Ron: *See*—  
Dixon, Eric W. C., and Fowler. 2,909,136.
- Fowler, William F.: *See*—  
Driscoll, William T., Fowler, and Hellmann. 2,887,380.
- Fowlkes, George V. Laminated skate wheel. 2,878,071, 3-17-59, Cl. 301-5.3.
- Fox, Arnold M., and A. L. Horelick, to McGraw-Edison Co. Magnetic core. 2,898,565, 8-4-59, Cl. 336-217.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,875,416, 2-24-59, Cl. 333-24.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Transmission line network. 2,883,627, 4-21-59, Cl. 333-5.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Gyration wave transmission networks. 2,884,600, 4-28-59, Cl. 333-9.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Wave transducer. 2,886,785, 5-12-59, Cl. 333-21.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,890,328, 6-9-59, Cl. 250-13.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,891,224, 6-16-59, Cl. 333-98.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,896,174, 7-21-59, Cl. 333-10.
- Fox, Arthur G., to Bell Telephone Laboratories, Inc. Nonreciprocal circuit element. 2,913,678, 11-17-59, Cl. 333-9.
- Fox, Benjamin. Single and multiple tier assembly for quick detachable connector. 2,888,660, 5-26-59, Cl. 339-110.
- Fox, Benjamin, deceased; B. E. Fox, executrix. Measuring system. 2,896,161, 7-21-59, Cl. 324-79.
- Fox, Bessie E.: *See*—  
Fox, Benjamin. 2,896,161.
- Fox Bros. Mfg.: *See*—  
Fox, Reed F. 2,876,821.
- Fox, Carl J., 1/2 to M. E. Warren. Vertically adjustable support for table tops and the like. 2,875,007, 2-24-59, Cl. 311-39.
- Fox, Charles H., Jr., to Union Carbide Corp. Sorting device. 2,892,530, 6-30-59, Cl. 198-33.
- Fox, David A., deceased, by C. S. Quarles, administrator, to L. Q. Fox, V. F. Pierson, and S. J. Fox. Direct reversing internal combustion engine. 2,881,744, 4-14-59, Cl. 123-41.
- Fox, David S.: *See*—  
Berke, Nicholas E., Williams, and Fox. 2,891,720.
- Fox, Delmer C. Christmas tree stand. 2,879,019, 3-24-59, Cl. 248-44.
- Fox, Dorothea D. Adjustable panty skirt. 2,893,015, 7-7-59, Cl. 2-212.
- Fox, Edgar C., Jr., C. G. Helmick, Jr., and S. J. Campbell, to Westinghouse Electric Corp. Motor control system. 2,871,430, 1-27-59, Cl. 318-30.
- Fox, Gerald B., to The Hobart Mfg. Co. Dishwasher. 2,884,935, 5-5-59, Cl. 134-72.
- Fox, Gerald B., and S. O. Thomas, to The Hobart Mfg. Co. Rotor actuated flushing water control for waste disposer. 2,880,941, 4-7-59, Cl. 241-35.
- Fox, Harry A., Jr., to AMP Inc. Stabilized crimped connections. 2,906,987, 9-29-59, Cl. 339-115.
- Fox, Harry D.: *See*—  
Stamm, Robert H., Fox, and Steed. 2,884,078.
- Fox, Harry F., Jr.: *See*—  
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- Fox, Herbert C., and R. E. Franklin, to Kershaw Mfg. Co., Inc. Adzing apparatus for railroad cross-ties. 2,887,135, 5-19-59, Cl. 144-133.
- Fox, Herbert S.: *See*—  
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- Hasell, Henry P., Fox, and Zilahy. 2,876,590.
- Hasell, Henry P., Fox, and Zilahy. 2,876,900.
- Fox, Homer M., to Phillips Petroleum Co. Rocket motor. 2,868,127, 1-13-59, Cl. 102-49.
- Fox, Homer M., to Phillips Petroleum Co. Continuous combustion power plant. 2,874,539, 2-24-59, Cl. 60-39.02.



- Fox, Homer M., to Phillips Petroleum Co. Method of bonding propellant grain to metal case. 2,877,504, 3-17-59, Cl. 18-59.
- Fox, Homer M., to Phillips Petroleum Co. Compression-ignition engine operation. 2,877,749, 3-17-59, Cl. 123-1.
- Fox, Homer M., to Phillips Petroleum Co. Combustion stabilization control system responsive to oxidant concentration. 2,878,643, 3-24-59, Cl. 60-35.6.
- Fox, Homer M., to Phillips Petroleum Co. Compression-ignition engine operation. 2,902,984, 9-8-59, Cl. 123-1.
- Fox, Homer M., to Phillips Petroleum Co. Operation of solid propellant rockets. 2,917,894, 12-22-59, Cl. 60-35.6.
- Fox, Howard L. Water conducting downspout attachment. 2,898,939, 8-11-59, Cl. 138-46.5.
- Fox, Jack J., and R. M. White, to Phillips Petroleum Co. Fluid proportioning. 2,893,412, 7-7-59, Cl. 137-3.
- Fox, James E., Jr., to Pan American Petroleum Corp. Feeder. 2,918,331, 12-22-59, Cl. 302-49.
- Fox, John E.: See—
- Eby, Roy T., and Fox. 2,879,310.
- Fox, John E. Bottle drying rack. 2,879,900, 3-31-59, Cl. 211-74.
- Fox, John P.: See—
- Warren, Robert C. 2,877,480.
- Fox, John W., and V. E. Hart, to The Clark Controller Co. Conveyor controls. 2,883,036, 4-21-59, Cl. 198-82.
- Fox, Joseph H. Composite pile. 2,874,446, 2-24-59, Cl. 61-53.
- Fox, Louis A., to Kunkle Valve Co. Relief valve. 2,906,289, 9-29-59, Cl. 137-508.
- Fox, Louise Q.: See—
- Fox, David A. 2,881,744.
- Fox, Martin, to The Seng Co. Rocker spring for platform rocker. 2,871,916, 2-3-59, Cl. 155-71.
- Fox, Martin, to The Seng Co. Swivel chair iron. 2,876,051, 3-8-59, Cl. 308-227.
- Fox, Martin, to The Seng Co. Davenport bed. 2,900,646, 8-25-59, Cl. 5-13.
- Fox, Martin, to The Seng Co. Sofa bed. 2,907,053, 10-6-59, Cl. 5-12.
- Fox, Marvin: See—
- Gurnisky, David H., Powell, and Fox. 2,914,454.
- Fox, Morris. Amusement device. 2,903,816, 9-15-59, Cl. 46-1.
- Fox, Norman T. Latch for a connecting hose for trailers and the like. 2,875,496, 3-3-59, Cl. 24-254.
- Fox Paper Co., The: See—
- Walker, Charles R. 2,882,802.
- Fox Products Co.: See—
- Godshalk, James B. 2,915,086.
- Medlar, Lewis A. 2,892,906.
- Medlar, Lewis A. 2,899,623.
- Fox, Reed F. Golf ball washer. 2,876,473, 3-10-59, Cl. 15-21.
- Fox, Reed F., to Fox Bros. Mfg. Pivoted roll can straightener. 2,876,821, 3-10-59, Cl. 153-32.
- Fox, Richard J., and L. C. Oakes, to United States of America, Atomic Energy Commission. Coaxial control rod drive mechanism for neutron reactors. 2,881,619, 4-14-59, Cl. 74-25.
- Fox, Richard M., to The O. M. Scott & Sons Co. Bag structure with pocket. 2,867,372, 1-6-59, Cl. 229-56.
- Fox, Robert B., and D. L. Venezky, to United States of America, Navy. Aliphatic and aromatic phosphorus-mercury compounds and method of preparing same. 2,877,251, 3-10-59, Cl. 260-431.
- Fox, Robert L., and J. A. Smith, to Railway Maintenance Corp. Power-operated track wrench. 2,898,792, 8-11-59, Cl. 81-54.
- Fox, Robert M.: See—
- Cockburn, Stanley D., and Fox. 2,904,365.
- Fox, Robert M., to General Motors Corp. Spring clip. 2,894,302, 7-14-59, Cl. 24-73.
- Fox, Robert M., and R. A. Grout, to General Motors Corp. Rear compartment lock striker. 2,886,365, 5-12-59, Cl. 292-341.18.
- Fox, Robert P., to Clyde Iron Works, Inc. Level luffing attachment for cranes. 2,888,150, 5-26-59, Cl. 212-58.
- Fox, Russell P.: See—
- Gulke, Carl A., and Fox. 2,879,187.
- Gulke, Carl A., and Fox. 2,880,123.
- Fox, Samuel. Apparatus for pattern grading of wearing apparel. 2,885,784, 5-12-59, Cl. 33-12.
- Fox, Sheldon: See—
- Dauksher, Walter J., and Fox. 2,881,321.
- Fox, Sidney M., M. S. Blicharz, and R. Winterbottom, to American Cyanamid Co. Refining of tetracycline antibiotics by direct mash extraction. 2,875,247, 2-24-59, Cl. 260-559.
- Fox, Susan J.: See—
- Fox, David A. 2,881,744.
- Fox, William C., and H. L. Clark, to The Sessions Clock Co. Timing mechanism. 2,905,778, 9-22-59, Cl. 200-39.
- Fox, William J., to The Distillers Co. Ltd. Alkyl 3-alkoxypropionates. 2,910,503, 10-27-59, Cl. 260-484.
- Fox, William P., to Merriman Bros., Inc. Boat hook. 2,889,797, 6-9-59, Cl. 114-221.
- Foxboro Co., The: See—
- Allen, Albert, and Spink. 2,896,656.
- Anderson, Bernard E. 2,900,816.
- Anderson, Bernard E., and Sweet. 2,884,366.
- Bowditch, Hoel L. 2,893,431.
- Foxboro Co., The: See—Continued
- Cushman, Robert W., and Steensen. 2,910,649.
- Darling, Horace E. 2,918,619.
- Ehrisman, Henry O., and Drinker. 2,896,709.
- Freitas, Manuel P. 2,901,739.
- Fuller, David H. 2,912,858.
- Hannula, Fred W. 2,876,404.
- Kamp, Johannes J., and Smals. 2,887,878.
- Lawler, Richard P. 2,888,655.
- Olsen, Everett O. 2,917,715.
- Smith, Graydon. 2,902,680.
- Sturgeon, Stocker S., and Handel. 2,867,119.
- Swift, Willard E., Jr. 2,884,535-9.
- Swift, Willard E., Jr. 2,919,351.
- Foxon, Henry J.: See—
- Sowter, Anthony B., and Foxon. 2,894,323.
- Fox River Mfg. Co.: See—
- Schroeder, Simon E. 2,867,131.
- Schroeder, Simon E. 2,867,132.
- Schroeder, Simon E. 2,871,718.
- Schroeder, Simon E. 2,891,498.
- Fox River Tractor Co.: See—
- Saiberlich, Erwin W. 2,881,024.
- Saiberlich, Erwin W. 2,891,655.
- Foy, John R.: See—
- Ely, Charles M., and Foy. 2,899,308.
- Foye, Allen B.: See—
- Alholm, Wayne I., Campbell, Foye, Lynn, and Shanklin. 2,907,300.
- Foye, Allen B., to W. R. Grace & Co. Expandable diaphragm as a cushion in loose packed bottles. 2,880,900, 4-7-59, Cl. 215-40.
- Foyn, Kjeld, to Elektrokemisk A/S. Clamp members for supporting electrodes. 2,884,475, 4-28-59, Cl. 13-16.
- Foyn, Kjeld, and E. Gornitzka, to Elektrokemisk A-S. Furnace for steel production. 2,868,860, 1-13-59, Cl. 13-9.
- Foyn, Kjeld, and E. Tommelstad, to Elektrokemisk A/S. Electrode holder for electric smelting furnace. 2,915,573, 12-1-59, Cl. 13-16.
- Fozard, Ethel M. Method and apparatus for removal of superfluous hair. 2,888,927, 6-2-59, Cl. 128-303.13.
- Frachon, Marc. Control switches. 2,912,530, 11-10-59, Cl. 200-31.
- Fraderich, Gerhard: See—
- Heidecke, Reinhold, and Fraderich. 2,889,095.
- Fraebel, Robert J., and E. K. Irre, to The Garrett Corp. Life saving flotation device. 2,876,468, 3-10-59, Cl. 9-17.
- Fraga, Frank M. Hitch. 2,872,990, 2-10-59, Cl. 172-449.
- Fraga, Frank M. Adjustable hitch for offset disc plows. 2,874,975, 2-24-59, Cl. 280-467.
- Fraga, Frank M. Compensating hitch. 2,888,997, 6-2-59, Cl. 172-448.
- Fragale, Eleanor M. Clothes hamper. 2,895,782, 7-21-59, Cl. 312-290.
- Fragola, Caesar F.: See—
- Halpern, William, Depp, and Fragola. 2,887,873.
- Fraher, John T., to Consolidated Electrodynamics Corp. Vitreous enamel. 2,907,665, 10-6-59, Cl. 106-49.
- Frakes, Hershul S.,  $\frac{1}{2}$  to J. F. Tapp, and  $\frac{1}{2}$  to E. A. Tapp. Signaling means for oil filter. 2,879,892, 3-31-59, Cl. 210-90.
- Frakes, James H., to Westinghouse Electric Corp. Bushing for electrical apparatus. 2,889,395, 6-2-59, Cl. 174-140.
- Frailick, Jack F., to Continental Can Co., Inc. Dispensing container with friction mounted cap. 2,901,142, 8-25-59, Cl. 220-42.
- Frailick, Jack F., to Continental Can Co., Inc. Tablet box. 2,906,428, 9-29-59, Cl. 220-31.
- Frailish, Howard J., to Western Electric Co., Inc. Solder spraying device. 2,891,505, 6-23-59, Cl. 118-323.
- Fram Corp.: See—
- Chase, Charles B., and James. 2,877,902.
- Coates, Peter R., and Kamrath. 2,888,141.
- Duzich, John J. 2,893,561.
- Fitzgerald, Joseph N., Gernhardt, and Redmon. 2,872,043.
- Hockett, Carl G. 2,895,174.
- Paton, Joseph H., Sherrill, and Vander Pyl. 2,901,949.
- Vander Pyl, Chester A., Jr. 2,876,555.
- Frame S.A.: See—
- Gallay, Pierre H. 2,908,418.
- Frame, Thomas E., and G. R. Vaughan, to United States of America, Air Force. Cathode ray tube deflection circuit. 2,919,379, 12-29-59, Cl. 315-26.
- Frampton, Vernon L.: See—
- King, William H., Altschul, Dechary, and Frampton. 2,873,191.
- Francavillo, Thomas. Storage racks. 2,911,107, 11-3-59, Cl. 211-78.
- France, Albert F., II, to Burroughs Corp. Navigational instrument. 2,904,889, 9-22-59, Cl. 33-61.
- France, Edward L., and J. A. Hardman, to Utah Scientific Research Foundation. Vehicle and steerable endless tread therefor. 2,878,883, 3-24-59, Cl. 180-9.1.
- France, Herbert A. Shoe case. 2,906,407, 9-29-59, Cl. 211-34.
- France, Rollin C., and H. P. Wade, to The Standard Products Co. Lock structure for a vehicle deck lid or the like. 2,873,602, 2-17-59, Cl. 70-139.
- Franceschini, Lorenzo, to Officine Galileo Societa per Azioni. Shutter device for cameras provided with two or more objectives. 2,869,446, 1-20-59, Cl. 95-62.



- Francesco Vesmara S.p.A.: *See*—  
Cavallini, Guido, and Massarani. 2,885,434.
- Francioni, Roy: *See*—  
Ferriss, Frederick, and Gainfort. 2,879,726.
- Ferriss, Frederick, and Gainfort. 2,882,841.
- Francis, Charles B., to Puriron Chemicals, Inc. Metallurgical pickling. 2,877,146, 3-10-59, Cl. 134-13.
- Francis, Charles B., to Puriron and Chemicals, Inc. Production of ferrous sulfate. 2,880,062, 3-31-59, Cl. 23-126.
- Francis, Charles E., and N. Bulman, to Shell Development Co. Water-in-oil emulsion lubricants. 2,894,910, 7-14-59, Cl. 252-42.7.
- Francis, Charles E., and J. J. Weaver, to Shell Development Co. Water-in-oil lubricant and hydraulic fluid. 2,907,714, 10-6-59, Cl. 252-33.3.
- Francis, Frederick G., and D. J. Neale, to Caribonum Ltd. Leucauramine derivate of benzoyl leuco-methylene blue and transfer sheet coated therewith. 2,915,415, 12-1-59, Cl. 117-36.
- Francis, Geoffrey, Carport parking device. 2,917,190, 12-15-59, Cl. 214-16.1.
- Francis, Gerald A., to Hurd Lock and Mfg. Co. Assembling and securing apparatus. 2,909,950, 10-27-59, Cl. 78-1.
- Francis, Howard T.: *See*—  
Feinleib, Morris, Francis, and Graft. 2,902,531.
- Francis, John P. Automobile windshield weather protector. 2,869,562, 1-20-59, Cl. 135-5.
- Francis, John P. Fastening device. 2,873,007, 2-10-59, Cl. 189-36.
- Francis, John P. Supporting brackets for automobile awnings. 2,913,211, 11-17-59, Cl. 248-229.
- Francis, Joseph E., to Holley Carburetor Co. Engine governor mechanism. 2,867,196, 1-6-59, Cl. 123-103.
- Francis, Kenneth G.: *See*—  
McIntire, John W., and Francis. 2,910,961.
- Francis, Louis. Adjustable cleaning implement. 2,867,831, 1-13-59, Cl. 15-23.4.
- Francis, Norman L., and E. P. Berg, to Link-Belt Co. Heat exchanger. 2,884,229, 4-28-59, Cl. 257-81.
- Francis, Norman L., and M. J. Erisman, to Link-Belt Co. Heat exchanger. 2,899,176, 8-11-59, Cl. 257-86.
- Francis, Samuel R., and P. J. Gray, to The Sippican Corp. High density electronic packaging. 2,911,572, 11-3-59, Cl. 317-101.
- Francis, Stanley A.: *See*—  
Christensen, Edward R., and Francis. 2,914,581.
- Francis, Wallace R., to General Electric Co. Heating panel. 2,868,936, 1-13-59, Cl. 201-69.
- Francis, Wallace R., to General Electric Co. Adjustable panel mounting for cord connector. 2,869,094, 1-13-59, Cl. 339-59.
- Francis, Wallace R., said Francis assor, to General Electric Co. Prefolded cord and method of making same. 2,902,535, 9-1-59, Cl. 174-69.
- Francis, Walter C., Jr.: *See*—  
Greenwood, Marvin H., and Francis. 2,890,714.
- Francis, William C., and T. R. Hopkins, to Spencer Chemical Co. Amination of alpha-halo-epsilon-caprolactams. 2,876,218, 3-3-59, Cl. 260-239.3.
- Francisco, Allen C.: *See*—  
Maxwell, William A., Gurnick, and Francisco. 2,893,102.
- Francisco, Cecil J., and T. H. Schultz, to Sinclair Refining Co. Catalytic cracking system. 2,871,186, 1-27-59, Cl. 208-147.
- Frank, Ernest W., and S. A. Schettini, to Reeves Soundcraft Corp. Method of applying a magnetic sound track stripe to a film. 2,879,176, 3-24-59, Cl. 117-44.
- Frank, George E., to The Imperial Brass Mfg. Co. Tube bending tool. Re. 24,726, 10-27-59, Cl. 153-40.
- Frank, George E., to The Imperial Brass Mfg. Co. Flaring tool. 2,892,480, 6-30-59, Cl. 153-79.
- Frank, George E., to The Imperial Brass Mfg. Co. Flaring and burnishing tool with lost motion connection. 2,893,464, 7-7-59, Cl. 153-79.
- Frank, George E., to The Imperial Brass Mfg. Co. Fluid charge dispenser. 2,893,603, 7-7-59, Cl. 222-83.
- Frank, George E., to The Imperial Brass Mfg. Co. Tube coupling allowing limited axial movement of the tube. 2,912,262, 11-10-59, Cl. 285-231.
- Frank, George E., and H. L. Philippe, to The Imperial Brass Mfg. Co. Soap dispenser. 2,898,016, 8-4-59, Cl. 222-501.
- Frank, Heinz G.: *See*—  
Moehrl, Eduard, Max, and Frank. 2,885,406.
- Frank, Jack V., to United States of America, Atomic Energy Commission. Cavity excitation circuit. 2,909,731, 10-20-59, Cl. 331-9.
- Frank, Jack V., P. S. Broadhead, and E. W. Skiff, to United States of America, Atomic Energy Commission. Measuring projector. 2,895,053, 7-14-59, Cl. 250-202.
- Frank, Kurt, to Holophane Co., Inc. Ceiling luminaire. 2,887,568, 5-19-59, Cl. 240-93.
- Frank, Robert J., to Superior Steel & Malleable Castings Co. Vehicle axle. 2,911,262, 11-3-59, Cl. 301-124.
- Franken, Jan C.: *See*—  
Bruining, Hajo, Franken, and Schagen. 2,869,024.
- Van Alphen, Pieter M., van Doorn, and Franken. 2,882,432.
- Franken, Jan C., to North American Philips Co., Inc. Cathode-ray tube for the reproduction of colour television images. 2,890,362, 6-9-59, Cl. 313-85.
- Frank, Josef, and J. S. Logiudice, to Owens-Illinois Glass Co. Sealing glass parts. 2,918,757, 12-29-59, Cl. 49-82.
- Franco-British Electrical Co. Ltd., The: *See*—  
Brackensee, Auguste H. 2,867,049.
- Franco, George A.: *See*—  
Alphenaar, Arthur W., Baxter, and Franco. 2,897,269.
- Franco, Vincent B., to Vincraft Inc. Waterproof plastic heating pad. 2,873,352, 2-10-59, Cl. 219-46.
- François, Marcel, to Societe Nouvelle de Tuyoux Flexibles et de Forge (S.N.T.F.)-Electroforge. Flexible pipes. 2,879-803, 3-31-59, Cl. 138-56.
- Francois, Paul A. Agricultural semi-trailers. 2,892,659, 6-30-59, Cl. 298-22.
- Francotte, Pierre G.-J. Frame construction. 2,888,718, 6-2-59, Cl. 20-11.
- Frane, William R., and M. C. Gillis, to Pan American Petroleum Corp. Gas lifting dually-completed wells. 2,896,547, 7-28-59, Cl. 103-238.
- Frangell, Albert A.: *See*—  
Hornig, James W. 2,919,085.
- Frangoulis, Stamatis I.: *See*—  
Newell, William H., Burgess, Zabb, and Frangoulis. 2,888,195.
- Newell, William H., Burgess, Zabb, and Frangoulis. 2,888,203.
- Frank, Anton R., and W. H. Giles, to Van Buren Machine Corp. Wrapping mechanism and a method of wrapping articles. 2,911,774, 11-10-59, Cl. 53-27.
- Frank, Anton R., and W. H. Giles, to Van Buren Machine Corp. Wrapping machines. 2,915,867, 12-8-59, Cl. 53-230.
- Frank, Benjamin E. Solderless connector. 2,910,525, 10-27-59, Cl. 174-87.
- Frank, Bernard E., M. E. Hazen, and F. H. Stroud, to General Motors Corp. Small hole drilling machine. 2,885,914, 5-12-59, Cl. 77-32.4.
- Frank, Bernard M. Combined writing plate and price calculator. 2,871,582, 2-3-59, Cl. 35-64.
- Frank, Charles E., and H. Greenberg, to National Distillers and Chemical Corp. Polyamides from diphenyladipic acid. 2,880,196, 3-31-59, Cl. 260-78.
- Frank, Charles E., and H. Greenberg, to National Distillers and Chemical Corp. Polyesters of diphenyladipic acid and process of making same. 2,902,461, 9-1-59, Cl. 260-45.4.
- Frank, Charles W., to General Telephone Laboratories, Inc. Multiple relay assembly. 2,903,520, 9-8-59, Cl. 179-27.54.
- Frank, Clayton M.: *See*—  
Agne, Robert W., and Frank. 2,895,197.
- Frank, David. Dish box. 2,892,561, 6-30-59, Cl. 220-4.
- Frank-Dewey Co., Inc., The: *See*—  
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- Frank, Gunter: *See*—  
Wegler, Richard, and Frank. 2,884,406.
- Frank, Gunter, R. Wegler, and W. Krauss, to Farbenfabriken Bayer Akt. Process for preparing basic N-diepoxydes. 2,891,970, 6-23-59, Cl. 260-348.6.
- Frank, Harry S. Pocket ground screw. 2,901,789, 9-1-59, Cl. 20-99.
- Frank, Hubert, and E. Wilkendorf. Process for the production of silicon carbide. 2,908,553, 10-13-59, Cl. 23-208.
- Frank, Karl F., to Micro Balancing, Inc. Three ball mount. 2,899,827, 8-18-59, Cl. 73-475.
- Frank, Karl F., to Micro Balancing, Inc. Light sensitive control means. 2,900,520, 8-18-59, Cl. 250-206.
- Frank, Lewis C., to Frank Plastics Corp. Method of mounting decorative indicia. 2,904,918, 9-22-59, Cl. 41-34.
- Frank, Mark H.: *See*—  
Leach, Clayton B., and Frank. 2,899,015.
- Frank, Mark H., to General Motors Corp. Eccentric bushing. 2,887,900, 5-26-59, Cl. 74-567.
- Frank, Orville C.: *See*—  
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- Frank, Paul A., and R. R. Curtis, to Curtis Automotive Devices, Inc. Jet pulse engine and starting and running fuel system. 2,872,783, 2-10-59, Cl. 60-39.14.
- Frank, Peter. Heel rest for pulling-over machines. 2,875,456, 3-3-59, Cl. 12-123.
- Frank Plastics Corp.: *See*—  
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- Frank, Ralph W., Jr., to R. W. Frank, Sr. Radar training and demonstration equipment. 2,889,637, 6-9-59, Cl. 35-10.4.
- Frank, Ralph W., Sr.: *See*—  
Frank, Ralph W., Jr. 2,889,637.
- Frank, Raymond G., to F. J. Stokes Corp. Powder press with proportional pressing control. 2,883,703, 4-28-59, Cl. 18-16.7.
- Frank, Raymond G., to F. J. Stokes Corp. Proportional pressing. 2,888,715, 6-2-59, Cl. 18-59.3.
- Frank, Raymond G., to F. J. Stokes Corp. Pill press apparatus. 2,906,214, 9-29-59, Cl. 107-1.
- Frank, Robert L., to Sperry Rand Corp. Automatic direction of scan control system for photoscanners. 2,916,629, 12-8-59, Cl. 250-201.
- Frank, S. M., & Co., Inc.: *See*—  
Fassbender, Fred. 2,881,773.
- Frank, Wallace E., and F. F. Ohntrup, to W. K. Kellogg Foundation. Device for detecting and indicating proximity of objects. 2,870,427, 1-20-59, Cl. 340-16.
- Frank, Wallace J., to Jersey Production Research Co. Method of tracing the flow of water. 2,868,625, 1-13-59, Cl. 23-230.
- Frank, Yale J. Means for displaying clothing ensembles. 2,879,929, 3-31-59, Cl. 223-91.



- Franke, Dallas V., to Gilfillan Bros. Inc. Electric computer using non-linear circuit elements for deriving a voltage representative of an ideal flight path. 2,871,469, 1-27-59, Cl. 343-11.
- Franke, Egon: *See*—  
 Franke, Erich and Egon. 2,917,351.
- Franke, Erich and Egon, to Firma Franke & Heydrich K.G. Bearings. 2,917,351, 12-15-59, Cl. 308-174.
- Franke, Erwin: *See*—  
 Opperbeck, Fritz, Franke, and Trapp. 2,893,919.
- Franke, Gerhard E., to Klockner-Humboldt-Deutz Akt. Cylinder head. 2,891,523, 6-23-59, Cl. 123-32.
- Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate: *See*—  
 Bretthauer, Hermann, and Albrecht. 2,912,913.  
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 Heidecke, Reinhold, Bretthauer, and Madge. 2,912,912.  
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- Franke, Norman W.: *See*—  
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- Franke, Norman W., and P. B. Kelly, to Gulf Research & Development Co. Oxidation of naphthenic acids to polybasic acids. 2,890,247, 6-9-59, Cl. 260-537.
- Franke, Walter: *See*—  
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- Frankel Associates, Inc.: *See*—  
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- Frankel, Burton, and F. B. Cupp, to Clevite Corp. Echo elongator. 2,887,671, 5-19-59, Cl. 340-3.
- Frankel, Harry: *See*—  
 Moskovitz, Milton A. 2,873,130.  
 Moskovitz, Milton A. 2,880,026.  
 Moskovitz, Milton A. 2,885,235.
- Frankel, Melvin, and W. B. Shank, to United States of America, Atomic Energy Commission. Apparatus for testing expansion of movable members. 2,887,876, 5-26-59, Cl. 73-52.
- Frankel, Milton B., and K. Klager, to Aerojet-General Corp. Polynitro amino dialkanoate. 2,880,232, 3-31-59, Cl. 260-482.
- Frankel, Morris. Packaging or wrapping devices. 2,884,183, 4-28-59, Cl. 229-68.
- Frankel, Morris. Plastic containers. 2,915,214, 12-1-59, Cl. 220-31.
- Frankel, Samuel R.: *See*—  
 Hunt, Harry C. and Frankel. 2,909,307.
- Frankel, Sydney, to Web Controls Corp. Oil-cooled electromagnetic brake or clutch. 2,884,107, 4-28-59, Cl. 192-84.
- Frankel, Sydney to Web Controls Corp. Control device. 2,884,495, 4-28-59, Cl. 200-61.13.
- Frankel, Wm. W.: *See*—  
 Britcher, Charles W. 2,869,482.
- Franken, Adrianus J. J.: *See*—  
 Van Dorsten, Adrianus C., and Franken. 2,910,603.
- Franken, Wilhelm: *See*—  
 Schwank, Gunther, and Franken. 2,870,830.
- Frankenberg, Henry E.: *See*—  
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- Frankenfeld, Bruce E., and A. E. Miller, to Western Electric Co., Inc. Rolling mill conveyor control systems. 2,900,852, 8-25-59, Cl. 80-43.
- Frankenhoff, Charles A. Fly ash. 2,892,240, 6-30-59, Cl. 25-157.
- Frankenstein, William P. Cake lift. 2,896,834, 7-28-59, Cl. 229-30.
- Frankenstein, William P. Cartons. 2,903,174, 9-8-59, Cl. 229-16.
- Frankenstein, William P. Carton. 2,916,194, 12-8-59, Cl. 229-33.
- Frankenstein, William P. Carton. 2,917,222, 12-15-59, Cl. 229-41.
- Frankert, Otto P., to F. L. Smidth & Co. Grinding mills with classifying linings. 2,885,155, 5-5-59, Cl. 241-153.
- Frankfurt, Sandor, to Champion Safe Tap Co. Tapping device. 2,883,999, 4-28-59, Cl. 137-170.1.
- Frankle, Harry R.: *See*—  
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- Frankle, Harry R., and D. W. Watson, to Midwest Automatic Control Co. Photoelectric counter. 2,908,825, 10-13-59, Cl. 250-214.
- Frankle, Harry R., and P. T. Crane. Paper feed. 2,912,240, 11-10-59, Cl. 271-20.
- Franklin, Albert W. Resistor grid and method of making. 2,886,854, 5-19-59, Cl. 18-59.
- Franklin, Burton E., Jr., and B. A. Bird; said Bird assor. to said Franklin. Battery actuated fuel pump. 2,891,481, 6-23-59, Cl. 103-41.
- Franklin, Charles E., to Phillips Petroleum Co. Liquid fertilizer with predetermined nitrogen-phosphorus pentoxide-water ratio. 2,917,380, 12-15-59, Cl. 71-34.
- Franklin, David W., and J. E. Minick, to United States Steel Corp. Apparatus for downtilting heavy articles. 2,889,912, 6-9-59, Cl. 198-33.
- Franklin, Dwaine R., to United States of America, Air Force. Streamlined jet aircraft tow target holder. 2,918,285, 12-22-59, Cl. 273-105.3.
- Franklin, Edna M. Dressmaker's pattern gauge. 2,869,236, 1-20-59, Cl. 33-2.
- Franklin, Edna M. Bodice garment. 2,879,515, 3-31-59, Cl. 2-110.
- Franklin, Harrison H.: *See*—  
 Keller, Philip B. 2,903,148.
- Franklin Institute of the State of Pennsylvania, The: *See*—  
 Campbell, Robert B. 2,879,154.
- Franklin, John B., to Sanford Process Co., Inc. Electrolytic process for producing oxide coatings on aluminum and aluminum alloys. 2,897,125, 7-28-59, Cl. 204-58.
- Franklin, John B., to Sanford Process Co., Inc. Process for producing oxide coatings on aluminum and aluminum alloys. 2,905,600, 9-22-59, Cl. 204-42.
- Franklin, Leslie U.: *See*—  
 Elliott, Marshall, and Franklin. 2,872,413.  
 Gebhart, Julius C., and Franklin. 2,884,234.
- Franklin, Leslie U., and J. C. Gebhart, to Gulf Oil Corp. Sulfonate and sulfo-carboxylate containing sodium base grease. 2,889,280, 6-2-59, Cl. 252-33.2.
- Franklin Mfg. Co.: *See*—  
 Dawkins, Kenneth, and Lind. 2,912,650.
- Franklin, Philip J.: *See*—  
 Schwarz, Meyer, and Franklin. 2,895,000.
- Franklin Research Co.: *See*—  
 Dunbar, Alver, Hausmann, and Johnson. 2,907,681.
- Franklin, Richard C., and J. R. McCarthy, to E. I. du Pont de Nemours and Co. Stabilization of chloroanilines under thermal stress. 2,911,340, 11-3-59, Cl. 202-57.
- Franklin, Richard E.: *See*—  
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- Franklin, Sandford G., to General Electric Co. Photoelectric systems. 2,911,881, 11-10-59, Cl. 88-14.
- Franklin, William E. Mailbox. 2,902,211, 9-1-59, Cl. 232-17.
- Franklin, William J.: *See*—  
 Mintz, Milton S., Vernier, Ainsley, and Franklin. 2,881,276.
- Franks, Charles E., to United States Steel Corp. Device for packaging coiled material. 2,868,370, 1-13-59, Cl. 206-65.
- Franks, Norvin H., to Union Asbestos & Rubber Co. Framing connector. 2,895,186, 7-21-59, Cl. 20-95.
- Frans, Robert D. Opening device. 2,900,716, 8-25-59, Cl. 30-16.
- Fransen, Jacobus, to North American Philips Co., Inc. X-ray tube voltage control circuit. 2,870,340, 1-20-59, Cl. 250-103.
- Fransen, Jan J. B., to North American Philips Co., Inc. Getter holder. 2,881,909, 4-14-59, Cl. 206-4.
- Fransson, Frans J., to Svenska Aktiebolaget Gasaccumulator. Arrangement in directed radio beacons. 2,892,190, 6-23-59, Cl. 343-107.
- Fransson, Frans J., and T. U. L. Burmeister, to Svenska Aktiebolaget Gasaccumulator. Radio beacon of complementary code type. 2,904,784, 9-15-59, Cl. 343-107.
- Fransson, Fritz W.: *See*—  
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- Fransson, Otto I. Luminous chartreading and orientation device. 2,891,326, 6-23-59, Cl. 35-62.
- Frant, Martin S.: *See*—  
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- Frantz, Charles E., and T. B. Correy, to United States of America, Atomic Energy Commission. Apparatus and method for welding end closure to container. 2,898,444, 8-4-59, Cl. 219-124.
- Frantz, Franklin D., Jr., to Sprague Electric Co. Electrical capacitors. 2,882,472, 4-14-59, Cl. 317-259.
- Frantz, Frederick H., to General Aniline & Film Corp. Gaseous developing apparatus for light printing machines. 2,887,942, 5-26-59, Cl. 95-94.
- Frantz, Frederick H., to General Aniline & Film Corp. Process for automatic disposal of waste ammonia developer in dry printing and developing machines. 2,895,824, 7-21-59, Cl. 96-48.
- Frantz, Frederick H., to General Aniline & Film Corp. Diazotype printing and developing apparatus. 2,918,857, 12-29-59, Cl. 95-77.5.
- Frantz, Nicholas: *See*—  
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- Frantz, Nicholas, to Carter Parts Co. Wire-form current control device. 2,901,565, 8-25-59, Cl. 200-51.1.
- Frantz, Nicholas, to Carter Parts Co. Wire-form current control device. 2,909,615, 10-20-59, Cl. 179-96.
- Frantz, Virgil L., Graham-White Sales Corp. Solenoid valve plunger. 2,887,126, 5-19-59, Cl. 137-625.27.
- Frantz, Wilbert P., to Sperry Rand Corp. Positional control system for photoscanner. 2,892,948, 6-30-59, Cl. 250-202.
- Frantz, William, to Curtiss-Wright Corp. Computer for automatic controls. 2,910,084, 10-27-59, Cl. 137-85.
- Franz, Carl J.: *See*—  
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- Franz, Erwin E., to Bell Telephone Laboratories, Inc. Electrical socket for miniature components. 2,870,424, 1-20-59, Cl. 339-17.
- Franz, Gunther, to J. M. Voith Maschinenfabrik, G. m. b. H. Sealing means for the driving shaft of cycloidal boat propellers. 2,872,891, 2-10-59, Cl. 115-50.
- Franz, Heinrich: *See*—  
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- Franz, Hermann: *See*—  
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- Franz, Hermann, H. Langner, and H. Westerhoff, to Edeleann Gesellschaft m. b. H. Method of separating n-paraffins from hydrocarbons. 2,872,409, 2-3-59, Cl. 208-25.
- Franz, Raymond A.: *See*—  
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 Applegath, Fred, and Franz. 2,877,268.  
 Applegath, Fred, and Franz. 2,915,525.
- Franz, Raymond A., to Monsanto Chemical Co. Acetylene solvent. 2,868,328, 1-13-59, Cl. 183-115.
- Franzblau, Abraham and R. Window construction. 2,917,792, 12-22-59, Cl. 20-52.2.
- Franzblau, Robert: *See*—  
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- Franzreb, John K. Combination attachment for a smoking pipe. 2,909,181, 10-20-59, Cl. 131-183.
- Franzus, Boris: *See*—  
 Opheim, Milton H., and Franzus. 2,877,214.  
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- Frasch, Mary E. Foldable copyholder and supporting standard. 2,918,038, 12-22-59, Cl. 120-33.
- Fraser, Alan R., to Chromium Mining & Smelting Corp., Ltd. Process of making a bonded exothermic composition. 2,888,342, 5-26-59, Cl. 75-3.
- Fraser, Clark L. Dual purpose gear puller and driver. 2,872,728, 2-10-59, Cl. 29-256.
- Fraser, Donald, deceased, G. C. Fraser, executrix, to National Research Council. Icing detector. 2,914,755, 11-24-59, Cl. 340-234.
- Fraser, Douglas: *See*—  
 Parkinson, Martin C., Fraser, and Bender. 2,907,117.  
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- Fraser, George L., to Owens-Illinois Glass Co. Water cooled skimmer glass furnace forehearth. 2,888,781, 6-2-59, Cl. 49-54.
- Fraser, George L., and C. Elmer, to Monsanto Chemical Co. Internally plasticized melamine resins. 2,916,410, 12-8-59, Cl. 154-43.
- Fraser, Gladys C.: *See*—  
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- Fraser, Herbert C.: *See*—  
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- Fraser, Hugh D., to Westinghouse Electric Corp. Discharge lamp manufacture. 2,892,665, 6-30-59, Cl. 316-26.
- Fraser, James: *See*—  
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- Fraser, James, and E. S. McLean, to Speakman Co. Transfer valve. 2,906,293, 9-29-59, Cl. 137-625.42.
- Fraser, James, and E. S. McLean, to Speakman Co. Jet action cross T fitting. 2,910,009, 10-27-59, Cl. 103-262.
- Fraser & Johnston Co.: *See*—  
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- Fraser, Julius T., to General Precision Laboratory Inc. Machine programming control. 2,870,389, 1-20-59, Cl. 318-162.
- Fraser, Kenneth G.: *See*—  
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- Fraser, Reginald P. Method of marking compositions with an indelible ink and composition therefor. 2,880,108, 3-31-59, Cl. 117-1.
- Fraser, Robert W., to United-Carr Fastener Corp. Electrical switch. 2,899,511, 8-11-59, Cl. 200-61.81.
- Fraser, Robert W., and V. R. Herterick, to United-Carr Fastener Corp. Lamp socket with panel mounting. 2,884,609, 4-28-59, Cl. 339-17.
- Fraser, Walter A.: *See*—  
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- Fraser, Walter A. Optical glass domes. 2,880,650, 4-7-59, Cl. 88-59.
- Fraser, Walter A., to Servo Corp. of America. Glass composition. 2,883,291, 4-21-59, Cl. 106-47.
- Fraser, Walter B., to Fountain of Youth Properties, Inc. Global exhibitor. 2,883,768, 4-28-59, Cl. 35-46.
- Fraser, William M., and W. E. Brush, to Westinghouse Electric Corp. Method of cladding molybdenum. 2,871,150, Cl. 148-115.
- Frasier, Gerald W.: *See*—  
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- Frate, Domenico C., and D. G. Stetka, to Western Electric Co., Inc. Adjustable and disassemblable reel. 2,905,408, 9-22-59, Cl. 242-118.5.
- Fratelli Borletti D.p.a.: *See*—  
 Amman, Giuseppe. 2,883,951.
- Frauenholtz, John E. Spark plug tool. 2,882,605, 4-21-59, Cl. 33-162.
- Fraula, William S., and W. J. Olson, to American Brake Shoe Co. Molding press for brake linings. 2,885,731, 5-12-59, Cl. 18-16.
- Fraula, William S., E. R. Knauer, and R. E. Spokes, to American Brake Shoe Co. Railroad brake shoes. 2,911,074, 11-3-59, Cl. 188-251.
- Frautschi, André, and L. Monnev. Fluid-controlled boring machine. 2,873,629, 2-17-59, Cl. 77-32.2.
- Frazer, Theodore, to The Goodyear Tire & Rubber Co. Hydraulic brake operating cylinder and releasing grip compensator therefor. 2,888,104, 5-26-59, Cl. 188-73.
- Frazer, Theodore, and J. W. Runner, to The Goodyear Tire & Rubber Co. Constant clearance brake adjuster. 2,900,052, 8-18-59, Cl. 188-73.
- Frayne, David N.: *See*—  
 Frayne, John S. and D. N. 2,891,804.
- Frayne, John S. and D. N. Vehicle body rigidifying device and mounting for passenger harness. 2,891,804, 6-23-59, Cl. 280-150.
- Frazer, August H., and E. J. Goldberg, to E. I. du Pont de Nemours and Co. Polyurethane diamines. 2,888,440, 5-26-59, Cl. 260-77.5.
- Frazer, Jack W., to United States of America, Atomic Energy Commission. Method for producing isotopic methanes and partially halogenated derivatives thereof. 2,900,424, 8-18-59, Cl. 260-658.
- Frazer, Jack W., to United States of America, Atomic Energy Commission. Method for producing isotopic methanes from lithium carbonate and lithium hydride. 2,910,519, 10-27-59, Cl. 260-676.
- Frazier, Charles, and J. H. Fortune, to American Cyanamid Co. Emulsions of acrylic polymers. 2,868,748, 1-13-59, Cl. 260-27.
- Frazier, Charles, and J. H. Fortune, to American Cyanamid Co. Stable emulsion containing an acrylate, an acrylic acid, and an acrylonitrile. 2,868,752, 1-13-59, Cl. 260-29.6.
- Frazier, Donald, to Midland Machine Corp. Storage rack. 2,895,619, 7-21-59, Cl. 211-147.
- Frazier, George A., and R. A. Sexton, to General Dynamics Corp. Portable tool analyzer. 2,911,822, 11-10-59, Cl. 73-116.
- Frazier, Raymond L., and R. D. Harrison, to Tidewater Oil Co. Automatic burner fuels and process of making them. 2,892,769, 6-30-59, Cl. 208-15.
- Frazier, Robert H., to United States of America, Navy. Low-transition-temperature steel alloy. 2,919,187, 12-29-59, Cl. 75-124.
- Frazier, William B.: *See*—  
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- Frazier, William D., and W. E. Wiseley, to Hughes Aircraft Co. Electrical mounting devices. 2,915,678, 12-1-59, Cl. 317-101.
- Frazza, Everett J., and L. Rapoport, to American Cyanamid Co.  $\beta,\beta'$ -dicyanovinyl thioether. 2,916,511, 12-8-59, Cl. 260-465.8.
- Frech, Kenneth J., and R. C. Odioso, to Gulf Research & Development Co. Catalytic alkylation process. 2,909,581, 10-20-59, Cl. 260-683.43.
- Freche, John C., to United States of America, Navy. Air-cooled blade. 2,896,907, 7-28-59, Cl. 253-39.15.
- Frechette, Kenneth R., to Royal McBee Corp. Spring type clutch and brake devices. 2,885,042, 5-5-59, Cl. 192-12.
- Frechette, Leo P., to Royal McBee Corp. Impression control device. 2,907,436, 10-6-59, Cl. 197-17.
- Frechie, Meyer J.: *See*—  
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- Fredd, John V.: *See*—  
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- Fredd, John V., to Otis Engineering Corp. Locking devices for well tools. 2,871,947, 2-3-59, Cl. 166-219.
- Fredd, John V., to Otis Engineering Corp. Pipe line caliper. 2,875,525, 3-3-59, Cl. 33-178.
- Fredd, John V., to Otis Engineering Corp. Apparatus and method for cutting well tubing. 2,880,804, 4-7-59, Cl. 166-55.8.
- Fredd, John V., to Otis Engineering Corp. Well tubing plug. 2,884,071, 4-28-59, Cl. 166-137.
- Fredd, John V., and H. B. Schramm, to Otis Engineering Corp. Well tubing extension hanger and plug. 2,908,330, 10-13-59, Cl. 166-46.
- Fredenburg-Inglesby, Julius C.: *See*—  
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- Fredendall, Gordon L., to Radio Corp. of America. Color television. 2,895,004, 7-14-59, Cl. 178-5.4.
- Frederick, Arden H.: *See*—  
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- Frederick, Arthur I.: *See*—  
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- Frederick, Edward R., and G. A. Bartholomew, to Albany Felt Co. Method of changing the bulk density of powdered materials. 2,896,263, 7-28-59, Cl. 18-48.
- Frederick, Harold M.: *See*—  
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- Frederick, Henry E., to General Binding Corp. Unitary punch and binder. 2,898,613, 8-11-59, Cl. 11-1.
- Frederick, Herbert S., and M. A. Kinsella, to United States of America, Atomic Energy Commission. Elevating mechanism. 2,874,852, 2-24-59, Cl. 214-1.
- Frederick, James E.: *See*—  
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 Everitt, Allen L., Frederick, and Mayer. 2,879,090.
- Frederick, James E., to Westinghouse Electric Corp. Basic governor controlled fuel system. 2,909,671, 10-20-59, Cl. 290-40.
- Frederick, James E., and J. T. Liebel, to Westinghouse Electric Corp. Electric governor for prime movers. 2,909,670, 10-20-59, Cl. 290-4.



- Frederick, Leonard L., to McKiernan-Terry Corp. Pile hammer operable with either diesel or drop hammer effect. 2,882,690, 4-21-59, Cl. 61-76.
- Frederick, Max, Jr.: *See—*  
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- Frederick, Oscar C., to General Electric Co. Fuse link for a time-lag fuse and method of constructing the link. 2,876,312, 3-3-59, Cl. 200-135.
- Frederick, Ralph A. Caps for collapsible tube dispensers. 2,878,976, 3-24-59, Cl. 222-498.
- Frederick, Raymond H.: *See—*  
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- Fredericks, George W., to Bell Telephone Laboratories, Inc. Alarm apparatus for announcement systems. 2,917,730, 12-15-59, Cl. 340-213.
- Fredericks, William, to North American Aviation, Inc.: Terminal protective device. 2,875,266, 2-24-59, Cl. 174-138.
- Frederickson, Einar H.: *See—*  
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- Frederickson, Fred. Pelt fleshing apparatus. 2,910,856, 11-3-59, Cl. 69-46.
- Frederico, Blossy D., to Bird Electronic Corp. High frequency measuring instrument and resistance unit. 2,875,405, 2-24-59, Cl. 324-95.
- Frederico, Blossy D. Co-axial resistive load. 2,894,219, 7-7-59, Cl. 333-22.
- Frederiksen, Jordan W., Sr. Fishing lure. 2,885,818, 5-12-59, Cl. 43-42.6.
- Fredette, Joseph H., R. K. Pottle, and R. P. Swartz, to American Can Co. Tamperproof screw closure. 2,892,572, 6-30-59, Cl. 222-153.
- Fredrick, Arden H., to General Precision Laboratory Inc. Pulse radar transmitter-receiver. 2,869,119, 1-13-59, Cl. 343-17.1.
- Fredrick, Arden H., and L. T. Winship, to General Precision Laboratory Inc. Q-gated amplifier. 2,900,455, 8-18-59, Cl. 179-171.
- Fredrick, Jerome F., to The Dodge Chemical Co. Bactericidal-fungicidal compositions. 2,918,402, 12-22-59, Cl. 167-33.
- Fredrick, Russell E., and C. R. Manser, to Minnesota Mining and Mfg. Co. Electrical conductor elements, method of making same, and contacts therefor. 2,890,260, 6-9-59, Cl. 136-5.
- Fredrick, William H., 1/2 to N. Gilbert. Storage and display device. 2,905,335, 9-22-59, Cl. 211-162.
- Fredricksen, Vern P., to Andersen Corp. Window casing construction. 2,867,014, 1-6-59, Cl. 20-74.
- Fredricksen, Vern P., and L. W. Ward, to Andersen Corp. Window structure. 2,867,009, 1-6-59, Cl. 20-42.
- Fredrickson, Bert E. Repeating shot archery bow with double sight. 2,909,167, 10-20-59, Cl. 124-24.
- Fredrickson, Carl T., to Swift & Co. Hog polisher. 2,898,624, 8-11-59, Cl. 17-17.
- Fredriks, Theodore R. Vehicle ventilation windows. 2,905,503, 9-22-59, Cl. 296-44.
- Fredriksson, Per S. E., to Aktiebolaget Svenska Metallverken. Drawbenches. 2,895,597, 7-21-59, Cl. 205-3.
- Fredriksson, Per S. E., A. I. Arnelo, K. B. Lofgren, and L. G. W. Lotvik, to Aktiebolaget Svenska Metallverken. Apparatus for removing the casting in continuous casting processes. 2,898,650, 8-11-59, Cl. 22-57.2.
- Free, Helen M., to Miles Laboratories, Inc. Indicator for detecting glucose. 2,912,309, 11-10-59, Cl. 23-253.
- Free Lock Corp.: *See—*  
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- Freeberg, Benjamin F., to Vapor Heating Corp. Variable resistance device. 2,906,981, 9-29-59, Cl. 338-27.
- Freed, Bernard: *See—*  
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- Freed, George H. Hand gun grip. 2,903,811, 9-15-59, Cl. 42-74.
- Freed, Jacob B., to The Duriron Co. Lined valve. 2,913,219, 11-17-59, Cl. 251-288.
- Freeder, Herman, to The B. F. Goodrich Co. Electrostatic flocking apparatus. 2,889,805, 6-9-59, Cl. 118-627.
- Freeland, Royden R. Coaxial switch. 2,914,639, 11-24-59, Cl. 200-153.
- Freedlander, Abraham L., to The Dayton Rubber Co. Furniture construction. 2,869,148, 1-20-59, Cl. 5-210.
- Freedlander, Abraham L., to The Dayton Rubber Co. Rubber apron. 2,870,490, 1-27-59, Cl. 19-153.
- Freedlander, Abraham L., to The Dayton Rubber Co. Wheel cover for vehicles. 2,906,312, 9-29-59, Cl. 152-323.
- Freedman, George, to Raytheon Co. Fabrication of junction transistors. 2,916,408, 12-8-59, Cl. 148-1.5.
- Freedman, Harold H.: *See—*  
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- Freedman, Larry A., to Radio Corp. of America. Signal amplitude discriminatory circuit. 2,913,523, 11-17-59, Cl. 178-7.3.
- Freedman, Lawrence I.: *See—*  
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- Freedman, Louis: *See—*  
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- Freedman, Louis, and S. L. Shapiro, to U.S. Vitamin Corp. Diethylstilbestrol bis- $\beta$ -bromopropionate. 2,880,231, 3-31-59, Cl. 260-479.
- Freedman, Louis, A. J. Merritt, and S. A. Sadin, to U.S. Vitamin Corp. Solutions of citrus bioflavonoids. 2,888,381, 5-26-59, Cl. 167-81.
- Freedman, Louis, S. L. Shapiro, and K. Geiger, to U.S. Vitamin Corp. N-methylglucamine salts of alpha-naphthyl and acyl 1,3-indandione and methods of using same. 2,919,229, 12-29-59, Cl. 167-65.
- Freedman, Melvin, and S. Raynor, to United States of America, Atomic Energy Commission. Cutting and wedging jacket remover. 2,880,636, 4-7-59, Cl. 81-9.51.
- Freedman, Nathan, to Raytheon Mfg. Co. Series-parallel transistor circuits. 2,882,353, 4-14-59, Cl. 179-171.
- Freedman, Nathan, to Raytheon Co. Phase distortion controls. 2,915,601, 12-1-59, Cl. 179-171.
- Freedman, Nathan, to Raytheon Co. Automatic frequency control responsive to carrier frequency of distinctive pulse and preventing drift during signal failure. 2,915,626, 12-1-59, Cl. 250-20.
- Freedman, Richard: *See—*  
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Freedman, Robert and Richard. Straight line switch. 2,889,427, 6-2-59, Cl. 200-104.
- Freedom, Thomas C., to AMP Inc. Crimping tools. 2,887,916, 5-26-59, Cl. 81-15.
- Freeman, Alfred and D. R. Profile reader and conveyor systems. 2,896,769, 7-23-59, Cl. 198-38.
- Freeman, Arthur H.: *See—*  
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- Freeman Chemical Corp.: *See—*  
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- Freeman Corp.: *See—*  
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- Freeman, David A.: *See—*  
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- Freeman, David A. Press plate assembly. 2,880,529, 4-7-59, Cl. 38-66.
- Freeman, Doris R.: *See—*  
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- Freeman, E. W.: *See—*  
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- Freeman, Frank G., to Joseph Lucas (Industries) Ltd. Fluid pressure relief valves. 2,904,066, 9-15-59, Cl. 137-493.
- Freeman, Harry. Conveyor chain. 2,893,540, 7-7-59, Cl. 198-177.
- Freeman, Holland H., to Consolidated Electrodynamics Corp. Galvanometer support. 2,904,754, 9-15-59, Cl. 324-156.
- Freeman, Horace, to Freeman Corp. Thermochemical lancing and cutting powders and method of preparing same for use in oxygen suspension. 2,916,373, 12-8-59, Cl. 75-5.
- Freeman, Howard G., and O. R. Vandreuil, to Jamesbury Corp. Seal for valve bonnet. 2,912,217, 11-10-59, Cl. 251-214.
- Freeman, Ian P.: *See—*  
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- Freeman, James H., to Westinghouse Electric Corp. Conversion of thermoplastic resins to thermoset resins. 2,875,179, 2-24-59, Cl. 260-59.
- Freeman, James J., to Kenell & Esser Co. Tape case. 2,914,269, 11-24-59, Cl. 242-84.8.
- Freeman, Jeff E. Automatic container filler. 2,898,954, 8-11-59, Cl. 141-86.
- Freeman, Jeff E., to Lek Trol, Inc. Lawn sprinkler controller. 2,911,156, 11-3-59, Cl. 239-63.
- Freeman, Lawrence W., to Plax Corp. Container cover. 2,913,139, 11-17-59, Cl. 220-60.
- Freeman, Leon D.: *See—*  
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- Freeman Mfg. Co.: *See—*  
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- Freeman, Marshall E. C.: *See—*  
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- Freeman, Marshall E. C., to Food Machinery and Chemical Corp. Fruit holder. 2,901,013, 8-25-59, Cl. 146-43.
- Freeman, Marshall E. C., S. H. Creed, and A. J. Bardini, to Food Machinery and Chemical Corp. Feeder and stem end cutter for fruit preparation machine. 2,905,216, 9-22-59, Cl. 146-81.
- Freeman, Mathew L. Valves. 2,867,239, 1-6-59, Cl. 137-627.5.
- Freeman, Mathew L. Valves. 2,868,220, 1-13-59, Cl. 137-219.
- Freeman, Nell. Flexible writing instrument. 2,911,950, 11-10-59, Cl. 120-42.4.
- Freeman, Peter J. G.: *See—*  
Tate, Clifford E., and Freeman. 2,894,122.



- Freeman, Robert L.: *See*—  
Cline, Earl E., and Freeman. Re. 24,719.
- Freeman, Robert L., to A. C. Nielsen Co. Apparatus and system for determining and recording the transmitting station to which a wave signal receiver is tuned. 2,892,885, 6-30-59, Cl. 178-5.8.
- Freeman, Robert L., and C. H. Currey, to A. C. Nielsen Co. Lamp control circuit. 2,884,567, 4-28-59, Cl. 315-208.
- Freeman, Robert M. Remote control for automatic pilots of marine vessels or other moving bodies. 2,891,205, 6-16-59, Cl. 318-19.
- Freeman, Robert W., to Daystrom, Inc. Reset mechanism for dial indicator. 2,918,819, 12-29-59, Cl. 73-363.7.
- Freeman, Roland A.: *See*—  
Scott, James G., Freeman, and Houston. 2,868,507.
- Freeman, Silas D., Jr., to Phillips Petroleum Co. Method and apparatus for contacting fluid with contact mass. 2,884,376, 4-28-59, Cl. 208-147.
- Freeman, Stephen E., to Freeman Chemical Corp. Use of cellular material in packaging articles. 2,895,603, 7-21-59, Cl. 206-46.
- Freeman, Sydney W., to General Railway Signal Co. Railway block signaling apparatus. 2,888,553, 5-26-59, Cl. 246-41.
- Freeman, Walter R., to Wagner Electric Corp. Ratio changer. 2,903,100, 9-8-59, Cl. 188-152.
- Freeman, Walter R., to Wagner Electric Corp. Ratio changer. 2,912,070, 11-10-59, Cl. 188-152.
- Freeman, Warren R. Wire cutter. 2,873,524, 2-17-59, Cl. 30-182.
- Freeman, William A., Jr., and M. Roth, to Jersey Production Research Co. Method of drilling. 2,898,086, 8-4-59, Cl. 255-1.8.
- Freeman, William P., Jr.: *See*—  
Mitchell, Orville, and Freeman. 2,867,851.
- Freem, Philip. Field strength meter. 2,879,382, 3-24-59, Cl. 250-2.
- Freem, Philip. Television distribution system. 2,891,222, 6-16-59, Cl. 333-8.
- Freeport Sulphur Co.: *See*—  
Axelrad, Bernard A. 2,884,349.
- Hyde, Richard W., and Feick. 2,902,345.
- Morrow, John G. 2,872,306.
- Freestone, Harry T.: *See*—  
Garrett, Donald E., and Freestone. 2,898,510.
- Freestone, Harry T., to General Electric Co. Vertical output stage. 2,913,624, 11-17-59, Cl. 315-27.
- Freeze, Herbert E. Bobbin tip painting apparatus. 2,900,954, 8-25-59, Cl. 118-232.
- Freezel, James R. and L. M.,  $\frac{1}{10}$  to Gadget-Of-The-Month Club, Inc. Foldable portable bed board. 2,885,695, 5-12-59, Cl. 5-317.
- Freez-King Corp.: *See*—  
Conto, Armando F. 2,882,827.
- Frehn, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft. Process of producing powdered or granular metallic material. 2,909,808, 10-27-59, Cl. 18-47.3.
- Frehse, Walter C., to The General Tire & Rubber Co. Honeycomb plastic door gasket. 2,908,949, 10-20-59, Cl. 20-69.
- Frei, André, to Belmag Zurich Beleuchtungs-U. Metallindustrie, A.G. Lamp bowl support. 2,887,569, 5-19-59, Cl. 240-128.
- Frei Arthur J., to General Motors Corp. Freezing device. 2,874,552, 2-24-59, Cl. 62-344.
- Frei, Arthur J., to General Motors Corp. Freezing device. 2,886,958, 5-19-59, Cl. 62-359.
- Frei, Arthur J., to General Motors Corp. Ice making apparatus. 2,907,179, 10-6-59, Cl. 62-135.
- Frei, Arthur J., to General Motors Corp. Freezing device power unit. 2,908,146, 10-13-59, Cl. 62-135.
- Frei, Arthur J., and R. C. Davis, to General Motors Corp. Ice cube tray. 2,895,312, 7-21-59, Cl. 62-365.
- Frei, Emil. Undergarment. 2,873,743, 2-17-59, Cl. 128-524.
- Freiberg, Albert D. Score board. 2,893,347, 7-7-59, Cl. 116-135.
- Freiberg, Rosalie B.: *See*—  
Freiberg, Stanley B. 2,888,932.
- Freiberg, Stanley B., deceased; R. B. Freiberg, executrix, to Acme Visible Records, Inc. Strip assembly for use in preparing lists photographically. 2,888,932, 6-2-59, Cl. 129-16.
- Freibott, Leonard W., to Crown City Die Casting Co. Adjustable handle and mounting flange construction for shower valves. 2,896,222, 7-28-59, Cl. 4-191.
- Freier, Heinz: *See*—  
Barchmann, Helmut, Freier, and Kruse. 2,916,609.
- Freiermuth, George A. Vehicle construction. 2,886,312, 5-12-59, Cl. 267-20.
- Freimiller, Louis R.: *See*—  
McKeever, Charles H., and Freimiller. 2,868,831.
- Freireich, Ernest: *See*—  
Hyman, Julius, Freireich, and Lidov. 2,875,256.
- Freise, William G.: *See*—  
Arnett, Leslie, and Freise. 2,912,145.
- Freismuth, John S., to American Radiator & Standard Sanitary Corp. Thermostat. 2,919,069, 12-29-59, Cl. 236-34.
- Freismuth, John S., and D. R. Terrance, to American Radiator & Standard Sanitary Corp. Mixing valve. 2,910,242, 10-27-59, Cl. 236-12.
- Freistat, Theodore: *See*—  
Cooper, Jack H., and Freistat. 2,871,583.
- Freitag, August J. Wire cleaner. 2,887,702, 5-26-59, Cl. 15-23.
- Freitag, August M. A., to de Spa & Fils, Societe en Commandite par Actions. Universal truing machines for cards. 2,885,837, 5-12-59, Cl. 51-242.
- Freitas, Manuel P., to The Foxboro Co. Data scanner monitoring alarm system. 2,901,739, 8-25-59, Cl. 340-213.
- Frejaques, Jean L. M., to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Purification of CO<sub>2</sub> and NH<sub>3</sub>. 2,904,393, 9-15-59, Cl. 23-2.
- Frekko, Eugene F., to Cornell-Dubilier Electric Corp. Washing electrolytic capacitor sections. 2,893,410, 7-7-59, Cl. 134-144.
- Frekko, Eugene F., to Cornell-Dubilier Electric Corp. Terminal lug for a capacitor or the like. 2,908,886, 10-13-59, Cl. 339-220.
- Frellick, Jacob P., to Phillips Petroleum Co. Feed distributor for fluid reactants and particulate solids. 2,917,455, 12-15-59, Cl. 208-166.
- Frellsen, Carlton B., to Joy Mfg. Co. Hydraulic conveyor swing and take-up. 2,895,591, 7-21-59, Cl. 198-109.
- Fremont, Herbert, and H. N. Parker, to Calbest Engineering & Electronics Co. Radio and television survey system. 2,896,070, 7-21-59, Cl. 250-2.
- French, Alfred G.: *See*—  
O'Connor, Bernard E., and French. 2,878,755.
- O'Connor, Bernard E., and French. 2,878,756.
- French, Beverly H. Portable scaffolding. 2,892,661, 6-30-59, Cl. 304-3.
- French, Bruce C.: *See*—  
Rimmer, John A., and Martin. 2,884,682.
- French, Charlie N., to Bendix Aviation Corp. Master cylinder. 2,880,584, 4-7-59, Cl. 60-54.6.
- French, Clayton V., and E. R. Ihne, to Johns-Manville Corp. Normal cured dry pressed products. 2,886,484, 5-12-59, Cl. 162-201.
- French, Eric L., to Westinghouse Brake and Signal Co. Ltd. Method of manufacturing selenium rectifiers. 2,875,103, 2-24-59, Cl. 117-200.
- French, George L., to International Harvester Co. Foldable wheel mounting for vehicles. 2,886,338, 5-12-59, Cl. 280-40.
- French, Gilbert A.: *See*—  
Jolliffe, Sidney A. W., Byatt, Watson, Hatch, and French. 2,917,741.
- French, Gordon P., to The General Electric Co. Ltd. Electric pulse generating apparatus. 2,899,552, 8-11-59, Cl. 250-27.
- French, Gordon R. Cast cutting device. 2,878,806, 3-24-59, Cl. 128-91.
- French, Gordon W., to Beasley, French & Co. Ltd. Sheet feeding and stacking apparatus. 2,872,190, 2-3-59, Cl. 271-87.
- French, Hector E. Loose-leaf binders. 2,911,977, 11-10-59, Cl. 129-41.
- French, Howard V.: *See*—  
Hahn, Richard H., and French. 2,916,061.
- French, Lionel J. B. R. Bookbinding machines. 2,900,093, 8-18-59, Cl. 214-7.
- French Oil Mill Machinery Co., The: *See*—  
Stacy, Thomas F. 2,902,923.
- French, Oliver S.: *See*—  
Marquis, Donald P., and French. 2,868,263.
- French, Russell B., to Olin Mathieson Chemical Corp. Liquid lawn feeder. 2,889,994, 6-9-59, Cl. 239-159.
- French, Thomas, & Sons Ltd.: *See*—  
Stephenson, Matthias. 2,868,946.
- Stephenson, Matthias, and Sellers. 2,897,850.
- Frenkel, Lothar, to General Dynamics Corp. Electron beam for a cathode ray tube. 2,880,342, 3-31-59, Cl. 313-82.
- Frenkel, Lothar, to General Dynamics Corp. Coding and decoding device utilizing a cathode ray type tube. 2,887,612, 5-19-59, Cl. 315-21.
- Frenkel, Marvin A., H. R. Frankle, and R. M. Burton; said Burton assor. to said Frenkel. Decal stamping machine. 2,880,539, 4-7-59, Cl. 41-1.
- Frensch, Heinz: *See*—  
Scherer, Otto, Hahn, Frensch, Emmel, and Staudermann. 2,885,430.
- Frentzel, Herman C.: *See*—  
Morrison, George F., Breul, and Frentzel. 2,877,849.
- Frentzel, Herman C., to Appleton Wire Works Inc. Loom shuttles. 2,876,802, 3-10-59, Cl. 139-125.
- Frentzel, Herman C. Belt splice formers. 2,890,549, 6-16-59, Cl. 51-142.
- Frenz, Otto, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. High-speed wind tunnels. 2,914,941, 12-1-59, Cl. 73-147.
- Freouf, Emanuel J. Hay stacker. 2,910,198, 10-27-59, Cl. 214-140.
- Frerer, Paul G., and M. R. Lewis, to Controls Co. of America. Timer. 2,906,329, 9-29-59, Cl. 161-1.
- Frerer, Paul G., and J. N. Yamasaki, to Controls Co. of America. Timer. 2,906,330, 9-29-59, Cl. 161-1.
- Frerichs, Kenneth E., to Sylvania Electric Products Inc. Wire cutting and bending machine. 2,915,103, 12-1-59, Cl. 153-16.
- Frerk, Richard R., to Norris Dispensers, Inc. Dispensing mechanism for vending machines and the like. 2,918,195, 12-22-59, Cl. 221-75.
- Fresard, Marcel: *See*—  
Casas-Robert, Ramon, and Fresard. 2,879,732.



- Fresard, Marcel, and R. Gianinazzi, to Mefina S.A. Adjustable stop. 2,883,868, 4-28-59, Cl. 74—96.
- Fresch, Eugene M. Meat-product. 2,918,374, 12-22-59, Cl. 99—107.
- Frese, Albert, to Chemische Werke Huls Aktiengesellschaft. Process for removing catalyst residues from polyolefines. 2,919,264, 12-29-59, Cl. 260—93.7.
- Fresh, John N., and R. D. Murphy. Aerodynamic seal for face masks. 2,881,444, 4-14-59, Cl. 2—9.
- Fresia, Giulio. Device shaped as a parallelogram for the direction of the third axle in motor vehicles and trailers. 2,912,250, 11-10-59, Cl. 280—81.
- Freudenberg, Carl, Kommanditgesellschaft auf Aktien: See—Braun, Emil. 2,896,254.
- Freudiger, Ernst, to S. Lambert, A.G. Gear hobbing machine. 2,891,450, 6-23-59, Cl. 90—4.
- Freund, Robert R., to Phillips Petroleum Co. Valve. 2,893,680, 7-7-59, Cl. 251—30.
- Freund, Rudolf E.: See—Jones, Lloyd R., Freund, Raynor, and Taylor. 2,882,346.
- Freundlich, Martin M., to Cutler-Hammer, Inc. Waveguide window. 2,882,502, 4-14-59, Cl. 333—98.
- Freutel, Kenneth A., to Lindberg Engineering Co. Induction heating apparatus. 2,905,798, 9-22-59, Cl. 219—10.43.
- Frevert, Robert E., to Crippen Mfg. Co. Cleaning and grading machines. 2,908,391, 10-13-59, Cl. 209—315.
- Frey, Cleon F., to Standard Coil Products Co. Inc. Cascode television tuner with stages having interrelated space discharge currents and common gain control. 2,894,125, 7-7-59, Cl. 250—20.
- Frey, Cleon F., and M. F. Melvin. Circuit breaker device. 2,910,561, 10-27-59, Cl. 200—116.
- Frey, Edward, to The Massillon-Cleveland-Akron Sign Co. Banner mounting construction. 2,882,630, 4-21-59, Cl. 40—125.
- Frey, Edward, to The Massillon-Cleveland-Akron Sign Co. Tow target construction. 2,907,095, 10-6-59, Cl. 28—80.
- Frey, Edward, to The Massillon-Cleveland-Akron Sign Co. Minimized drag tow target construction. 2,910,096, 10-27-59, Cl. 139—419.
- Frey, Edward, to The Massillon-Cleveland-Akron Sign Co. Banner mounting construction. 2,911,746, 11-10-59, Cl. 40—128.
- Frey, Edward J., to General Motors Corp. Colored electrical terminals. 2,892,175, 6-23-59, Cl. 339—113.
- Frey, Erik. Carriage moving apparatus for typewriters. 2,886,160, 5-12-59, Cl. 197—84.
- Frey, Frederick E., to Phillips Petroleum Co. Removal of metal contaminants from hydrocarbon liquids and improved hydrocarbon conversion process. 2,870,081, 1-20-59, Cl. 208—88.
- Frey, George J. Air heating unit. 2,891,535, 6-23-59, Cl. 126—110.
- Frey, Gerard G. Brake fluid signal. 2,894,093, 7-7-59, Cl. 200—84.
- Frey, Hans H.: See—Kahrs, Karl-Heinz, Frey, Scherer, and Hahn. 2,919,263.
- Frey, Hans-Helmut, and R. Huth, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Stabilization of perfluorochloroolefin polymers. 2,907,742, 10-6-59, Cl. 260—45.95.
- Frey, Julius, J. Ott, and H. Brinkmann, to L. Schuler, A.G. Magnetically operated drive release and brake. 2,908,369, 10-13-59, Cl. 192—144.
- Frey, Louis E. Bed spring. 2,890,464, 6-16-59, Cl. 5—320.
- Frey, Louis E., to Duo-Bed Corp. Combined sofa bed and end table. 2,904,796, 9-22-59, Cl. 5—2.
- Frey, Otto: See—Bartholome, Ernst, Frey, Lehrer, and Lorenz. 2,870,867.
- Frey, Raymond M., to McGraw-Edison Co. Furfural-alcohol-thiophene resin compositions. 2,868,746, 1-13-59, Cl. 260—23.5.
- Frey, Raymond M., to McGraw-Edison Co. Furan resin compositions including tall oil and an aromatic aldehyde. 2,868,747, 1-13-59, Cl. 260—23.5.
- Freyermuth, Harlan B.: See—Bloom, Albert, Freyermuth, and Normington. 2,875,226.
- Bloom, Albert, Freyermuth, and Normington. 2,884,359—63.
- Bloom, Albert, Freyermuth, and Normington. 2,891,983.
- Bloom, Albert, Freyermuth, and Normington. 2,911,429.
- Freyermuth, Harlan B., and W. W. Williams, to General Aniline & Film Corp. Optical whitener. 2,911,415, 11-3-59, Cl. 260—329.3.
- Freyholdt, Helmut A., and F. M. McCown, to Industrial Park Corp. Duct construction. 2,912,013, 11-10-59, Cl. 138—75.
- Freyrik, Henry S., to H. K. Porter Co. (Delaware). Four-drainer wire belt, wire, and alloy composition thereof. 2,918,094, 12-22-59, Cl. 139—425.
- Freyssinet, Eugene. Surface areas of pre-stressed concrete and their method of construction. 2,910,921, 11-3-59, Cl. 94—8.
- Freyssinet, Pierre: See—Cartoux, Henri, and Freyssinet. 2,888,156.
- Freytag, Helmut: See—Malz, Hugo, Bayer, Freytag, and Lober. 2,891,059.
- Freytag, Jean: See—Huber, Harry, and Freytag. 2,881,513.
- Huber, Harry, Freytag, and Reynaud. 2,881,512.
- Huber, Harry, Freytag, and Reynaud. 2,913,812.
- Friauf, George F.: See—Edminster, James W., Beck, and Friauf. 2,917,370.
- Fribance, Austin E.: See—Hunt, Robert A., and Fribance. 2,867,769.
- Fribance, Austin E., and R. A. Hunt, to Rochester Mfg. Co., Inc. Ammeter. 2,867,768, 1-6-59, Cl. 324—146.
- Friberg, Vincent P., to General Instrument Corp. Tuned transformer assembly. 2,889,522, 6-2-59, Cl. 333—78.
- Frick, Charles H.: See—Shepherd, Grove H., and Frick. 2,891,526.
- Frick, Charles H., to General Motors Corp. Power plant control mechanism. 2,884,807, 5-5-59, Cl. 74—665.
- Frick, Charles H., to General Motors Corp. Governing device for engines. 2,916,040, 12-8-59, Cl. 137—47.
- Frick Co.: See—Garland, Milton W., and Frick. 2,870,612.
- Frick, Egon, to Orenstein-Koppel und Lubecker Maschinenbau Akt. Scoop wheel. 2,892,271, 6-30-59, Cl. 37—189.
- Frick, Wilhelm E., to J. R. Geigy, A.G. Halo substituted sulfanilides. 2,867,658, 1-6-59, Cl. 260—551.
- Frick, William H. Rotatable rubber bumper. 2,885,821, 5-12-59, Cl. 45—137.
- Fricke, Gerhard, to National Research Corp. High vacuum. 2,893,624, 7-7-59, Cl. 230—69.
- Fricke, Roger H., and J. A. Liggett, to Radio Corp. of America. Microwave bypass capacitor. 2,875,386, 2-24-59, Cl. 317—257.
- Fricke, Rolf: See—Fikentscher, Hans, and Fricker. 2,877,216.
- Ohlinger, Helmut, and Fricker. 2,895,938.
- Frickert, Philip J., to Owens-Corning Fiberglass Corp. Method of making a textile mat. 2,900,700, 8-25-59, Cl. 28—73.
- Frickert, Philip J., and G. E. Smock, to Owens-Corning Fiberglass Corp. Fibrous mats and production thereof. 2,875,503, 3-3-59, Cl. 28—1.
- Frickert, Philip J., and R. G. Russell, to Owens-Corning Fiberglass Corp. Method and apparatus for producing staple like yarn from continuous strand. 2,886,877, 5-19-59, Cl. 28—1.
- Fricks, Richard E., to Alden Products Co. Automatic start-stop circuit for facsimile recorders. 2,873,315, 2-10-59, Cl. 178—69.5.
- Fricks, Richard E., to Alden Products Co. Blanking circuit. 2,918,525, 12-22-59, Cl. 178—6.6.
- Friday, Edward O. Depth settleable fishing floats. 2,902,792, 9-8-59, Cl. 43—44.87.
- Friday, Paul D., to Paper Maid, Inc. Container with cover lock. 2,873,057, 2-10-59, Cl. 229—2.5.
- Friday, Paul D., to Paper Maid, Inc. Molded pulp container. 2,885,135, 5-5-59, Cl. 229—2.5.
- Friden, Inc.: See—Bergfelt, Nils H. 2,893,631.
- Chall, Harold J. 2,886,237.
- Chall, Harold J., and Balaz. 2,868,445.
- Ellerbeck, Grant C. 2,868,453.
- Ellerbeck, Grant C. 2,872,115.
- Ellerbeck, Grant C. 2,889,985.
- Ellerbeck, Grant C. 2,914,247.
- Glazier, Robert C., and Zickler. 2,873,924.
- Glazier, Robert C., and Zickler. 2,874,318.
- Grobl, Jon E., and Zickler. 2,883,105.
- Hawthorne, Nathaniel F. 2,908,441.
- Malavazos, Arthur J. 2,909,320.
- Malavazos, Arthur J., and Hawthorne. 2,911,142.
- Plunkett, Gilman. 2,886,238.
- Rutland, David F., and Barclay. 2,868,454.
- Ungrecht, Emil. 2,898,039.
- Friderich, Wayne J., to The Standard Products Co. Article-supporting members of dielectric material for use in flocking apparatus and which article-supporting members are provided with electrical conductors extending therealong. 2,877,740, 3-17-59, Cl. 118—630.
- Fridge, David S., Sr. Cotton roll holder. 2,914,852, 12-1-59, Cl. 32—35.
- Fridrich, Elmer G., to General Electric Co. Electroluminescent lamp construction. 2,901,652, 8-25-59, Cl. 313—108.
- Fridrich, Elmer G., to General Electric Co. Manufacture of conductive glass paper. 2,904,457, 9-15-59, Cl. 117—229.
- Fridrich, Elmer G., to General Electric Co. Variable color electroluminescent lamp. 2,918,594, 12-22-59, Cl. 313—108.
- Fridrich, Elmer G., and E. H. Wiley, to General Electric Co. Electric incandescent lamp. 2,883,571, 4-21-59, Cl. 313—179.
- Frieberg, Bengt, to Lihnell Vagn Aktiebolag. Draftgear in tractors and like vehicles. 2,904,349, 9-15-59, Cl. 280—479.
- Fried, John H., and J. G. Sandza, to Stauffer Chemical Co. Production of citric acid. 2,910,409, 10-27-59, Cl. 195—36.
- Fried, Josef: See—Donin, Milton N., Fried, and Thoma. 2,881,189.
- Herz, Josef E., and Fried. 2,901,492.
- Herz, Josef E., and Fried. 2,914,545.
- Thoma, Richard W., and Fried. 2,880,217.
- Fried, Josef, to Olin Mathieson Chemical Corp. 11a, 12β-dimethyl-Δ<sup>4,8(14),13(17)</sup>-pregnatriene-3,20-dione. 2,891,076, 6-16-59, Cl. 260—397.3.
- Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp. Synthesis of 1,2-dehydro steroid by cyclindrocapon radicicola or fusarium javanicum. 2,868,694, 1-13-59, Cl. 195—51.



- Fried, Josef, D. Perlman, A. F. Langlykke, and E. O. Titus. Microbiological oxidation of steroids. 2,872,381, 2-3-59, Cl. 195—51.
- Fried, Josef, R. W. Thoma, D. Perlman, and J. R. Gerke, to Olin Mathieson Chemical Corp. 15 ketoprogesterones. 2,879,277, 3-24-59, Cl. 260—397.3.
- Fried, Josef, R. W. Thoma, D. Perlman, and J. R. Gerke, to Olin Mathieson Chemical Corp. 15-hydroxy progesterones. 2,879,280, 3-24-59, Cl. 260—397.4.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. 21-chloro of steroids. 2,892,850, 6-30-59, Cl. 260—397.3.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. Synthesis of steroids. 2,895,954, 7-21-59, Cl. 260—239.55.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. Method of making 21-F<sub>41</sub>,4 pregnadiene compounds. 2,895,972, 7-21-59, Cl. 260—397.45.
- Fried, Josef, and G. H. Thomas, to Olin Mathieson Chemical Corp. 9,16-dihalo steroids of the androstane series. 2,901,494, 8-25-59, Cl. 260—397.3.
- Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp.  $\Delta^4$ -androstadienes. 2,902,498, 9-1-59, Cl. 260—397.45.
- Fried, Josef, and J. E. Herz, to Olin Mathieson Chemical Corp. Process for preparing 21-fluoro steroids of the pregnane series. 2,903,449, 9-8-59, Cl. 260—239.55.
- Fried, Josef, and R. W. Thomas, to Olin Mathieson Chemical Corp. Synthesis of steroids. 2,914,543, 11-24-59, Cl. 260—397.3.
- Fried, Joseph W. Chamfering and deburring tool. 2,868,045, 1-13-59, Cl. 77—73.5.
- Fried, Richard G. Swimming pool temperature indicator. 2,913,903, 11-24-59, Cl. 73—343.
- Fried, Sherman: See—  
Davidson, Norman R., and Fried. 2,910,344.  
Malm, John G., and Fried. 2,893,825.
- Fried, Sherman, and H. L. Baumbach, to United States of America, Atomic Energy Commission. Plutonium-hydrogen reaction product, method of preparing same and plutonium powder therefrom. 2,915,362, 12-1-59, Cl. 23—14.5.
- Friedberg, Harry, to Waste King Corp. Incinerator burner construction. 2,887,074, 5-19-59, Cl. 110—8.
- Friedberg, Milton R.: See—  
Stewart, Jack L., Friedberg, and Finke. 2,870,243.
- Friedberg, Milton R., and J. L. Stewart, to The Antenna Specialists Co. Antenna mounting device. 2,899,485, 8-11-59, Cl. 174—153.
- Friedel, Ernst: See—  
Osswald, Philipp, Friedel, Arimont, and Hill. 2,919,184.
- Friedell, Morley V., to C. A. Norgren Co. Methods and apparatus for generating an aerosol. 2,890,765, 6-16-59, Cl. 184—55.
- Friedell, Morley V., to C. A. Norgren Co. Methods and apparatus for reclassifying aerosols. 2,912,064, 11-10-59, Cl. 183—75.
- Friedell, Morley V., to C. A. Norgren Co. Liquid level responsive device. 2,915,605, 12-1-59, Cl. 200—84.
- Frieder, Leonard P.: See—  
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- Friederich, Herbert, and M. Minsinger, to Badische Anilin- & Soda-Fabrik Akt. Production of alpha-chloracrylic acid esters. 2,889,357, 6-2-59, Cl. 260—486.
- Friederich, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Isomerization of unsaturated diols. 2,911,445, 11-3-59, Cl. 260—635.
- Friedheim, Ernst A. H. Organic dithiol derivatives. 2,880,222, 3-31-59, Cl. 260—430.
- Friedhoff, Helmuth, to Firma Walther & Cie. Akt. Method of filling small vessels. 2,872,764, 2-10-59, Cl. 53—37.
- Friedlander, Henry Z.: See—  
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- Friedlander, Henry Z., to American Cyanamid Co. Preparation of polymers containing carboxy groups from polymers of acrylamide. 2,886,558, 5-12-59, Cl. 260—89.7.
- Friedlander, Herbert N.: See—  
Juveland, Omar O., Field, and Friedlander. 2,919,267.  
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Pilar, Frank L., Friedlander, Juveland, and Field. 2,881,156.
- Friedlander, William S., to Minnesota Mining and Mfg. Co. Dioxo-thiadiazolidines and process therefor. 2,895,958, 7-21-59, Cl. 260—301.
- Friedli, Robert Jr.: See—  
Woehling, John G., and Friedli. 2,900,554.
- Friedman, Aaron: See—  
Ensler, Arthur S., and Friedman. 2,898,213.
- Friedman, Aaron, D. Lurie, and S. Dale, to Joe Lowe Corp. Bagging machine. 2,907,160, 10-6-59, Cl. 53—189.
- Friedman, Allan. Shutter mechanisms for photocomposing apparatus. 2,905,068, 9-22-59, Cl. 95—4.5.
- Friedman, Barry: See—  
Friedman, Philip and G. J. 2,873,990.
- Friedman, Benjamin. Hypodermic syringes. 2,904,043, 9-15-59, Cl. 128—218.
- Friedman, Bernard S., to Sinclair Refining Co. Carbonylation of saturated hydrocarbons. 2,874,186, 2-17-59, Cl. 260—514.
- Friedman, Bernard S., to Sinclair Refining Co. Process for cracking a plurality of hydrocarbon oils in a suspension of catalyst particles in a riser reactor. 2,908,630, 10-13-59, Cl. 208—74.
- Friedman, David C.: See—  
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- Friedman, George J.: See—  
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- Friedman, Herbert, to J. J. Maguire, trading as J. J. Maguire Co. Radiation thickness gauge. 2,879,399, 3-24-59, Cl. 250—83.3.
- Friedman, Herbert, to J. J. Maguire, d.b.a. J. J. Maguire Co. Method and apparatus for slag detection in metal sheets. 2,901,629, 8-25-59, Cl. 250—53.
- Friedman, Herbert. Gas detection. 2,918,578, 12-22-59, Cl. 250—43.5.
- Friedman, Herbert, and T. A. Chubb. Ultra-violet gas analysis. 2,901,625, 8-25-59, Cl. 250—43.5.
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- Friedman, Isidore H., Jr.,  $\frac{1}{2}$  to Delta Tank Mfg. Co., Inc., and  $\frac{1}{2}$  to Fuller Co. Discharge vessel with mixing gate. 2,915,341, 12-1-59, Cl. 302—53.
- Friedman, John H., to The National Machinery Co. Gap mill control. 2,887,915, 5-26-59, Cl. 80—26.
- Friedman, Lawrence. Decorative edging for luggage. 2,875,869, 3-3-59, Cl. 190—54.
- Friedman, Martin J.: See—  
Bindon, Douglas G., Carter, and Friedman. 2,880,406.
- Friedman, Michael: See—  
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- Friedman, Nathan H. Stethoscope head. 2,893,507, 7-7-59, Cl. 181—24.
- Friedman, Philip, deceased (I. Friedman and H. Orenstein, executors), and G. J. Friedman, to R. Grossman, R. Stein, I. Friedman, and H. Orenstein, as trustees for B. Friedman, and I. Friedman, and H. Orenstein, as trustees for R. Friedman, d. b. a. G. F. S. Investing Co. Closure fastener. 2,873,990, 2-17-59, Cl. 292—228.
- Friedman, Ralph, to A. J. Schneerson & Son, Inc. Ladies' slip. 2,907,331, 10-6-59, Cl. 128—454.
- Friedman, Robert: See—  
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- Friedman, Robert G., to The National Machinery Co. Metal drawing and feeding apparatus. 2,880,854, 4-7-59, Cl. 205—16.
- Friedman, Robert G., to The National Machinery Co. Metal working apparatus. 2,881,297, 4-7-59, Cl. 219—10.47.
- Friedman, Robert G., to The National Machinery Co. Cut blank feed. 2,881,950, 4-14-59, Cl. 221—225.
- Friedman, Robert G., to The National Machinery Co. Roller bearing header slide. 2,918,333, 12-22-59, Cl. 308—6.
- Friedman, Sol. Fish feeding device. 2,900,022, 8-18-59, Cl. 161—10.
- Friedman, Solomon, to The Osborn Mfg. Co. Brush construction. 2,874,399, 2-24-59, Cl. 15—169.
- Friedman, Stanley S.: See—  
Kendall, Charles O., Powell, and Friedman. 2,893,546.
- Friedman, William F. Electrical cryptograph. 2,877,565, 3-17-59, Cl. 35—4.
- Friedmann, Alex., Kommandit-Gesellschaft: See—  
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- Friedmann, Charles L., and T. J. Banfield, to Titanium Metals Corp. of America. Electrode attachment device. 2,878,461, 3-17-59, Cl. 339—275.
- Friedmann, Louis M., and K. F. Ross. Telephone alarm system. 2,890,281, 6-9-59, Cl. 179—5.
- Friedrich, Andrew E.: See—  
De Baun, John E., and Friedrich. 2,893,500.
- Friedrich, Hilda, K. Fischer, and G. Rummert,  $\frac{1}{2}$  to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning, and  $\frac{1}{2}$  to Alfred Teves Maschinen- und Armaturenfabrik Kommandit-Gesellschaft. Pressure transmitting fluids for brakes and hydraulic apparatus. 2,916,457, 12-8-59, Cl. 252—75.
- Friedrich, Robert E., to Westinghouse Electric Corp. Circuit interrupter. 2,900,478, 8-18-59, Cl. 200—150.
- Friedrich, Wilhelm: See—  
Bernhauer, Konrad, Friedrich, Dellweg, and Becher. 2,893,988.
- Friedrich, William W. Internal combustion engine. 2,882,874, 4-21-59, Cl. 123—50.
- Friedrichs, Georges, to Societe Anonyme dite Compagnie Generale de Metrologie. Protective network system for an electric universal measuring instrument. 2,902,651, 9-1-59, Cl. 324—110.



- Friedrichsen, Wilhelm, to Badische Anilin- & Soda-Fabrik Akt. Production of delta-epsilon-unsaturated carboxylic acids, their derivatives and the corresponding delta-valerolactones. 2,905,698, 9-22-59, Cl. 260-343.5.
- Friel, Daniel D.: *See—*
- Flook, William M., Jr., and Friel. 2,909,924.
- Friel, Patrick. I-beam attachment clamp. 2,868,485, 1-13-59, Cl. 248-59.
- Friend, Albert W., to Sylvania Electric Products Inc. Traveling wave tube. 2,897,397, 7-28-59, Cl. 315-3.5.
- Friend, Albert W., to Sylvania Electric Products, Inc. Electrical component and manufacture. 2,917,438, 12-15-59, Cl. 204-13.
- Friend, Irvin, to Ivy Furniture Inc. Structural assembly. 2,905,514, 9-22-59, Cl. 311-104.
- Friend, Lindsay C.: *See—*
- Edwards, John F., Jr., Shaub, and Friend. 2,919,320.
- Friend, Lindsay C. Support device for garment hangers. 2,868,389, 1-13-59, Cl. 211-123.
- Friend, Phillip G.: *See—*
- Epstein, Michael. 2,868,205.
- Fries, Bernard A., to California Research Corp. Apparatus for determining characteristics of hydrogen-containing substances. 2,899,555, 8-11-59, Cl. 250-43.5.
- Fries, Bernard A., to United States of America, Atomic Energy Commission. Dissolution of lanthanum fluoride precipitates. 2,912,303, 11-10-59, Cl. 23-14.5.
- Fries, Doria: *See—*
- Mueller, Eugen, Fries, and Metzger. 2,885,332.
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- Fries, Gustav, to J. C. Vredenburg-Inglesby. Control method and means. 2,917,645, 12-15-59, Cl. 313-65.
- Frieske, & Hoepfner G.m.b.H.: *See—*
- Bosch, Julius. 2,884,531.
- Friesen, Herbert A.: *See—*
- Herder, Elmer A., and Friesen. 2,892,487.
- Frigid Fluid Co.: *See—*
- Emert, Gerald E. 2,901,137.
- Yeazel, Gilbert A. 2,870,519.
- Fris, Harald T., and W. M. Sharpless, to Bell Telephone Laboratories, Inc. Electromagnetic wave detector. 2,871,353, 1-27-59, Cl. 250-31.
- Frink, Russell E.: *See—*
- Kozlovic, John M., and Frink. 2,889,433.
- Frink, Russell E., to Westinghouse Electric Corp. Circuit interrupter. 2,871,318, 1-27-59, Cl. 200-144.
- Frink, Russell E., and P. Olsson, to Westinghouse Electric Corp. Metal-clad switchgear. 2,900,464, 8-18-59, Cl. 200-50.
- Frink Sno-Plows, Inc.: *See—*
- Kenyon, George W. 2,877,573.
- Frisby, Raymond A. Self-measuring carbide drills. 2,886,291, 5-12-59, Cl. 255-61.
- Frisch, Erling, to Westinghouse Electric Corp. Linear motion device. 2,882,428, 4-14-59, Cl. 310-83.
- Frisch, Franz: *See—*
- Kappeler, Markus, and Frisch. 2,904,543.
- Frisch, Gustaaf A.: *See—*
- Ostmann, Jan. 2,902,932.
- Frisch, Norman W., and A. F. Preuss, Jr., to Rohm & Haas Co. Ceric complex oxidative ion-exchange resins and their preparation. 2,906,714, 9-29-59, Cl. 260-2.1.
- Frischmann, Karl, to Ernst Leitz, G.m.b.H. Mechanism for coarse and fine adjustment. 2,914,952, 12-1-59, Cl. 74-10.5.
- Frisell, Erik H., to Kommanditbolaget Irving & Frisell. Spring mattresses, upholstery seats and the like. 2,893,018, 7-7-59, Cl. 5-247.
- Frisendaux, George M.: *See—*
- Jones, Herbert S., Frisendaux, Petersen, and Shufflin. 2,908,063.
- Frisius, Edward N., to California Research Corp. Inhibitor solution, and method of inhibiting oil well corrosion therewith. 2,885,359, 5-5-59, Cl. 252-8.55.
- Fritcher, Earl E. Travelling valve fluid pump plunger. 2,906,211, 9-29-59, Cl. 103-179.
- Frito Co., The: *See—*
- Dootin, Charles E. 2,907,268.
- Eytinge, Bruce D. 2,886,439.
- Fritsch, Daniel, to Hamilton Watch Co. Driving mechanism for an index wheel. 2,897,680, 8-4-59, Cl. 74-126.
- Fritsch, Hermann, to Mannesmann Aktiengesellschaft. Method for rolling metal powder. 2,917,821, 12-22-59, Cl. 29-420.5.
- Fritsch, Werner: *See—*
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- Fritsche, O.: *See—*
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- Fritsche, Rudolf. Method and apparatus for processing printing plates. 2,903,550, 9-8-59, Cl. 219-35.
- Fritsch, Walter W., to Bell Telephone Laboratories, Inc. Transistor gating circuit. 2,883,474, 4-21-59, Cl. 179-84.
- Fritsch, Walter W., and A. Weaver, to Bell Telephone Laboratories, Inc. Magnetic core circuits. 2,914,617, 11-24-59, Cl. 179-18.
- Fritschle, Arthur. Tool for removing type metal from type casting machine mouthpieces. 2,894,273, 7-14-59, Cl. 15-104.05.
- Fritts, James A.: *See—*
- Fleekop, Fred, and Fritts. 2,917,306.
- Fritts, Lois L.: *See—*
- Gruenhagen, Richard H., and Fritts. 2,897,113.
- Fritts, Robert W., to Minnesota Mining and Mfg. Co. Thermoelectric generator. 2,906,801, 9-29-59, Cl. 136-4.
- Fritts, Robert W., to Minnesota Mining and Mfg. Co. Electrical device. 2,915,724, 12-1-59, Cl. 338-23.
- Fritts, Robert W., and S. Karrer, to Minnesota Mining and Mfg. Co. Shock-resistant mounting means for frangible electrical conductors. 2,892,879, 6-30-59, Cl. 136-4.
- Fritts, Robert W., and S. Karrer, to Minnesota Mining and Mfg. Co. Thermoelectric heat pump. 2,896,005, 7-21-59, Cl. 136-5.
- Fritz, Bernhard: *See—*
- Ruppert, Wilhelm, Schwedler, Essewein, and Fritz. 2,884,894.
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- Fritz, Gerhard: *See—*
- Kautsky, Hans W., and Fritz. 2,886,582.
- Fritz, Karl H. Apparatus for bright-annealing of metals. 2,899,192, 8-11-59, Cl. 266-5.
- Fritz, Martin: *See—*
- Bensinger, Wolf-Dieter, and Fritz. 2,890,598.
- Bensinger, Wolf-Dieter, and Fritz. 2,912,031.
- Bensinger, Wolf-Dieter, and Fritz. 2,914,964.
- Fritz, Martin, to Daimler-Benz Aktiengesellschaft. Crank shaft. 2,917,946, 12-22-59, Cl. 74-596.
- Fritz, Robert J.: *See—*
- Arey, William F., Jr., and Fritz. 2,880,160.
- Fritz, Robert J., to Esso Research and Engineering Co. Continuous polymerization process and apparatus. 2,889,314, 6-2-59, Cl. 260-94.9.
- Fritz, William E., to Enterprise Railway Equipment Co. Hopper door operating mechanism. 2,888,884, 6-2-59, Cl. 105-250.
- Fritz, William E., and G. B. Willard, to Enterprise Railway Equipment Co. Hopper door operating mechanism. 2,888,883, 6-2-59, Cl. 105-250.
- Fritz, William H., N. M. Potter, and M. C. Cox, to Union Carbide Corp. Photoflash lamp. 2,913,892, 11-24-59, Cl. 67-31.
- Fritz, Marvin E., and J. W. Smith, said Smith assor. to J. C. Fennelly Co. Sandblasting tool and method. 2,884,745, 5-5-59, Cl. 51-11.
- Fritzinger, George H., to McGraw-Edison Co. Mounting of sheet records. 2,902,333, 9-1-59, Cl. 346-138.
- Fritzinger, George H. Devices for handling tape. 2,906,426, 9-29-59, Cl. 216-30.
- Fritzinger, George H., to McGraw-Edison Co. Sheet record machine. 2,906,585, 9-29-59, Cl. 346-127.
- Fritzinger, George H., to McGraw-Edison Co. Juke box and recordation-transfer machine therefor. 2,908,767, 10-13-59, Cl. 179-100.2.
- Fritzinger, George H. Adhesive applicators. 2,909,301, 10-20-59, Cl. 216-29.
- Fritzinger, George H., to McGraw-Edison Co. Mounting arrangements for sheet records. 2,919,136, 12-29-59, Cl. 274-17.
- Fritzen, David W. Animated light mechanism. 2,913,572, 11-17-59, Cl. 240-10.1.
- Friz, Adolf. Machine with taping and tape-cutting arrangement for transporting sheets such as veneer sheets. 2,884,030, 4-28-59, Cl. 144-2.
- Friz, Gerhard, to Safe Stop Corp. Brake for vehicles. 2,877,869, 3-17-59, Cl. 188-5.
- Friz, Walter: *See—*
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- Klein, Werner, and Friz. 2,905,847.
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- Froberg, Charles H., Jr. Adjustable angle plates. 2,871,768, 2-3-59, Cl. 90-59.
- Frobisher, Ralph S.: *See—*
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- Froehlich, Charles W., to Hunt Foods, Inc. Hydraulic dumping apparatus. 2,894,516, 7-14-59, Cl. 134-62.
- Froehlich, Harold E., to General Mills, Inc. Balloon and fitting for balloon ends. 2,880,946, 4-7-59, Cl. 244-31.
- Froehlich, Kurt, to Nordberg Mfg. Co. High compression spark ignited gas engine and method. 2,914,041, 11-24-59, Cl. 123-1.
- Froelich, Ernest J., to Sterling Drug Inc. Canine distemper vaccine and its preparation. 2,912,361, 11-10-59, Cl. 167-78.
- Frohardt, Roger P., T. H. Haskell, J. Ehrlich, and M. P. Knudsen, to Parke, Davis & Co. Antibiotic and methods for obtaining same. 2,916,485, 12-8-59, Cl. 260-211.
- Frobbach, Harold O., E. F. Gill, J. S. Marran, and A. J. Romano, to Chart-Pak, Inc. Tape dispenser. 2,918,189, 12-22-59, Cl. 216-20.
- Frohberger, Paul-Ernest: *See—*
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- Frohlich, Adolf, to The Cleveland Trust Co., as trustee. Pneumatic tire building apparatus. 2,887,148, 5-19-59, Cl. 154-9.
- Fröhlich, Adolf, to The Cleveland Trust Co., as trustee. Vulcanizing press. 2,904,831, 9-22-59, Cl. 18-17.
- Fröhlich, Adolf, to The Cleveland Trust Co., as trustee. Clamping device. 2,910,110, 10-27-59, Cl. 154-9.
- Fröhlich, Adolf, and E. J. Harris, to The Cleveland Trust Co., trustee. Expandable bead ring for vulcanizing presses. 2,904,832, 9-22-59, Cl. 18-17.



- Frohlich, Adolf, and E. J. Harris, to The Cleveland Trust Co. Hinged inner bead forming and sealing ring for vulcanizing presses. 2,913,765, 11-24-59, Cl. 18-17.
- Frohlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co. Cut-off machinery for fabric plies. 2,873,802, 2-17-59, Cl. 164-75.
- Fröhlich, Adolf H., and E. J. Harris; said Frohlich assor. to The Cleveland Trust Co., trustee. Apparatus and method for shaping and vulcanizing pneumatic tires. 2,880,458, 4-7-59, Cl. 18-17.
- Fröhlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co., trustee. Sectional vulcanizing apparatus. 2,895,169, 7-21-59, Cl. 18-45.
- Fröhlich, Adolf H., and E. J. Harris. Bagless vulcanizing press. 2,901,771, 9-1-59, Cl. 18-17.
- Fröhlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co. Sealing ring for recapping presses. 2,901,772, 9-1-59, Cl. 18-18.
- Fröhlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co., trustee. Double acting sealing ring for vulcanizing pneumatic tires. 2,904,833, 9-22-59, Cl. 18-17.
- Fröhlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co., trustee. Hinged sealing ring for vulcanizing apparatus. 2,904,834, 9-22-59, Cl. 18-17.
- Fröhlich, Adolf H., and E. J. Harris, to The Cleveland Trust Co., as trustee. Building core for pneumatic tires. 2,910,109, 10-27-59, Cl. 154-9.
- Frohlich, Hans, to Bommer Spring Hinge Co., Inc. Hold open devices for single acting swinging doors. 2,875,468, 3-3-59, Cl. 16-55.
- Frohlich, Hans, to Bommer Spring Hinge Co., Inc. Hold open devices for double acting swinging doors. 2,880,449, 4-7-59, Cl. 16-55.
- Frühner, Johann B. Clamping devices or couplings. 2,893,742, 7-7-59, Cl. 279-2.
- Froitzheim, Hans: *See—*  
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- Froland, Olav, to McGraw-Edison Co. Switch operating means. 2,891,122, 6-16-59, Cl. 200-92.
- Frolch, Martin, to Sulzer Freres, S.A. Turbine for cooling a fluid by expansion. 2,910,328, 10-27-59, Cl. 308-36.3.
- Frolow, Jack L. Timing apparatus. 2,903,881, 9-15-59, Cl. 73-6.
- Froman, Darol K., to United States of America, Atomic Energy Commission. Push-pull power reactor. 2,875,143, 2-24-59, Cl. 204-154.2.
- Fromer, Emile S. Electric light socket. 2,874,366, 2-17-59, Cl. 339-141.
- Fromm, Ferdinand, to Spintex Spinnerei Maschinenbau, G.m.b.H. Drive for combing beams and cards of textile spinning machines. 2,882,737, 4-21-59, Cl. 74-75.
- Fromm, Leonard W., Jr., to United States of America, Atomic Energy Commission. Recovery of valuable material from graphite bodies. 2,903,402, 9-8-59, Cl. 204-1.5.
- Fromm, Robert, to W & R Fromm Corp. Elastic boot lace. 2,887,005, 5-19-59, Cl. 87-1.
- Fromm, W & R Corp.: *See—*  
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- Fromm, Winfield E., to United States of America, Navy. Method of orientation of detector magnetometer element with high accuracy. 2,902,641, 9-1-59, Cl. 324-43.
- Frommelt, Cyril P., to Dubuque Awning & Tent Co., Inc. Deformable self-supporting welding shield. 2,911,038, 11-3-59, Cl. 160-351.
- Frommelt, Cyril P. and S. J., to Dubuque Awning & Tent Co., Inc. Loading dock shield. 2,892,463, 6-30-59, Cl. 135-5.
- Frommelt, Horace A.: *See—*  
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- Frost, C. Jack: *See—*  
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- Frost, Elmer F., Jr.: *See—*  
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- Frost, George E., to Olin Mathliessen Chemical Corp. Method of making bullets. 2,898,666, 8-11-59, Cl. 29-1.22.
- Frost, James E. Telephone base directory. 2,897,031, 7-28-59, Cl. 312-183.
- Frost, John W. Vehicle ash and waste receiver. 2,891,662, 6-23-59, Cl. 206-19.5.
- Frost, Paul D.: *See—*  
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- Frost, Richard H., and E. O. Schweitzer, to The Swartwout Co. Pressure sensing device. 2,902,861, 9-8-59, Cl. 73-408.
- Frost, Thomas P. Combination well packer and pumping assembly. 2,876,708, 3-10-59, Cl. 103-181.
- Frost, Thomas P. Well tool running and retrieving device. 2,885,010, 5-5-59, Cl. 166-219.
- Frost, Thomas P. Well tool running and retrieving device. 2,885,011, 5-5-59, Cl. 166-219.
- Frost, Wade W., to David A. Freeman. Presser attachment for shirt folding machines. 2,907,503, 10-6-59, Cl. 223-52.1.
- Frostad, Lars, to The Porter-Cable Machine Co. Power operated elliptical motion tool. 2,884,789, 5-5-59, Cl. 74-43.
- Frostick, Frederick C., Jr.: *See—*  
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- Phillips, Benjamin, Frostick, McGary and Patrick. 2,890,209.
- Phillips, Benjamin, Frostick, McGary and Patrick. 2,890,210.
- Phillips, Benjamin, Frostick, McGary, and Patrick. 2,917,469.
- Frostick, Frederick C., Jr., and B. Phillips, to Union Carbide Corp. Epoxy-vinyl monomers and method of preparing the same. 2,883,398, 4-21-59, Cl. 260-348.
- Frouws, Simon M., to North American Philips Co. Inc. Glow-discharge tube. 2,870,365, 1-20-59, Cl. 313-197.
- Frownfelter, Charles R., R. J. Harry, R. S. Hassard, and D. C. Shearer, to Goodyear Aircraft Corp. Apparatus for stretching plastic sheet material. 2,912,716, 11-17-59, Cl. 18-1.
- Fruehauf Trailer Co.: *See—*  
Erickson, Paul N. 2,874,992.
- Levitt, Semon. 2,871,056.
- Locker, Hans. 2,907,575.
- Sheppard, Charles B., and Bohlen. 2,912,277.
- Fruendt, Adel J. High-load capacity, taper bearing swivel. 2,918,335, 12-22-59, Cl. 308-227.
- Fruengel, Frank. Quick-responsive spark gap device. 2,886,737, 5-12-59, Cl. 313-352.
- Fruengel, Frank. Method and system for operating X-ray tubes. 2,899,562, 8-11-59, Cl. 250-98.
- Fruengel, Frank. Ultrasonic carburetor. 2,908,443, 10-13-59, Cl. 239-102.
- Fruit Equipment Service: *See—*  
Hostetler, Charles P., and Norconk. 2,905,344.
- Fruit Growers Express Co.: *See—*  
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- Frumhoff, Abe D.: *See—*  
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- Frunzel, Frank: *See—*  
Altrogge, Wilhelm, Willutzky, and Frunzel. 2,904,723.
- Frügel, Frank. High-frequency spark device. 2,906,924, 9-29-59, Cl. 315-163.
- Fry, Ben L. Circular lighting fixture. 2,878,372, 3-17-59, Cl. 240-51.12.
- Fry, Clifford W., to Certified Gas Equipment Corp. Needle valve. 2,912,005, 11-10-59, Cl. 137-614.11.
- Fry, Donald R. Rechargeable battery capsule. 2,876,410, 3-3-59, Cl. 320-48.
- Fry, Francis J.: *See—*  
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- Fry, Horace P., Jr., to American Viscose Corp. Radius bar linkage. 2,895,165, 7-21-59, Cl. 18-15.
- Fry, Hugh A. Boring tool and method for making same. 2,882,763, 4-21-59, Cl. 77-58.
- Fry, Millard E., to General Motors Corp. Domestic appliances. 2,875,016, 2-24-59, Cl. 312-351.
- Fry, Stanley R., and D. V. McCormick, to Camco (Machinery) Ltd. Paper sheet folding machines. 2,896,942, 7-28-59, Cl. 270-84.
- Fry, Stanley S., to Fansteel Metallurgical Corp. Method of forming a blocking layer on a selenium rectifier. 2,872,357, 2-3-59, Cl. 117-200.
- Fry, Stanley S., to Fansteel Metallurgical Corp. Method of forming a blocking layer on a selenium rectifier. 2,872,358, 2-3-59, Cl. 117-200.
- Fry, Vern K. Turbine driven oppositely rotating propellers. 2,870,847, 1-27-59, Cl. 170-135.28.
- Fry, William J. Thermoelectric transducer. 2,919,356, 12-29-59, Cl. 310-4.
- Fry, William J. and F. J., to Interscience Research Corp. Mechanical heart. 2,917,751, 12-22-59, Cl. 3-1.
- Frydenlund, Arthur J. Guide means for saws. 2,903,026, 9-8-59, Cl. 143-6.
- Frye, Clarence H.: *See—*  
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- Frye, Clifton G.: *See—*  
Eckstrom, Hartley C., Frye, Pickering, and Tollefson. 2,918,355.
- Frye, Reinhold A. Knock down structures. 2,868,568, 1-13-59, Cl. 287-54.
- Fryer, Edward R., to General Motors Corp. Dual ratio lever mechanism. 2,893,139, 7-7-59, Cl. 37-118.



- Fryklund, Robert A., to Raytheon Mfg. Co. Depth sounding devices. 2,869,109, 1-13-59, Cl. 340-3.
- Fryklund, Robert A., to Raytheon Mfg. Co. Restoring angular coincidence of synchro servosystem rotors. 2,879,459, 3-24-59, Cl. 318-24.
- Fryklund, Robert A., to Raytheon Mfg. Co. Echo ranging systems. 2,901,726, 8-25-59, Cl. 340-3.
- Frykman, Oscar G., to Minneapolis-Honeywell Regulator Co. Thermostatic damper. 2,881,868, 4-14-59, Cl. 188-90.
- Frysksdale, Frans H.: *See—*
- Doerrfeld, Robert L., and Frysksdale. 2,892,029.
- Frymire, Harold G.: *See—*
- Sharp, Joseph F., and Frymire. 2,913,046.
- Sharp, Joseph F., and Frymire. 2,918,708.
- Fthenakis, Emanuel, to Bell Telephone Laboratories, Inc. Current supply apparatus. 2,909,720, 10-20-59, Cl. 321-18.
- Fubini, Eugene G.: *See—*
- Wilkinson, Jefferson R., Tollefson, and Fubini. 2,888,670.
- Fubini, Eugene G., and W. E. Fromm, to Cutler-Hammer, Inc. Strip transmission lines. 2,913,686, 11-17-59, Cl. 333-84.
- Fuchs, Benjamin H., to E. B. Wilcox. Droppable back-off tool. 2,911,909, 11-10-59, Cl. 102-20.
- Fuchs, Charles F.: *See—*
- Epstein, Solomon, Fuchs, and Gladstone. 2,874,126.
- Fuchs, Emanuel, to Wagner & Englert G.m.b.H. Grinding wheel. 2,910,810, 11-3-59, Cl. 51-206.
- Fuchs, Ernst G.: *See—*
- Orthner, Ludwig, and Fuchs. 2,905,702.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Methods and apparatus for bending wave guide tubing. Re. 24,646, 5-12-59, Cl. 153-40.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Mandrel for use in twisting rectangular tubing. 2,868,266, 1-13-59, Cl. 153-63.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Apparatus for making zero-radius bends in rectangular tubing. 2,873,786, 2-17-59, Cl. 153-20.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Interlocking ring-type mandrel. 2,894,558, 7-14-59, Cl. 153-63.
- Fuchs, Francis J., Jr., to Western Electric Co., Inc. Universal mandrel. 2,916,077, 12-8-59, Cl. 153-63.
- Fuchs, Francis J., Jr., and C. L. Saunders, to Western Electric Co., Inc. Apparatus for heading tubular members. 2,871,734, 2-3-59, Cl. 78-17.
- Fuchs, Francis J., Jr., and G. Mevrincean, to Western Electric Co., Inc. Mandrels for making seamless bends in rectangular tubing. 2,882,951, 4-21-59, Cl. 153-4.
- Fuchs, Francis J., Jr., and R. H. Hall, to Western Electric Co., Inc. Mandrel for making small radius bends in tubes of rectangular configuration. 2,902,077, 9-1-59, Cl. 153-63.
- Fuchs, Francis J., Jr., and R. H. Hall, to Western Electric Co., Inc. Mandrel for making small radius tubular bends. 2,902,078, 9-1-59, Cl. 153-63.
- Fuchs, Francis J., Jr., and G. Nevrrincean, to Western Electric Co., Inc. Apparatus for twisting wave guides. 2,902,080, 9-1-59, Cl. 153-78.
- Fuchs, Henry O., to Metal Improvement Co. Shot peening apparatus. 2,881,506, 4-14-59, Cl. 29-90.
- Fuchs, Irvin J., to General Electric Co. Automatic clothes dryer control. 2,878,579, 3-24-59, Cl. 34-45.
- Fuchs, M., Metallwarenfabrik: *See—*
- Brutting, Ludwig. 2,908,108.
- Fuchs, Otto P., and H. Kottas. Automatic apparatus for transforming statistical or stochastic functions. 2,891,724, 6-23-59, Cl. 235-168.
- Fuchs, Samuel J. Screw threads and gear teeth. 2,894,409, 7-14-59, Cl. 74-457.
- Fuchs, Samuel J. Die forging presses. 2,905,032, 9-22-59, Cl. 78-44.
- Fuchsman, Charles H., L. I. Charnas, and S. B. Elliott, to Ferro Corp. Photosensitive composition of matter and method of making same. 2,905,554, 9-22-59, Cl. 96-27.
- Fuchsman, Charles H., L. I. Charnas, and S. B. Elliott, to Ferro Corp. Photosensitive composition of matter and method of making same. 2,905,555, 9-22-59, Cl. 96-27.
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- Fuehrer, George H., to Thor Power Tool Co. Telescopic feed leg assembly. 2,914,031, 11-24-59, Cl. 121-9.
- Fuelling, C. W., Inc.: *See—*
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- Fuelling, Charles W.: *See—*
- Cook, Robert W. 2,896,155.
- Gallmeyer, Richard D., and McBride. 2,910,042.
- Fuentevilla, Manuel E., to United States of America, Atomic Energy Commission. Ion-exchange method for separating radium from radium-barium mixtures. 2,892,679, 6-30-59, Cl. 23-23.
- Fuerst, Adolph: *See—*
- Katz, Leon, Fuerst, and Brouillard. 2,907,670.
- Fuerst, Carl: *See—*
- Gleitsman, Harold, and Fuerst. 2,907,375.
- Fuerst, Carl, to Gleitsman's, Inc. Adjustable ottoman. 2,912,046, 11-10-59, Cl. 155-169.
- Fuerst, Carl C. Cigarette lighter. 2,892,333, 6-30-59, Cl. 67-7.1.
- Fuerst, Oswald, and L. J. Greff, Sr., to Superior Industries, Inc. Rotary low pressure gas pump and method of operating the same. 2,902,943, 9-8-59, Cl. 103-136.
- Fugassi, Lucien A., Jr., to National Steel Corp. Driving means for continuous metal coating apparatus. 2,873,720, 2-17-59, Cl. 118-258.
- Fuge, Harry B., to The Singer Mfg. Co. Mobile power systems. 2,883,611, 4-21-59, Cl. 322-40.
- Fuge, Harry B., to The Singer Mfg. Co. Motor controls for winding machines. 2,896,140, 7-21-59, Cl. 318-6.
- Fuglie, Elmer A., and S. L. Connott, to Winona Tool Mfg. Co. Method for inserting wrist pins within pistons. 2,891,302, 6-23-59, Cl. 29-149.5.
- Fugmann, Robert: *See—*
- Ruschig, Heinrich, Fugmann, Eggert, Fischer, and Lidner. 2,874,156.
- Fuhring, Heinrich, to Bohler & Weber Kommanditgesellschaft. Machines for chemical cleaning of textile articles. 2,908,086, 10-13-59, Cl. 34-133.
- Fuhrmann, Ernst: *See—*
- Bäumler, Hermann, and Fuhrmann. 2,917,353.
- Fuhrmann, Hans, and K. Schwabe; said Fuhrmann assor. to S.L.F. Engineering Co. Photoelectric photometer having compensating means for line voltage fluctuations. 2,891,438, 6-23-59, Cl. 88-14.
- Fujii, Chojiro. Pile fabric. 2,887,131, 5-19-59, Cl. 139-402.
- Fujima, Hisatomo, and M. Yoshida. Process for the manufacture of synthetic textiles. 2,906,000, 9-29-59, Cl. 28-72.
- Fujioka, Shogo, S. Yoshida, S. Terasawa, and O. Hiragami, to Asahi Garasu Kabirishiki Kaisha. Apparatus for the electrolysis of alkali metal salts and process therefor. 2,916,425, 12-8-59, Cl. 204-68.
- Fujita, Toshitsune. Method of molding reinforced plastics. 2,903,389, 9-8-59, Cl. 154-110.
- Fujiyama, Yukitoshi: *See—*
- Ogawa, Tetsuo, Komori, Kawaoka, Ishiwata, and Fujiyama. 2,905,710.
- Fukui, Tomijiro, and Y. Matsuo, to Nippon Shinyaku Co., Ltd. Diakylamides of  $\alpha$ -(4-antipyrilamino)-fatty acids and their N-alkyl derivatives. 2,897,206, 7-28-59, Cl. 260-310.
- Fülle, Werner S. O., to Robert Scheuffele & Co. Automatic electric cigarette lighter for automobiles. 2,908,794, 10-13-59, Cl. 219-32.
- Fuller Co.: *See—*
- Arnold, Walter. 2,917,208.
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- Hersh, Lloyd J. 2,888,188.
- Loomis, Robert F. 2,915,337.
- Loomis, Robert F. 2,915,338.
- Lusted, Emile W. 2,915,339.
- Lusted, Emile W. 2,915,340.
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- Weller, Leo G. 2,901,133.
- Fuller, Calvin S., and G. L. Pearson, to Bell Telephone Laboratories, Inc. Lightning surge protecting apparatus. 2,896,128, 7-21-59, Cl. 317-61.
- Fuller, David H., to The Foxboro Co. Proportional photoelectric flow measurement system. 2,912,858, 11-17-59, Cl. 73-209.
- Fuller, Dennis Q., to Pye Ltd. Transistors. 2,875,385, 2-24-59, Cl. 317-235.
- Fuller, Dennis Q., to Pye Ltd. Wired broadcasting system. 2,876,279, 3-3-59, Cl. 178-5.6.
- Fuller, Dennis Q., to Pye Ltd. Semi-conductor devices. 2,876,401, 3-3-59, Cl. 317-235.
- Fuller, Edward J., and G. W. Pate, to Sperry Rand Corp. Radar system evaluator. 2,874,380, 2-17-59, Cl. 343-17.1.
- Fuller, Edwin O., and J. W. Anderson, to J. W. Anderson. Cosmetic fountain brush. 2,905,956, 9-29-59, Cl. 15-136.
- Fuller, Frank C. Soil pipe cleanout extension. 2,911,001, 11-3-59, Cl. 137-362.
- Fuller, Golden W.: *See—*
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- Fuller, Gordon L.: *See—*
- McMinn, Charles E., and Fuller. 2,889,441.
- Fuller, Harrison W., S. P. Woodsum, and W. T. Darou, Jr., to Laboratory For Electronics, Inc. Magnetic head assemblies. 2,913,536, 11-17-59, Cl. 179-100.2.
- Fuller, Ira W. Display element in relief for an advertising sign. 2,870,558, 1-27-59, Cl. 40-126.
- Fuller, Ira W. Method of making an advertising sign. 2,899,765, 8-18-59, Cl. 41-25.
- Fuller, Mack F.: *See—*
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- Fuller, Mack F., to E. I. du Pont de Nemours and Co. Preparation of alkali metal salts of sulfoethyl starch. 2,883,375, 4-21-59, Cl. 260-233.3.
- Fuller, Mack F., to E. I. du Pont de Nemours and Co. Process of preparing an open cell polyvinyl chloride sponge. 2,888,414, 5-26-59, Cl. 260-2.5.
- Fuller Mfg. Co.: *See—*
- Backus, Thomas. 2,875,872.
- Backus, Thomas, and Perkins. 2,892,358.
- Backus, Thomas, and Perkins. 2,916,118.
- Hansen, Quinten A. 2,884,106.
- Meyers, Willard F. 2,918,832.
- Fuller, Richard B. Building construction. 2,881,717, 4-14-59, Cl. 108-1.
- Fuller, Richard B. Self-strutted geodesic plydome. 2,905,113, 9-22-59, Cl. 108-1.



- Fuller, Richard B. Geodesic tent. 2,914,074, 11-24-59, Cl. 135-1.
- Fuller, W. P., & Co.: *See*—  
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- Fuller, Wilford C., and C. P. Oliver, to Northern Virginia Construction Co., Inc. Prestressed concrete deck. 2,885,882, 5-12-59, Cl. 72-68.
- Fuller, William D., to Engineering Laboratories, Inc. Correlation system. 2,885,590, 5-5-59, Cl. 315-1.
- Fullerton, Thomas J., to Acme Steel Co. Grain car door. 2,871,937, 2-3-59, Cl. 160-368.
- Fülling, Heinrich, K. Schüssler, and H. Rudolph, to Siemens and Halske Akt. System for transmitting teleprinter messages. 2,887,534, 5-19-59, Cl. 179-3.
- Fulmer, Glenn W.: *See*—  
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- Fulmer, John R., to Geo. D. Roper Corp. Heat radiating means for broiler burners. 2,867,207, 1-6-59, Cl. 126-41.
- Fulps, William C. Midspan connection. 2,887,524, 5-19-59, Cl. 174-43.
- Fulton, Bertram A.: *See*—  
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- Fulton, Bertram A., to Borg-Warner Corp. One-way clutch. 2,884,102, 4-28-59, Cl. 192-45.1.
- Fulton Co., The: *See*—  
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- Fulton, Floyd E., to The Fulton Co. Sheet metal winch assemblage. 2,891,824, 6-23-59, Cl. 308-22.
- Fulton, Fred P., to Gadget-Of-The-Month Club, Inc. Golf cleat cleaner. 2,912,707, 11-17-59, Cl. 15-105.
- Fulton, George P.: *See*—  
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- Fulton, James F., to Trimble, Inc. Playyard. 2,908,021, 10-13-59, Cl. 5-99.
- Fulton, John W., and R. A. Kuebler, to General Electric Co. Fluorescent lamp coating machine. 2,892,440, 6-30-59, Cl. 118-56.
- Fulton, John W., and R. A. Kuebler, to General Electric Co. Adjustable double-ended directional lamp. 2,918,644, 12-22-59, Cl. 339-2.
- Fulton, Robert C.: *See*—  
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- Fulton, Stanford A. Apparatus for oiling over-head valves of engine. 2,881,863, 4-14-59, Cl. 184-6.
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- Fulvio, Gennaro. Window construction. 2,877,512, 3-17-59, Cl. 20-44.
- Fund-Del Inc.: *See*—  
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- Funderburk, Luther O., Jr. Apparatus for handling concrete aggregates. 2,886,189, 5-12-59, Cl. 214-2.
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- Funk, Howard C., to Funk Aircraft Co. Reversing clutch assembly. 2,887,199, 5-19-59, Cl. 192-098.
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- Funke, Albert, to Societe des Usines Chimiques Rhone-Poulenc. Benzodioxan derivatives. 2,887,484, 5-19-59, Cl. 260-247.7.
- Funke, Albert, and H. Raab, to Farbenfabriken Bayer Aktiengesellschaft. Water insoluble monoazo dyestuffs. 2,899,420, 8-11-59, Cl. 260-204.
- Funke, Siegfried: *See*—  
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- Funkhouser, Mearick, and H. E. Schultze, to General Motors Corp. Inertia controlled shock absorber system. 2,869,685, 1-20-59, Cl. 188-87.
- Funnell, William F., to Radio Corp. of America. Demand shear with means to alternately brake and accelerate a continuously moving web. 2,898,995, 8-11-59, Cl. 164-42.
- Funston, Earl S.: *See*—  
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- Furane Plastics Inc.: *See*—  
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- Furbeck, Bertrand S.: *See*—  
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- Furer, Stanley. Ceiling insert for concrete. 2,870,625, 1-27-59, Cl. 72-105.
- Furey, Lawrence M., to United States of America, Army. Pull-release clamp for steel bands. 2,914,828, 12-1-59, Cl. 24-23.
- Furey, Michael J., to Esso Research and Engineering Co. Titanium coordination compounds as corrosion inhibitors. 2,891,910, 6-23-59, Cl. 252-42.7.
- Furey, Michael J., and R. A. Westlund, Jr., to Esso Research and Engineering Co. Asphalt cutback, hard film rust preventive. 2,872,334, 2-3-59, Cl. 106-271.
- Furey, Michael J., and E. O. Forster, to Esso Research and Engineering Co. Thin film rust prevention. 2,883,289, 4-21-59, Cl. 106-14.
- Furey, Stanley R. Fishing rod cradle. 2,917,258, 12-15-59, Cl. 248-40.
- Furford, Julius M. Cranberry picking and pruning machine. 2,915,871, 12-8-59, Cl. 56-330.
- Furgason, Clyde A., to Ladish Co. High strength alloy steels. 2,919,188, 12-29-59, Cl. 75-128.
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- Furman, Frank J., and R. V. Simpson, to International Business Machines Corp. Wire printer. 2,889,770, 6-9-59, Cl. 101-93.
- Furman, Frank J., O. F. Moneagle, and R. V. Simpson, to International Business Machines Corp. Wire printer. 2,907,270, 10-6-59, Cl. 101-93.
- Furman, Frank J., O. F. Moneagle, and R. V. Simpson, to International Business Machines Corp. Wire printer. 2,909,994, 10-27-59, Cl. 101-93.
- Furman, Frank M.: *See*—  
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- Furman, Kenneth E.: *See*—  
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- Furman, Kenneth E., to Shell Development Co. Preparation of carboxylic acids from carbon monoxide and mercaptans. 2,913,491, 11-17-59, Cl. 260-540.
- Furman, Louis J., and L. L. Krasnow, to Todding, Inc. Work clamp having a combined rectilinear and pivotal motion. 2,908,205, 10-13-59, Cl. 90-59.
- Furman, Walter F., and H. T. Harrison, to The Duraloy Co. Nickel alloy. 2,892,703, 6-30-59, Cl. 75-128.
- Furn, Hans H. Key with ejector means. 2,882,710, 4-21-59, Cl. 70-414.
- Furn, Hans H. Container closure and dispensing device. 2,916,190, 12-8-59, Cl. 222-517.
- Furnas Electric Co.: *See*—  
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White, Paul F. 2,883,496.
- Furness, Charles W., to United States of America, Army. Corneal clamp. 2,881,500, 4-14-59, Cl. 24-243.
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- Furniss, Loree E., to The Buckeye Steel Castings Co. Railway coupler butt end and follower. 2,875,906, 3-3-59, Cl. 213-72.
- Furniss, Loree E., to The Buckeye Steel Castings Co. Railway coupler guard arm. 2,881,927, 4-14-59, Cl. 213-151.
- Furniss, Loree E., to The Buckeye Steel Castings Co. Retaining means for coupler carrier. 2,899,083, 8-11-59, Cl. 213-61.
- Furno, Gaetan and H. Means for arranging, transporting, distributing and receiving coins. 2,909,280, 10-20-59, Cl. 206-82.
- Furno, Henri: *See*—  
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- Furrer, Ernst. Device for the squeezing of tubes. 2,875,926, 3-3-59, Cl. 222-98.
- Furrer, John R.: *See*—  
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- Furrer, John R., to ACF Industries, Inc. Entrance for railway passenger cars. 2,872,881, 2-10-59, Cl. 105-443.
- Furrer, John R., to ACF Industries, Inc. System for transporting highway trailers by rail. 2,901,986, 9-1-59, Cl. 105-368.
- Furrer, John R., to ACF Industries, Inc. Articulated rail car with individually guided axles. 2,908,229, 10-13-59, Cl. 105-3.
- Furrer, John R., to ACF Industries, Inc. Spring suspension for lightweight vehicle. 2,908,233, 10-13-59, Cl. 105-453.
- Furrer, John R., and G. Runken, to A C F Industries, Inc. Vehicle truck. 2,900,924, 8-25-59, Cl. 105-199.
- Furrer, John R., and G. Runken, to ACF Industries, Inc. Lightweight car truck. 2,917,005, 12-15-59, Cl. 105-157.
- Furrer, Rud., Sohne A. G.: *See*—  
Furrer, Rudolf H., and Wiegand. 2,877,772.
- Furrer, Rudolf H., and F. F. Wiegand, to Rud. Furrer Sohne A. G. Hanging folder. 2,877,772, 3-17-59, Cl. 129-16.7.
- Furst, Stefan. Winding machine. 2,908,029, 10-13-59, Cl. 15-301.
- Furth, John V.: *See*—  
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Long, John V., and Furth. 2,900,276.
- Fusco, James J., to The Sandy Hill Iron & Brass Works. Head box. 2,876,684, 3-10-59, Cl. 92-44.
- Fusco, James V.: *See*—  
Ford, Francis P., and Fusco. 2,897,164.
- Fusco, James V., and S. B. Mirviss, to Esso Research and Engineering Co. Resins from steam-cracked streams copolymerized with fulvene-type compounds. 2,898,325, 8-4-59, Cl. 260-82.



- Fusco, Raffaello, G. Losco, and M. Perini, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Process for preparing dialkylidithiophosphoric acid ester derivatives having two amide groups in the molecule and the insecticidal compounds obtained thereby. 2,901,481, 8-25-59, Cl. 260-268.
- Fusco, Victor C.: *See*—
- Leeper, Robert W., and Fusco. 2,876,090.
- Fuschi, Antonio T., to Torre Safety Devices Co. Trailer coupler lock. 2,917,322, 12-15-59, Cl. 280-432.
- Fuss, William H. Conduit support assembly. 2,880,949, 4-7-59, Cl. 248-70.
- Fuss, William H. Outlet box and fixture support adapter. 2,914,601, 11-24-59, Cl. 174-63.
- Fust, Wilhelm, to Voigt & Haefner Aktiengesellschaft. Circuit interrupters. 2,918,552, 12-22-59, Cl. 200-147.
- Futorian Corp.: *See*—
- Norman, William N. 2,878,491.
- Futterer, Bodo: *See*—
- Braun, Arthur, and Futterer. 2,908,970.
- Futty, Robert C., to Ripco, Inc. Feed apparatus for granular material. 2,917,344, 12-15-59, Cl. 302-59.
- Fuzak, George T., and B. J. Boles. Fingertip bandage. 2,875,758, 3-3-59, Cl. 128-157.
- Fye, Paul M.: *See*—
- MacDougall, Duncan P., Fye, and Kistiakowsky. 2,918,362.
- Fye, Ronald L., to McLanahan & Stone Corp. Log washer log and gudgeon and method and apparatus for assembling the gudgeon with and removing same from the log. 2,899,806, 8-18-59, Cl. 64-5.
- Fye, Ronald L., to McLanahan & Stone Corp. Log washer. 2,900,177, 8-18-59, Cl. 259-130.
- Fye, Ronald L., to McLanahan & Stone Corp. Triple roll crusher. 2,905,396, 9-22-59, Cl. 241-37.
- Fyler, George W., and G. Strachanow, to Zenith Radio Corp. Focusing and scanning system. 2,918,602, 12-22-59, Cl. 315-22.
- Fyler, Norman F., to Columbia Broadcasting System, Inc. Electron gun structure. 2,887,600, 5-19-59, Cl. 313-82.
- Fyler, Norman F., to Columbia Broadcasting System, Inc., d.b.a. CBS-Hytron, a Division of Columbia Broadcasting System, Inc. Color tube shield. 2,890,377, 6-9-59, Cl. 315-13.
- Fyr-Fyter Co., The: *See*—
- Allen, Frank B. Re. 24,718.
- Haessler, Walter M. 2,910,262.
- GBL Corp.: *See*—
- Linderman, Garrett B. 2,874,900.
- G. F. S. Investing Co.: *See*—
- Friedman, Philip and G. J. 2,873,990.
- G & H Constructors, Inc.: *See*—
- Nichols, Gerald H. 2,909,290.
- GHN Neon Sign Co.: *See*—
- Gould, Samuel. 2,877,384.
- G. M. E. Corp.: *See*—
- Appleton, Bernard S., and Barth. 2,891,500.
- Appleton, Bernard S., and Richter. 2,918,122.
- Greer, Edward M., Jenkins, and Barth. 2,910,031.
- G-M Laboratories Inc.: *See*—
- Matershofer, Karl M. 2,886,792.
- GPE Controls, Inc.: *See*—
- Callender, Bernard L. 2,904,056.
- Callender, Bernard L., and Reip. 2,904,057.
- Markey, Frank J. 2,871,013.
- Rockey, Kenneth O. 2,904,700.
- Ziebolz, Herbert. 2,903,007.
- G. Q. Parachute Co. Ltd.: *See*—
- Gregory, James. 2,869,809.
- G & S Metal Products Co., Inc.: *See*—
- Gould, Alex. 2,913,117.
- G & W Electric Specialty Co.: *See*—
- Nicholas, James H. 2,879,322.
- Gaa, Donald L.: *See*—
- Bourns, Marlan E., Harrison, Gaa, and Barrett. 2,886,681.
- Bourns, Marlan E., Harrison, Goeppinger, and Gaa. 2,870,302.
- Gaarder, Gilbert W., to Union Carbide Corp. Immersion pump for liquefied gases. 2,888,879, 6-2-59, Cl. 103-153.
- Gable, Charles M.: *See*—
- Anderson, Elmer A., Foster, Gable, and Hood. 2,869,986.
- Gable, Charles M., to Shell Development Co. Epoxidation process. 2,870,171, 1-20-59, Cl. 260-348.5.
- Gabor, Dennis, to National Research Development Corp. Magnetic electron lenses. 2,872,607, 2-3-59, Cl. 313-77.
- Gabor, Dennis, to National Research Development Corp. Cathode ray tubes. 2,878,417, 3-17-59, Cl. 315-21.
- Gabor, Dennis, to National Research Development Corp. Cathode ray tubes. 2,885,595, 5-5-59, Cl. 315-21.
- Gabor, Dennis, to Minnesota Mining & Mfg. Co. Magnetic recording media. 2,911,317, 11-3-59, Cl. 117-7.
- Gabor, Dennis, and P. G. Kalman, to National Research Development Corp. Method of and apparatus for depositing coatings on surfaces. 2,872,339, 2-3-59, Cl. 117-33.
- Gabor, William D., to C. G. S. Laboratories, Inc. Ferrite stabilizing system. 2,891,153, 6-16-59, Cl. 250-36.
- Gabor, William D., to C. G. S. Laboratories, Inc. Sweep generator methods and apparatus. 2,906,967, 9-29-59, Cl. 331-178.
- Gabor, William D., and J. L. Stahovec, to C. G. S. Laboratories, Inc. Amplifier-electrical control system. 2,868,896, 1-13-59, Cl. 179-171.
- Gabriel Co., The: *See*—
- Brown, Gerald J. 2,907,033.
- Brown, Gerald J. 2,907,034.
- Patriquin, William G. 2,907,414.
- Rickards, William H., and Johanson. 2,892,007.
- Ruze, John. 2,898,593.
- Whisler, Ralph H., and Christian. 2,918,273.
- Gabriel, Daniel. Aspiring needle hub. 2,868,201, 1-13-59, Cl. 128-221.
- Gabriel, Edward J. Chair with adjustable headrest. 2,905,230, 9-22-59, Cl. 155-177.
- Gabriel, Gerhard: *See*—
- Brenner, Karl, and Gabriel. 2,896,712.
- Gabriel, Gustave O., 50% to G. W. Baker, 10% to J. Drew, and, 5% to J. Labanowski. Stator constructions for synchronous hysteresis motors. 2,871,384, 1-27-59, Cl. 310-258.
- Gabriel, Hermann, to Zahnradfabrik Friedrichshafen. Clutch coupling. 2,906,383, 9-29-59, Cl. 192-85.
- Gabriel, Richard. Methods of communicating intelligence by television. 2,914,603, 11-24-59, Cl. 178-5.1.
- Gabriele, Richard G.: *See*—
- Jacobs, David A., Kokus, and Gabriele. 2,908,281.
- Gabrielsen, Christian, to Rowe Mfg. Co., Inc. Elevating column console cigarette merchandising machine. 2,888,166, 5-26-59, Cl. 221-81.
- Gabrielsen, Christian, to Rowe Mfg. Co., Inc. Sandwich merchandising machine. 2,893,596, 7-7-59, Cl. 221-129.
- Gabrielsen, Christian, and W. R. Post, to Rowe Mfg. Co., Inc. Ice cream merchandising machine. 2,877,076, 3-10-59, Cl. 312-97.1.
- Gabrielsen, Christian, H. Vorperian, and A. E. Sukovich, to Rowe Mfg. Co., Inc. Aperture delivery cigarette merchandising machine. 2,888,168, 5-26-59, Cl. 221-131.
- Gabrusti, Magur-Lag. Mortar sight. 2,876,545, 3-10-59, Cl. 33-48.
- Gach, June E. and R. L., to Daystrom, Inc. Potentiometer. 2,900,614, 8-18-59, Cl. 338-149.
- Gach, Robert L.: *See*—
- Gach, June E. and R. L. 2,900,614.
- Gack, Ludwig. Metal planing or shaping machine. 2,899,870, 8-18-59, Cl. 90-39.
- Gacs, Istvan: *See*—
- Bud, Pal, Gacs, and Theisz. 2,891,189.
- Gadberg, Joseph, to Teletype Corp. Fixed message signal generator. 2,886,797, 5-12-59, Cl. 340-166.
- Gadbois, Lewis F., to W. H. Miner, Inc. Shock absorbing mechanism. 2,903,143, 9-8-59, Cl. 213-22.
- Gaddis, Arden H., G. G. Hoberg, and R. J. Williams, to Burroughs Corp. Format control for high speed printers. 2,918,659, 12-22-59, Cl. 340-174.
- Gaddis, Gene T., to Minneapolis-Honeywell Regulator Co. Steam heating control system. 2,868,461, 1-13-59, Cl. 237-9.
- Gaddis, Gene T., to Minneapolis-Honeywell Regulator Co. Time scheduled condition control system. 2,898,047, 8-4-59, Cl. 236-46.
- Gaddis, Roy, Jr., to Highway Equipment Co. Material distributing device. 2,893,740, 7-7-59, Cl. 275-2.
- Gade, Marvin F., to Kimberly-Clark Corp. Apparatus for controlling stock level in a pressurized head box. 2,901,040, 8-25-59, Cl. 162-259.
- Gadeberg, Burnett L. Retractable rotary well drilling bit. 2,876,994, 3-10-59, Cl. 255-61.
- Gadebusch, Richard G. Plastic plano action. 2,881,509, 4-14-59, Cl. 29-149.5.
- Gaden, Carl W.: *See*—
- Brown, Edwin C., and Gaden. 2,899,006.
- Gadget-Of-The-Month Club, Inc.: *See*—
- Bailey, Archibald, Jr., and M. Bailey. 2,911,019.
- Browne, Ernest J. 2,917,182.
- Burger, Le Roy. 2,879,597.
- Campbell, Robert A. 2,900,987.
- Compton, Max V. 2,897,824.
- Curran, John J. 2,895,141.
- Donee, William W. 2,891,428.
- Elliott, Raymond G. 2,902,352.
- Feezel, James R. and L. M. 2,885,695.
- Fulton, Fred P. 2,912,707.
- Gratton, James R. 2,873,056.
- Hancock, John E. 2,873,711.
- Helgeson, Andrew A., and Hegna. 2,907,604.
- Krueger, Harvey F. and R. F. 2,872,741.
- Lambert, Ulysses L. 2,899,094.
- Luckock, Vernon O. and M. R. 2,874,734.
- Mitchell, Herman. 2,881,999.
- Mobroten, Arvid B. 2,910,186.
- Murphy, Thomas J. 2,885,993.
- Newkirk, Frank E. 2,881,550.
- Newkirk, Frank E. 2,885,779.
- Powell, Donald C. 2,875,868.
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- Rock, Clarence A. 2,911,491.
- Schweikhard, George A. 2,880,918.
- Sheehy, Edward M. 2,898,675.
- Shourds, Wilbur J. 2,875,903.
- Smith, William. 2,882,357.
- Stair, Raymond L. 2,871,864.
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- Gadsby, Robert C.: *See*—  
Schwaiger, Frank H., Gadsby, and Schwaiger. 2,916,421.
- Gaebler, Gustav A. Convertible vehicle for road and rail. 2,879,719, 3-31-59, Cl. 105-215.
- Gaebler, Robert F. Time study machine. 2,888,311, 5-26-59, Cl. 346-127.
- Gaertner, Hans, and H. Streiff. Process for the manufacture of azo pigments. 2,912,428, 11-10-59, Cl. 260-152.
- Gaertner, Van R.: *See*—  
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Kosmin, Milton, and Gaertner. 2,879,199.
- Gaertner, Van R., to Monsanto Chemical Co. Sulfamoyl-anilinoalkanesulfonic acid compounds. 2,875,125, 2-24-59, Cl. 167-33.
- Gaertner, Van R., to Monsanto Chemical Co. Fungicidal composition comprising the reaction product of a phenylhydrazine with carbon disulfide, and the method of preparation. 2,883,321, 4-21-59, Cl. 167-33.
- Gaertner, Van R., to Monsanto Chemical Co. Preparation of 5,8-dihydro-1,4-naphthohydroquinone diacylates. 2,883,417, 4-21-59, Cl. 260-479.
- Gaertner, Van R., to Monsanto Chemical Co. Ketonic organic thiosulfates. 2,897,223, 7-28-59, Cl. 260-453.
- Gaertner, Van R., to Monsanto Chemical Co. Alkylaromatic (sulfthio) acetates. 2,904,582, 9-15-59, Cl. 260-479.
- Gaertner, Van R., to Monsanto Chemical Co. Carboxylated thiosulfates. 2,904,583, 9-15-59, Cl. 260-481.
- Gaertner, Van R., to Monsanto Chemical Co. 3-amino-2,3-dihydro-1,3-thiazine-2-thiones and process of inhibiting fungus growth. 2,909,460, 10-20-59, Cl. 167-33.
- Gaertner, Van R., to Monsanto Chemical Co. Aryldithiocarbazic acid derivatives. 2,914,547, 11-24-59, Cl. 260-429.9.
- Gaertner, Van R., and E. L. Doerr, to Monsanto Chemical Co. Carbohydrate esters of carboxylic acids and methods of preparing same. 2,868,781, 1-13-59, Cl. 260-234.
- Gaertner, Van R., and D. B. Sharp, to Monsanto Chemical Co. Cereals rust eradicant composition comprising a phenylhydrazone derivative and method of use. 2,875,124, 2-24-59, Cl. 167-33.
- Gaertner, Van R., and G. H. Birum, to Monsanto Chemical Co. Sulfoalkyl phosphorothioates and metal salts thereof. 2,879,283, 3-24-59, Cl. 260-461.
- Gaertner, Van R., and G. A. Richardson, to Monsanto Chemical Co. Preparation of polypeptides. 2,904,538, 9-15-59, Cl. 260-78.
- Gaertner, Van R., and G. A. Richardson, to Monsanto Chemical Co. Method of inhibiting growth of plant viruses. 2,913,370, 11-17-59, Cl. 167-30.
- Gaertner, Erwin R.: *See*—  
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- Gaetke, Carl F. Splash shield for paint roller. 2,902,706, 9-8-59, Cl. 15-248.
- Gaffey, John R., to Merriman Bros., Inc. Pulpit for boat. 2,905,126, 9-22-59, Cl. 114-5.
- Gaffin, Harry, to The A. P. Smith Mfg. Co. Pipe sleeve and gasket therefor. 2,899,984, 8-18-59, Cl. 138-99.
- Gaffney, Clyde M., Jr. Film strip attachment. 2,900,868, 8-25-59, Cl. 88-19.5.
- Gaffney, Donald J., to Fisher Governor Co. Pneumatic clutch type panel loader for interlock system. 2,891,568, 6-23-59, Cl. 137-495.
- Gaffney, Gerald. Apparatus for heating liquids. 2,878,804, 3-24-59, Cl. 126-362.
- Gafner, Emil. Pulp wood loader. 2,914,203, 11-24-59, Cl. 214-147.
- Gagarine, Dmitry M., to Deering Milliken Research Corp. Surface cyanoethylated cellulosic textile and process of making the same with limited quantities of reagents. 2,904,386, 9-15-59, Cl. 8-116.2.
- Gagarine, Dmitry M., and H. Repokis, to Deering Milliken Research Corp. Method for reducing the pilling tendencies of fabrics. 2,874,069, 2-17-59, Cl. 117-103.
- Gagarine, Dmitry M., and H. Repokis, to Deering Milliken Research Corp. Antistatic compositions for textiles and methods for producing and applying the same. 2,901,451, 8-25-59, Cl. 260-29.2.
- Gage, Edwin G., to Gilbertville Woven Label Corp. Sharpening device for cutting wheel. 2,879,633, 3-31-59, Cl. 51-247.
- Gage, Fred W., and A. W. Tondreau, to Warner Bros. Pictures, Inc. Travelling matte photography. 2,870,672, 1-27-59, Cl. 88-16.
- Gage, Harold A., to United States of America, Atomic Energy Commission. Leveling metal coatings. 2,873,209, 2-10-59, Cl. 117-51.
- Gage, Kenneth W.: *See*—  
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- Gage, Robert M., to Union Carbide Corp. Electric metal-arc process and apparatus. 2,868,950, 1-13-59, Cl. 219-74.
- Gage, Thomas B., to E. I. du Pont de Nemours and Co. Process of extruding viscose wherein a formaldehyde containing acid bath solution is contacted with activated charcoal. 2,918,348, 12-22-59, Cl. 18-54.
- Gagen, Charles V., to Ross Gear and Tool Co., Inc. Hydraulic system. 2,896,589, 7-28-59, Cl. 121-46.5.
- Gaggia, Giovanni A., to Brevetti Gaggia S.r.l. Machines for infusing coffee and like liquid extracts. 2,898,844, 8-11-59, Cl. 99-289.
- Gagle, Duane W., C. G. Goss, and W. R. Bowles, to Phillips Petroleum Co. Laminated interlocking block. 2,882,714, 4-21-59, Cl. 72-25.
- Gagle, Duane W., and C. E. Defabaugh, to Phillips Petroleum Co. Bitumen and aggregate composition and a building block molded therefrom. 2,889,231, 6-2-59, Cl. 106-280.
- Gagliano, Louis J., and J. E. Daly. Pigments and process of making them. 2,878,134, 3-17-59, Cl. 106-301.
- Gagnan, Emile: *See*—  
Gruet, André, Cousteau, and Gagnan. 2,918,061.
- Gagnan, Emile, to La Spirotechnique Societe Anonyme. Open circuit breathing apparatus. 2,875,756, 3-3-59, Cl. 128-142.
- Gagnan, Emile, to La Spirotechnique Societe Anonyme. Open circuit breathing apparatus. 2,878,807, 3-24-59, Cl. 128-142.
- Gagnan, Emile, to La Spirotechnique Societe Anonyme. Open circuit breathing apparatus. 2,902,031, 9-1-59, Cl. 128-142.
- Gagnan, Emile, and J. Y. Cousteau, to La Spirotechnique. Breathing apparatus with cam controlled valve. 2,886,033, 5-12-59, Cl. 128-142.
- Gagne, Archie R. Pipe making apparatus. 2,870,513, 1-27-49, Cl. 25-30.
- Gagnier Fibre Products Co.: *See*—  
Gagnier, George E. 2,910,752.  
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Scott, Robert E. 2,910,750.
- Gagnier, George E., to Gagnier Fibre Products Co. Hook head fastener. 2,910,752, 11-3-59, Cl. 24-85.
- Gagnon, Frederick L., Jr.: *See*—  
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- Gagnon, George A., to Admiral Corp. Electronic component attaching head. 2,867,810, 1-13-59, Cl. 1-220.
- Gagnon, George A., to Admiral Corp. Electronic component attaching machine. 2,893,008, 7-7-59, Cl. 1-102.
- Gagnon, Roland K.: *See*—  
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- Gahagan, Charles L. Flexible airfoil. 2,872,987, 2-10-59, Cl. 170-159.
- Gahagan, Inc.: *See*—  
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- Gahan, James B.: *See*—  
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- Gahlman, Maurice P. Bale unloading device for vehicles. 2,874,859, 2-24-59, Cl. 214-83.22.
- Gahn, Gerhard: *See*—  
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- Gahwiler, Hermann A., to Contraves A.G. Electric circuit arrangement. 2,898,481, 8-4-59, Cl. 307-106.
- Gaida, Joseph B. Power door locking system. 2,904,988, 9-22-59, Cl. 70-264.
- Gail, Charles H., to Spring Machinery Co. Bed spring machine. 2,888,960, 6-2-59, Cl. 140-92.8.
- Gail, William A., to The Cleveland Pneumatic Industries, Inc. Submarine ballast door mechanism. 2,918,890, 12-29-59, Cl. 114-16.
- Gailliot, Joseph M., Jr., C. M. Wolfe, and H. C. Baker, to General Dynamics Corp. Potentiometer element core. 2,878,349, 3-17-59, Cl. 201-62.
- Gailliot, Paul, J. Robert, and J. Gaudechon, to Societe des Usines Chimiques Rhone-Poulenc. Phentiazine derivatives. 2,891,952, 6-23-59, Cl. 260-243.
- Gailliot, Paul, and J. Gaudechon, to Societe des Usines Chimiques Rhone-Poulenc. Phentiazine derivatives. 2,892,839, 6-30-59, Cl. 260-243.
- Gailliot, Paul, and F. Debarre, to Societe des Usines Chimiques Rhone-Poulenc. Phentiazine derivatives. 2,893,336, 8-4-59, Cl. 260-243.
- Gainer, Gordon C., and D. W. Lewis, to Westinghouse Electric Corp. Bis(chlorophenyl)-tetramethyldisiloxanes. 2,891,981, 6-23-59, Cl. 260-448.2.
- Gainer, William C.: *See*—  
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- Gaines, Clarence F.: *See*—  
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- Gaines, Clarence F. and J. R., C. C. De Pew, and W. J. Carry, said J. R. Gaines, De Pew and Carry assors., to said C. F. Gaines. Sully including adjustable seat. 2,896,962, 7-28-59, Cl. 280-63.
- Gaines, George L., Jr., to General Electric Co. Mica paper and method of preparing it. 2,914,107, 11-24-59, Cl. 154-2.6.
- Gaines, George L., Jr., to General Electric Co. Method of rendering mica paper moisture resistant and article produced thereby. 2,914,426, 11-24-59, Cl. 117-118.
- Gaines, Harry B., to Saginaw Furniture Shops, Inc. Extension commode. 2,869,956, 1-20-59, Cl. 312-297.
- Gaines, John R.: *See*—  
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- Gaines, John R., and C. F., and C. C. De Pew; said J. R. Gaines, and De Pew assors., to C. F. Gaines. Combined handicapping and safety device for sulkies. 2,892,514, 6-30-59, Cl. 188-17.
- Gainesburgh, Charles B. Toy holster construction. 2,869,768, 1-20-59, Cl. 224-2.
- Gainfort, James R.: *See*—  
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- Gair, Albert W., to Thompson Products, Inc. Self-positioning tie rod clamp and turnbuckle assembly. 2,895,756, 7-21-59, Cl. 287-62.



- Gaiser, Paul D. Pullet holder. 2,876,055, 3-3-59, Cl. 312-42.
- Gaiser, Romey A., to Libbey-Owens-Ford Glass Co. Transparent resistance heated panel and method of producing same. 2,877,329, 3-10-59, Cl. 201-73.
- Gaiser, Romey A., to Libbey-Owens-Ford Glass Co. Electrically conducting glass and method for producing same. 2,919,212, 12-29-59, Cl. 117-215.
- Gaisman, Henry J. Spirits-aging container. 2,876,692, 3-10-59, Cl. 99-277.1.
- Gaite, Harold D., to British Telecommunications Research Ltd. Telegraph distributors. 2,883,455, 4-21-59, Cl. 178-53.1.
- Gaite, Harold D., to British Telecommunications Research Ltd. Electric telegraph equipment. 2,892,881, 6-30-59, Cl. 178-2.
- Gaither, Raymond A.: See—
- Falge, Robert N., and Gaither. 2,911,524.
- Todd, Harold E., Meyer, Gaither, Meek, and Wanttaja. 2,880,557.
- Gaither, Raymond A. Torsion bar anti-backlash gear. 2,868,033, 1-13-59, Cl. 74-440.
- Gai-Tronics Corp.: See—
- Radomski, Joseph J., Royle, and Wenrich. 2,877,302.
- Gaitten, Walden M., to Soderham Machine Mfg. Co. Log conveying system for a debarking machine. 2,916,064, 12-8-59, Cl. 144-247.
- Gakle, Wendolyn F., C. C. Lefler, W. O. Warner, and E. L. Holmgren, to Kuhlman Electric Co. Mandrel for forming laminated transformer core. 2,878,855, 3-24-59, Cl. 153-64.
- Gal, Andrew, and K. Gerber, to Rockdrill Industries, Inc. Mole and fluid-driven motor therefor. 2,909,155, 10-20-59, Cl. 121-25.
- Gal, Andrew E.: See—
- Martin, Gustav J., Avakian, and Gal. 2,868,690.
- Gala, Donald C.: See—
- Rosenfeld, Azriel, Gross, and Gala. 2,910,910.
- Galanot, Camille P. Traction device for a vehicle with tires or the like. 2,917,095, 12-15-59, Cl. 152-225.
- Galassi, Francis J., to R. E. Maintain. Assembly of racks to hold articles. 2,909,287, 10-20-59, Cl. 211-55.
- Galat, Alexander. Albumin detecting method and means. 2,897,058, 7-28-59, Cl. 23-230.
- Galavics, Franz, to Landis & Gyr, A.G. Control apparatus for controlling heating systems in dependence on ambient atmospheric conditions. 2,905,388, 9-22-59, Cl. 236-91.
- Galaw, Edmund S.: See—
- Jaffe, Emanuel M., and Galaw. 2,900,889.
- Galbreath, Richmond B., to The American Oil Co. Fractionator bubble cap. 2,871,003, 1-27-59, Cl. 261-114.
- Galbrecht, Frank I.: See—
- Sabel, Edward R., and Galbrecht. 2,913,974.
- Gale, Alfred J.: See—
- Dewey, Davis R., II, and Gale. 2,892,946.
- Gale, Alfred J., to High Voltage Engineering Corp. Compact neutron source. 2,907,884, 10-6-59, Cl. 250-84.5.
- Gale, Alfred J., and C. H. Goldie, to High Voltage Engineering Corp. Charging systems for induction-conduction charged belt electrostatic generators. 2,883,606, 4-21-59, Cl. 322-2.
- Gale, Alfred J., and R. J. Connor, to High Voltage Engineering Corp. Method of evacuation. 2,897,036, 7-28-59, Cl. 316-25.
- Gale, James G., to Newco Mfg. Co., Inc. Sling hook. 2,867,026, 1-6-59, Cl. 24-230.5.
- Galeazzi, Franco. Spraying valve for containers of substances mixed with a volatile propellant. 2,898,012, 8-4-59, Cl. 222-394.
- Galeazzi, Roberto. Open-cycle breathing equipment, particularly for skin-divers. 2,874,692, 2-24-59, Cl. 128-142.
- Galeazzi, Roberto. Open-cycle breathing apparatus. 2,882,895, 4-21-59, Cl. 128-141.
- Galelli, Giuseppe. Grooved bow, particularly for stringed musical instruments. 2,901,937, 9-1-59, Cl. 84-282.
- Galender, Julius: See—
- Chase, George O., and Galender. 2,883,431.
- Gales, Robert S., and H. R. Beitscher. Noise attenuator. 2,901,751, 9-1-59, Cl. 2-6.
- Galimberti, Paolo, to Societa Italiana Prodotti Schering.  $\beta$ -diethylaminoethyl ester of ethyl  $\alpha$ -phenyl- $\alpha$ -ethylmalonate and salts thereof. 2,902,509, 9-1-59, Cl. 260-475.
- Galini, Robert, and A. L. Everitt, to General Motors Corp. Refrigerating apparatus. 2,911,170, 11-3-59, Cl. 248-15.
- Galinski, Roman, to The Edro Corp. Heavy duty washing and dry cleaning machine. 2,875,602, 3-3-59, Cl. 68-19.
- Galiliu, Frank L., and G. Mott, Jr., to Electrolux Corp. Centrifugal blowers. 2,915,237, 12-1-59, Cl. 230-117.
- Gall, Donald A., to General Motors Corp. Fuel injection metering system. 2,871,002, 1-27-59, Cl. 261-69.
- Gall, Francis A., and D. M. Danforth, to The Singer Mfg. Co. Converters for vacuum cleaners. 2,871,504, 2-3-59, Cl. 15-338.
- Gall, Francis A., and W. Krzeslewski, to The Singer Mfg. Co. Circular canister type vacuum cleaners. 2,892,511, 6-30-59, Cl. 183-44.
- Gall, John C.: See—
- Reid, Harry A., and Gall. 2,898,883.
- Gall, John F., and C. E. Inman, to Pennsalt Chemicals Corp. Fluorinating composition. 2,918,434, 12-22-59, Cl. 252-182.
- Gall, Ralph J.: See—
- Greenspan, Frank P., and Gall. 2,919,283.
- Gallagher, Cornelius A., to Servo Corp. of America. Detector for visual and aural direction finders. 2,871,475, 1-27-59, Cl. 343-113.
- Gallagher, Cornelius A., and W. M. Pelino, to Servo Corp. of America. Hot-box detector. 2,880,309, 3-31-59, Cl. 246-169.
- Gallagher, Kenneth C. Artificial lures. 2,909,864, 10-27-59, Cl. 43-42.48.
- Gallagher, Leo H.: See—
- Cade, Phillip J., Gallagher, and Sibley. 2,913,972.
- Gallagher, Ray J., and C. E. Lomax, to General Telephone Laboratories, Inc. Postpay paystation with coin control circuit. 2,881,254, 4-7-59, Cl. 179-6.5.
- Gallagher, Sheridan: See—
- Voell, Louis A. 2,907,827.
- Gallagher, William J. Safety electrical outlet apparatus. 2,898,413, 8-4-59, Cl. 200-42.
- Gallagher, William P., A. D. Stolle, and D. E. Schroeder, to International Register Co. Timing mechanism. 2,886,106, 5-12-59, Cl. 161-1.
- Gallamos, Constanco R. Automatic egg hard- and soft-boiler and water heater. 2,913,566, 11-17-59, Cl. 219-38.
- Gallant, Charles R., and J. J. Onderko, to I-T-E Circuit Breaker Co. Circuit breaker truck position interlock. 2,916,571, 12-8-59, Cl. 200-50.
- Gallant, Francis W., to Crane Co. Pressure equalized bellows valve stem seal. 2,912,867, 11-17-59, Cl. 74-18.2.
- Gallaro, Donald M., and C. B. Etinger, to Hoda Corp. Audible flashing safety turn signals for vehicles. 2,896,190, 7-21-59, Cl. 340-75.
- Gallatin, Harold A.: See—
- Reinke, Herbert J., and Gallatin. 2,870,395.
- Gallatin, Harold A., to Allis-Chalmers Mfg. Co. Generator excitation system. 2,898,540, 8-4-59, Cl. 322-36.
- Gallatin, Lloyd B., 49% to S. T. Shoemaker, and G. G. Briggs. Angle drilling apparatus. 2,883,157, 4-21-59, Cl. 255-23.
- Gallay Ltd.: See—
- Broad, Charles S. 2,871,338.
- Gallay, Pierre H., to Frame S.A. Closure device and process for the manufacture thereof. 2,908,418, 10-13-59, Cl. 220-27.
- Galleher, Ellis A., Jr. Marginal shaping and sealing means for respiratory masks. 2,875,757, 3-3-59, Cl. 128-146.
- Galleher, Ellis A., Jr. Inhaler mask. 2,875,759, 3-3-59, Cl. 128-146.
- Galleher, Ellis A., Jr. Selective contour retaining mask. 2,877,764, 3-17-59, Cl. 128-146.
- Galleher, Ellis A., Jr. Inhaler mask with visual means. 2,902,033, 9-1-59, Cl. 128-146.
- Gallen, William P. Pusher. 2,914,331, 11-24-59, Cl. 279-50.
- Gallentine, Donal O. Shaft position transducer. 2,880,409, 3-31-59, Cl. 340-345.
- Gallier, Edwin L. Motor oil pressure safety ignition switch. 2,902,526, 9-1-59, Cl. 123-146.5.
- Gallini, Leo. Eyeglass case. 2,905,312, 9-22-59, Cl. 206-5.
- Gallina, Harold. Sound track fixture. 2,908,771, 10-13-59, Cl. 179-100.2.
- Gallmeyer, Richard D., and L. F. McBride, to C. W. Fuelling. Material-applying apparatus for sealing pipes and gas mains. 2,910,042, 10-27-59, Cl. 118-105.
- Gallo, Alfredo. Cigarette and match package. 2,894,619, 7-14-59, Cl. 206-48.
- Gallo, John, Sr. Amusement and exercising device. 2,872,191, 2-3-59, Cl. 272-73.
- Gallo, John, Sr. Rake and grapple. 2,902,815, 9-8-59, Cl. 56-400.19.
- Gallo, Mario, to Contraves A.G. Function generating apparatus. 2,883,557, 4-21-59, Cl. 250-219.
- Gallo, Mario, to Contraves A.G. Function generating apparatus. 2,883,558, 4-21-59, Cl. 250-219.
- Gallo, Michael S. Portable sprayer. 2,889,997, 6-9-59, Cl. 239-308.
- Gallo, Michael S. Syphon sprayer. 2,889,998, 6-9-59, Cl. 239-341.
- Gallo, Victor R., Jr. Wall support for a panel. 2,908,458, 10-13-59, Cl. 248-28.
- Gallo, John W., to National Research Development Corp. Travelling wave linear particle accelerators. 2,903,578, 9-8-59, Cl. 250-27.
- Gallotti, Filippo. Method of preserving orange juice. 2,901,356, 8-25-59, Cl. 99-155.
- Galloway, Andrew W.: See—
- Camilli, Guglielmo, Galloway, and Tuttle. 2,879,488.
- Galloway, Robert K., to Food Machinery and Chemical Corp. Machine for inserting articles into cartons. 2,906,392, 9-29-59, Cl. 198-32.
- Galloway, Victor A. Male urethral fluid-absorbing device. 2,891,546, 6-23-59, Cl. 128-295.
- Gallowhr Chemical Corp.: See—
- Cohen, Sylvan I., and Frant. 2,899,340.
- Cohen, Sylvan I., Frant, and Sowa. 2,901,392.
- Gallup, John L., to Radio Corp. of America. Method of treating glass. 2,877,143, 3-10-59, Cl. 117-211.
- Galman, Herbert: See—
- Bruno, Anthony, and Galman. 2,873,428.
- Galmiche, Philippe, to Office National d'Etudes et de Recherches Aeronautiques. Method for the formation of diffusion superficial alloys, in particular chromium alloys. 2,874,070, 2-17-59, Cl. 117-107.



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- Galonska, David A., to General Motors Corp. Helical spline assembly. 2,890,594, 6-16-59, Cl. 74-424.8.
- Galonska, David A., to General Motors Corp. Ball bearing spline. 2,891,823, 6-23-59, Cl. 308-6.
- Galos, Louis. Can opener. 2,868,409, 1-13-59, Cl. 220-52.
- Galvanek, Paul, Jr., to United States of America, Atomic Energy Commission. Process of recovering uranium from its ores. 2,875,023, 2-24-59, Cl. 23-14.5.
- Gamarekian, Sooren E.: *See*—  
Kenney, John T., and Gamarekian. 2,873,577.
- Gambee, John O.: *See*—  
Schulz, George W., and Gambee. 2,889,896.
- Gambrill, Richard D., to Western Electric Co., Inc. Insulation testing apparatus. 2,894,204, 7-7-59, Cl. 324-54.
- Gambrill, Richard D., to Western Electric Co., Inc. Capacitance sensing apparatus. 2,908,861, 10-13-59, Cl. 324-161.
- Gambrill, Richard D., and A. N. Gray, to Western Electric Co., Inc. Extrusion apparatus. 2,872,703, 2-10-59, Cl. 18-112.
- Gambis, Paul. Ocular biomicroscopes. 2,879,689, 3-31-59, Cl. 88-20.
- Gamertsfelder, George R., to General Precision Laboratory Inc. Antenna pattern synthesizer. 2,909,773, 10-20-59, Cl. 343-100.
- Gamet, Louis J.-M., to La Precision Industrielle (Societe Anonyme). Lever actuated machine-tool chuck. 2,880,009, 3-31-59, Cl. 279-119.
- Gamet, Louis J.-M., to La Precision Industrielle (Societe Anonyme). Slidable tailstock. 2,910,905, 11-3-59, Cl. 82-31.
- Gamewell Co., The: *See*—  
Vacha, Fred P. 2,889,529.  
Vacha, Fred P. 2,904,767.
- Gamlen, Donald R., to Hallam, Sleight & Cheston Ltd. Framework structures. 2,904,360, 9-15-59, Cl. 287-54.
- Gammack, James, to United States of America, Navy. Seaplane beaching apparatus. 2,916,003, 12-8-59, Cl. 114-43.5.
- Gammel, Walter A., to Western Electric Co., Inc. Method of locating and replacing defective components of encapsulated electrical assemblies. 2,877,544, 3-17-59, Cl. 29-401.
- Gammon, Howard M., to Thompson Products, Inc. Biasing control for fuel injection system. 2,914,055, 11-24-59, Cl. 123-140.
- Gammon, Howard M., and A. C. Sampietro, to Thompson Products, Inc. Compressor. 2,868,438, 1-13-59, Cl. 230-117.
- Gammon, Lowell C.: *See*—  
Olivette, Ralph K., and Gammon. 2,918,242.
- Gancia, Paul: *See*—  
Cella, Joseph F., and Gancia. 2,898,716.  
Cella, Joseph F., and Gancia. 2,899,233.
- Ganderton, Peter C., to Sydney S. Bird & Sons Ltd. Switch contacts. 2,902,571, 9-1-59, Cl. 200-166.
- Gandon, Louis: *See*—  
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- Gandrud, Ebenhard S. Machine for spreading granular material and means for adjusting the height thereof. 2,874,879, 2-24-59, Cl. 222-177.
- Gandsey, George E.: *See*—  
Bogot, Alexander, and Gandsey. 2,868,462.
- Gang, George J., and J. Minissale. Sliding door closure. 2,909,802, 10-27-59, Cl. 16-87.
- Gang, Herman, to Monroe Calculating Machine Co. Constant factor mechanism. 2,910,230, 10-27-59, Cl. 235-79.
- Ganger, Karl M., and W. H. Wentling, to The Lau Blower Co. Fans. 2,912,159, 11-10-59, Cl. 230-259.
- Ganguin, Karl O.: *See*—  
Beswick, Geoffrey E., and Ganguin. 2,885,288.
- Ganiere, Herbert C.: *See*—  
Sherwood, Edwin T., and Ganiere. 2,879,451.
- Ganine, Peter. Musical comb construction. 2,879,684, 3-31-59, Cl. 84-94.
- Gannett, Wright K.: *See*—  
Mast, Gifford M., Gannett, and Taylor. 2,875,950.
- Gannett, Wright K., to Mast Development Co., Inc. Vernier timing mechanism. 2,907,387, 10-6-59, Cl. 161-1.
- Gannett, Wright K., to Mast Development Co. Angle counter. 2,907,522, 10-6-59, Cl. 235-125.
- Gannett, Wright K., and H. H. Wiese, to United States of America, Army. Motion transmitting mechanism. 2,911,837, 11-10-59, Cl. 74-110.
- Gannoe, Thomas E., to Sylvania Electric Products Inc. Mica feed apparatus. 2,885,117, 5-5-59, Cl. 221-211.
- Gans, François F. Method for preparing pentavalent arsenic selenides. 2,887,359, 5-19-59, Cl. 23-50.
- Ganske, Kingston E., and A. G. Bill, to Arvin Industries, Inc. Radiant heater. 2,914,647, 11-24-59, Cl. 219-34.
- Ganson, Philip: *See*—  
Denney, Ralph E. 2,888,796.
- Ganson, William F. Tangent square. 2,878,575, 3-24-59, Cl. 33-174.
- Gantenbein, Andreas, to Oerlikon Engineering Co. Low-oil content high-tension oil circuit breaker. 2,919,330, 12-29-59, Cl. 200-150.
- Ganter, Bertin C., to Kraft Foods Co. Feeding mechanism. 2,874,821, 2-24-59, Cl. 193-34.
- Gantner, Edward G., to Gantner Industries, Inc. Tissue dispenser and mounting means for the same. 2,882,113, 4-14-59, Cl. 312-245.
- Gantner Industries, Inc.: *See*—  
Gantner, Edward G. 2,882,113.
- Ganton, Joseph E. Fastener strip. 2,867,806, 1-13-59, Cl. 1-56.
- Gants, William A.: *See*—  
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- Gantz, Emanuel, to Empire Brushes, Inc. Combination brush and snow mover. 2,867,827, 1-13-59, Cl. 15-111.
- Ganz, Daniel M., 1/2 to H. Mahler. Display rack divider. 2,869,732, 1-20-59, Cl. 211-184.
- Ganz, Henry, to Johnson & Johnson. Surgical dressing. 2,893,388, 7-7-59, Cl. 128-156.
- Ganzenhuber, John H. Remote alarm circuit for warning lights or the like. 2,905,861, 9-22-59, Cl. 315-136.
- Ganzhorn, Karl, T. Einsele, and H. Bornhauser, to International Business Machines Corp. Memory system. 2,914,754, 11-24-59, Cl. 340-174.
- Ganzler, Martin, and G. Wachtel, to Chesebrough-Pond's, Inc. Rust inhibiting composition. 2,873,195, 2-10-59, Cl. 106-14.
- Garabedian, Charles H.: *See*—  
Garabedian, Joseph M., and C. H. 2,906,557.
- Garabedian, Joseph M., and C. H. Vehicle mounted tank. 2,906,557, 9-29-59, Cl. 296-28.
- Garabedian, Mike: *See*—  
Garabedian, Joseph M., and C. H. 2,906,557.
- Garapolo, Orlando, to Wilson & Co., Inc. Honing device for slicing blade. 2,911,857, 11-10-59, Cl. 76-85.
- Garate, Luis C. Swimming instruction device. 2,875,528, 3-3-59, Cl. 35-29.
- Garbellano, David W. Underwater hood. 2,869,133, 1-20-59, Cl. 2-68.
- Garber, Murray: *See*—  
Herrlinger, Richard, and Garber. 2,898,380.
- Garber, William W.: *See*—  
Alford, Edwin L. 2,913,001.
- Garbers, Helmut, to Licentia Patent-Verwaltungs-G.m.b.H. Safety switch. 2,911,503, 11-3-59, Cl. 200-122.
- Garbo, Paul W., to Hydrocarbon Research, Inc. Conversion of hydrocarbons. 2,885,344, 5-5-59, Cl. 208-59.
- Garbo, Paul W., and F. B. Grossefinger, to Hydrocarbon Research, Inc. Reforming of naphtha with unpromoted activated carbon and regeneration of the catalyst. 2,906,696, 9-29-59, Cl. 208-134.
- Garbuny, Max, and R. C. Ohlmann, to United States of America, Air Force. Photothermionic spectrum converter. 2,870,370, 1-20-59, Cl. 315-10.
- Garbuny, Max, and W. E. Horn, to Westinghouse Electric Corp. Image detector. 2,879,424, 3-24-59, Cl. 313-100.
- Garbutt, Cameron W. Topographical map and method of making same. 2,887,791, 5-26-59, Cl. 35-41.
- Garcia, Charles B., Jr. Combined transfer truck and hoist. 2,906,420, 9-29-59, Cl. 214-651.
- Garcia, Gelasio F., and J. R. Schemansky, to General Motors Corp. Automotive vehicle body. 2,896,997, 7-28-59, Cl. 296-28.
- Garcia, Jose M. Folding chair. 2,873,793, 2-17-59, Cl. 155-143.
- Garcia, Manuel A.: *See*—  
Coble, Gomer L., Jr., and Garcia. 2,911,207.
- Gard, George E., to Armstrong Cork Co. Method and apparatus for dielectric heating. 2,870,543, 1-27-59, Cl. 34-1.
- Gard, George E., to Armstrong Cork Co. Method of drying fibrous boards. 2,870,544, 1-27-59, Cl. 34-1.
- Gard, George E., to Armstrong Cork Co. Arc minimizers. 2,873,345, 2-10-59, Cl. 219-10.43.
- Gard, George E., and W. Rueggeberg, to Armstrong Cork Co. Dielectric heater electrode systems. 2,892,915, 6-30-59, Cl. 219-10.67.
- Gard Products, Inc.: *See*—  
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- Gardberg, Joseph, to Teletype Corp. Start-stop telegraph signal generator. 2,900,448, 8-18-59, Cl. 178-26.
- Gardberg, Joseph, to Teletype Corp. Signal distortion indicator. 2,909,604, 10-20-59, Cl. 178-69.
- Gardberg, Joseph, to Teletype Corp. Distortion signal generator. 2,909,605, 10-20-59, Cl. 178-69.
- Gardella, Adriano and C. Centrifugal can spinning units. 2,871,649, 2-3-59, Cl. 57-77.
- Gardella, Adriano and C. Multi-drawing frame particularly adapted for use on high-speed spinning frame. 2,896,269, 7-28-59, Cl. 19-13.
- Gardella, Costantino: *See*—  
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Gardella, Adriano and C. 2,896,269.
- Gardella, Costantino. Thread cheese-ejecting device for suspended centrifugal spinning cans. 2,895,283, 7-21-59, Cl. 57-34.
- Garden, William D., and J. M. C. Thompson, to Imperial Chemical Industries Ltd. Organosiloxy aryl phosphonates. 2,889,349, 6-2-59, Cl. 260-448.2.
- Garden City Plating & Mfg. Co.: *See*—  
Arnit, Fred H. 2,869,499.  
Arnit, Fred H. 2,898,159.  
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- Gardex, Inc.: *See*—  
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- Gardner, Donald A., Jr., and J. S. Rhoades, to Kaiser Aluminum & Chemical Corp. Article of manufacture. 2,880,860, 4-7-59, Cl. 206-58.
- Gardner, Duncan B., to Vickers Inc. Power transmission. 2,872,873, 2-10-59, Cl. 103-136.
- Gardner, Emmett G., to General Electric Co. Shaft bearing lubrication means. 2,905,510, 9-22-59, Cl. 308-134.1.
- Gardner, John A., to Power Jets (Research and Development) Ltd. Combustion apparatus for burning ash-forming liquid fuel. 2,895,297, 7-21-59, Cl. 60-39.74.
- Gardner, Paul C., to General Electric Co. Magnetron. 2,906,921, 9-29-59, Cl. 315-39.69.
- Gardner, William C., H. A. Mosher, and W. J. Sakowski, to Olin Mathieson Chemical Corp. Production of lithium hydroxide. 2,872,393, 2-3-59, Cl. 204-99.
- Gardner, Adryl W. Combined grading and rolling machines. 2,882,623, 4-21-59, Cl. 37-146.
- Gardner, Adryl W. Segmented roll. 2,895,390, 7-21-59, Cl. 94-50.
- Gardner, August M., to The Singer Mfg. Co. Hem-folding attachments. 2,880,685, 4-7-59, Cl. 112-141.
- Gardner, Benjamin F. Flexible wheel. 2,916,331, 12-8-59, Cl. 305-19.
- Gardner, Clair C. Magazine cabinet. 2,871,084, 1-27-59, Cl. 312-310.
- Gardner, David G.: *See*—  
Hewitt, John E., Schmidt, and Gardner. 2,868,924.
- Gardner-Denver Co.: *See*—  
Bent, John H. 2,869,403.  
Booth, William M. 2,899,018.  
Bos, John R., and Shulters. 2,884,685.  
Botkje, John D., and Shulters. 2,901,219.  
Chaffee, Walter C., and Robinson. 2,868,044.  
Shulters, Robert B., and Bos. 2,885,764.  
Shulters, Robert B., and Robinson. 2,883,891.  
Smith, Ralph E., Hannum, and Booth. 2,905,194.  
Swanson, Roger I. 2,905,149.
- Gardner, Donald B. Pruning saw attachment. 2,881,519, 4-14-59, Cl. 30-166.
- Gardner, Edward B., and A. R. Nielson, to Plax Corp. Method and apparatus for treating synthetic resin containers. 2,892,733, 6-30-59, Cl. 117-46.
- Gardner, Eris K. Guidance system especially adapted for lawn mower. 2,885,019, 5-5-59, Cl. 180-79.
- Gardner, George F., to General Electric Co. Slip ring tape. 2,880,402, 3-31-59, Cl. 339-5.
- Gardner, Guy F., to Massey-Ferguson Inc. Load transporting attachment for agricultural implements. 2,907,396, 10-6-59, Cl. 172-611.
- Gardner, Harold L. Traveling-plant mixer. 2,885,934, 5-12-59, Cl. 94-40.
- Gardner, Harris L., and W. Argereu,  $\frac{1}{2}$  to W. B. MacKenzie. Hockey stick. 2,912,245, 11-10-59, Cl. 273-67.
- Gardner, Harry L. Golf club cleaner. 2,871,499, 2-3-59, Cl. 15-246.
- Gardner, Henry A.: *See*—  
Neubrech, David A., and Cattaro. 2,871,370.
- Gardner, James K.: *See*—  
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- Gardner, John C. Bag holder. 2,875,970, 3-3-59, Cl. 248-101.
- Gardner, Karl A., R. Gardner, Jr., and F. Boni, Jr., to The Griscum-Russell Co. Heat exchanger tube sheet joint construction. 2,911,200, 11-3-59, Cl. 257-239.
- Gardner, Leonal P. Snap cap for bottles. 2,877,918, 3-17-59, Cl. 215-74.
- Gardner, Leonal P. Dispensing cap and closure for tube containers. 2,889,088, 6-2-59, Cl. 222-523.
- Gardner, Lloyd E.: *See*—  
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- Gardner Machine Co.: *See*—  
Kubsh, Leroy M., and Loffboro. 2,900,241.  
Price, Ralph E. 2,871,625.  
Price, Ralph E. 2,882,651.  
Price, Ralph E. 2,899,779.  
Price, Ralph E., and Hure. 2,882,650.
- Gardner, Milton B. Printers' friction-locking quoin. 2,894,721, 7-14-59, Cl. 254-42.
- Gardner, Owen M., to Kaiser Aluminum & Chemical Corp. Apparatus for continuous casting of metal. 2,876,509, 3-10-59, Cl. 212-57.2.
- Gardner, Priscilla D. Personalized sound. 2,886,647, 5-12-59, Cl. 179-100.1.
- Gardner, Raymond, Jr.: *See*—  
Gardner, Karl A., R. Gardner, Jr., and Boni. 2,911,200.
- Gardner, Raymond, Jr., to The Griscum-Russell Co. Rotatable arc welding tool. 2,868,953, 1-13-59, Cl. 219-125.
- Gardner, Richard H., to Clark Equipment Co. Hydraulic cylinder and piston construction. 2,899,938, 8-18-59, Cl. 121-46.
- Gardner, Roland M., E. E. Yeo, and A. E. Preston, to Sylvania Electric Products Inc. Lamp finishing head. 2,880,494, 4-7-59, Cl. 29-25.19.
- Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. 5-methyl-3-isoxazole carboxylic acid hydrazides. 2,908,688, 10-13-59, Cl. 260-307.
- Gardner, Willis W., and J. T. McKean, to Allis Chalmers Mfg. Co. Automatic trust device for hydrogen seal. 2,895,750, 7-21-59, Cl. 286-9.
- Gardner, Wylie M. Mining car with front end loading. 2,907,125, 10-6-59, Cl. 37-124.
- Garey, Edward F. Electrically operated bassinet rocking device. 2,884,651, 5-5-59, Cl. 5-109.
- Garfein, Allen E.: *See*—  
Arsenault, William R., Garfein, and Thorensen. 2,905,834.
- Garfinkel, Alan R., to Sperry Rand Corp., Ford Instrument Co. Division. Pulse coded signal separator. 2,884,615, 4-28-59, Cl. 340-147.
- Garfinkel, Alan R., B. A. Spinelli, and I. Munt, to Sperry Rand Corp., Ford Instrument Co. Division. Miniature filamentary numerical display. 2,878,418, 3-17-59, Cl. 315-69.
- Garfinkel, Alan R., and S. Oken, to Sperry Rand Corp., Ford Instrument Co. Div. "Exclusive or" gate. 2,868,999, 1-13-59, Cl. 307-88.
- Garfunkel, Jack, to Continental Can Co., Inc. Shipping container for clothing. 2,893,545, 7-7-59, Cl. 206-7.
- Gargani, Emil P., and A. A. Weiner, to Republic Aviation Corp. Testing apparatus. 2,904,750, 9-15-59, Cl. 324-51.
- Gargini, Eric J., to Electric & Musical Industries Ltd. Television relay and like apparatus. 2,906,815, 9-29-59, Cl. 178-6.
- Gargisa, Marion: *See*—  
Rudel, Harry W., and Gargisa. 2,884,379.
- Gargrave, Robert A., to Dayton Perforators, Inc. Piercing punch. 2,917,960, 12-22-59, Cl. 83-128.
- Gariepy, Henry J. Corner packing device. 2,878,982, 3-24-59, Cl. 229-14.
- Garizio, John E., A. M. Rubino, and M. L. Almquist, to Reheis Co., Inc. Aluminum chlorhydroxy alcohols and process of making same. 2,876,163, 3-3-59, Cl. 167-90.
- Garland, Charles J., and D. W. Turner, to Merritt Engineering Co. Tile cutting and fusing tool. 2,873,523, 2-17-59, Cl. 30-140.
- Garland, Edward J., to The Electric Storage Battery Co. Flashlight end cap. 2,882,888, 4-14-59, Cl. 240-10.6.
- Garland, Edward J., to The Electric Storage Battery Co. Flashlight. 2,915,621, 12-1-59, Cl. 240-10.66.
- Garland, Hereford: *See*—  
Yeadon, Donald J., Hooker, and Garland. 2,899,994.
- Garland, Milton W., to Frick Co. Ice-making apparatus. 2,870,612, 1-27-59, Cl. 62-138.
- Garland, Robt. G.: *See*—  
Hunt, William J. 2,888,015.
- Garland, Robert J., to Carrier Corp. Heat exchanger construction. 2,868,515, 1-13-59, Cl. 257-262.20.
- Garland, Willis F. Portable power plane. 2,894,549, 7-14-59, Cl. 145-4.
- Garlette, William A., Jr., and K. L. Godfrey, to Monsanto Chemical Co. Purifying 2,2'-thiobis (polyhalophenols). 2,868,841, 1-13-59, Cl. 260-609.
- Garlinghouse Brothers: *See*—  
Denning, Robert D., 2,900,883.  
Denning, Robert D., and Garlinghouse. 2,917,979.
- Garlinghouse, Leslie H.: *See*—  
Denning, Robert D., and Garlinghouse. 2,917,979.
- Garlock, Donald L.: *See*—  
Genovese, Anthony L., Sr., Batchelor, Belli, Garlock, and A. L. Genovese, Jr. 2,888,215.
- Garlock Packing Co., The: *See*—  
Hammond, Frank E. 2,879,804.  
Thompson, William B., and Wrobbel. 2,905,489.  
Tobias, Arthur R. 2,882,081.
- Garmager, Curt H., to Borg-Warner Corp. Clutch plate. 2,888,122, 5-26-59, Cl. 192-107.
- Garmager, Curt H., to Borg-Warner Corp. Clutch. 2,901,066, 8-25-59, Cl. 192-17.
- Garmager, Curt H., to Borg-Warner Corp. Clutch element with ceramic-metallic friction disc. 2,916,123, 12-8-59, Cl. 192-107.
- Garmaise, David L.: *See*—  
McKay, Arthur F., and Garmaise. 2,886,584.
- Garman, Donald F., to Prestole Corp. Molding fastener. 2,899,729, 8-18-59, Cl. 24-73.
- Garman, Donald F., to Prestole Corp. Panel fastener having a caged nut and cage with detent holding means. 2,908,311, 10-13-59, Cl. 151-41.75.
- Garman, Donald F., to Prestole Corp. Spacer guide for antenna cables. 2,908,470, 10-13-59, Cl. 248-234.
- Garman, George P. Automatic tube tester. 2,906,943, 9-29-59, Cl. 324-22.
- Garner, Albert Y., to Monsanto Chemical Co. Process for producing phosphinic acid phosphonates. 2,916,510, 12-8-59, Cl. 260-461.
- Garner, Claude R., to Dresser Operations, Inc. Bit and cutter therefor. 2,897,302, 5-19-59, Cl. 255-349.
- Garner, Clifford S., to United States of America, Atomic Energy Commission. Method of making plutonium dioxide. 2,868,620, 1-13-59, Cl. 23-14.5.
- Garner, Clifford S., to United States of America, Atomic Energy Commission. Process of forming plutonium salts from plutonium oxalates. 2,875,025, 2-24-59, Cl. 23-14.5.
- Garner, Clifford S., to United States of America, Atomic Energy Commission. Method of oxidizing plutonium ion with bismuthate ion. 2,917,362, 12-15-59, Cl. 23-14.5.
- Garner, Fred W., to Lockheed Aircraft Corp. Heat treatment rack. 2,882,032, 4-14-59, Cl. 263-47.
- Garner, George. Variable speed fluid transmission unit. 2,867,311, 1-6-59, Cl. 192-60.
- Garner, Kirby R. Casting rod handle. 2,911,750, 11-10-59, Cl. 43-22.



- Garner, Lloyd P., to Radio Corp. of America. Electron tube. 2,909,698, 10-20-59, Cl. 313—237.
- Garner, Lue O., to General Merchandising Corp. Rack for catalogs and the like. 2,910,802, 11-3-59, Cl. 45—60.
- Garner, Paul H. Mounting unit for tractor-conveyed implement. 2,919,143, 12-29-59, Cl. 280—497.
- Garner, Philip J.: *See*—
- Ledham, Kenneth, and Garner. 2,898,359.
- Garner, Russell F.: *See*—
- Wantz, Clarence, and Garner. 2,898,439.
- Garner, Russell F., to Robertshaw-Fulton Controls Co. Control devices for fluid fuel burners. 2,893,485, 7-7-59, Cl. 161—9.
- Garner, Russell F., to Robertshaw-Fulton Controls Co. Control device for fluid fuel burners. 2,918,088, 12-22-59, Cl. 137—630.19.
- Garnett, Donald W., to The Olofsson Corp. Vibratory feed mechanism. 2,917,158, 12-15-59, Cl. 198—220.
- Garnett, Edward V., to Truck Equipment Co. Vehicle derrick. 2,907,473, 10-6-59, Cl. 212—8.
- Garnett, Edward V. Cable reel trailer. 2,913,194, 11-17-59, Cl. 242—86.5.
- Garnett, Rubin D.: *See*—
- Swain, William J., and Garnett. 2,875,888.
- Garnier, Georges, to Air-Equipment. Electrical regulators and in particular carbon-pile voltage regulators. 2,879,466, 3-24-59, Cl. 322—28.
- Garnier, Georges, to Air-Equipment. Accessories gear boxes. 2,896,475, 7-28-59, Cl. 74—665.
- Garnier, Georges, to Air-Equipment. Gyroscopes. 2,907,212, 10-6-59, Cl. 74—5.1.
- Garnier, Georges, to Air-Equipment. Control devices having a phase discriminator. 2,910,637, 10-27-59, Cl. 318—207.
- Garofalo, Lawrence J.: *See*—
- De Falco, Anthony. 2,895,717.
- Garoff, Kenton, to United States of America, Army. Duplex system. 2,908,872, 10-13-59, Cl. 333—9.
- Garrard Engineering and Mfg. Co. Ltd., The: *See*—
- Butler, Wilfred. 2,888,108.
- Fortune, Henry J. 2,887,321.
- Manning, Walter F. 2,873,977.
- Mortimer, Edmund W. 2,879,960.
- Garratt, Charles S., Jr. Ventilator pane thermometer. 2,885,170, 5-5-59, Cl. 248—226.
- Garratt, Leslie: *See*—
- Bentley, Alfred M., Garratt, and Smith. 2,895,205.
- Garraway, George H. Recirculating and supply valve. 2,881,796, 4-14-59, Cl. 137—561.
- Garred, William P. Disposable infant's nursing bottle. 2,879,911, 3-31-59, Cl. 215—11.
- Garred, William P. Infant's nursing bottle assembly. 2,881,935, 4-14-59, Cl. 215—11.
- Garretson, Craig M., to Sylvania Electric Products Inc. Filament tensioning device. 2,915,668, 12-1-59, Cl. 313—278.
- Garretson, Floyd. Mail box support. 2,876,977, 3-10-59, Cl. 248—146.
- Garrett, Charles G. B.: *See*—
- Brattain, Walter H., and Garrett. 2,870,344.
- Garrett Corp., The: *See*—
- Barens, Leonard H. 2,909,966.
- Bartlett, James L., Jr., Hertzog, and Pickard. 2,871,671.
- Bicknell, Robert, Lehberger, and Walker. 2,908,919.
- Bush, Robert M., Jensen, and King. 2,896,590.
- Byloff, Robert C., and Jackson. 2,909,706.
- Cary, John R. 2,867,990.
- Cholvin, Robert L., Harvey, and Jensen. 2,909,323.
- Cluff, Harold E., Parker, and Riple. 2,909,166.
- Cox, Eugene S., and Meermans. 2,888,302.
- Dotson, Donald A. 2,873,578.
- Dotson, Donald A. 2,888,801.
- Dunaway, Reece J. 2,873,754.
- Fischer, Richard A. 2,873,661.
- Fischer, Richard A., and Kemper. 2,900,890.
- Fraebel, Robert J., and Irre. 2,876,468.
- Green, Frederick H. 2,873,582.
- Green, Frederick H. 2,892,316.
- Green, Frederick H. 2,904,965.
- Greenwald, Harold A. 2,888,193.
- Jensen, Raymond W. 2,867,194.
- Jensen, Raymond W. 2,884,003.
- Jensen, Raymond W. 2,884,905.
- Jensen, Raymond W., Baron, and McNutt. 2,918,042.
- Jensen, Raymond W., and Etches. 2,906,849.
- Kuhn, John. 2,873,945.
- Le May, Dan B., and La Fleur. 2,902,836.
- Lones, Dain B., and Westman. Re. 24,597.
- Maas, Bernard N. 2,883,920.
- Maas, Bernard N., Damiani, and Silver. 2,907,548.
- Marlin, Elmer D. 2,896,653.
- McCormack, William H. 2,889,112.
- Northrop, John K. 2,905,128.
- Parker, Wilton E., Whitaker, Getz, Hertzog, and Chapman. 2,908,189.
- Schelp, Helmut R. 2,892,322.
- Schelp, Helmut R. 2,918,787.
- Schelp, Helmut R. 2,919,103.
- Schlanner, Roy L. 2,900,917.
- Steele, Harry M., Jr. 2,902,863.
- Summers, Thomas O., Jr. 2,877,966.
- Trebilcock, Douglas A. 2,877,945.
- Walker, Alan B. 2,914,779.
- Wimpress, Donald S. 2,889,117.
- Garrett, Donald E., and H. T. Freestone, to General Electric Co. Height compensation in vertical output stage. 2,898,510, 8-4-59, Cl. 315—22.
- Garrett, Elmer E.: *See*—
- Essex, Alois B., Garrett, and McKenney. 2,897,466.
- Garrett, Jack N. Bale band splicer. 2,886,817, 5-19-59, Cl. 1—177.
- Garrett, Jack N. Cotton bale extractor. 2,894,653, 7-14-59, Cl. 214—620.
- Garrett, John E., and J. H. Gerstenmaier, to The Goodyear Tire & Rubber Co. Seal. 2,905,985, 9-29-59, Cl. 20—69.
- Garrett, Lester C.: *See*—
- Chaney, William A., Garrett, and Byrd. 2,878,962.
- Garrett, Lewis E.: *See*—
- Hawkins, James E., and Garrett. 2,871,473.
- Garrett Tubular Products, Inc.: *See*—
- Shearman, Spicer D., and Herbolsheimer. 2,872,223.
- Garrison, Allen D., to Texaco Development Corp. Radiation detector. 2,873,399, 2-10-59, Cl. 313—93.
- Garrison, Allen D., to Texaco Development Corp. Detection of radiation. 2,879,398, 3-24-59, Cl. 250—71.
- Garrison, Allen D., and R. E. Kunetka, to The Texas Co. In situ combustion. 2,871,942, 2-3-59, Cl. 166—38.
- Garrison, Clifford L., to Oliver Instrument Co. Method of grinding and grinding wheel therefor. 2,875,559, 3-3-59, Cl. 51—206.
- Garrison, Clifford L., to Oliver Instrument Co. Grinding machine and work supporting means therefor. 2,875,648, 3-3-59, Cl. 76—41.
- Garrison, Harold K., and T. W. Locke, to Doane Agricultural Service, Inc. Bracket. 2,884,670, 5-5-59, Cl. 20—92.
- Garrison, James O.: *See*—
- Garrison, Ralph P. and J. O., and Walker. 2,885,212.
- Garrison, James O., to Garrison Machine Works, Inc. Chuck. 2,890,055, 6-9-59, Cl. 279—2.
- Garrison, James O., and D. D. Walker, to Garrison Machine Works, Inc. Locating stud. 2,879,070, 3-24-59, Cl. 279—123.
- Garrison, James O., and D. D. Walker, to Garrison Machine Works, Inc. Universal mounting for air operated chuck. 2,911,223, 11-3-59, Cl. 279—4.
- Garrison Machine Works, Inc.: *See*—
- Garrison, James O. 2,890,055.
- Garrison, James O., and Walker. 2,879,070.
- Garrison, James O., and Walker. 2,911,223.
- Garrison, Ralph P. and J. O., and Walker. 2,885,212.
- Walker, David D. 2,890,053.
- Garrison, Marion A., to Johnston Testers, Inc. Bottom hole weight indicator. 2,869,363, 1-20-59, Cl. 73—151.
- Garrison, Marion A., to Johnston Testers, Inc. Packer. 2,875,837, 3-3-59, Cl. 66—204.
- Garrison, Marion A., to Eastman Oil Well Survey Co. Turbine well drilling apparatus. 2,890,859, 6-16-59, Cl. 255—1.6.
- Garrison, Ralph P. and J. O., and D. D. Walker, to Garrison Machine Works, Inc. Pressure operated chuck. 2,885,212, 5-5-59, Cl. 279—106.
- Garrison, Victor C., E. M. Nakaji, and K. F. Wessling, to Central Scientific Co. Vacuum pump. 2,877,946, 3-17-59, Cl. 230—153.
- Garrison, Warren B.: *See*—
- Wilcox, Stanley W., and Garrison. 2,880,413.
- Garrison, Warren M.: *See*—
- Burton, Milton, McClinton, and Garrison. 2,877,171.
- Garcia, Alfons J., and R. F. Rodger, to Rolls-Royce Ltd. Electrical measuring means for measuring welding current flow. 2,897,444, 7-28-59, Cl. 324—103.
- Garshells, Ivan J. Voltage regulators. 2,892,145, 6-23-59, Cl. 323—19.
- Garst, Jonathan. Process of preparing aqua ammonia. 2,874,029, 2-17-59, Cl. 23—193.
- Garten, Wilhelm, to Accumulatoren-Fabrik Akt. Battery plate. 2,882,330, 4-14-59, Cl. 136—43.
- Garth, Harold. Steam generator. 2,886,689, 5-12-59, Cl. 219—38.
- Garth, James. Wall cavity tray. 2,870,627, 1-27-59, Cl. 72—128.
- Garth, William W., Jr., to Graphic Arts Research Foundation, Inc. Type composing apparatus. 2,888,865, 6-2-59, Cl. 95—4.5.
- Garthwaite, Ernest, to Marconi Instruments Ltd. Resistance terminating loading devices. 2,901,710, 8-25-59, Cl. 333—22.
- Gärtner, Gunter, A. Schwab, and H. Harz, to Siemens-Schuckertwerke Akt. Brush holder for dynamoelectric machines. 2,900,540, 8-18-59, Cl. 310—246.
- Gartner, Josef. Pivoted window. 2,910,742, 11-3-59, Cl. 20—53.
- Gartner, Josef, to Josef Gartner & Co. Metal window wall. 2,916,108, 12-8-59, Cl. 189—34.
- Gartner, Josef, & Co.: *See*—
- Gartner, Josef. 2,916,108.
- Gartner, Stanley J.: *See*—
- Reiter, William L., Gartner, and Roerber. 2,872,949.
- Gartner, Stanley J., to Sylvania Electric Products Inc. Bulb rolling machine. 2,880,550, 4-7-59, Cl. 49—7.
- Gartner, Stanley J., to Sylvania Electric Products Inc. Mica transfer mechanism. 2,889,057, 6-2-59, Cl. 214—1.
- Gartner, Stanley J., to Sylvania Electric Products Inc. Tube knocker. 2,894,202, 7-7-59, Cl. 324—20.
- Gartner, Stanley J., to Sylvania Electric Products Inc. Mechanism for removing wire coating. 2,904,803, 9-22-59, Cl. 15—3.



- Gartner, Stanley J., to Sylvania Electric Products, Inc. Exhaust machine chuck. 2,907,141. 10-6-59, Cl. 49-64.
- Gartner, Stanley J., to Sylvania Electric Products Inc. Cathode feed. 2,911,114. 11-3-59, Cl. 214-1.
- Gartner, Stanley J., and M. S. De Lucia, to Sylvania Electric Products Inc. Welding machine. 2,889,446. 6-2-59, Cl. 219-86.
- Gartvall, Bo Y. R.: *See*—  
Sundberg, Erik G., and Gartvall. 2,913,512.
- Garver, Reed E.: *See*—  
Flach, Donald O., and Garver. 2,899,272.  
Leslie, James D., Garvey, and West. 2,900,183.
- Garvey, James. Split plodder nozzles. 2,918,714. 12-29-59, Cl. 25-17.
- Garvey, Louis P.: *See*—  
Adams, Daniel M., and Garvey. 2,890,299.  
Brand, Hugh R., Garvey, and Haviland. 2,892,657.
- Garvey, Louis P., and C. H. Schamel, to General Motors Corp. Vehicle closure latch. 2,896,990. 7-28-59, Cl. 292-229.
- Garvin, Milton M., to American Radiator & Standard Sanitary Corp. Method of making cam shafts. 2,892,254. 6-30-59, Cl. 29-421.
- Garvin, Milton M., to American Radiator & Standard Sanitary Corp. Machines for shaping hollow tubular objects. 2,902,962. 9-8-59, Cl. 113-44.
- Garwin, Leo: *See*—  
Goren, Mayer B., Pickell, and Garwin. 2,911,373.
- Garwin, Leo, to Kerr-McGee Oil Industries, Inc. Method of preparing rubber composition comprising asphaltic oil and rubber. 2,904,527. 9-15-59, Cl. 260-33.6.
- Garwin, Richard L., to International Business Machines Corp. Magnetic refrigerator having thermal valve means. 2,913,881. 11-24-59, Cl. 62-3.
- Garwin, Richard L., H. A. Reich, and S. Triebwasser, to International Business Machines Corp. Memory devices. 2,897,399. 7-28-59, Cl. 315-10.
- Garwood, John S., to Sperry Rand Corp. Gyro magnetic compass system. 2,887,782. 5-26-59, Cl. 33-222.
- Gary, Howland R.: *See*—  
Lawson, Axel A., Hazel, Gary, and Gittler. 2,904,785.
- Gary, Lonnie M.: *See*—  
Williams, Paul E. 2,912,843.
- Gary, Wilbur Y.: *See*—  
Bain, Joseph P., and Gary. 2,911,442.
- Gary, Wright W.: *See*—  
Sawyer, Edgar W., Jr., and Gary. 2,895,873.
- Gas Council, The: *See*—  
Mills, John E. 2,868,617.
- Gasche, Fred, to Autoclave Engineers, Inc. Valve. 2,887,293. 5-19-59, Cl. 251-88.
- Gasche, Fred, and R. L. Porter, to Autoclave Engineers, Inc. High pressure relief device. 2,912,992. 11-17-59, Cl. 137-70.
- Gash, Virgil W., and B. S. Wildt, to Monsanto Chemical Co. Preparation of 21-hydroxy steroids. 2,883,404. 4-21-59, Cl. 260-397.47.
- Gasior, Joseph F., and R. Greiff, to Congoleum-Nairn Inc. Tube crimping machine. 2,916,975. 12-15-59, Cl. 93-55.1.
- Gaskell, C. J., Co., Inc.: *See*—  
Holden, James D. 2,901,033.
- Gaskell, Walter L., to King-Seely Corp. Shiftable motor drive for tilting arbor saw. 2,873,773. 2-17-59, Cl. 143-36.
- Gaskill, George M., and M. G. Wright, to General Motors Corp. Combined signal seeking push button and manual tuner with dual purpose solenoid. 2,898,464. 8-4-59, Cl. 250-40.
- Gaskill, William A., to Westinghouse Electric Corp. Fusible device. 2,892,060. 6-23-59, Cl. 200-113.
- Gaskin, John F.: *See*—  
Anderson, Stanley F., and Gaskin. 2,910,122.
- Gasmire, Richard C.: *See*—  
Schaich, Wilbur A., and Gasmire. 2,910,712.
- Gaspar, Emeric, M. G. Munns, and P. F. Harrison, to The Projectile & Engineering Co. Ltd. Locking and injection actuating device for injection moulding machines. 2,880,461. 4-7-59, Cl. 18-30.
- Gaspar, Emeric, M. G. Munns, and P. F. Harrison, to The Projectile and Engineering Co. Ltd. Injection molding heating cylinder. 2,894,286. 7-14-59, Cl. 18-30.
- Gaspar, Emeric, and M. G. Munns, to The Projectile and Engineering Co. Ltd. Injection moulding apparatus. 2,914,804. 12-1-59, Cl. 18-30.
- Gaspardo, Martin S. Casket construction. 2,907,090. 10-6-59, Cl. 27-8.
- Gasparini, Benedetto. Toothpick dispenser. 2,914,216. 11-24-59, Cl. 221-190.
- Gasparini, Francis A., to Westinghouse Electric Corp. Suction cleaning apparatus. 2,918,693. 12-29-59, Cl. 15-323.
- Gasparini, Gene: *See*—  
Ferriss, Frederick, and Gainfort. 2,879,726.  
Ferriss, Frederick, and Gainfort. 2,882,841.
- Gasparotti, John J., to Knapp-Monarch Co. Speed control device. 2,907,226. 10-6-59, Cl. 74-469.
- Gaspar, Robert R., to Western Electric Co., Inc. Apparatus for determining the location of mounting holes to be drilled in a part. 2,870,542. 1-27-59, Cl. 33-181.
- Gaspar, Robert R., to Western Electric Co., Inc. Template controlled article positioning mechanism. 2,910,896. 11-3-59, Cl. 77-21.
- Gassaway, Benjamin F., to Flo-Container Inc. Elastic container with reciprocating plunger. 2,898,007. 8-4-59, Cl. 222-212.
- Gassino, Teresio: *See*—  
Capellaro, Natale, and Gassino. 2,875,882.
- Gassmann, Johannes, to Daimler-Benz Akt. Chain drive. 2,894,051. 7-7-59, Cl. 123-146.5.
- Gassner, Hans: *See*—  
Reissmüller, Ernst, and Gassner. 2,883,825.
- Gasson, Denys B.: *See*—  
Billig, Ernst, and Gasson. 2,887,453.
- Gasson, Edward J., and D. J. Hadley, to The Distillers Co. Ltd. Production of nicotinamide and isonicotinamide. 2,904,552. 9-15-59, Cl. 260-295.
- Gasson, Edward J., and D. J. Hadley, to The Distillers Co. Ltd. Alcoholysis of aromatic carboxylic acid amides with polyhydric alcohols. 2,914,553. 11-24-59, Cl. 260-475.
- Gast, Albert K., deceased (G. G. and A. K. Gast, Jr., executors), and A. K. Gast, Jr.; said A. K. Gast Jr., assor. to Star Shade Cutter Co. Shade cutter. 2,888,048. 5-26-59, Cl. 144-4.
- Gast, Albert K., Jr.: *See*—  
Gast, Albert K., and A. K. Gast, Jr. 2,888,048.
- Gast, George G.: *See*—  
Gast, Albert K., and A. K. Gast, Jr. 2,888,048.
- Gast, Lyle E.: *See*—  
Teeter, Howard M., Schneider, and Gast. 2,889,309.
- Gast, Lyle E., J. C. Cowan, and H. M. Teeter, to United States of America, Agriculture. Alkyl esters of alkoxyacyloxy stearic acid. 2,873,255. 2-10-59, Cl. 252-56.
- Gaston, Jack E., to Armstrong Cork Co. Method of shaping a starch-bound fibrous mass. 2,904,843. 9-22-59, Cl. 18-55.
- Gastright, Frank A. Self-erecting box with tabs and recesses for engagement by feeding and erecting mechanism. 2,877,943. 3-17-49, Cl. 229-41.
- Gates, Albert G. R., to Gestetner Ltd. Duplicating machines. 2,869,458. 1-20-59, Cl. 101-247.
- Gates, Charles C., Jr.: *See*—  
Gates, Harry F. 2,888,954.
- Gates, Dale: *See*—  
Gates, Joseph H. and D. 2,917,120.
- Gates, Eugene H., Jr. Ribbon supply apparatus for reverse image typing. 2,869,704. 1-20-59, Cl. 197-151.
- Gates, Eugene H., Jr. Outboard ribbon supply apparatus for typewriters. 2,869,705. 1-20-59, Cl. 197-151.
- Gates, George A.: *See*—  
McGraw, Roger J., and Gates. 2,919,145.
- Gates, Harry F., deceased, by M. H., J. G., and C. C. Gates, Jr., executors. Laminated plastic pipe. 2,888,954. 6-2-59, Cl. 138-55.
- Gates, Harry W., to International Telephone and Telegraph Corp. Frequency modulating system. 2,887,663. 5-19-59, Cl. 332-24.
- Gates, James T. Imprinter plate rack. 2,873,859. 2-17-59, Cl. 211-41.
- Gates, James T., to Cleveland Pneumatic Industries, Inc. Load releasable nut comprising arcuate segments resiliently held together. 2,882,781. 4-21-59, Cl. 85-33.
- Gates, John G.: *See*—  
Gates, Harry F. 2,888,954.
- Gates, John W., Jr.: *See*—  
Dann, John R., Gates, Smith, and Unruh. 2,882,161.
- Gates, Joseph H. and D. Combination wheeled and crawler type support for vehicles. 2,917,120. 12-15-59, Cl. 180-9.36.
- Gates, Lester C.: *See*—  
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- Gates, Lyna L., to Borg-Warner Corp. Safety brake mechanism. 2,902,119. 9-1-59, Cl. 188-152.
- Gates, Mitten H.: *See*—  
Gates, Harry F. 2,888,954.
- Gates, Richard L., to Thompson Ramo Wooldridge Inc. Vacuum driven automotive fuel pump. 2,898,865. 8-11-59, Cl. 103-152.
- Gates, Robert L., to Food Machinery and Chemical Corp. Control of plant diseases of ascomycetes origin employing N-phenyl-dichloro-maleimide. 2,898,266. 8-4-59, Cl. 167-33.
- Gates Rubber Co., The: *See*—  
Russ, Paul E. 2,913,915.
- Gates and Sons Inc.: *See*—  
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- Gates, Thomas S., to National Broach & Machine Co. Gear gauging and sorting apparatus. 2,905,320. 9-22-59, Cl. 209-88.
- Gates, Thomas S., to National Broach & Machine Co. Shaving cutter. 2,909,831. 10-27-59, Cl. 29-103.
- Gates, Thomas S., and R. M. Williams, to National Broach & Machine Co. Gear finishing. 2,906,177. 9-29-59, Cl. 90-1.
- Gates, Thomas S., A. B. Bassoff, and K. J. Davis, to National Broach & Machine Co. Machine for shaving herringbone gears. 2,873,652. 2-17-59, Cl. 90-1.6.
- Gates, Victor O. Storage key finders. 2,915,099. 12-1-59, Cl. 150-40.
- Gateway Corp.: *See*—  
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- Gateway Engineering Co.: *See*—  
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- Gathman, Albert: *See*—  
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- Gathmann, Mark H., to United States Steel Corp. Ingot mold. 2,871,532, 2-3-59, Cl. 22-139.
- Gattiker, Albert F., Jr., and H. C. Reynolds, to Ingersoll-Rand Co. Spring stressing device. 2,893,719, 7-7-59, Cl. 267-1.
- Gattiker, David C. G., S. C. Liang, and J. G. D. Schulz, to Dominion Tar & Chemical Co. Ltd. Production of vinyl chloride from ethylene dichloride. 2,877,277, 3-10-59, Cl. 260-656.
- Gattone, Daniel H.: *See*—  
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- Gatward, Harry F. Box-like cartons. 2,916,195, 12-8-59, Cl. 229-52.
- Gatwood, Edward H., to Vickers Inc. Power transmission. 2,910,831, 11-3-59, Cl. 60-52.
- Gatzert, Ernest H.: *See*—  
Pharis, William W., and Gatzert. 2,895,011.
- Gatzert, Ernest H., to General Dynamics Corp. Code call circuits. 2,880,277, 3-31-59, Cl. 179-18.
- Gatzert, Ernest H., to General Dynamics Corp. Trunk circuit. 2,885,479, 5-5-59, Cl. 179-631.
- Gatzert, Ernest H., to General Dynamics Corp. Paging system. 2,889,411, 6-2-59, Cl. 179-18.
- Gatzert, Ernest H., to General Dynamics Corp. Line adapter circuit for special telephone service. 2,892,038, 6-23-59, Cl. 179-27.
- Gatzert, Ernest H., to General Dynamics Corp. Trunk switching circuit. 2,897,284, 7-28-59, Cl. 179-27.
- Gatzert, Ernest H., to General Dynamics Corp. Dial system. 2,900,450, 8-18-59, Cl. 179-16.
- Gatzert, Ernest H., to General Dynamics Corp. Restricted service telephone system. 2,916,555, 12-8-59, Cl. 179-18.
- Gatzert, Ernest H., and W. W. Pharis, to General Dynamics Corp. Coin control telephone system. 2,897,272, 7-28-59, Cl. 179-63.
- Gatzert, Ernest H., and W. W. Pharis, to General Dynamics Corp. Concentrator for telephone answering service. 2,908,765, 10-13-59, Cl. 179-27.
- Gatzert, Ernest H., W. W. Pharis, and R. P. Boyer, Jr., to General Dynamics Corp. Broadcast paging system. 2,913,533, 11-17-59, Cl. 179-18.
- Gätzl, Karl, and P. Müller, to J. R. Geigy, A.-G. New di-thiophosphoric acid esters and their use for the control of mites. 2,891,984, 6-23-59, Cl. 260-461.
- Gaubatz, Arthur W., to General Motors Corp. Heated pressure probe. 2,870,632, 1-27-59, Cl. 73-212.
- Gaubatz, Arthur W., to General Motors Corp. Servomotor with floating control linkage. 2,871,829, 2-3-59, Cl. 121-41.
- Gaubatz, Arthur W., to General Motors Corp. Compressor air bleed-off. 2,874,926, 2-24-59, Cl. 251-61.
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- Gailliot, Paul, and Gaudechon. 2,892,839.
- Gaudreau, Richard J., to Production Tool Die Co., Inc. Apparatus for discharging successive articles from a stack thereof. 2,869,755, 1-20-59, Cl. 221-93.
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- Gauger, Fred W.: *See*—  
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- Gauger, Roy C., to Consolidated Electrodynamics Corp. Gas measuring apparatus. 2,882,429, 4-14-59, Cl. 313-7.
- Gauggel, Herman J., Jr.: *See*—  
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- Gaughran, Eugene R. L.: *See*—  
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- Gaugler, Richard S., to General Motors Corp. Shaft bearing. 2,887,346, 5-19-59, Cl. 308-238.
- Gaul, Edward M.: *See*—  
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- Gauld, George M. Pedal extensions for velocipedes. 2,916-299, 12-8-59, Cl. 280-259.
- Gauld, John E. A., to Sir W. G. Armstrong. Electrical junction boxes. 2,906,985, 9-29-59, Cl. 339-18.
- Gaumer, Glenn E., to The Dow Chemical Co. Production of benzonitrile. 2,872,475, 2-3-59, Cl. 260-465.
- Gaunt, Thomas N., to Switzer Brothers, Inc. Fluorescent composition. 2,895,917, 7-21-59, Cl. 252-301.2.
- Gause, Emily M.: *See*—  
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- Gausewitz, Richard L.: *See*—  
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- Johnson, Philip A. 2,904,151.
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- Gauthé, René. Device for the combustion of solid fuels. 2,894,464, 7-14-59, Cl. 110-44.
- Gauthier, Alfred, G.m.b.H.: *See*—  
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- Gauthier, Jean J., to Picturepak, Inc. Paper pictures and process of creating same. 2,881,546, 4-14-59, Cl. 41-34.
- Gauthier, Philippe, to Blaisdell Pencil Co. Paper sheathed pencils. 2,876,739, 3-10-59, Cl. 120-36.
- Gauthier, Raymond P., and P. R. Arcemont. Portable beveling machine. 2,900,858, 8-25-59, Cl. 82-4.
- Gauthier, Raymond V. Adjustable weather-stripped door jamb. 2,893,070, 7-7-59, Cl. 20-11.
- Gauthier, Robert, to Allen B. Du Mont Laboratories, Inc. Method of treating phototubes. 2,877,078, 3-10-59, Cl. 316-9.
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- Gavasso, Louis J., to Burroughs Corp. Carriage control apparatus. 2,881,895, 4-14-59, Cl. 197-77.
- Gavazzi, Manlio. Circular machine for the pressing of metallic sheet elements. 2,895,443, 7-21-59, Cl. 113-1.
- Gavelek, Jules W. Body exercising device. 2,874,689, 2-24-59, Cl. 128-33.
- Gavrin, Bernard. Double edge safety razor with ball bearing clamping means. 2,871,561, 2-3-59, Cl. 30-65.
- Gavrun, Andrew G., Sr. Level holder. 2,915,273, 12-1-59, Cl. 248-229.
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- Gayler, George A., to Wipac Development Ltd. Permanent magnet alternators. 2,892,109, 6-23-59, Cl. 310-153.
- Gaylord, James K., and L. E. Thatcher, to Gaylord Products, Inc. Wheel structures. 2,870,879, 1-27-59, Cl. 188-264.
- Gaylord, James K., to Gaylord Products, Inc. Cooling means for brake drums. 2,896,749, 7-28-59, Cl. 188-264.
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- Gaylord, John A., to H. Koch & Sons. Snap fastener for straps and the like. 2,895,200, 7-21-59, Cl. 24-230.
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- Geimer, Cornelius J., to Freeman Mfg. Co. Maternity garment. 2,878,812, 3-24-59, Cl. 128-542.
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- Geiser, John D., to Interlake Iron Corp. Seal for blast furnace hoppers. 2,872,054, 2-3-59, Cl. 214-37.
- Geiser, Nikolaus: *See*—  
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- Geisler, Helmut J., and D. R. Young, to International Business Machines Corp. Multi-phanotron switching tube. 2,897,402, 7-28-59, Cl. 315-84.6.
- Geisler, Henry A., and K. R. Prentiss, to Stewart-Warner Corp. Freeze prevention in jet aircraft purge gas generators. 2,876,069, 3-3-59, Cl. 23-181.
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- Geisler, Wilson S., Jr. Electron discharge device. 2,873,403, 2-10-59, Cl. 315-5.21.
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- Geist, William J., to Continental Can Co., Inc. Upper end structure for fiber drums. 2,899,118, 8-11-59, Cl. 229-5.7.
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- Geiszler, Albert R.: *See*—  
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- Geitner, Rudolph, to Creative Metals Corp. Can filler. 2,893,445, 7-7-59, Cl. 141-294.
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- Gelinas, Francis J. Ice fishing device. 2,887,813, 5-26-59, Cl. 43-17.
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- Geller, Henry C., and B. M. Sturgis, to E. I. du Pont de Nemours and Co. Cracked fuel oils stabilized with amine salts of dithiocarbamic acids. 2,912,314, 11-10-59, Cl. 44-72.
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- Geller, Thomas L., to West Bend Aluminum Co. Immersion heaters. 2,907,860, 10-6-59, Cl. 219-41.
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- Gellett, Charles A., and P. S. Macgregor, to Flight Refueling Inc. Pipe-coupling devices. 2,904,351, 9-15-59, Cl. 284-19.
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- Gelman, Charles, 1/2 to Resources Research, Inc. Process for detection and determination of fluid mixture components. 2,880,071, 3-31-59, Cl. 23-230.
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- Gelsavage, John Z. Building structure. 2,918,992, 12-29-59, Cl. 189-2.
- Gelzer, John R., to Oak Mfg. Co. Electrical switch. 2,870,275, 1-20-59, Cl. 200-11.
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Adams, Charles J. 2,916,721.  
 Adams, Crawford M. 2,870,858.  
 Agens, Maynard C. 2,905,650.  
 Ahlburg, Hayo, and Wessel. 2,897,039.  
 Akeley, Lloyd T. 2,917,636.  
 Akeley, Lloyd T. 2,917,637.  
 Albrecht, Warren E. 2,868,003.  
 Albright, Harry E. 2,879,128.  
 Alger, Philip L. 2,894,190.  
 Allen, Robert K. 2,890,970.  
 Alot, Anthony J. 2,908,793.  
 Altes, Stephen K. 2,883,450.  
 Altes, Stephen K. 2,891,152.  
 Anderson, Richard E. 2,882,855.  
 Anderson, Robert M. 2,904,746.  
 Andrews, John L. 2,899,664.  
 Ashby, Bruce A. 2,888,478.  
 Atchison, Leonard W. 2,869,334.  
 Atchison, Leonard W. 2,878,657.  
 Atchison, Leonard W. 2,896,422.  
 Avery, Howard W. 2,903,281.  
 Axelson, John S. 2,896,100.

## General Electric Co.: See—Continued

Backus, Keith A., and Somers. 2,912,481.  
 Baker, Jack M. 2,911,789.  
 Bakke, Hans A., and Treitel. 2,895,637.  
 Baldwin, George C. 2,902,604.  
 Baldwin, George C., Gaertner, and Yeater. 2,902,613.  
 Ballard, Robert G. 2,914,943.  
 Ballard, Robert G. 2,914,944.  
 Bayley, Charles D. 2,913,637.  
 Beatty, John W. 2,911,492.  
 Beaubien, William H. 2,901,659.  
 Bebinger, Jack E. 2,877,955.  
 Beckwith, Robert W. 2,871,463.  
 Bedford, Burnice D., and Kuenning. 2,889,511.  
 Beeninga, Dale E., and Matz. 2,904,710.  
 Beggs, James E. 2,868,610.  
 Beggs, James E. 2,875,367.  
 Beggs, James E. 2,892,120.  
 Bell, Locklin S. 2,885,582.  
 Bellamy, Winthrop D. 2,867,571.  
 Benander, George B. 2,869,093.  
 Benander, George B. 2,869,101.  
 Benander, George B. 2,891,663.  
 Benander, George B. 2,892,174.  
 Benander, George B., and Sheldon. 2,900,466.  
 Benson, John A., and Crosby. 2,874,536.  
 Berger, Harold, and Jacobs. 2,886,726.  
 Bergquist, Carl H. 2,891,750.  
 Berridge, Charles A. 2,875,163.  
 Berry, Theodore M. 2,871,459.  
 Beymer, Oliver H. 2,918,639.  
 Bialous, Adolf J., and Astley. 2,883,995.  
 Bigelow, John E. 2,915,630.  
 Bigelow, John E. 2,916,702.  
 Billings, Theodore E., Keshler, and Wainwright. 2,902,674.  
 Binford, Robert S. 2,889,780.  
 Bischoff, Alfred F. 2,887,580.  
 Bloomberg, David J. 2,894,318.  
 Bloomberg, David J. 2,913,872.  
 Bloomberg, David J. 2,914,296.  
 Bluestein, Ben A. 2,875,177.  
 Bluestein, Ben A. 2,887,501.  
 Bluestein, Ben A. 2,887,502.  
 Bluestein, Ben A. 2,900,363.  
 Bochan, John. 2,869,344.  
 Bochan, John. 2,869,699.  
 Bochan, John. 2,883,843.  
 Bochan, John. 2,888,531.  
 Bochan, John. 2,904,895.  
 Bochan, John. 2,904,982.  
 Bochan, John. 2,905,324.  
 Bochan, John. 2,908,285.  
 Bochan, John. 2,911,731.  
 Boldebeck, Edith M. 2,901,460.  
 Bolmeyer, Kenneth A. 2,910,577.  
 Bondley, Ralph J. 2,881,401.  
 Bondley, Ralph J. 2,910,614.  
 Bondley, Ralph J., and Knoll. 2,888,406.  
 Bondley, Ralph J., and Teare. 2,900,541.  
 Bonin, Richard E., and Townsend. 2,889,420.  
 Borie, Henry P., Jr. 2,895,564.  
 Bowden, George W. 2,869,700.  
 Boyd, Godfrey M. 2,868,163.  
 Boynton, Erwin R. 2,911,709.  
 Bradstock, Robert B., and Zelina. 2,915,707.  
 Bramhall, George H. 2,870,843.  
 Bramhall, George H. 2,881,466.  
 Brennan, Daniel H. 2,904,817.  
 Brennan, Daniel H., and Hunter. 2,892,203.  
 Brannan, Jack C. 2,875,391.  
 Brannan, Jack C. 2,907,936.  
 Briggs, Walton E., and Roberts. 2,897,437.  
 Brooks, Wesley W., Dochterman, and Henderson. 2,882,506.  
 Brooks, Wesley W., and Strecker. 2,869,037.  
 Broglio, Edward P. 2,900,432.  
 Brown, Arthur E. 2,918,827.  
 Brown, Bernard E. 2,867,107.  
 Brown, Donald V. 2,905,562.  
 Bueche, Arthur M. 2,914,502.  
 Ruechler, William R. 2,873,599.  
 Buechler, William R. 2,896,436.  
 Buechler, William R. 2,899,814.  
 Burch, James R., and Lee. 2,882,457.  
 Burkhard, Charles A. 2,894,934.  
 Burkhard, Charles A. 2,902,382.  
 Burkhard, Charles A. 2,902,469.  
 Burkhard, Charles A. 2,902,475.  
 Burkhard, Charles A., and Brown. 2,867,669.  
 Burton, Lester W., and Thurell. 2,883,592.  
 Butterfield, John L., and Renner. 2,910,846.  
 Cabaniss, Edward H. 2,875,400.  
 Cahill, Allen E., and McConnell. 2,874,072.  
 Calderwood, Gene C. 2,916,403.  
 Camilli, Guglielmo, Galloway, and Tuttle. 2,879,488.  
 Canada, Alfred H. 2,892,378.  
 Candell, Earl B. 2,883,047.  
 Caprino, Joseph C. 2,875,172.  
 Carew, Arthur W. 2,899,804.  
 Carleton, Granville E., Harrison, Heitman, and Dantowitz. 2,894,521.  
 Carpenter, Thomas J., and Olsen. 2,890,389.  
 Case, George L. 2,909,689.



## General Electric Co.: See—Continued

Casey, Robert T. 2,910,629.  
 Chamberlain, Harvey H. 2,914,712.  
 Chapman, Charles W. 2,888,129.  
 Chin, Allan, Woolley, and Warren. 2,916,397.  
 Chow, Woo F. 2,898,411.  
 Chow, Woo F., and Paynter. 2,878,386.  
 Clapp, Charles W. 2,869,074.  
 Clark, Albert G. 2,900,485.  
 Clark, David L. 2,911,811.  
 Clark, Earl W. 2,897,447.  
 Clark, Earl W. 2,907,951.  
 Clark, Earl W., and Albright. 2,915,360.  
 Clark, Edward B. 2,891,755.  
 Clark, Edward B. 2,900,101.  
 Clark, Joseph H., Jr. 2,883,635.  
 Clark, Weimond D. 2,894,120.  
 Cleveland, Donald S. 2,914,945.  
 Cobine, James D. 2,867,679.  
 Coghill, Henry D. 2,879,184.  
 Coghill, Henry D., and Koller. 2,867,541.  
 Cole, Quinton P. 2,912,410.  
 Collins, Clifford B. 2,871,330.  
 Columbe, Maynard J. 2,890,342.  
 Condit, Robert E. 2,892,209.  
 Conkling, Donald R., and Stoddard. 2,885,789.  
 Conlee, George D. 2,869,698.  
 Copeland, William M., and Mazzacane. 2,904,317.  
 Cook, Leonard W., and Passarelli. 2,916,589.  
 Cooper, James M., and Bartholomew. 2,890,844.  
 Cormia, Keith C. 2,907,367.  
 Costas, John P. 2,868,981.  
 Cox, Bonnar, and Goldberg. 2,904,777.  
 Cox, Bonnar, and Goldberg. 2,913,705.  
 Cox, Bonnar, and Goldberg. 2,918,662.  
 Cox, Bonnar, Goldberg, and Kautz. 2,871,289.  
 Cressman, George W. 2,918,595.  
 Cridland, John E. 2,899,671.  
 Cronin, Edward F. 2,916,723.  
 Crotty, Harold F., and Scamman. 2,894,146.  
 Crouch, Donald W. 2,892,911.  
 Cummin, Alfred S., and Hutzler. 2,872,630.  
 Cummings, Harold R. 2,890,358.  
 Cunningham, Eldon R. 2,905,411.  
 Curtis, Truman P., and Brunswick. 2,869,086.  
 Cusano, Dominic A. 2,887,401.  
 Cusano, Dominic A. 2,909,692.  
 Cusano, Dominic A., and Studer. 2,918,670.  
 Damon, Richard W. 2,898,490.  
 Damon, Richard W., and Eshbach. 2,888,370.  
 Dannevig, Tord. 2,882,831.  
 Darrow, Kenneth A. 2,915,774.  
 Davey, Peter E. 2,907,515.  
 Davidson, William E. 2,890,761.  
 Davis, David R. 2,894,768.  
 Davis, Paul B. 2,913,615.  
 De Monterey, Francis G. A. 2,874,135.  
 De Mott, Alfred E. 2,870,701.  
 Denham, William L. 2,897,463.  
 Denton, Bryce A. 2,914,646.  
 Depuy, Robert P. 2,902,664.  
 De Santis, Vincent J., and Shluka. 2,879,429.  
 Devendorf, Alan E. 2,901,615.  
 Dewey, Clyde G. 2,902,625.  
 Dexter, Edwin M. 2,880,335.  
 Dichter, Channing. 2,888,588.  
 Dicken, John A., Jr. 2,888,283.  
 Didszuns, Fritz. 2,897,931.  
 Didszuns, Fritz. 2,903,109.  
 Dieffenbacher, George W., and Meykar. 2,885,999.  
 Diehl, Max H. 2,874,217.  
 Dierstein, Roy H. 2,907,966.  
 Dierstein, Roy H., and Henderson. 2,878,301.  
 Dome, Robert B. 2,871,357.  
 Dome, Robert B. 2,874,291.  
 Dome, Robert B. 2,880,269.  
 Dome, Robert B. 2,880,315.  
 Dome, Robert B. 2,909,593.  
 Donaldson, Warren J., and Jacobs. 2,873,411.  
 Downie, John W., and Tirrell. 2,913,684.  
 Duane, James T. 2,874,441.  
 Dubberley, Charles A. 2,909,719.  
 Dunham, Stuart B. 2,887,227.  
 Dunn, George B., Jr. 2,905,840.  
 Dutcher, John L. 2,887,639.  
 Edwards, Robert A. 2,900,500.  
 Eggenberger, Markus A. 2,888,023.  
 Eichelberger, Charles D. 2,892,014.  
 Eichelberger, Charles D., and Lester. 2,885,502.  
 Eichelberger, Charles D., and Lester. 2,904,620.  
 Eichelberger, Charles D., and Reed. 2,914,627.  
 Elliott, James F., and Halsted. 2,904,696.  
 Engel, Jan M. 2,907,934.  
 Erzer, John K. 2,907,282.  
 Eshbach, John R. 2,914,696.  
 Esher, Joseph R., Jr. 2,892,590.  
 Euler, George M., and Grimshaw. 2,877,317.  
 Evans, Howard J. 2,913,613.  
 Evans, Howard J. 2,914,691.  
 Farnon, Robert B., and Rose. 2,869,185.  
 Faus, Harold T. 2,908,867.  
 Favre, John A. 2,895,033.  
 Felertag, Karl M., and Stephenson. 2,872,001.  
 Field, Boris. 2,880,319.

## General Electric Co.: See—Continued

Finch, Thomas E. 2,897,335.  
 Fink, Lyman R., and Peterson. 2,884,626.  
 Finlayson, Frank E. 2,901,584.  
 Finlayson, Frank E., Swenson, Herman, Logg, and Denton. 2,892,272.  
 Fisher, Alec. 2,881,339.  
 Fisher, Lawrence E. 2,906,811.  
 Fitz, Elmore J. 2,875,113.  
 Fitz, Elmore J. 2,913,361.  
 Fitzgerald, Albert J. 2,889,592.  
 Fitzgerald, Albert J. 2,896,275.  
 Fitzgerald, Albert J. 2,897,620.  
 Fitzgerald, Albert J. 2,897,927.  
 Fitzmorris, Stanley R. 2,901,709.  
 Flaws, John, Jr., and Dilts. 2,880,347.  
 Fleming, William J. 2,905,796.  
 Flowers, Joseph K. 2,876,139.  
 Flowers, Ralph G. 2,899,399.  
 Foley, Thomas P. 2,867,467.  
 Foley, Thomas P. 2,877,041.  
 Foote, William R. 2,869,324.  
 Foote, Harold B., and Manning. 2,896,053.  
 Forker, Gordon M., and Ogrine. 2,901,387.  
 Foster, Harold S., Bosch, and Warner. 2,903,112.  
 Foulds, John P. 2,901,594.  
 Francis, Wallace R. 2,868,936.  
 Francis, Wallace R. 2,869,094.  
 Francis, Wallace R. 2,902,535.  
 Franklin, Sandford G. 2,911,881.  
 Frederick, Oscar C. 2,876,312.  
 Freestone, Harry T. 2,913,624.  
 Fridrich, Elmer G. 2,901,652.  
 Fridrich, Elmer G. 2,904,457.  
 Fridrich, Elmer G. 2,918,594.  
 Fridrich, Elmer G., and Wiley. 2,883,571.  
 Fuchs, Irvin J. 2,878,579.  
 Fulton, John W., and Kuebler. 2,892,440.  
 Fulton, John W., and Kuebler. 2,918,644.  
 Gaines, George L., Jr. 2,914,107.  
 Gaines, George L., Jr. 2,914,426.  
 Gardiner, Emmett G. 2,905,510.  
 Gardiner, Paul C. 2,906,921.  
 Gardner, George F. 2,880,402.  
 Garrett, Donald E., and Freestone. 2,898,510.  
 Gentile, Richard W. 2,912,156.  
 Genuit, Luther L. 2,892,142.  
 Genuit, Luther L. 2,894,195.  
 Genuit, Luther L. 2,916,685.  
 George, Philip D., and Zemany. 2,913,471.  
 Gerrish, Cecil B. 2,876,394.  
 Gerry, Otto F. 2,886,205.  
 Gibson, Van R., Jr. 2,884,611.  
 Gilbert, Alfred R. 2,867,606.  
 Gilbert, Alfred R., and Kantor. 2,891,980.  
 Gilbert, Alfred R., and Cooper. 2,902,506.  
 Gitzendanner, Louis G. 2,893,635.  
 Glasbrenner, Frederick K., and Lyons. 2,897,672.  
 Glassanos, Andrew. 2,873,432.  
 Gleason, Joseph P. 2,886,810.  
 Gleichauf, Paul H. 2,907,915.  
 Glenn, William E. 2,867,687.  
 Glenn, William E. 2,910,545.  
 Glenn, William E., Jr. 2,919,302.  
 Godbarsen, Robert, Jr. 2,909,666.  
 Godwin, Charles J., Hurowitz, Kaplan, Siegel, and Zebley. 2,896,314.  
 Goetz, Ernest F. 2,889,014.  
 Goff, Leon E., Jr. 2,902,626.  
 Goldberg, Jacob, and Cox. 2,867,791.  
 Goldberg, Jacob, and Cox. 2,874,633.  
 Goldberg, Jacob, and Cox. 2,913,707.  
 Goldman, Richard G. 2,909,658.  
 Goldner, Ronald B., and Suran. 2,889,542.  
 Goliber, Edward W. 2,872,725.  
 Goliber, Edward W. 2,872,726.  
 Goliber, Edward W. 2,873,198.  
 Goodale, Edmund E. 2,897,445.  
 Goss, Wyman, and Andrews. 2,892,342.  
 Gough, Alfred B., and Weiler. 2,913,570.  
 Graham, Donald C. 2,912,660.  
 Grams, William R. 2,900,281.  
 Granan, John R., and Christensen. 2,877,968.  
 Grandey, Max F. 2,917,384.  
 Graser, Michael, Jr. 2,884,522.  
 Grattidge, Walter. 2,914,640.  
 Gray, Walter E., Jr. 2,880,521.  
 Gray, Walter E., Jr., and Falkenstein. 2,873,537.  
 Gray, Walter E., Jr., and Larkin. 2,869,347.  
 Gray, Walter E., Jr. 2,892,334.  
 Gray, Walter E., Jr. 2,892,335.  
 Greenwood, Allan, Lee, and Schneider. 2,892,912.  
 Grenier, George H. 2,883,480.  
 Grimshaw, Charles S. 2,899,801.  
 Grinerich, Joseph J. 2,875,344.  
 Grovemiller, Dale A., and Kastelle. 2,892,992.  
 Grubb, Willard T., Jr. 2,913,511.  
 Guard, Ray W., and Clemm. 2,905,553.  
 Gustafson, Ralph W., and Hummel. 2,878,344.  
 Guth, Charles H., and Wilson. 2,911,551.  
 Hahn, Donald E. 2,919,336.  
 Hale, Fred H., and Page. 2,873,090.  
 Hall, Robert N. 2,918,396.  
 Hallbauer, Dankmar. 2,879,476.



## General Electric Co.: See—Continued

Halsted, Richard E. 2,904,697.  
 Hamilton, James. 2,881,940.  
 Hammerly, Herman J. 2,897,410.  
 Hammerly, Herman J. 2,905,923.  
 Hammerly, Herman J. 2,910,630.  
 Hammerly, Herman J. 2,911,179.  
 Hammesfahr, Frederic W., and Hatch. 2,914,450.  
 Hansen, Carl W., and Kozlow. 2,901,631.  
 Harbison, George C. 2,889,593.  
 Hargrove, Frank L., and Grobel. 2,879,092.  
 Harle, Harold P. 2,912,836.  
 Harries, John H. O. 2,883,576.  
 Heintz, Milton L. 2,905,787.  
 Henderson, Wayne L. 2,902,661.  
 Henderson, Wayne L. R. 2,889,523.  
 Hermann, Benjamin R. 2,883,448.  
 Herrick, Carlyle S. 2,867,094.  
 Herrick, Carlyle S. 2,916,593.  
 Hickey, John S., Jr. 2,888,584.  
 Hilton, Harry H., and Torrisi. 2,871,426.  
 Hobbs, George W., and Levine. 2,907,525.  
 Hodges, Merwyn E. 2,873,410.  
 Hodges, Merwyn E. 2,897,413.  
 Hodges, Merwyn E., and Koss. 2,879,453.  
 Hodges, Merwyn E., Koss, and Seeley. 2,879,454.  
 Hodge, William F. 2,910,605.  
 Rodgers, Robert W., Harriott, and Ogle. 2,907,938.  
 Hoffman, Herbert N., and Brickett. 2,867,999.  
 Hoft, Richard G., and Philippi. 2,888,645.  
 Holcomb, James E. 2,890,410.  
 Holdstock, Norman G. 2,887,503.  
 Hori, Tatsu. 2,867,438.  
 Horn, Fordyce H. 2,904,512.  
 Horvay, Julius B. 2,895,780.  
 Houser, Philip H. 2,882,707.  
 Howe, Conrad L., and Polster. 2,888,587.  
 Howe, Goodwin H. 2,891,883.  
 Howell, Edward K. 2,896,169.  
 Howell, Edward K. 2,913,549.  
 Hudson, James E. 2,908,855.  
 Hughes, Philip G. 2,878,580.  
 Hughes, Philip G. 2,882,610.  
 Hull, Thomas N., Jr. 2,912,223.  
 Hurd, Dallas T. 2,878,195.  
 Hurd, Dallas T., and Finholt. 2,884,161.  
 Hurd, Dallas T., and Osthoff. 2,867,599.  
 Hurley, Daniel T. 2,912,575.  
 Hussey, Norman R. 2,896,413.  
 Hutchins, Dwight C. 2,913,230.  
 Hutzler, John R., and Pease. 2,890,396.  
 Ipsen, Peter G., and Clark. 2,902,831.  
 Ipsen, Peter G., and Cotton. 2,888,094.  
 Jackson, James M. 2,897,432.  
 Jacobs, John E. 2,898,525.  
 Jacobs, John E. 2,901,633.  
 Jacobs, John E. 2,909,669.  
 Jacobs, John E., and Berger. 2,889,188.  
 Jacobs, John E., and Berger. 2,890,360.  
 Jacobs, John E., and Howell. 2,907,883.  
 Janos, Alfred G. 2,914,819.  
 Jarvinen, Willard B. 2,890,398.  
 Jennings, Gresham N. 2,883,564.  
 Jennings, Gresham N. 2,887,862.  
 Jennings, Gresham N. 2,896,707.  
 Jennings, Gresham N. 2,912,532.  
 Johnston, Donald L., Derr, and Wooldridge. 2,912,480.  
 Jones, Dwight V. 2,887,658.  
 Jones, Samuel P. 2,897,386.  
 Jones, Shannon. 2,905,572.  
 Jordan, Paul B., and Anthony. 2,910,611.  
 Jordan, Samuel C. 2,883,506.  
 Jordan, Samuel C. 2,900,480.  
 Judd, Edwin B. 2,885,513.  
 Kaeding, Hugo C. 2,873,684.  
 Kalikow, Irving, and Labastie. 2,874,440.  
 Kamide, Harris P. 2,895,828.  
 Kantor, Simon W., and Gilbert. 2,883,366.  
 Kauffman, Melvin R., and Dicken. 2,896,641.  
 Kautz, William H. 2,909,768.  
 Kelley, Fred W., Jr. 2,870,397.  
 Kelley, Fred W., Jr. 2,886,769.  
 Kelling, Leroy U. C. 2,870,386.  
 Kelling, Leroy U. C. 2,905,874.  
 Kellogg, Harry L. 2,911,582.  
 Kemnitz, Warren N. 2,914,333.  
 Kemnitz, Warren N. 2,918,314.  
 Kenney, John T., and Gamarekian. 2,873,577.  
 Keonjian, Edward. 2,876,297.  
 Klesel, George W., and Wegh. 2,908,782.  
 Kindl, Fred H. 2,912,962.  
 King, Burnham W., and Kelly. 2,879,185.  
 King, Ralph E. 2,876,632.  
 King, Ralph E. 2,876,633.  
 Kirk, Norman. 2,883,272.  
 Kirschke, Norman W. 2,912,559.  
 Kirscht, Arthur A., and Krivanek. 2,889,485.  
 Kizaur, Arthur J. 2,885,557.  
 Kizaur, Arthur J. 2,898,471.  
 Kizaur, Arthur J. 2,901,302.  
 Kizaur, Arthur J., and Mueller. 2,890,346.  
 Kleczek, Walter S. 2,882,924.  
 Klein, Keith W. 2,890,300.  
 Klint, Robert V. 2,916,258.

## General Electric Co.: See—Continued

Klint, Robert V., and Nerad. 2,913,221.  
 Knain, Wendell M. 2,868,162.  
 Koenig, Paul W. 2,876,399.  
 Korol, Peter, and Vochrie. 2,884,283.  
 Kosfeld, Milton M. 2,883,101.  
 Kosfeld, Milton M. 2,904,971.  
 Kosfeld, Milton M. 2,904,973.  
 Kotsch, William E., and Ackerman. 2,901,667.  
 Krantz, Karl W. 2,887,467.  
 Krantz, Karl W. 2,916,461.  
 Krauss, Paul. 2,906,808.  
 Krone, Raymond E. 2,867,112.  
 Krupp, Anton M. 2,918,645.  
 Krystyan, Karol J., Lauritsen, and Voorhees. 2,914,705.  
 Kubler, Ernest F. 2,887,648.  
 Kubler, Ernest F. 2,899,629.  
 Kuebler, Robert A. 2,892,923.  
 Kuhn, Donald H. 2,901,745.  
 Kurowski, Victor J. 2,889,693.  
 Kurtz, Donald R. 2,874,242.  
 Labastie, Albert H. 2,894,155.  
 Lafferty, James M. 2,884,550.  
 Lafferty, James M. 2,887,614.  
 Lafferty, James M. 2,888,592.  
 Lafferty, James M. 2,888,603.  
 La Fuze, David L. 2,892,141.  
 Lamberton, Clifford J., Christensen, and Keating. 2,878,455.  
 Lamberton, Clifford J. 2,909,742.  
 Landuyt, John F., and Simmons. 2,883,599.  
 Larrison, John E. 2,914,716.  
 Lasher, Hiram S., Jr. 2,877,383.  
 Latter, Bruce B. 2,895,306.  
 Latter, Bruce B., and Bodong. 2,895,781.  
 Lavoo, Norman T., and Kyhl. 2,867,696.  
 Lawton, Elliott J. 2,906,679.  
 Lawton, Elliott J., and Bueche. 2,906,678.  
 Lawton, Elliott J., and Grubb. 2,904,481.  
 Lawson, Gerald W. 2,912,823.  
 Leeds, Laurance M. 2,912,651.  
 Leete, Bernard D. 2,916,690.  
 Lemmerman, Harold H. P., and Crocker. 2,898,434.  
 Lemmers, Eugene. 2,904,715.  
 Lemmers, Eugene. 2,915,664.  
 Lemmers, Eugene, Shaw, and Salo. 2,916,645.  
 Lenz, Charles E. 2,872,571.  
 Lenz, Charles E. 2,885,669.  
 Lesk, Israel A. 2,901,554.  
 Lester, William N., and Shaw. 2,914,635.  
 Letteron, Henry A. 2,868,269.  
 Levand, Victor A. 2,900,771.  
 Levand, Victor A. 2,917,870.  
 Levand, Victor A., and Wiley. 2,868,609.  
 Lewis, Walter E. 2,870,317.  
 Lewis, Walter E., and Jordan. 2,883,507.  
 Liao, Tseng W., and Nichols. 2,912,382.  
 Lichtenfels, Ira W. 2,913,650.  
 Lichtenstein, Roland M. 2,874,304.  
 Lichtenstein, Roland M. 2,903,591.  
 Liebhafsky, Herman A. 2,882,329.  
 Lindsay, Elton A., and Dobras. 2,901,655.  
 Lindsay, Elton A., and Phillips. 2,901,648.  
 Lit, Harry B., and Anderson. 2,868,159.  
 Lit, Harry B., and Anderson. 2,875,725.  
 Loeffler, John R. 2,875,393.  
 Loeffler, John R. 2,898,480.  
 Logan, Stanley E. 2,900,199.  
 Longenecker, Daniel M., and Chamberlain. 2,897,412.  
 Lord, Harold W. 2,871,412.  
 Lord, Harold W. 2,888,641.  
 Loudon, Harry L. 2,883,072.  
 Lynch, Edward E. 2,881,326.  
 Mahn, George R. 2,914,692.  
 Mahon, William J., and Wilson. 2,879,740.  
 Malm, Robert N., and Vodicka. 2,904,716.  
 Manfredi, Robert E. 2,883,577.  
 Marinace, John C. 2,904,704.  
 Marinace, John C., and Cocco. 2,885,562.  
 Martiniak, Leonard J., and Bebinger. 2,867,224.  
 Martt, Ernest C., and Beeninga. 2,888,585.  
 Maslin, Thomas L., and Herman. 2,916,673.  
 Mathis, Vernon F., and Suran. 2,879,482.  
 Maude, William A. 2,903,321.  
 Maure, Douglas R., and Kettlety. 2,907,888.  
 Maxwell, Donald E. 2,883,528.  
 May, John E. 2,867,558.  
 May, John E. 2,867,559.  
 Mayo, Frank R. 2,879,276.  
 McCarty, Orin P., and Barr. 2,878,333.  
 McCoy, Robert L., and Kaminski. 2,899,484.  
 McElwain, Jay L. 2,890,426.  
 McEntee, Harry R. 2,887,500.  
 McFarland, Donald L. 2,898,437.  
 McGrew, Thomas A. 2,889,692.  
 McMillan, Stephen L. 2,899,802.  
 McMillan, Stephen L. 2,911,800.  
 McNaughton, James L. 2,905,201.  
 McQueen, Jack G. 2,871,471.  
 Mees, Robert D. 2,872,344.  
 Meese, George E. 2,910,576.  
 Mendelsohn, Lewis I., and Faus. 2,897,443.  
 Metzger, Matt F. 2,869,247.  
 Metzger, Matt F. 2,911,812.



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Mezzack, Joseph. 2,878,304.  
 Michaelis, Harold A. 2,912,557.  
 Millar, Norval P. 2,883,624.  
 Millar, Norval P., and Clark. 2,903,647.  
 Miller, Nicholas. 2,870,314.  
 Miller, Alexander A. 2,895,891.  
 Miller, Alexander A. 2,897,092.  
 Miller, Alexander A. 2,897,127.  
 Miller, David B. 2,898,492.  
 Miller, Nicholas. 2,889,432.  
 Miller, Alexander A., and Mayo. 2,911,436.  
 Millis, Walter T. 2,878,410.  
 Millis, Walter T. 2,887,607.  
 Millis, Walter T. 2,910,609.  
 Milne, James M. 2,873,519.  
 Milroy Philip R., and Voit. 2,909,184.  
 Mollenberg, Leroy. 2,896,144.  
 Moore, Raymond E. 2,892,974.  
 Morcerf, Francis J., Jr., and Maure. 2,869,068.  
 Morey, Everett D. 2,873,539.  
 Morgan, Raymond E., and Ogle. 2,897,293.  
 Morris, William C. 2,897,407.  
 Morrissey, William M., Jr., and Dahlgren. 2,889,901.  
 Morse, Francis. 2,917,922.  
 Mosher, Ralph S. 2,869,139.  
 Muth, Robert C., and Hegel. 2,869,939.  
 Myers, Robert L. 2,867,495.  
 Myracle, James L., and Rosenblatt. 2,885,613.  
 Nadeau, Herman A. 2,898,427.  
 Nason, Harold A. 2,876,498.  
 Nerad, Anthony J. 2,869,629.  
 Nerad, Anthony J., and Hurd. 2,894,830.  
 Nerad, Anthony J., and Johnson. 2,867,267.  
 Neumann, Gerhard. 2,873,088.  
 Newberry, Sterling P. 2,877,353.  
 Newell, James K., Jr. 2,913,573.  
 Nial, Walter R. 2,916,230.  
 Nichols, Frank S., and Smith. 2,879,323.  
 Noesen, Stanley J. 2,907,807.  
 Nolte, Henry J. 2,904,456.  
 Nonomaque, Clyde J. 2,895,307.  
 Nonomaque, Clyde J. 2,907,181.  
 Nottelmann, John F., and Lebenbaum. 2,916,177.  
 Novak, Richard A. 2,914,241.  
 Novak, Warren D. 2,878,873.  
 Ogle, Hugh M. 2,887,644.  
 Ogle, Hugh M. 2,913,596.  
 Ogle, Hugh M., and Deavers. 2,881,786.  
 Olashaw, William F. 2,882,513.  
 Olsen, Arthur A. 2,890,383.  
 Oppel, John A. 2,911,546.  
 Orlando, Vincent A. 2,914,863.  
 Osthoff, Robert C. 2,913,314.  
 Owens, Austin P. 2,883,515.  
 Page, Robert G. 2,868,864.  
 Paine, Joseph L. 2,915,359.  
 Paluev, Konstantin K. 2,912,658.  
 Parker, Fred T. 2,879,462.  
 Parks, Herman D. 2,893,636.  
 Patterson, Le Roy R., Jr. 2,867,035.  
 Patterson, Milton E., Luna, and Ishler. 2,901,375.  
 Pearson, Charles W. 2,877,375.  
 Pearson, Donald L., and Nelson. 2,870,586.  
 Peaslee, Lawrence R., and Rosenblatt. 2,894,253.  
 Pennoyer, Robert T. 2,913,102.  
 Perotte, Laurence F. 2,903,631.  
 Perotte, Laurence F. 2,903,632.  
 Peters, Philip H., Jr., and Wilbur. 2,886,786.  
 Peterson, Eric O., and Harvey. 2,878,841.  
 Petley, Joseph E. 2,899,614.  
 Philipp, Herbert R. 2,898,498.  
 Picozzi, Vincent J., Spooner, and Wall. 2,886,721.  
 Pileggi, Peter T. 2,885,581.  
 Pincus, Alexis G. 2,912,340.  
 Pinney, Harold E. 2,869,061.  
 Pistey, John M. 2,869,105.  
 Pistey, John M., and Strubel. 2,868,930.  
 Piteo, Benjamin A., Jr., and Powell. 2,912,544.  
 Piteo, Benjamin A., Jr., and Powell. 2,912,545.  
 Plunkett, Robert. 2,901,703.  
 Poellnitz, William A., and Klint. 2,916,257.  
 Polito, Anthony J. 2,878,392.  
 Pollock, Herbert C. 2,867,728.  
 Pomfrett, John M., and Jenne. 2,918,592.  
 Popa, John. 2,892,126.  
 Powell, Alric H. 2,886,663.  
 Powers, Cecilio C. 2,917,811.  
 Powers, James H. 2,873,908.  
 Powers, James H. 2,888,092.  
 Powers, James H. 2,908,147.  
 Powers, James H. 2,917,130.  
 Precopio, Frank M. 2,867,553.  
 Precopio, Frank M., and Gilbert. 2,888,424.  
 Pritchard, Robert L. 2,910,653.  
 Prober, Maurice. 2,913,472.  
 Pugsley, Donald W. 2,909,770.  
 Quinn, Joseph G. 2,889,058.  
 Raczyński, Walter J., and Worst. 2,873,598.  
 Raczyński, Walter J., and Worst. 2,900,080.  
 Radke, Donald F., Fagin, and Marks. 2,869,790.  
 Raley, Howard F. 2,887,785.  
 Re, Vito. 2,885,876.

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Redington, Rowland W. 2,879,419.  
 Refice, Alfred F. 2,904,289.  
 Reid, Eugene H. 2,887,618.  
 Reisch, George J. 2,891,133.  
 Rexford, Donald L. 2,878,785.  
 Reynolds, Donald K. Re. 24,641.  
 Reynolds, Donald K. 2,894,796.  
 Reynolds, Kenneth W. 2,887,905.  
 Reynolds, Kenneth W., and Terez. 2,904,192.  
 Rich, Harold. 2,897,446.  
 Rich, Joseph A. 2,888,600.  
 Rich, Joseph A. 2,894,170.  
 Rich, Theodore A. 2,868,968.  
 Rich, Theodore A. 2,884,088.  
 Ricketts, Robert E. 2,915,599.  
 Riddington, Frederick W., and Felts. 2,876,736.  
 Ridley, Oscar E., and Walsh. 2,915,281.  
 Robbie, Kenneth A. 2,867,095.  
 Robbins, Earl R. 2,877,410.  
 Roberts, Edward H. 2,907,183.  
 Roberts, Shepard. 2,902,545.  
 Robertson, Frederick W. 2,908,328.  
 Robinson, David, Mitchell, Johnson, and Samsel. 2,912,678.  
 Rocha, Henrique A. F. 2,870,380.  
 Rocha, Henrique A. F. 2,895,784.  
 Roché, Jean A. F., and Bookmyer. 2,881,827.  
 Rogers, Robert E. 2,913,292.  
 Rose, Lloyd R. 2,898,469.  
 Rose, Stanley E. 2,869,651.  
 Rose, Stanley E. 2,883,837.  
 Rose, Stanley E. 2,896,424.  
 Rosenberg, Joseph. 2,909,495.  
 Rosenblatt, Murray, and Rubenstein. 2,899,630.  
 Ross, John F., and Sloyer. 2,904,516.  
 Rossin, Peter C., Jr., and Noesen. 2,907,806.  
 Rowe, Raymond N. 2,885,652.  
 Rubenstein, Alan S. 2,914,680.  
 Ruetsch, Charles D. 2,914,258.  
 Saby, John S. 2,886,746.  
 Safford, Moyer M. 2,867,605.  
 Safford, Moyer M. 2,888,419.  
 Safford, Moyer M., and Myers. 2,867,603.  
 Salomone, Rynold A. 2,899,521.  
 Samsel, Richard W. 2,873,604.  
 Sargent, Donald E. 2,892,801.  
 Savage, Richard M. 2,891,033.  
 Savidge, Roland E. 2,888,345.  
 Savory, David B. 2,899,649.  
 Sawyer, Robert W. 2,916,594.  
 Sayre, Edwin D. 2,914,300.  
 Schaffer, Herman W., and Speicher. 2,894,239.  
 Schmall, Wilbur A. 2,912,922.  
 Schmall, Wilbur A., and Kropp. 2,913,563.  
 Schmidt, Stanley A., and Hardy. 2,880,380.  
 Schmitz, John V., and Lawton. 2,900,277.  
 Schneider, Harold N. 2,897,324.  
 Schoenoff, Waldemar P., and Vargo. 2,917,869.  
 Schroeder, George W. 2,889,800.  
 Schrom, Edward C. 2,901,693.  
 Schubert, Albert E. 2,867,099.  
 Schultz, Blanche R. 2,889,442.  
 Schultz, William J., and van Bennekom. 2,900,463.  
 Schulze, Wallace M. 2,893,242.  
 Schumacher, Frank A. 2,907,184.  
 Schwartz, Harry. 2,909,751.  
 Scott, Charles J., and Fertwee. 2,904,451.  
 Scuito, Thomas J. 2,874,216.  
 Scully, Thomas J. 2,908,787.  
 Seeley, Harold T. 2,896,127.  
 Seeley, Richard E. 2,882,002.  
 Shafer, John H. 2,892,808.  
 Shaffer, Paul B. 2,912,290.  
 Shaw Robert J., and Devendorf. 2,875,972.  
 Shea, Richard F. 2,889,416.  
 Sheahan, Robert E. 2,904,818.  
 Shelton, Winston L. 2,869,348.  
 Shelton, Winston L., and Jennings. 2,870,278.  
 Shepherd, Neal H. 2,899,639.  
 Shepherd, Neal H. 2,912,569.  
 Sherman, George R. 2,873,737.  
 Sills, Earl H. 2,899,616.  
 Simer, Samuel B. 2,876,591.  
 Simer, Samuel B. 2,876,597.  
 Simer, Samuel B. 2,904,162.  
 Simpson, Amos W., Jr. 2,901,579.  
 Skolfield, William K. 2,904,816.  
 Skyten, Robert. 2,894,132.  
 Slattey, John P., and Heimo. 2,896,886.  
 Slivka, Marion J. 2,879,432.  
 Smee, Peter G. 2,868,972.  
 Smee, Peter G., and Ker. 2,882,339.  
 Smith, Austin W., and Moneymaker. 2,892,567.  
 Smith, Russell M. 2,883,608.  
 Smith, Sidney R., Jr., and Charewicz. 2,890,313.  
 Snyder, Frank R. 2,912,554.  
 Soder, Robert C. 2,887,854.  
 Solheim, Karsten. 2,870,438.  
 Solheim, Karsten. 2,909,803.  
 Solley, Douglas A., Jr., and Robbie. 2,900,807.  
 Somers, William P., and Holt. 2,892,918.  
 Somes, Frederick J. Jr. 2,913,818.  
 Sonder, Gerhard. 2,915,280.



General Electric Co.: *See*—Continued

Spaller, Albert L. 2,887,825.  
 Spector, Marshall L., and Strang. 2,899,453.  
 Speicher, William. 2,899,005.  
 Spencer, Albert B. 2,890,192.  
 Speros, Dimitrios M. 2,871,196.  
 Spiegelhalter, William G. 2,911,899.  
 Spitzer, Charles F., and Rosen. 2,911,484.  
 Staak, Julius H. 2,874,309.  
 Staats, James E. 2,892,917.  
 Stafford, Linn T., and Bernadt. 2,896,311.  
 Steiner, Harry C. 2,906,902.  
 Stephens, Joe F. 2,907,912.  
 Stephenson, Donald H., and Jenny. 2,890,394.  
 Stern, Arthur P. 2,878,376.  
 Stern, Arthur P. 2,889,453.  
 Stern, Arthur P. 2,900,439.  
 Stern, Arthur P., and Raper. 2,882,350.  
 Stern, Hansjoerg. 2,879,467.  
 Sternlicht, Beno. 2,901,297.  
 Steven, Harry M., and Marshall. 2,884,497.  
 Stevens, Leland J. 2,918,520.  
 Stevens, Leland J. 2,899,482.  
 Stocking, George E. 2,911,797.  
 Stoddard, Edgar S. 2,894,845.  
 Stoddard, Edgar S. 2,894,846.  
 Stoddard, Edgar S. 2,906,684.  
 Stoddard, Edgar S. 2,912,372.  
 Stoddard, Edgar S., and Vallino. 2,906,685.  
 Stone, George M., Jr., and Sisulak. 2,867,106.  
 Streater, August L., and Wilson. 2,914,724.  
 Strecker, Charles E. 2,878,421.  
 Strickland, Harold A. 2,879,368.  
 Suesserott, Charles F. 2,889,872.  
 Suits, Chauncey G. 2,890,621.  
 Summerhayes, Harry R., Jr. 2,868,059.  
 Summerhayes, Harry R., Jr. 2,888,643.  
 Summers, Erwin R. 2,881,034.  
 Suran, Jerome J. 2,876,355.  
 Suran, Jerome J. 2,913,541.  
 Sutton, Clement E., Jr. 2,875,267.  
 Swedlund, Lloyd E. 2,907,906.  
 Swedlund, Lloyd E. 2,913,612.  
 Swenson, Alfred G. 2,873,329.  
 Swerdlow, Nathan, and Wilson. 2,892,012.  
 Swing, Mervin J. 2,880,368.  
 Szpak, Stanislaw J., and Darrel. 2,910,351.  
 Tarleton, Frederic L. 2,880,049.  
 Taylor, Charles L. 2,888,590.  
 Taylor, Clement F. 2,907,208.  
 Terry, Paul V. 2,887,043.  
 Thompson, Paige W. 2,872,255.  
 Thompson, Paige W. 2,905,267.  
 Thor, Robert C., and Linker. 2,906,919.  
 Thuener, Everett E., and Leibson. 2,912,739.  
 Tili, Vincent L., and Bohlinger. 2,873,759.  
 Titus, Charles H. 2,918,547.  
 Toggias, James. 2,914,420.  
 Toma, John W. 2,917,175.  
 Townsend, George R. 2,889,421.  
 Travers, William R. 2,913,874.  
 Treanor, Edward D. 2,872,651.  
 True, Thomas T. 2,908,877.  
 True, Thomas T. 2,910,657.  
 Tucker, Jewell G. 2,887,602.  
 Tucker, Jewell G. 2,913,617.  
 Tyler, Leslie P., and Dilts. 2,892,568.  
 Tyler, Winfield W., and Newman. 2,871,377.  
 Tyler, Winfield W., and Newman. 2,871,427.  
 Uhrig, Harry W., and White. 2,890,890.  
 Van Luik, Frank W. 2,915,939.  
 Van Luik, Frank W., Jr. 2,897,059.  
 Van Luik, Frank W., Jr. 2,907,620.  
 Van Luik, Frank W., Jr. 2,915,898.  
 Van Nest, Francis H. 2,869,323.  
 Van Nest, Francis H. 2,914,917.  
 Van Nest, Francis H., and Brown. 2,912,824.  
 Varadi, Louis E. 2,914,919.  
 Veitch, Albert H., and Rangert. 2,869,042.  
 Venema, Harry J. 2,911,595.  
 Vermeulen, William. 2,878,329.  
 Vodicka, Vincent. 2,892,956.  
 Vonnegut, Bernard. 2,887,879.  
 Wagner, Ernest A., and Freeman. 2,903,959.  
 Walkoe, Kenneth H. 2,907,859.  
 Wall, Robert L. 2,881,337.  
 Wallace, Henry W. 2,914,645.  
 Warhus, John D. 2,881,633.  
 Warhus, John D. 2,914,217.  
 Webb, William M. 2,912,888.  
 Webber, Stanley E., and Rich. 2,900,557.  
 Weininger, Joseph L. 2,890,259.  
 Welbon, William W. 2,913,315.  
 Welch, Stanley B. 2,900,483.  
 Wendt, Harry C. 2,879,415.  
 Wendt, Harry C. 2,907,213.  
 Wenzel, Lyle J., and Wolff. 2,874,252.  
 Wesolowski, Adolph J. 2,876,371.  
 Wesolowski, Adolph J. 2,899,573.  
 Westendorp, Willem F. 2,897,400.  
 White, Donald R. 2,910,830.  
 White, John E. 2,913,629.  
 White, William C. 2,904,695.  
 Wiley, Emmett H. 2,904,714.

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Wilhelmson, Donald A. 2,868,911.  
 Wilk, Stanley H., and Cuzzone. 2,869,579.  
 Wilk, Stanley H., and O'Neill. 2,910,663.  
 Wilkes, Gordon B., Jr. 2,912,222.  
 Wilkes, Gordon B., Jr. 2,914,297.  
 Wilkes, Gordon B., Jr. 2,916,808.  
 Williams, Ferd E. 2,909,703.  
 Williams, Reade. 2,913,671.  
 Willyoung, David M. 2,904,708.  
 Wiltshire, William T. S., and Terez. 2,910,166.  
 Windsor, Harold F. 2,907,673.  
 Windsor, Harold F. 2,913,352.  
 Winn, Oliver H. 2,881,390.  
 Wirt, Harrison L. 2,916,878.  
 Wohlfarth, Harry C., and Martin. 2,880,336.  
 Wolf, Robert A. 2,874,261.  
 Wolfe, John K. 2,886,625.  
 Wolff, Ernst R. 2,897,319.  
 Wolff, George M., and Richardson. 2,917,570.  
 Woll, Edward. 2,914,912.  
 Wood, Winchester R. 2,879,465.  
 Woodruff, Howard C. 2,914,509.  
 Worcester, Joseph A., Jr. 2,915,625.  
 Worst, Joseph C. 2,878,914.  
 Worst, Joseph C. 2,878,937.  
 Wright, Floyd R. 2,869,069.  
 Wright, James H., Briggs, Billings, and Harriman. 2,903,645.  
 Yoder, Joe B., and Cappello. 2,901,521.  
 Yoder, Lewis A. 2,910,338.  
 Yohe, Charles H. 2,880,297.  
 Yohe, Charles H. 2,880,298.  
 Zazac, Joseph P. 2,880,006.  
 Zeidler, Howard M. 2,882,400.  
 Zelina, William B. 2,886,763.  
 Zelina, William B. 2,886,764.  
 Zelina, William B. 2,911,586.  
 Zeman, Paul D. 2,901,616.  
 Zierdt, Conrad H., Jr. 2,882,462.  
 Zierdt, Conrad H., Jr. 2,887,628.  
 Zupal, Anthony, and Bouvier. 2,879,918.  
 Zuerker, Siegfried J., and Saggese. 2,894,182.  
 Zunick, Michael J. 2,909,686.  
 Zunick, Michael J., and Bell. 2,909,664.  
 Zunick, Michael J., and Cummings. 2,885,583.  
 Zunick, Michael J., and Stroble. 2,885,585.  
 General Electric Co. Ltd., The: *See*—  
 Beesley, John H. 2,869,035.  
 Beesley, John H. 2,900,571.  
 Bradshaw, Stanley E., and Malvsky. 2,894,863.  
 Brand, Denis J., and Ewels. 2,881,103.  
 Breadner, Robert L., and Simms. 2,886,920.  
 Bryden, Joseph E. 2,877,349.  
 Bryden, Joseph E. 2,895,128.  
 Bryden, Joseph E., Flint, Hyamson, and Small. 2,882,401.  
 Chubb, Alexander A., and Levy. Re. 24,679.  
 Chubb, Alexander A., Mawson, and Levy. Re. 24,680.  
 Colson, Ian D. 2,881,370.  
 Cornell, Walter, and Shepherd. 2,898,517.  
 Easter, Brian. 2,906,957.  
 Farmer, Eugene D., and McConalogue. 2,895,132.  
 Ferguson, Harold M., and Mainwaring. 2,913,702.  
 French, Gordon P. 2,899,552.  
 Goldsmid, Hiroshi J. 2,886,618.  
 Griffith, George W. S. 2,917,711.  
 Hayes, Alfred G. 2,898,561.  
 Huggard, Joseph P., and Scott. 2,867,760.  
 Imm, Ronald C. 2,881,397.  
 Jones, David J., and Gossling. 2,881,104.  
 Knott, Ralph D., and Young. 2,898,668.  
 Little, John G. 2,867,722.  
 Mitchell, John M. 2,914,299.  
 Privett, Roy F. 2,881,434.  
 Riden, Sydney A. R. 2,875,358.  
 Rockall, Frederick W. 2,899,677.  
 Runciman, Robert D. 2,890,456.  
 Sherwen, Joseph W. 2,875,889.  
 Sowter, Anthony B., and Foxon. 2,894,323.  
 Stonehouse, Bernard H. 2,891,211.  
 Trier, David C. 2,919,412.  
 Wilson, Bernard. 2,917,718.  
 General Electrodynamics Corp.: *See*—  
 Salgo, Francis J. 2,897,389.  
 General Engineering Co. A.B.: *See*—  
 Wennberg, Olov C. G. 2,904,085.  
 General Fire Extinguisher Corp.: *See*—  
 Huthsing, Charles K., and Billings. 2,895,556.  
 Huthsing, Charles K., Sr., and Billings. 2,909,936.  
 General Fireproofing Co., The: *See*—  
 Anderson, Alfred H. and W. 2,872,269.  
 Hensche, Earl J., and Terlecki. 2,914,370.  
 Machingo, William J., and Swimmer. 2,872,267.  
 McKinley, William H. 2,913,208.  
 Ruddell, Allison R., and Wilmer. 2,887,115.  
 Ruddell, Allison R., and Wilmer. 2,887,352.  
 General Fittings Co.: *See*—  
 Hayden, Sydney J. 2,916,598.  
 General Foods Corp.: *See*—  
 Bangert, James G., and Feldman. 2,901,355.  
 Breunig, Jack E. 2,915,236.  
 Cameron, Donald E., Chilson, Elssesser, and Windmuller. 2,913,342.



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Clinton, William P., Guggenheim, Kraut, and Stinchfield. 2,915,403.  
 Cohen, Joseph H. 2,915,402.  
 Corben, Leo D., and Steigmann. 2,890,215.  
 Earle, Ernest L., Jr., Sienkiewicz, and Stone. 2,917,389.  
 Feldman, Jacob R. 2,875,063.  
 Finucane, Thomas P. 2,916,379.  
 Finucane, Thomas P., Mitchell, and Raymond. 2,916,380.  
 Guggenheim, Herbert, and Stinchfield. 2,915,399.  
 Kelley, Daniel J., and Lanham. 2,917,745.  
 Kramer, Franklin, and Kalafatas. 2,886,442.  
 Kramer, Franklin, and Rosenthal. 2,886,440.  
 Kramer, Franklin, Rosenthal, and Tole. 2,886,441.  
 Kramer, Franklin, Rosenthal, and Tole. 2,886,446.  
 Kramer, Franklin, Rosenthal, and Tole. 2,886,447.  
 Kramer, Franklin, Rosenthal, and Tole. 2,886,448.  
 La Rocca, Rudolph J., and Sarko. 2,917,746.  
 MacAllister, Robert V., and Reichenwallner. 2,912,855.  
 Rosenthal, Harold, Kramer, and Steigmann. 2,886,444.  
 Rosenthal, Harold, Kramer, Steigmann, and Tole. 2,886,443.  
 Rosenthal, Harold, Kramer, Steigmann, and Tole. 2,886,445.  
 Rosenthal, Harold, Kramer, Steigmann, and Tole. 2,886,449.  
 Rusoff, Irving I. 2,887,384-8.  
 Rusoff, Irving I. 2,899,309.  
 Shuster, Joseph. 2,901,086.  
 Stagmeier, Arthur F. 2,895,656.  
 Steigmann, Ernst A. 2,913,341.  
 Vollink, Willard L. 2,868,647.  
 Yezek, Milton, and Utschig. 2,912,347.  
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 Cooksley, Ralph D. 2,884,223.  
 Cooksley, Ralph D. 2,912,006.  
 Cooksley, Ralph D. 2,912,009.  
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 Coven, Warren B. 2,884,795.  
 Hartman, Herbert L. 2,876,648.  
 Marsh, Orlo W. 2,882,077.  
 Tamm, Emil S. 2,883,598.  
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 Friberg, Vincent P. 2,889,522.  
 Higgs, Harold P. 2,918,640.  
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 McNulty, John V. 2,896,123.  
 McNulty, John V., and Wright. 2,910,622.  
 Mollen, John C., and Wright. 2,911,557.  
 Sheheen, Shay J. 2,893,930.  
 Sheheen, Shay J. 2,894,161.  
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 Medalia, Avrom I., and Freedman. 2,868,814.  
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 Murcott, Charles E. 2,869,160.  
 General Merchandising Corp.: See—  
 Garner, Lue O. 2,910,802.  
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 Hoffer, James F. 2,880,678.  
 Meril, Dale R. 2,878,405.  
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 Aelony, David. 2,891,021.  
 Aelony, David. 2,891,022.  
 Aelony, David. 2,908,584.  
 Aelony, David, and Wittcoff. 2,899,397.  
 Andersen, Donald L. 2,913,305.  
 Baldwin, William S., Floyd, and Paschke. 2,868,815.  
 Bergsland, Charles H., James, Karinen, Kwasniewski, and Neumeier. 2,893,009.  
 Blixrud, John O. 2,912,127.  
 Burmeister, Earl R., and Schott. 2,878,600.  
 Burmeister, Earl R., and Schott. 2,878,601.  
 Chang, Robert W. H., and Barker. 2,915,540.  
 Coon, Kenneth C., Harpole, and Van Krevelen. 2,893,236.  
 Dryg, Donald W. 2,903,135.  
 Elverum, Gerard W., and Ramstad. 2,891,050.  
 Froehlich, Harold E. 2,880,946.  
 Gear, Eli C. 2,873,048.  
 Glaser, David W. 2,880,194.  
 Harrison, Stuart A. 2,878,233.  
 Holahan, John L. 2,882,162.  
 Keller, Harold M. 2,909,431.  
 Keller, Harold M., and Beck. 2,870,026.  
 Kohl, Douglas A. 2,906,648.  
 Kohl, Douglas A. 2,908,595.  
 Kwasniewski, George A. 2,902,691.  
 Lang, Keith M. 2,907,502.  
 Lentz, Thomas H., Opie, and Terry. 2,891,012.  
 Long, George, and Tsuchiya. 2,876,891.  
 Moen, Rolf. 2,913,901.  
 Mohr, Robert A., and Capener. 2,878,199.  
 Muckenhirn, Oscar W. 2,910,582.  
 Nordgren, Robert. 2,876,259.  
 Peerman, Dwight E. 2,889,292.  
 Peerman, Dwight E., and Floyd. 2,881,194.  
 Peerman, Dwight E., and Floyd. 2,891,023.  
 Peerman, Dwight E., and Wittcoff. 2,886,543.  
 Petersen, Paul S. 2,879,585.  
 Petersen, Paul S. 2,902,689.  
 Petersen, Paul S. 2,914,843.  
 Peterson, Lowell E. 2,878,234.  
 Preston, John M. 2,876,174.

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 Van Krevelen, Edward R. 2,890,409.  
 Yost, Paul E. 2,871,597.  
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 Abresch, Carel F. 2,907,335.  
 Abresch, Carel F. 2,907,470.  
 Adams, Daniel M., and Garvey. 2,890,299.  
 Adams, Daniel M., and Tell. 2,905,286.  
 Albinson, Harold H., and Voss. 2,867,136.  
 Albrecht, Leonard N. 2,897,812.  
 Allured, Robert B., and Walker. 2,912,105.  
 Altson, Ralph. 2,878,083.  
 Amala, Raymond S., and Diamond. 2,876,508.  
 Anderson, Charles C., Eder, Zimmerman, Heath, and McLaughlin. 2,898,442.  
 Andrew, Margaret J. 2,910,207.  
 Andrews, Edward F. 2,902,599.  
 Andrews, Edward F. 2,904,676.  
 Anthony, Robert C., and Williams. 2,870,477.  
 Antonidis, John E., Dray, and Ulm. 2,870,354.  
 Arkus-Duntov, Zora. 2,882,883.  
 Arlauskas, Alfonsas. 2,914,314.  
 Arlauskas, Alfonsas, and Hollar. 2,918,274.  
 Arlauskas, Alfonsas. 2,918,275.  
 Armington, Arthur P. 2,901,846.  
 Armington, Arthur P. 2,904,910.  
 Armington, George E. 2,896,344.  
 Armington, George E. 2,904,905.  
 Armington, George E. 2,910,790.  
 Armington, Raymond Q., and A. P. 2,899,760.  
 Arnold, Charles F., and Cole. 2,870,362.  
 Axtmann, Harold G. 2,917,319.  
 Badura, Edmund S. 2,895,161.  
 Baker, Lathan E. 2,879,450.  
 Baker, Max P. 2,869,585.  
 Baker, Max P. 2,879,091.  
 Baker, Max P. 2,917,334.  
 Baker, Max P. 2,919,150.  
 Barberis, Fortunato. 2,885,859.  
 Barish, Thomas, Irwin, Line, and Wright. 2,886,112.  
 Barnard, Richard P. 2,871,335.  
 Barnard, Richard P. 2,893,727.  
 Barr, John M. 2,877,004.  
 Bates, Charles E. 2,889,392.  
 Battenberg, Virgil B., Katterheinrich, and Sayre. 2,874,787.  
 Battenberg, Virgil, Miller, Detamore, and Moore. 2,883,178.  
 Bayley, George R. 2,893,779.  
 Beauchamp, Paul N. 2,869,917.  
 Beck, George W., Sehn, and Ziffer. 2,902,732.  
 Becker, Arthur L. 2,891,634.  
 Becker, Bernard J., Jr., and Duclos. 2,869,912.  
 Bell, William E. 2,913,589.  
 Benham, Harold L. 2,881,490.  
 Benham, Harold L. 2,890,915.  
 Benham, Harold L. 2,908,952.  
 Bentley, Robert F. 2,897,670.  
 Berner, Phillip J. 2,872,539.  
 Berninger, Kenneth L., Skinner, and Covert. 2,916,094.  
 Bernotas, Ralph J. 2,878,882.  
 Bernotas, Ralph J. 2,880,746.  
 Bertsch, Joseph F., Hansen, and Schilling. 2,916,284.  
 Betzer, Cloyd L. 2,886,295.  
 Bevers, Eugene J., and Zimmer. 2,884,997.  
 Bidwell, Joseph B. 2,904,120.  
 Biondo, Frank P. 2,883,234.  
 Blackburn, Alan B. 2,912,008.  
 Blackburn, Alan B., Kessler, Skinner, and Smith. 2,876,847.  
 Blackburn, Mack O. 2,900,765.  
 Blanchard, Wallace, Jr. 2,893,496.  
 Bloom, John W., and Brubaker. 2,917,107.  
 Bockemuehl, Robert R. 2,913,638.  
 Bodem, Roy C. 2,910,966.  
 Boegehold, Alfred L. 2,881,511.  
 Boegehold, Alfred L. 2,882,974.  
 Boegehold, Alfred L., and Vigor. 2,906,008.  
 Bogater, John P., Loria, and Putnam. 2,908,415.  
 Bogater, John P., and Ragsdale. 2,894,277.  
 Bohnhoff, Arthur F., and Faiver. 2,917,320.  
 Bolles, Charles P., Jr. 2,894,497.  
 Booth, Frederick E., Jr., Wanttaja, and Colten. 2,915,896.  
 Bowers, Roy L., and Colby. 2,874,206.  
 Bowser, Phillip C., and Denzer. 2,906,526.  
 Boylan, Henry W. 2,891,388.  
 Boylan, Henry W. 2,894,441.  
 Boylan, Henry W., Doane, and McManama. 2,893,700.  
 Boylan, Henry W., Doane, and Muller. 2,883,161.  
 Boylan, Henry W., and Mall. 2,894,444.  
 Brady, William A., Jr. 2,905,803.  
 Brand, Hugh R., Garvey, and Haviland. 2,892,657.  
 Brandes, Roy H., and Conn. 2,918,129.  
 Bremer, Robert D. 2,888,656.  
 Bremer, Robert D. 2,897,467.  
 Bremer, Robert D., and Simon. 2,910,570.  
 Brice, John R., and Dixon. 2,875,746.  
 Brill, William E. 2,872,606.  
 Brill, William E. 2,894,407.  
 Broffitt, Wilgus S. 2,891,382.  
 Broffitt, Wilgus S. 2,907,233.



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 Browne, Donald B., and Buckman. 2,874,849.  
 Brucken, Byron L. 2,869,346.  
 Brucken, Byron L. 2,878,662.  
 Brucken, Byron L. 2,881,609.  
 Brucken, Byron L. 2,882,706.  
 Brucken, Byron L. 2,894,698.  
 Brunner, Richard J. 2,867,422.  
 Brunson, William E., Denzer, Olley, and Schilling. 2,908,508.  
 Bubniak, William C. 2,893,699.  
 Bubniak, William C., and Vickers. 2,888,248.  
 Buck, Charles E. 2,886,720.  
 Buckman, Kenneth E. 2,903,136.  
 Buckman, Kenneth E. 2,908,350.  
 Bull, Douglas T., and Lobanoff. 2,897,533.  
 Bulone, Joseph D. 2,916,895.  
 Burch, Lewis D. 2,898,898.  
 Burgess, Leslie G., and Gee. 2,902,109.  
 Burke, Joseph M. 2,885,095.  
 Burnell, John B., and Roberts. 2,915,914.  
 Burrell, Frank C. 2,895,447.  
 Burrell, Gilbert. 2,878,800.  
 Burrell, Gilbert. 2,886,021.  
 Burroughs, William P. 2,893,181.  
 Burton, Robert W., and Nance. 2,867,129.  
 Bush, Russell J. 2,878,535.  
 Bush, Russell J. 2,896,974.  
 Bush, Russell J., and Sayre. 2,898,643.  
 Bush, Russell J., and Sayre. 2,898,647.  
 Buskirk, John E. 2,883,444.  
 Buskirk, John E. 2,896,007.  
 Butcher, Charles H., Jr. 2,882,886.  
 Butkus, Walter A. 2,891,827.  
 Bychinsky, Wilfred A. 2,874,322.  
 Bychinsky, Wilfred A., and Candelise. 2,874,323.  
 Cameron, Donald J. 2,913,879.  
 Candelise, Alfred. 2,894,315.  
 Caris, Darl F. 2,910,974.  
 Carlson, Morris W. 2,885,919.  
 Carlson, Wilbur L. 2,913,603.  
 Carnegie, William L. 2,903,910.  
 Case, Arthur W. 2,913,235.  
 Champion, Richard H., and Gilson. 2,917,124.  
 Chaplin, Albin, and Reddy. 2,894,498.  
 Chapman, Charles S., Jr., and Gage. 2,912,876.  
 Chayne, Charles A. Re. 2,645.  
 Chayne, Charles A., and Dolza. 2,916,027.  
 Cheek, Forrest R. 2,916,881.  
 Cheek, Forrest R., and Reighard. 2,896,468.  
 Cheetham, Robert A. 2,892,454.  
 Chenea, Paul F. 2,897,024.  
 Christenson, Howard W. 2,916,999.  
 Christenson, Howard W., Maci, and Fisher. 2,912,884.  
 Cislo, Casimer J. 2,872,206.  
 Clark, Earl J. 2,877,067.  
 Clark, Earl J. 2,890,086.  
 Clark, John B., Jr. 2,880,719.  
 Clayton, Edward M. 2,919,000.  
 Clifford, Hugh J., and Schwarz. 2,881,616.  
 Cobb, Leland D. 2,870,890.  
 Cobb, Leland D. 2,872,219.  
 Cobb, Leland D. 2,886,152.  
 Cobb, Leland D. 2,886,153.  
 Cobb, Leland D. 2,887,330.  
 Cockburn, Stanley D., and Fox. 2,904,365.  
 Cockburn, Stanley D., Leslie, Priestman, and Ragsdale. 2,871,049.  
 Colautti, Albert J. 2,888,293.  
 Colautti, Albert J. 2,909,624.  
 Cole, William C. 2,902,617.  
 Collman, John S., Turunen, and Vickers. 2,890,024.  
 Collins, Roy T., Dey, and Winston. 2,903,217.  
 Comer, Richard L. 2,870,233.  
 Coning, Donald L. 2,880,971.  
 Coning, Donald L. 2,903,863.  
 Coppock, Harold N. 2,892,908.  
 Corbin, Russel G. 2,911,247.  
 Cornillaud, Jack T. 2,918,146.  
 Cramer, Raymond H. 2,901,299.  
 Cromwell, Harold J. 2,900,058.  
 Croskey, Frank A., and Tuttle. 2,890,388.  
 Croskey, Frank A., and Tuttle. 2,916,576.  
 Dadd, Morris V. 2,871,838.  
 Daley, Frank R. L., Jr. 2,880,744.  
 Daley, Frank R. L., Jr. 2,906,360.  
 Daley, Frank R. L., Jr. 2,908,351.  
 De Dona, Mario J. 2,873,470.  
 Dega, Robert L. 2,878,995.  
 Dega, Robert L. 2,898,037.  
 Dega, Robert L. 2,900,129.  
 De Hart, Arnold O. 2,879,113.  
 De Lorean, John Z. 2,898,750.  
 De Lorean, John Z. 2,906,105.  
 De Lorean, John Z. 2,912,085.  
 Dermond, Lawrence C. 2,869,165.  
 Dermond, Lawrence C. 2,873,958.  
 Dermond, Lawrence C. 2,876,747.  
 Dermond, Lawrence C. 2,894,499.  
 Dermond, Lawrence C. 2,899,950.  
 Dermond, Lawrence C. 2,900,167.  
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 Dermond, Lawrence C., and Olson. 2,898,096.

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 Dhonaau, Herman B. C., and Nelson. 2,870,956.  
 Diamond, Milton J. 2,876,638.  
 Dickey, Herbert C. 2,908,536.  
 Dickson, John. 2,873,575.  
 Dickson, John. 2,909,160.  
 Dickson, John H. 2,909,653.  
 Diedring, John H. 2,918,370.  
 Diehl, Gordon H. 2,871,847.  
 Dietrich, Howard H. 2,868,521.  
 Dietrich, Howard H., and Paterson. 2,908,363.  
 Dilworth, Richard M. 2,874,648.  
 Disinger, Frank A., and Godfrey. 2,874,555.  
 Dittmer, Clyde A., and Hirsch. 2,891,627.  
 Dolza, John. 2,868,181.  
 Dolza, John. 2,868,443.  
 Dolza, John. 2,869,526.  
 Dolza, John. 2,871,842.  
 Dolza, John. 2,874,944.  
 Dolza, John. 2,875,742.  
 Dolza, John. 2,880,485.  
 Dolza, John. 2,890,690.  
 Dolza, John. 2,891,527.  
 Dolza, John. 2,909,165.  
 Dolza, John, and Burnell. 2,867,201.  
 Dolza, John, and Kolbe. 2,877,002.  
 Dolza, John, and Kolbe. 2,878,798.  
 Dolza, John, and Kolbe. 2,886,057.  
 Dolza, John, and Kolbe. 2,913,991.  
 Dolza, John, and Kolbe. 2,914,051.  
 Dolza, John, and Mick. 2,891,528.  
 Dolza, John, and Sagady. 2,879,046.  
 Double, Walter F. 2,913,928.  
 Doughty, Robert T. 2,871,836.  
 Doughty, Robert T. 2,898,063.  
 Du Bois, Harry G. 2,916,319.  
 Dudash, Michael A. 2,894,774.  
 Duer, Morris J. 2,894,501.  
 Dunn, Joseph B. 2,909,314.  
 Dyer, John B., and Harrison. 2,880,621.  
 Earl, Harley J. 2,893,776.  
 Edsall, Bruce M. 2,882,757.  
 Edsall, Bruce M., and Moore. 2,903,912.  
 Egbert, Earl L. 2,890,661.  
 Elder, Gordon B. 2,873,688.  
 Ellis, John H. 2,879,117.  
 Ennis, Clarence J. 2,908,115.  
 Erickson, Anton F. 2,908,358.  
 Erickson, William F. 2,894,525.  
 Eshbaugh, Jesse E. 2,874,712.  
 Estes, Elliott M., and Perkins. 2,916,325.  
 Evans, Jesse L. 2,889,825.  
 Evans, Jesse L. 2,899,255.  
 Evans, Jesse L., and Sisson. 2,880,479.  
 Everitt, Allen L. 2,871,566.  
 Everitt, Allen L. 2,903,208.  
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 Everitt, Allen L., Frederick, and Mayer. 2,879,090.  
 Faiver, Kenneth E. 2,882,068.  
 Faiver, Kenneth E. 2,882,069.  
 Faiver, Kenneth E. 2,918,305.  
 Falge, Robert N. 2,867,715.  
 Falge, Robert N. 2,867,910.  
 Falge, Robert N. 2,890,920.  
 Falge, Robert N., Brosnar, and Manning. 2,911,523.  
 Falge, Robert N., and Gaither. 2,911,524.  
 Featherstone, Ronald A., and Rise. 2,908,066.  
 Finsterwalder, Carl J., Simmons, and Terkoski. 2,883,183.  
 Fisher, Walter S., and Kennedy. 2,886,022.  
 Fishtahler, Vernon F. 2,895,315.  
 Fishtahler, Vernon F., and Vincent. 2,910,147.  
 Fleck, Francis C., and Ralich. 2,875,635.  
 Fletcher, William A. 2,873,788.  
 Fletcher, William A. 2,888,272.  
 Fletcher, William A. 2,917,823.  
 Folt, William R., and Wellman. 2,916,026.  
 Foote, Howland S., and Tino. 2,872,253.  
 Forbush, Lothrop M. 2,906,558.  
 Foster, Ned R. 2,916,731.  
 Fox, Robert M. 2,894,302.  
 Fox, Robert M., and Grout. 2,886,365.  
 Frank, Bernard E., Hazen, and Stroud. 2,885,914.  
 Frank, Mark H. 2,887,900.  
 Frei, Arthur J. 2,874,552.  
 Frei, Arthur J. 2,886,958.  
 Frei, Arthur J. 2,907,179.  
 Frei, Arthur J. 2,908,146.  
 Frei, Arthur J., and Davis. 2,895,312.  
 Frey, Edward J. 2,892,175.  
 Frick, Charles H. 2,884,807.  
 Frick, Charles H. 2,916,040.  
 Fry, Millard E. 2,875,016.  
 Fryer, Edward R. 2,893,139.  
 Funkhouser, Mearick, and Schultze. 2,869,685.  
 Galin, Robert, and Everitt. 2,911,170.  
 Gall, Donald A. 2,871,002.  
 Galonska, David A. 2,890,594.  
 Galonska, David A. 2,891,823.  
 Garcia, Gelasio F., and Schemansky. 2,896,997.  
 Garvey, Louis P., and Schamel. 2,896,990.  
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Gaubatz, Arthur W. 2,870,632.  
 Gaubatz, Arthur W. 2,871,829.  
 Gaubatz, Arthur W. 2,874,926.  
 Gaugler, Richard S. 2,887,346.  
 Gelenius, Robert B., and Resseguie. 2,875,634.  
 Gentry, Donald P., and Shepherd. 2,883,358.  
 Gerdan, Dimitrius, and McDowall. 2,875,579.  
 Geyer, Howard M. 2,869,385.  
 Geyer, Howard M. 2,874,579.  
 Geyer, Howard M. 2,897,786.  
 Geyer, Howard M. 2,898,888.  
 Geyer, Howard M. 2,918,786.  
 Geyer, Howard M. 2,918,799.  
 Geyer, Howard M. 2,918,903.  
 Geyer, Howard M., Bullock, and Light. 2,879,746.  
 Geyer, Howard M., and Light. 2,886,008.  
 Geyer, Howard M., and Light. 2,891,380.  
 Geyer, Howard M., and Light. 2,911,844.  
 Gibson, Charles G. 2,907,247.  
 Gibson, Frank M. 2,867,473.  
 Gibson, J. Lowell. 2,898,438.  
 Gill, Douglas, and Syring. 2,875,630.  
 Gilson, Joseph H. 2,916,327.  
 Godfrey, John W., Hayden, and Nieman. 2,914,012.  
 Gorman, Richard M., and Leach. 2,902,102.  
 Gorsky, Rudolph J. 2,905,016.  
 Gould, Richard E. 2,884,768.  
 Gould, Richard E. 2,911,798.  
 Grabowski, Leonard R. 2,876,990.  
 Grady, Francis H. 2,869,506.  
 Grady, Francis H. 2,896,470.  
 Greene, Joseph L., and Holzwarth. 2,894,850.  
 Grenell, Leland H. 2,903,763.  
 Griswold, Charles J., Jr. 2,912,288.  
 Groves, Ronald C. 2,869,527.  
 Groves, Ronald C. 2,891,531.  
 Groves, Ronald C. 2,895,461.  
 Groves, Ronald C. 2,899,948.  
 Groves, Ronald C. 2,902,989.  
 Gurney, David M., and Wagner. 2,875,637.  
 Guyton, James H. 2,890,274.  
 Guyton, James H. 2,891,197.  
 Guyton, James H. 2,895,095.  
 Guyton, James H. 2,903,636.  
 Guyton, James H., and Roka. 2,874,233.  
 Habsburg-Lothringen, Stefan, and Quinn. 2,912,675.  
 Hackett, William S. 2,899,726.  
 Haefner, Raymond J. 2,893,365.  
 Hagler, Charles R. 2,893,751.  
 Hancock, James L. 2,881,368.  
 Hancock, Richard H. 2,893,104.  
 Hanink, Dean K. 2,881,750.  
 Hanink, Dean K. 2,893,349.  
 Hanink, Dean K., and Holzwarth. 2,903,785.  
 Hanyasz, Eugene A. 2,885,887.  
 Hanyasz, Eugene A. 2,912,853.  
 Hanyasz, Eugene A., and Saur. 2,916,694.  
 Hanyasz, Eugene A., and Schubring. 2,889,705.  
 Harding, William R., and McDowall. 2,870,633.  
 Hardy, Alex. 2,875,700.  
 Harned, John L., Knudsen, and Ward. 2,882,721.  
 Harnish, Kenneth A. 2,876,460.  
 Harris, Edward P. 2,910,915.  
 Harris, Edward P., and Wall. 2,884,668.  
 Harris, Edward P., and Wall. 2,884,957.  
 Harruff, Robert B. 2,904,763.  
 Harry, Gordon W. 2,873,686.  
 Harry, Gordon W. 2,912,254.  
 Hart, Peter M., and Hollerbach. 2,897,000.  
 Hartzell, Herman L., Redick, and Julian. 2,872,537.  
 Hastings, Homer R. 2,877,327.  
 Hastings, Homer R., and Haut. 2,883,623.  
 Hastings, Homer R., and Stevens. 2,899,517.  
 Hause, Gerald F. 2,885,458.  
 Hause, Gilbert K. 2,886,950.  
 Hause, Gilbert K. 2,890,769.  
 Hause, Gilbert K. 2,896,471.  
 Hause, Gilbert K. 2,908,190.  
 Heath, Thomas C. 2,869,051.  
 Hedeon, Carl E. 2,902,277.  
 Hefner, Bert H. 2,872,141.  
 Heidorn, John H. 2,913,168.  
 Heigeby, Ralph O. 2,909,365.  
 Henderson, George F. 2,875,841.  
 Hendrix, Sylvan G., Hirsch, and McDonald. 2,888,992.  
 Hendrix, Sylvan G., and Miller. 2,887,164.  
 Henson, Roy O. 2,898,285.  
 Herndon, Walter B. 2,875,699.  
 Herndon, Walter B. 2,876,656.  
 Herndon, Walter B., and Sand. 2,872,000.  
 Hershberger, Russell R., and Richey. 2,896,889.  
 Hetzler, Lewis R. 2,886,765.  
 Hickey, John L., and Wallace. 2,868,036.  
 Himka, John, and Walther. 2,895,764.  
 Hirsch, Richard A., Mansfield, and Nelson. 2,882,975.  
 Hitch, Paul E., and Walsh. 2,899,026.  
 Hoag, William G., and Liem. 2,893,781.  
 Hoffman, Carl S. 2,869,670.  
 Hogsten, Leslie G. 2,888,269.  
 Holin, William F. 2,874,646.  
 Holin, William F. 2,878,760.  
 Holin, William F. 2,885,034.  
 Holin, William F. 2,911,073.

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Holton, Charles D. 2,906,561.  
 Holzwarth, James C., and Thomson. 2,867,531.  
 Holzwarth, James C., and Thomson. 2,899,304.  
 Holzwarth, James C., and Thomson. 2,907,653.  
 House, Perry W., Shaw, and Gribben. 2,902,125.  
 Hsu, Ming C., and Stallard. 2,914,109.  
 Ingolia, Anthony J., and McLean. 2,876,037.  
 Jackman, Charles W. 2,913,290.  
 Jackson, George W. 2,887,324.  
 Jackson, George W. 2,888,273.  
 Jackson, George W. 2,893,504.  
 Jackson, George W. 2,895,743.  
 Jackson, George W. 2,895,744.  
 Jackson, George W., and Pribonic. 2,904,330.  
 Jackson, George W., and Pribonic. 2,918,304.  
 Jacobs, James W. Re. 24,627.  
 Jacobs, James W. 2,881,597.  
 Jacobs, James W. 2,888,808.  
 Jacobs, James W. 2,892,319.  
 Jacobs, James W. 2,899,253.  
 Jacobs, James W. 2,907,426.  
 Jacobs, James W. 2,919,340.  
 Jendrzynski, Hillard J. 2,876,116.  
 Jenkins, Richard L. 2,896,146.  
 Joachim, Joseph G., and White. 2,903,288.  
 Johnson, Kenneth O. 2,867,460.  
 Johnson, Langdon G. 2,887,331.  
 Johnson, Lauren L., and Liebenthal. 2,907,941.  
 Johnson, Ralph H. 2,916,333.  
 Johnson, Ralph S. 2,894,414.  
 Jones, George T. 2,912,072.  
 Juhlin, Arthur H., and Macan. 2,900,043.  
 Kals, Edward R. 2,887,971.  
 Kaller, Joseph J. 2,909,211.  
 Karcher, Harry C. 2,880,573.  
 Karcher, Harry C., and Kreuser. 2,882,679.  
 Kaweck, Henry S. 2,905,287.  
 Kearney, William R. 2,896,188.  
 Kehm, Paul H., and Schultz. 2,912,595.  
 Kehrl, Howard H. 2,885,047.  
 Keighley, Lloyd M. 2,903,865.  
 Keim, Paul T., and Treseder. 2,869,687.  
 Keller, John H. 2,882,744.  
 Kelley, Curtis P. 2,899,256.  
 Kelley, Oliver K. 2,875,643.  
 Kelley, Oliver K. 2,882,684.  
 Kelley, Oliver K. 2,882,761.  
 Kelley, Oliver K. 2,884,813.  
 Kelley, Oliver K. 2,893,266.  
 Kelley, Oliver K. 2,898,740.  
 Kelley, Oliver K. 2,903,083.  
 Kelley, Oliver K. 2,906,518.  
 Kelley, Oliver K. 2,910,832.  
 Kelley, Oliver K. 2,911,786.  
 Kelley, Oliver K. 2,917,137.  
 Kelley, Oliver K., Hause, and Swindell. 2,911,785.  
 Kelley, Oliver K., Hause, and Wrigley. 2,882,545.  
 Kelley, Oliver K., Hause, and Wrigley. 2,898,644.  
 Kendall, Thomas L., and Rowls. 2,890,262.  
 Kesling, Keith K. 2,869,954.  
 Kesling, Keith K. 2,869,959.  
 Kesling, Keith K. 2,879,370.  
 Kesling, Keith K. 2,885,253.  
 Kesling, Keith K. 2,888,544.  
 Kesling, Keith K. 2,902,952.  
 Kesling, Keith K. 2,903,711.  
 Key, Don E., and Mahoney. 2,880,896.  
 King, William F. 2,872,819.  
 Kinsey, Claude J., and Varterasian. 2,898,764.  
 Kirk, Robert E. 2,911,610.  
 Kline, Paul C. 2,889,418.  
 Koch, Robert H. 2,913,859.  
 Kolbe, Adelbert E. 2,882,875.  
 Kolbe, Adelbert E. 2,907,309.  
 Kolbe, Adelbert E. 2,916,020.  
 Kolbe, Adelbert E., and Rohrbacher. 2,909,162.  
 Kolbe, William H. 2,911,203.  
 Kosbab, Kenneth A. 2,899,901.  
 Krautwurst, Homer V. 2,916,596.  
 Krautwurst, Homer V., and Denning. 2,883,510.  
 Kreis, Oscar C. 2,869,388.  
 La Belle, Donald J. 2,874,956.  
 La Belle, Donald J. 2,902,240.  
 La Flame, Frank E. 2,905,372.  
 Lamm, Lewis J. 2,894,175.  
 Lamont, Adam S. 2,895,575.  
 Lampman, George W., Leach, and Vivian. 2,873,962.  
 Larkin, Stephen A., and Ledwan. 2,890,069.  
 Lautzenhisier, Argyle G. 2,881,289.  
 Lautzenhisier, Argyle G. 2,907,979.  
 Lautzenhisier, Argyle G., and Faiver. 2,901,241.  
 Laviana, Donald W. 2,882,370.  
 Laviana, Donald W. 2,910,551.  
 Lawless, Norman D., Roat, and Wheeler. 2,875,407.  
 Lawton, Ledra M. 2,867,037.  
 Leach, Clayton B. Re. 24,650.  
 Leach, Clayton B. 2,902,014.  
 Leach, Clayton B. 2,902,021.  
 Leach, Clayton B. 2,907,411.  
 Leach, Clayton B., and Frank. 2,899,015.  
 Lee, Thomas H. 2,911,608.  
 Lelli, Joseph L., and Pollock. 2,897,003.  
 Leslie, James D. 2,877,043.



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Leslie, James D., Garvey, and West. 2,900,183.  
 Leslie, James D., and Rehkugler. 2,913,066.  
 Leslie, James D., Schamel, and Van Voorhees. 2,881,019.  
 Leslie, James D., and Wubbe. 2,873,794.  
 Leslie, James D., and Wubbe. 2,887,866.  
 Lewis, Donald B. 2,918,138.  
 Lewis, Douglas T. 2,890,581.  
 Lillquist, Torsten O. 2,898,582.  
 Lillquist, Torsten O. 2,907,892.  
 Lincoln, Clovis W. 2,880,586.  
 Lincoln, Clovis W., Zeigler, and Smith. 2,897,684.  
 Little, John H. 2,912,873.  
 Lohr, Thomas E., and Sierant. 2,905,012.  
 Loisell, Paul J. 2,868,582.  
 Long, George B. 2,879,763.  
 Long, George B. 2,882,379.  
 Long, George B. 2,895,320.  
 Long, George B., and Brucken. 2,877,333.  
 Long, George B., and Brucken. 2,906,111.  
 Long, George B., and Clever. 2,894,105.  
 Loy, Fred W. 2,910,767.  
 Lunn, Clarence R. 2,873,957.  
 Lunn, Clarence R. 2,881,746.  
 Lunn, Clarence R. 2,890,871.  
 Lunn, Clarence R. 2,902,045.  
 MacKenzie, Robert P. 2,887,522.  
 Mackie, Harry A. 2,903,904.  
 Makela, Armas G., and McClelland. 2,910,716.  
 Manahan, Max J. 2,882,391.  
 Mann, Leonard J. 2,907,180.  
 Mann, Leonard J. 2,912,834.  
 Markestein, John, and Nelson. 2,880,681.  
 Markestein, John, and Patrie. 2,907,283.  
 Marvin, John T. 2,882,700.  
 Matkins, Eugene G. 2,872,618.  
 Matkins, Eugene G. 2,888,611.  
 Matkins, Eugene G., and Miller. 2,905,867.  
 Matkins, Eugene G., and Miller. 2,905,868.  
 Matkins, Eugene G., and Skinner. 2,890,386.  
 Mauck, Arthur R., and Zorad. 2,886,133.  
 May, Howard F. 2,873,633.  
 May, John J., and Ulrey. 2,890,657.  
 McClure, Robert. 2,895,345.  
 McClure, Robert. 2,915,780.  
 McCormick, Dale B. 2,891,822.  
 McCormick, Francis H. 2,870,313.  
 McCormick, Francis H. 2,879,655.  
 McDowall, Charles J., and Peterson. 2,893,495.  
 McDowall, Charles J., and Peterson. 2,893,525.  
 McDuffie, Archie D. 2,862,830.  
 McDuffie, Archie D. 2,891,529.  
 McDuffie, Archie D. 2,893,711.  
 McDuffie, Archie D. 2,894,459.  
 McKellar, Malcolm R. 2,914,038.  
 McKinney, Cecil A. 2,898,896.  
 McLean, Robert F., and Podolan. 2,890,908.  
 McMichael, John D. 2,869,679.  
 McMichael, John D. 2,886,130.  
 McMichael, John D. 2,896,742.  
 McMichael, John D. 2,904,129.  
 McMichael, John D. 2,905,268.  
 McMullen, Wesley W. 2,905,265.  
 McMullen, Wesley W. 2,911,693.  
 McMullen, Wesley W., and McMichael. 2,906,370.  
 Mead, Howard C., and Fugua. 2,913,958.  
 Mears, William T. 2,911,522.  
 Mekkes, Lee T. 2,871,839.  
 Menewisch, William T. 2,881,799.  
 Meyer, Barthold F. 2,876,653.  
 Meyer, Barthold F. 2,893,258.  
 Meyer, Barthold F. 2,899,832.  
 Meyer, Barthold F., and Ragsdale. 2,905,003.  
 Meyer, Barthold F., and Toruk. 2,916,566.  
 Meyer, Engelbert A. 2,875,493.  
 Meyer, Engelbert A. 2,903,939.  
 Meyer, Engelbert A. 2,906,159.  
 Mick, Stanley H. 2,918,047.  
 Miller, Charles W. 2,876,395.  
 Miller, Edwin J., and Kesling. 2,871,676.  
 Miller, Lester M. 2,897,665.  
 Moody, Floyd O., and Siebenthaler. 2,906,132.  
 Moore, Bobbie D., and Johnson. 2,917,907.  
 Moore, Francis R. 2,918,207.  
 Moore, Victor C. 2,884,809.  
 Morris, Donald E. 2,874,259.  
 Morrish, Leonard M. 2,888,001.  
 Morrish, Leonard M., and Muller. 2,881,852.  
 Morrish, Leonard M., and Muller. 2,899,007.  
 Mover, David F. 2,874,245.  
 Mrlk, Jerry R., and Winchell. 2,875,856.  
 Mushovic, Peter, and Schultz. 2,879,587.  
 Nedley, Alva L. 2,882,881.  
 Nelson, Corless B. 2,903,267.  
 Nelson, Corless B., and Smidl. 2,882,701.  
 Newill, William J. 2,898,036.  
 Nichols, Kermit D. 2,902,838.  
 Nigh, Carl L. 2,881,033.  
 Norris, James C., Abel, and Brown. 2,913,543.  
 Norton, James A. 2,875,899.  
 O'Brien, Michael H., and Wellington. 2,894,502.  
 O'Connor, Neal E. 2,898,712.  
 Olley, Maurice. 2,911,052.  
 Olley, Maurice, Walther, and Wolfram. 2,883,232.

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Olson, Elmer. 2,873,732.  
 Olson, Elmer. 2,899,184.  
 Olson, Elmer. 2,916,271.  
 Olson, Elmer, Kehoe, and Dermond. 2,899,951.  
 Olson, Elmer, and Stoltman. 2,868,520.  
 Onksen, George W., Falge, and Mead. 2,909,724.  
 Onksen, George W., and Reynolds. 2,890,627.  
 O'Rourke, Donald J. 2,875,632.  
 Ortmann, Curtis D. 2,895,840.  
 Overman, Guy R. 2,892,359.  
 Owen, Robert E. 2,868,571.  
 Painter, Rex H. G. 2,882,749.  
 Panasewicz, Anton Z. 2,868,579.  
 Peller, Henry A. 2,893,470.  
 Peller, Henry A. 2,894,562.  
 Perkins, Ralph W. 2,890,062.  
 Pesel, Henry F. 2,891,746.  
 Phelps, Charles W. 2,915,901.  
 Pierce, Earl R. 2,879,115.  
 Pierce, Earl R. 2,899,810.  
 Pierce, Earl R. 2,907,425.  
 Pierce, Earl W. 2,874,208.  
 Pierce, Earl W. 2,875,365.  
 Pietrowicz, Edwin J., and Williams. 2,917,875.  
 Pleska, Paul. 2,891,831.  
 Polhemus, Von D. 2,906,543.  
 Polinak, Bernard L. 2,883,242.  
 Pollock, Samuel C. 2,893,782.  
 Potocnik, Rudolph. 2,873,998.  
 France, Stanley R. 2,911,323.  
 France, Stanley R., and Waag. 2,878,659.  
 Pratt, William B. 2,913,924.  
 Premo, Ellis J. 2,888,274.  
 Probst, Delbert C. 2,874,993.  
 Probst, Delbert C. 2,876,003.  
 Probst, Delbert C. 2,897,916.  
 Puls, Lawrence V., and Vincent. 2,916,401.  
 Purchas, William J., Jr. 2,897,020.  
 Putman, Nelson E. 2,894,771.  
 Rada, Frank J., and Bowman. 2,870,902.  
 Rademacher, Gustav F. 2,888,508.  
 Ragsdale, La Verne B. 2,908,934.  
 Ragsdale, La Verne B. 2,917,350.  
 Ragsdale, La Verne B., and Tanaka. 2,875,809.  
 Ralph, Herman S., Nellis, and Pearson. 2,886,213.  
 Rappaport, George, Szaruga, and Wall. 2,895,926.  
 Rasmussen, Carlton A. 2,894,443.  
 Rataiczak, Francis I. 2,912,230.  
 Raver, Louis J. 2,871,708.  
 Raver, Louis J. 2,912,594.  
 Rawley, Joseph. 2,891,422.  
 Reindl, Harold J. 2,899,136.  
 Reinertson, Donald R. 2,868,135.  
 Rembold, Charles E. 2,878,653.  
 Rhodes, John W. 2,896,474.  
 Rice, Lyman A. 2,867,702.  
 Rice, Lyman A. 2,906,939.  
 Rice, Lyman A. 2,908,854.  
 Rice, Lyman A. 2,913,641.  
 Rice, Lyman A. 2,914,713.  
 Riesing, Ellwood F., and Moorman. 2,867,457.  
 Riesing, Ellwood F., and Moorman. 2,883,224.  
 Rike, Richard C. 2,879,867.  
 Rike, Richard C. 2,887,848.  
 Rittenhouse, Owen R., and Glover. 2,916,945.  
 Rodgers, Joseph M., and Leland. 2,895,026.  
 Rohr, Henry C., and Wallis. 2,874,770.  
 Ross, Arthur. 2,883,235.  
 Rossman, Edwin F. 2,879,795.  
 Rowls, Garth A. 2,872,500.  
 Rowls, Garth A., and Townsend. 2,872,499.  
 Royer, Darrell E. 2,869,564.  
 Rubly, Charles M. 2,885,035.  
 Ryck, Francis M. 2,915,769.  
 Ryck, Francis M. 2,915,771.  
 Ryder, George R. 2,901,765.  
 Rzeminski, Walter S. 2,911,131.  
 Sabo, Julius J., and Butler. 2,908,941.  
 Sakraida, Carl R., and Wellman. 2,880,709.  
 Sampson, Frederick W. 2,910,145.  
 Sampson, Lawrence R., and Lampman. 2,904,769.  
 Sand, Darrel R. 2,904,150.  
 Sand, Darrel R. 2,911,853.  
 Sand, Darrel R., and Zimmer. 2,898,738.  
 Sargeant, Walter E. 2,905,832.  
 Sargeant, Walter E. 2,905,904.  
 Saunders, Orson V. 2,869,952.  
 Saunders, Orson V. 2,894,379.  
 Saunders, Orson V. 2,909,910.  
 Saunders, Orson V., and Petkowitz. 2,894,378.  
 Schaefer, Carl F., and Schwartzwalder. 2,867,888.  
 Schaefer, Vernon, Jr. 2,893,371.  
 Schedl, Karl, and Becker. 2,911,072.  
 Scheibe, Elias W. 2,902,015.  
 Schell, Carl M. 2,889,787.  
 Schell, Carl M. 2,896,312.  
 Schilling, Robert. 2,873,616.  
 Schilling, Robert. 2,890,895.  
 Schilling, Robert. 2,902,104.  
 Schjolin, Hans O. 2,878,691.  
 Schjolin, Hans O. 2,889,691.  
 Schjolin, Hans O. 2,914,358.  
 Schjolin, Hans O. 2,918,805.



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Schjolin, Hans G., and Parshall. 2,889,718.  
 Schmid, Leonard J. 2,908,056.  
 Schmid, Roy J. 2,874,587.  
 Schneider, Paul L., Cromwell, and Taylor. 2,900,057.  
 Schneider, Paul L., Cromwell, and Taylor. 2,904,148.  
 Schneidewind, Edward A. 2,873,612.  
 Schubring, Norman W. 2,912,854.  
 Schultze, Harold E. 2,880,022.  
 Schultze, Werner F. 2,893,233.  
 Schweller, Edmund F. 2,878,655.  
 Scott, Robert H. 2,894,416.  
 Secord, John R., and Chapin. 2,916,314.  
 Sehn, William E. 2,912,727.  
 Selyem, Edwin J. 2,876,877.  
 Sharpe, Verlos G. 2,893,726.  
 Sharpe, Verlos G. 2,908,148.  
 Sharpe, Verlos G., and Sucro. 2,874,553.  
 Shaw, Henry V. 2,871,439.  
 Shaw, Henry V. 2,881,376.  
 Shephard, Grove H., and Frick. 2,891,526.  
 Shewmon, Ralph K., and Pontis. 2,909,333.  
 Short, Brooks H. Re. 24,715.  
 Short, Brooks H. 2,895,090.  
 Short, Brooks H. 2,909,760.  
 Short, Brooks H., Heltzer, and Falge. 2,879,352.  
 Short, Clair A., Jr., Castle, and Schnable. 2,893,353.  
 Shultz, John E. 2,912,639.  
 Sihvonen, Kauno E. 2,869,372.  
 Simmons, Edward C. 2,867,093.  
 Simpson, Howard W. Re. 24,619.  
 Simpson, Howard W. 2,914,967.  
 Sisson, Kenneth O. 2,870,834.  
 Sisson, Kenneth O. 2,882,360.  
 Skunda, Michael. 2,871,389.  
 Slone, Howard I. 2,902,902.  
 Smidl, John M., Nelson, and Neilson. 2,869,336.  
 Smlack, Jacob. 2,904,972.  
 Smith, Ben J. 2,886,364.  
 Smith, David P. 2,871,969.  
 Smith, John H. 2,899,829.  
 Smith, Lucian B. 2,889,782.  
 Smith, Robert F. 2,913,571.  
 Smith, Robert W. 2,867,683.  
 Snyder, Harold M. 2,886,394.  
 Snyder, Harold M. 2,912,237.  
 Snyder, Robert P. 2,901,977.  
 Somers, Arthur V., and Schwartzwalder. 2,906,909.  
 Somerville, Alexander. 2,903,590.  
 Somerville, Alexander. 2,909,204.  
 Spalding, Charles W., and West. 2,908,137.  
 Spalding, Charles W., and West. 2,916,882.  
 Spencer, Jessie H., Jr. 2,904,968.  
 Stewart, Leonard F. 2,908,488.  
 Stewart, William P., Jr. 2,891,577.  
 Stivender, Paul M. 2,882,687.  
 Stoltman, Donald D. 2,871,001.  
 Stoltman, Donald D. 2,883,112.  
 Stoltman, Donald D. 2,916,269.  
 Stuart, Joseph, III. 2,881,843.  
 Summerer, Raymond E. 2,874,321.  
 Sussex, Richard N. 2,888,702.  
 Swander, Kenneth D., Jr. 2,871,063.  
 Syring, Jean V. 2,875,631.  
 Teichert, Conrad A. 2,898,051.  
 Thomas, Herman J. 2,918,317.  
 Thomas, Wendell M. 2,887,852.  
 Thompson, William B. 2,882,867.  
 Thompson, William B., and Wrobbel. 2,905,489.  
 Thomson, Robert F. 2,894,319.  
 Thomson, Robert F. 2,917,818.  
 Thomson, Robert F., Amala, and Eberhardt. 2,873,493.  
 Thomson, Robert F., and Holzwarth. 2,883,280.  
 Thomson, Robert F., and Holzwarth. 2,908,564.  
 Thomson, Robert F., and Holzwarth. 2,908,567.  
 Thomson, Robert F., and Holzwarth. 2,909,429.  
 Thomson, Robert F., and Holzwarth. 2,912,324.  
 Thomson, Robert F., Shoudy, and Hanink. 2,885,304.  
 Thomson, Robert F., and Weinman. 2,882,190.  
 Thomson, Robert F., and Weinman. 2,884,687.  
 Thomson, Robert F., and Weinman. 2,887,765.  
 Thorman, Richard L. 2,910,942.  
 Thorne, Maurice A. 2,873,953.  
 Timmer, David J. 2,892,325.  
 Timoff, George T., and Jensen. 2,894,090.  
 Todd, Edwin T. 2,908,241.  
 Todd, Harold E. 2,894,172.  
 Todd, Harold E., Meyer, Gaither, Meek, and Wanttaja. 2,880,557.  
 Tower, Robert D. 2,885,041.  
 Tuck, Robert M. 2,884,806.  
 Tuck, Robert M. 2,899,846.  
 Turley, Joseph D. 2,891,532.  
 Turley, Joseph D. 2,914,130.  
 Turunen, William A., and O'Connell. 2,883,152.  
 Tuttle, Robert F. 2,907,379.  
 Underwood, Arthur F. 2,914,367.  
 Van Slooten, Louis J. 2,873,729.  
 Van Voorhees, Harold E. 2,916,318.  
 Verbrugge, Joseph J. 2,902,829.  
 Verbrugge, Joseph J., and Deford. 2,917,079.  
 Verkerke, John F. 2,883,168.  
 Vosler, Edward J., and Schultz. 2,867,898.  
 Wacker, Herbert E. 2,906,097.

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Wagner, Charles L. 2,879,047.  
 Wall, James R., and Powell. 2,904,063.  
 Wallis, Cyril T. 2,876,478.  
 Wallis, Cyril T. 2,880,445.  
 Wallis, Cyril T. 2,901,761.  
 Waterman, Dana. 2,882,092.  
 Weibel, John, Jr. 2,893,626.  
 Weibel, John, Jr. 2,913,166.  
 Weis, William A. 2,910,091.  
 Weiss, Irwin K. 2,903,256.  
 Weiss, Irwin K. 2,907,577.  
 Wendela, Hugo H. 2,886,270.  
 Wentworth, Joseph T. 2,894,734.  
 Wentworth, Joseph T. 2,894,736.  
 Wentworth, Joseph T. 2,895,292.  
 Werner, Calvin J. 2,873,826.  
 Werner, Calvin J. 2,914,140.  
 Wernig, James H. 2,871,501.  
 Wernig, James H. 2,895,763.  
 Whaley, John A. 2,913,659.  
 Wheeler, Harold A. 2,916,619.  
 Wheeler, Roscoe M. 2,902,683.  
 Whistler, Charles C., Jr. 2,869,222.  
 Whitmore, Charles F. 2,916,892.  
 Whyte, Ronald H., and Clement. 2,904,897.  
 Whyte, Ronald H., and Pansing. 2,886,901.  
 Widmer, Paul. 2,916,176.  
 Wiese, Henry C., and Thompson. 2,876,331.  
 Wiese, Theodore O., and Wilder. 2,873,944.  
 Williams, Lyle N. 2,876,340.  
 Williams, Russell C. 2,877,059.  
 Williams, Russell C., and Selyem. 2,875,535.  
 Willis, Jack K. 2,884,803.  
 Winchell, Frank J. 2,891,828.  
 Winchell, Frank J. 2,895,578.  
 Winchell, Frank J. 2,896,478.  
 Winchell, Frank J. 2,902,126.  
 Wing, Charles E. 2,867,423.  
 Winters, Paul N. 2,914,623.  
 Wirt, John R. 2,878,552.  
 Wolfe, John S. 2,875,091.  
 Wolfram, William S. 2,888,270.  
 Wolfram, William S. 2,903,036.  
 Woofter, Robert C. 2,874,365.  
 Woofter, Robert C. 2,919,315.  
 Worden, Donald P., Young, and Janneck. 2,876,132.  
 Wortman, Donald E. 2,893,647.  
 Woxman, Robert J. 2,882,382.  
 Wright, Lee A. 2,886,296.  
 Wroby, John S. 2,906,572.  
 Wurtz, Clifford H. 2,894,731.  
 Wurtz, Clifford H., and Mann. 2,900,806.  
 Wysong, Paul V., Jr., Bohnhoff, and West. 2,878,788.  
 Young, Elmer L. 2,910,600.  
 Young, Roger M. 2,868,323.  
 Zemke, Kenneth M. 2,870,649.  
 Ziegler, Eugene R. 2,878,505.  
 Ziegler, Eugene R. 2,905,962.  
 Ziegler, Eugene R. 2,915,772.  
 Zimmerman, John. 2,871,846.  
 Zink, George A., Child, Servi, and Gorsky. 2,899,725.  
 Zubaty, Joseph. 2,873,956.  
 Zubaty, Joseph. 2,904,027.  
 Zupancic, Albert J. 2,894,735.

General Pacific Corp. : See—  
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- Gentry, Ray L. Drafting machine. 2,908,977, 10-20-59, Cl. 33—79.
- Genuit, Luther L., to General Electric Co. Frequency multiplier. 2,892,142, 6-23-59, Cl. 321—7.
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- Gera, Delfino V., to Montecatini-Società Generale per l'Industria Mineraria e Chimica. Process for continuously manufacturing superphosphate. 2,886,426, 5-12-59, Cl. 71—40.
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- Gerber, Dale C., W. G. Seck, and D. T. Kurlinski, to The Hoover Co. Suction cleaners. 2,876,481, 3-10-59, Cl. 15—331.
- Gerber, Frederick E., 10% to C. A. Keys. Ball bearing lubricator. 2,873,817, 2-17-59, Cl. 184—1.
- Gerber, Harry, to Simplex Industrial Products, Inc. Alarm system. Re. 24,672, 7-28-59, Cl. 340—276.



- Gerber, Harry. Swimming pool alarm. 2,896,038, 7-21-59, Cl. 200—61.2.
- Gerber, Heinz J., to The Gerber Scientific Instrument Co. Computing instrument for use in the analysis of graphs and curves having initially unknown characteristics. 2,918,213, 12-22-59, Cl. 235—61.
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- Gerber, Rudolph J., to R. K., A. J., and A. M. Bernstein. Portable linoleum measuring and cutting device. 2,867,907, 1-13-59, Cl. 33—130.
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- Gerdan, Dimitrius, and C. J. McDowall, to General Motors Corp. Gas turbine engine midframe. 2,875,579, 3-3-59, Cl. 60—39.31.
- Gerdeman, Elmer A., to The National Cash Register Co. Recording devices. 2,896,713, 7-28-59, Cl. 164—111.
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- Gerfen, Charles O.: *See—*
- Ruhoff, John R., Martin, and Gerfen. 2,895,792.
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- Gerhard, Paul G.: *See—*
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- Gerhardt, Andrew H., to Borg-Warner Corp. Clothes washing machine. 2,884,947, 5-5-59, Cl. 137—216.
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- Gerhart, Howard L., to Pittsburgh Plate Glass Co. Catalyst compositions. 2,895,919, 7-21-59, Cl. 252—430.
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- Gerhold, Clarence G., and R. E. Sutherland, to Universal Oil Products Co. Extractive alkylation process. 2,910,522, 10-27-59, Cl. 260—683.48.
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- Gerlach, Eduard, G.m.b.H.: *See—*
- Detert, Ernst-Rolf, and Buchholz. 2,893,400.
- Gerlach, Hans: *See—*
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- Gerlach, Richard: *See—*
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- Gerlach, Stephen G. Bending machine wiper die supporting means. 2,906,316, 9-29-59, Cl. 153—40.
- Gerlikowski, Norbert J. Apparatus for drilling holes in ice. 2,893,695, 7-7-59, Cl. 255—70.
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- Gohrke, Ray W., and Thompson. 2,875,913.
- Gerlitz, Richard M., to Philco Corp. Testing method and apparatus. 2,905,892, 9-22-59, Cl. 324—73.
- Germain, Lloyd M., to Burroughs Corp. Low drift magnetic amplifier. 2,884,493, 4-28-59, Cl. 179—171.
- German, John F., and E. F. Degering. Deleaching of gasoline by irradiation. 2,867,572, 1-6-59, Cl. 204—154.
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- Germann, Werner, to Fabrique Suisse de Crayons Caran d'Ache S.A. Multi-color pencil. 2,883,966, 4-28-59, Cl. 120—14.5.
- Germano, Angelo, to Solvay & Cie. Process for the manufacture of chlorofluorocyclohexanes. 2,905,609, 9-22-59, Cl. 204—163.
- Germanton, Charles E., to Bell Telephone Laboratories, Inc. Call allotter. 2,883,471, 4-21-59, Cl. 179—27.
- Germer, Edmund H., to Engelhard Industries, Inc. Electrical discharge lamp. 2,892,113, 6-23-59, Cl. 313—42.
- Germeshausen, Kenneth J. Gaseous-discharge device. 2,909,777, 10-20-59, Cl. 313—193.
- Gern, Ernst D., to Engelhard Industries, Inc. Conveyor device for photo-printing material in photo-printing machines. Ernst D. Gern. 2,895,395, 7-21-59, Cl. 95—77.5.
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- Gerneth, Josef. Apparatus for the diagnosis of patients by means of X-rays. 2,881,038, 4-7-59, Cl. 311—6.
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- Koehler, Albert T., Palmleaf, and Ross. 2,881,915.
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- Gerrard, John M., to A. J. Gerrard & Co. Strapping tool. 2,882,934, 4-21-59, Cl. 140—93.2.
- Gerrish, Cecil B., to General Electric Co. Panel interior mounting means. 2,876,394, 3-3-59, Cl. 317—119.
- Gerry, Otto F., to General Electric Co. Thermostat cover seal. 2,886,205, 5-12-59, Cl. 220—94.
- Gershen, Irvin J.: *See—*
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- Gerst, Chris, to The Transmission & Gear Co. Hydraulically actuated multiple disc clutch. 2,880,834, 4-7-59, Cl. 192—85.
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- Gersten, Gerald B. Liquid containing tanks with reversible spouts. 2,904,232, 9-15-59, Cl. 222—539.
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- Garrett, John E., and Gerstenmaier. 2,905,985.
- Gerster, Max, to Aluminium-Industrie-Aktien-Gesellschaft. Ingot casting machine. 2,893,081, 7-7-59, Cl. 22—61.
- Gerstin, Harry, to American Latex Products Corp. Helmet. 2,871,481, 2-3-59, Cl. 2—6.
- Gerstmann, William. Liquid separator. 2,867,231, 1-6-59, Cl. 137—202.
- Gerstner, Harvard J. Steering mechanism and control means for outboard motors. 2,871,717, 2-3-59, Cl. 74—484.
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- Gerteis, Karl M.: *See—*
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- Gertel, Maurice, to Barry Controls Inc. Resilient supporting device. 2,908,456, 10-13-59, Cl. 248-24.
- Gerth, Albert E., and G. F. Embshoff, to Institutum Divi Thomae Foundation. Magnetically operated enclosed switch. 2,885,510, 5-5-59, Cl. 200-87.
- Gertler, Ruth: See—  
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Richter, Albert, Ordorica, and Gertz. 2,898,485.
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- Gerwick, Ben C., to Ben C. Gerwick, Inc. Pier construction method. 2,912,828, 11-17-59, Cl. 61-52.
- Gerwick, Ben C., Inc.: See—  
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- Gerwig, Harvey F., and R. M. Cox, to Weston Hydraulics, Ltd. Governor. 2,903,255, 9-8-59, Cl. 264-6.
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- Gesser, Ross D. Portable chapel tent frame. 2,898,924, 8-11-59, Cl. 135-4.
- Gessler, Albert M., H. K. Wiese, and J. Rehner, Jr., to Esso Research and Engineering Co. Heat-treated compositions of butyl rubber and alkenylhalosilane-modified silica and process of preparation. 2,906,722, 9-29-59, Cl. 260-41.5.
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Maynard, Michael. 2,891,700.  
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- Getaz, James L., 75% to United States Trust Co. of New York. Hosiery package. 2,904,171, 9-15-59, Cl. 206-46.
- Getman Brothers Mfg. Division, Inc.: See—  
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- Getreidefloeken A. G.: See—  
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- Getsinger, John G., and R. L. Haunschild; said Getsinger assor. to Tennessee Valley Authority. Manufacture of fertilizer from wet-process phosphoric acid and ammonia. 2,891,856, 6-23-59, Cl. 71-41.
- Gettelman, Gilbert C., to Arvin Industries, Inc. Ironing tables. 2,912,775, 11-17-59, Cl. 38-121.
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- Getts, Sidney A., to Metal Cutting Tools, Inc. Core drill. 2,867,140, 1-6-59, Cl. 77-58.
- Getz, Anthony J. Pedal extensions for organs. 2,900,862, 8-25-59, Cl. 84-426.
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- Getz, Delmond L.: See—  
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- Getz, John W., and R. W. Timmerman, to Food Machinery and Chemical Corp. Preparation of carbon disulfide and hydrogen sulfide. 2,882,131, 4-14-59, Cl. 23-181.
- Getzendanner, Vincent J.: See—  
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- Geuder, Lawrence J., to Holland-Racine Shoes, Inc. Shoe heel construction. 2,913,837, 11-24-59, Cl. 36-37.
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- Gewalt, Rudolf, and E. Stein. Method for cold sterilization using bactericidal gases. 2,899,266, 8-11-59, Cl. 21-58.
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- Gewecke, Theodore H., to Baxter Laboratories, Inc. Flash-back indicator. 2,868,200, 1-13-59, Cl. 128-214.
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- Gewin, William M. Trolling device for reducing the effectiveness of a propeller. 2,914,019, 11-24-59, Cl. 115-18.
- Gewinner, Walter J., to American Bosch Arma Corp. Lubricating arrangement for fuel injection pump. 2,893,513, 7-7-59, Cl. 184-6.
- Gewis, Max, W. Maeder, and M. Teher, to Worbla A.G. Slide fastener. 2,887,750, 5-26-59, Cl. 24-205.13.
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- Geyer, Howard M., and J. W. Light, to General Motors Corp. Locking actuator and valve mechanism therefor. 2,886,008, 5-12-59, Cl. 121-41.
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- Gfoll, Walter. Pressure gage attachment for tire valve stems. 2,903,888, 9-15-59, Cl. 73-146.8.
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- Gianinazzi, Rolando: *See*—
- Fresard, Marcel, and Gianinazzi. 2,883,868.
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- Ducati, Adriano C. 2,892,052.
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- Hughes, Arthur C., Jr., and Smith. 2,918,817.
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- Gianniny, Omer A., Jr., and J. A. Rolston, to A-S-H Industries, Inc. Conveyor system for fine solids. 2,897,009, 7-28-59, Cl. 302-53.
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- Buttironi, Giovanni, and Giavarini. 2,893,538.
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- Gibbens, Edmond E., to Lockheed Aircraft Corp. Radiation intensity detector. 2,873,302, 2-10-59, Cl. 136-4.
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- Rosenberg, Sanders D., and Gibbons. 2,873,288.
- Gibbons, Charles G.: *See*—
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- Gibbons, Earl E. Bag holder. 2,910,257, 10-27-59, Cl. 248-101.
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- Curtis, Gerald R., and Gibbs. 2,909,062.
- Gibbs, Maurice G.: *See*—
- Barfield, Robert H., and Gibbs. 2,868,938.
- Gibbs Mfg. and Research Corp.: *See*—
- Gibbs, Thomas B., and Fink. 2,911,915.
- Gibbs, Robert A. and T. A., and R. L. Brinson. Fluid pressure motor. 2,899,940, 8-18-59, Cl. 121-86.
- Gibbs, Thomas A.: *See*—
- Gibbs, Robert A. and T. A., and Brinson. 2,899,940.
- Gibbs, Thomas B., and J. Fink, to Hamilton Watch Co. Motor-driven clock. 2,873,572, 2-17-59, Cl. 58-41.
- Gibbs, Thomas B., and J. Fink, to Gibbs Mfg. and Research Corp. Time fuse. 2,911,915, 11-10-59, Cl. 102-71.
- Giblin, Katherine M., and E. C. Fischer. Yarn holder. 2,893,658, 7-7-59, Cl. 242-129.53.
- Giboney, Ray E.: *See*—
- King, George E., and Giboney. 2,905,838.
- Giboney, Ray E., and G. E. King, to Westinghouse Electric Corp. Control apparatus for a machine device. 2,888,576, 5-26-59, Cl. 307-81.
- Gibron, Lucile. Combination hanger for clothes. 2,889,092, 6-2-59, Cl. 223-91.
- Gibsen, Kenneth F., to Kelco Co. Algin gel compositions and method. 2,918,375, 12-22-59, Cl. 99-131.
- Gibson, Cedric M. Wrapping paper feeding machine. 2,880,560, 4-7-59, Cl. 53-389.
- Gibson, Charles G., to General Motors Corp. Sighting device. 2,907,247, 10-6-59, Cl. 88-1.
- Gibson, Daniel K., to The Regents of the University of California. Frequency stabilization system. 2,886,766, 5-12-59, Cl. 322-31.
- Gibson, David B., to Unifon Corp. Hydraulic system for extending and retracting an antenna mast or the like. 2,914,922, 12-1-59, Cl. 60-51.
- Gibson, Fay O. Book holder for chairs. 2,890,800, 6-16-59, Cl. 211-106.
- Gibson Electric Co.: *See*—
- Graves, Herbert C., Jr. 2,890,315.
- Graves, Herbert C., Jr. 2,909,643.
- Gibson, Eugene C., to American Viscose Corp. Tire cord testing machine. 2,916,912, 12-15-59, Cl. 73-91.
- Gibson, Eugene C., to The Chemstrand Corp. Closure. 2,917,785, 12-22-59, Cl. 19-66.
- Gibson, Frank M., to General Motors Corp. Vehicle body panel sealing means. 2,867,473, 1-6-59, Cl. 296-44.
- Gibson, George A., Jr. Apparatus for feeding flat stock. 2,915,310, 12-1-59, Cl. 271-62.
- Gibson, George M. Electric motor structure. 2,870,356, 1-20-59, Cl. 310-258.
- Gibson, George M. Caster bracket. 2,888,706, 6-2-59, Cl. 16-29.
- Gibson, George M. Washing machine agitator and pump drive means. 2,893,230, 7-7-59, Cl. 68-131.
- Gibson, George M. Selective drive for washing machine. 2,893,264, 7-7-59, Cl. 74-664.
- Gibson, George M. Laundering machines. 2,904,185, 9-15-59, Cl. 210-363.
- Gibson, Glenn J., and H. R. Lyons, to Air Reduction Co., Inc. Electric arc welding. 2,907,865, 10-6-59, Cl. 219-74.
- Gibson, Harold F., to United States of America, Army. Ordnance fuze firing circuit. 2,873,679, 2-17-59, Cl. 102-70.2.
- Gibson, Inc.: *See*—
- Lover, Seth E. 2,896,491.
- McCarty, Theodore M., and Lover. 2,897,709.
- Gibson, J. Lowell, to General Motors Corp. Domestic appliance. 2,898,438, 8-4-59, Cl. 219-37.
- Gibson, James E., Jr. Toy package. 2,890,790, 6-16-59, Cl. 206-47.
- Gibson, James L. Draft gear for railroad car. 2,909,291, 10-20-59, Cl. 213-43.
- Gibson, James L., to Barry-Wehmiller Machinery Co. Bottle uncaser. 2,918,325, 12-22-59, Cl. 294-87.
- Gibson, James R.: *See*—
- Ballard, Wiley P., Gibson, and Fort. 2,906,795.
- Gibson, John C.: *See*—
- Leonard, Edward J., Hemel, Karow, Gibson, Liston, and Tarschisch. 2,918,533.
- Gibson, John J., to Radio Corp. of America. Power divider. 2,872,648, 2-3-59, Cl. 333-6.
- Gibson, Joseph W., to D. W. Haering & Co., Inc. Fluid treating method and apparatus. 2,876,787, 3-10-59, Cl. 137-101.11.
- Gibson, Levi D., to Sekesco Co., Inc. Accelerator control device of the electric type. 2,907,422, 10-6-59, Cl. 192-3.
- Gibson, Oscar J. Caged bird feeder. 2,875,729, 3-3-59, Cl. 119-52.
- Gibson Patent Containers, Ltd.: *See*—
- Page, John E. 2,902,198.
- Gibson, Paul, and B. J. Bogdanoff, to Swift & Co. Inhibitor for buffing compound. 2,897,075, 7-28-59, Cl. 51-304.
- Gibson, Randall L.: *See*—
- Gordon, Bernard M., and Gibson. 2,908,900.
- Gibson, Richard F., and A. F. Old, to Southern Lightweight Aggregate Corp. Lightweight aggregate furnace patch lining and process of applying. 2,903,778, 9-15-59, Cl. 25-155.5.
- Gibson, Robert C.: *See*—
- Cavanagh, Walter R., and Gibson. 2,884,351.
- Russell, William S., and Gibson. 2,882,189.



- Gibson, Robert M., K. C. ten Brink, and A. M. Shook, to The Texas Co. Method and apparatus for operating underground storage caverns. 2,869,328, 1-20-59, Cl. 61-5.
- Gibson, Seabron H., and L. I. Mulvaney. Wheel machining tool holder. 2,893,110, 7-7-59, Cl. 29-97.
- Gibson, Thomas M. S., to The Dole Valve Co. Fluid flow control. 2,893,432, 7-7-59, Cl. 138-26.
- Gibson, Van R., Jr., to General Electric Co. Tube shield ground strap. 2,884,611, 4-28-59, Cl. 339-143.
- Gibson, Walter G., to Radio Corp. of America. Matrixing apparatus. 2,892,884, 6-30-59, Cl. 178-5.4.
- Gibson, Walter G., and A. C. Schroeder, to Radio Corp. of America. Color television pickup system. 2,882,335, 4-14-59, Cl. 178-5.4.
- Gibson, Walter G., and A. C. Schroeder, to Radio Corp. of America. Picture signal aperture compensation system. 2,899,495, 8-11-59, Cl. 178-7.2.
- Gibson, Walter G., and A. C. Schroeder, to Radio Corp. of America. Color television. 2,916,544, 12-8-59, Cl. 178-5.4.
- Gibson, Wilfred C., to Shaffer Tool Works. Oil and gas separator. 2,883,940, 4-28-59, Cl. 103-203.
- Gibson, Wilfred C., to Shaffer Tool Works. Well casing mud valve with fluid and non-fluid actuating means. 2,905,429, 9-22-59, Cl. 251-14.
- Gibson, Willard A., and D. C. Sevey, to Midwest Mfg. Corp. Centering clip. 2,868,604, 1-13-59, Cl. 312-140.1.
- Gibson, William W.: See—  
Glenn, George G., and Gibson. 2,909,647.  
Glenn, George G., and Gibson. 2,913,618.
- Giddings & Lewis Machine Tool Co.: See—  
Daugherty, Jesse. 2,892,388.  
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Daugherty, Jesse, and Talbot. 2,887,016.  
Hollis, John C. 2,888,843.  
Ormsby, Edwin P. 2,869,428.  
Schurger, Garner H. 2,885,915.  
Schurger, Garner H., and Hecker. 2,890,629.  
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Tegen, George E. 2,867,556.  
Woytych, Raymond M. 2,884,801.
- Giddings, Linwood P.: See—  
Mayberry, Joe L., and Giddings. 2,895,321.
- Giddings, Wayne A., to Amana Refrigeration, Inc. Blower wheel. 2,870,959, 1-27-59, Cl. 230-134.
- Gidlow, Rolf G., to The Pillsbury Co. Adjustable clamping device. 2,896,291, 7-28-59, Cl. 24-248.
- Gidwitz, Joseph L., and F. Westfall, to Lanzit Corrugated Box Co. Hanger bar. 2,904,190, 9-15-59, Cl. 211-123.
- Giel, George J., Jr.: See—  
Burns, Meryl C., Giel, and Stahl. 2,867,379.  
Burns, Meryl C., Giel, and Stahl. 2,895,674.  
Pitman, Duncan, Rutland, and Giel. 2,907,012.
- Giel, George J., 1/2 to Charles J. Vermilye. Stroboscopic volt-meter. 2,905,897, 9-22-59, Cl. 324-98.
- Gienger, Edwin B., Jr.: See—  
Miller, Wilbur A., and Gienger. 2,867,847.
- Gienger, Fred, and F. E. Wood, to General Telephone Laboratories, Inc. Detachable wiper assembly for stepping switches. 2,890,316, 6-9-59, Cl. 200-166.
- Giepen, Hubert M., to R. T. Moloney, deceased, American National Bank and Trust Co. of Chicago, executor. Measuring and dispensing valve. 2,895,653, 7-21-59, Cl. 222-452.
- Giepen, William A., to High Vacuum Equipment Corp. Oil diffusion pump. 2,903,181, 9-8-59, Cl. 230-101.
- Gier, John R., Jr. Method of making composite light weight structural elements. 2,878,560, 3-24-59, Cl. 29-455.
- Gier, John R., Jr. Light weight structural elements and extended surface. 2,911,201, 11-3-59, Cl. 257-256.
- Gier, Joseph T.: See—  
Knudson, Warren A., Gier, and Dunkle. 2,878,669.
- Gieray, Konrad, W. Köhler, and H. Recken, to Daimler-Benz Aktiengesellschaft. Safety lock for diesel engine vehicles. 2,913,894, 11-24-59, Cl. 70-237.
- Giertz-Hedström, Stig. Vibration-producing device. 2,902,867, 9-8-59, Cl. 74-61.
- Gies, Helmut: See—  
Weissert, Josef, and Gies. 2,897,188.
- Gies, Paul E., to Houdaille Industries, Inc. Linear damper. 2,909,248, 10-20-59, Cl. 188-96.
- Gieschi, Thomas L., to Andover Laboratories, a subsidiary of Walbuck Crayon Co., individually owned by Harry Axelrod. Shave stick. 2,876,161, 3-3-59, Cl. 167-85.
- Giese, Albert J. Portable stove. 2,877,759, 3-17-59, Cl. 126-43.
- Giese, Emil: See—  
Maurer, Albrecht, and Giese. 2,901,072.
- Giese, John F., and H. D. Thompson. Lift wire guide. 2,917,752, 12-22-59, Cl. 4-57.
- Gieseke, Edward P., to Synco Machine Co. Cradle assembly for stranding machine. 2,903,842, 9-15-59, Cl. 57-65.
- Giesen, Jan H. L. Apparatus for producing concrete products on a floor. 2,879,575, 3-31-59, Cl. 25-41.
- Giesen, Johann: See—  
Berther, Clau, and Giesen. 2,913,478.
- Giesen, Johann, to Inventa A.-G., für Forschung und Patentverwertung Luzern. Production of phenols by catalytic hydrogenation of lignin. 2,870,133, 1-20-59, Cl. 260-124.
- Giesen, Johann, and F. Mueller, to Inventa, A.G. fuer Forschung und Patentverwertung. Process of recovering polyhydric alcohols. 2,916,525, 12-8-59, Cl. 260-637.
- Gieske, William R., to The Ford Alexander Corp. Device for exploring ferromagnetic structure in well bores. 2,869,072, 1-13-59, Cl. 324-34.
- Gieskieng, Marion W. Missing crown detectors for bottle capping machines. 2,883,810, 4-28-59, Cl. 53-52.
- Gieskieng, Marion W. Crown-retaining heads for bottle-crowning machines. 2,883,818, 4-28-59, Cl. 53-343.
- Giesler, Jean V., to Robertshaw-Fulton Controls Co. Constant flow thermostatic mixing valve. 2,886,245, 5-12-59, Cl. 236-12.
- Giess, Edward A.: See—  
Beals, Malcolm D., and Giess. 2,918,384.
- Giessner, George J., to I-T-E Circuit Breaker Co. Magnetic shield. 2,900,473, 8-18-59, Cl. 200-88.
- Gietl, Edward W., to Houdaille Industries, Inc. Automatic punch press. 2,871,811, 2-3-59, Cl. 113-50.
- Giffen, Eugene D. Baby bouncer. 2,912,044, 11-10-59, Cl. 155-17.
- Giffen, James L., to Emhart Mfg. Co. Blank feeder and stacker. 2,881,929, 4-14-59, Cl. 214-1.
- Giffen, James L., to Emhart Mfg. Co. Article feeding mechanism. 2,907,566, 10-6-59, Cl. 271-19.
- Gifford, Ansel W.: See—  
Cosby, William T., Elliott, Gifford, and Dawson. 2,881,857.
- Gifford, Fay E.: See—  
Coomes, Edward A., and Gifford. 2,892,740.
- Gifford, John F.: See—  
Cartmell, Thomas R., and Gifford. 2,898,497.
- Gifford, Maurice J.: See—  
Lipke, Paul H., Jr., and Gifford. 2,899,400.
- Gifford, Paul B., to Allegheny Ludlum Steel Corp. Electrode positioning device. 2,900,556, 8-18-59, Cl. 314-69.
- Gifford, William E.: See—  
McMahon, Howard O., and Gifford. 2,906,101.
- Gigger, Walter A.: See—  
Krause, August L., and Gigger. 2,914,153.
- Gigli, Giulio, to L. & C. Hardtmuth, Inc. Writing device. 2,915,041, 12-1-59, Cl. 120-44.
- Gignere, Albert E. Bottom testing device. 2,914,950, 12-1-59, Cl. 73-425.2.
- Gilbring, Herman E., to Radio Corp. of America. Antenna array and feed system therefor. 2,867,804, 1-6-59, Cl. 343-853.
- Gil, Artigas, and V. Costanza. Washing machine. 2,883,844, 4-28-59, Cl. 68-156.
- Gilardi, William B.: See—  
Berliner, Victor R., and Gilardi. 2,915,438.
- Gilbert, A. C. Co., The: See—  
Smith, William R. 2,882,834.  
Smith, Raymond E. 2,900,127.  
Smith, Raymond E., and W. R., and Baltrush. 2,905,102.  
Suarez Grau, Julio F. 2,887,242.
- Gilbert, Alfred R.: See—  
Kantor, Simon W., and Gilbert. 2,883,366.  
Precopio, Frank M., and Gilbert. 2,888,424.
- Gilbert, Alfred R., to General Electric Co. Polymerizable organopolysiloxane solutions and the process of preparing gels from these solutions. 2,867,606, 1-6-59, Cl. 260-46.5.
- Gilbert, Alfred R., and S. W. Kantor, to General Electric Co. Acetoxymethylheptamethylcyclotetrasiloxane and oils prepared therefrom. 2,891,980, 6-23-59, Cl. 260-448.2.
- Gilbert, Alfred R., and G. D. Cooper, to General Electric Co. Methylhalogenosilane preparation. 2,902,506, 9-1-59, Cl. 260-448.2.
- Gilbert & Barker Mfg. Co.: See—  
Tapp, Harry F. 2,901,567.
- Gilbert & Barker Mfg. Co. (Australia) Pty. Ltd.: See—  
Gordon, John M. 2,869,584.
- Gilbert, Bernard L., J. L. Kalinsky, and W. F. Lauro, to United States of America, Navy. Radioisotope tracer method. 2,915,639, 12-1-59, Cl. 250-106.
- Gilbert, Bruce, to The Western Co. Jet gun. 2,916,991, 12-15-59, Cl. 102-20.
- Gilbert, Charles E., deceased; E. J. Fluss, M. D. Gilbert, and N. Coates, executors. Electric connector plug construction. 2,888,659, 5-26-59, Cl. 339-99.
- Gilbert, Everett A., to Radio Frequency Laboratories. Adapter for magnet charger. 2,888,661, 5-26-59, Cl. 339-147.
- Gilbert, Everett E.: See—  
Crowder, John A., and Gilbert. 2,895,998.  
Degtinger, Edward R., and Gilbert. 2,899,355.
- Gilbert, Everett E., to Allied Chemical Corp. Insecticidal compositions containing dodecachlorotetrahydro-4,7-methanoindene and method for combating noxious organisms therewith. Re. 24,750, 12-15-59, Cl. 167-30.
- Gilbert, Everett E., to Allied Chemical Corp. Dialkyl 1,3-di(carbalkoxy)-1-propen-2-yl phosphate pesticides. 2,891,887, 6-23-59, Cl. 167-22.
- Gilbert, Everett E., to Allied Chemical Corp. Thiophosphate ester fungicides. 2,911,335, 11-3-59, Cl. 167-22.
- Gilbert, Everett E., and S. L. Giolito, to Allied Chemical Corp. Ketonic  $C_{10}H_{16}O$  pesticide and method for combating noxious organism therewith. Re. 24,749, 12-15-59, Cl. 167-30.
- Gilbert, Everett E., and B. Veldhuis, to Allied Chemical Corp. Production of oil-soluble sulfonates. 2,872,437, 2-3-59, Cl. 260-79.3.
- Gilbert, Everett E., and C. B. Miller, to Allied Chemical Corp. Method of indicating acidity and alkalinity. 2,880,070, 3-31-59, Cl. 23-230.



- Gilbert, Geoffrey, and W. L. Prendergast, to Chavannes Industrial Synthetics, Inc. Apparatus and method for producing embossed thermoplastic film and the like. 2,905,969, 9-29-59, Cl. 18-19.
- Gilbert, George R.: *See*—  
Kearby, Kenneth K., and Gilbert. 2,893,837.
- Gilbert, George R., to Esso Research and Engineering Co. Preparation of eta alumina utilizing chlorine and ammonia. 2,914,488, 11-24-59, Cl. 252-466.
- Gilbert, George R., to Esso Research and Engineering Co. Cracking process with a zeolite catalyst. 2,916,437, 12-8-59, Cl. 208-120.
- Gilbert, George R., to Esso Research and Engineering Co. Production of catalyst supports. 2,917,365, 12-15-59, Cl. 23-143.
- Gilbert, George R., and I. Kirshenbaum, to Esso Research and Engineering Co. Hydroforming process and catalysts. 2,894,901, 7-14-59, Cl. 208-136.
- Gilbert, Gordon W., to Bomac Laboratories Inc. Double level threshold detector. 2,883,615, 4-21-59, Cl. 324-26.
- Gilbert, Harry A. Combination pouring and sifting spout for containers. 2,904,226, 9-15-59, Cl. 222-189.
- Gilbert, Jack, to General Slicing Machine Co., Inc. Slicing machines. 2,916,067, 12-8-59, Cl. 146-102.
- Gilbert, Jack H. Baggage tag with trap studs. 2,882,627, 4-21-59, Cl. 40-21.
- Gilbert, Joseph A., R. F. Johnson, and A. G. Rose, to Rose Brothers (Gainsborough Ltd.). Method of manufacturing wrapped packages of edible plastic material. 2,875,069, 2-24-59, Cl. 99-171.
- Gilbert, Leon, to Continental Connector Corp. Multiple electrical connector. 2,875,425, 2-24-59, Cl. 339-176.
- Gilbert, Leon, to Continental Connector Corp. Combined connector and relay. 2,908,775, 10-13-59, Cl. 200-2.
- Gilbert, Lewis F., to Ethyl Corp. Gasoline fuels. 2,897,071, 7-28-59, Cl. 44-69.
- Gilbert, Lloyd. Cucumber harvesting machine. 2,893,193, 7-7-59, Cl. 56-327.
- Gilbert Mfg. Co., Inc.: *See*—  
Peterson, John W. 2,884,555.
- Gilbert, Margaret D.: *See*—  
Gilbert, Charles E. 2,888,659.
- Gilbert & Nash Co.: *See*—  
Wendshuh, Herbert L., and Lamon. 2,877,013.
- Gilbert, Nathan: *See*—  
Fredrick, William H. 2,905,335.
- Gilbert, Philo G. Wheel with short spokes. 2,916,329, 12-8-59, Cl. 301-55.
- Gilbert, R. Lee: *See*—  
Sines, William V. 2,917,325.
- Gilbert, Richard H., to Jas. P. Marsh Corp. Valve. 2,905,431, 9-22-59, Cl. 251-61.
- Gilbert, Ronald A., to D. Napier & Son Ltd. Apparatus for de-aeration of liquids. 2,878,889, 3-24-59, Cl. 183-2.5.
- Gilbert, Roswell W., to Daystrom Inc. Micro-balance. 2,874,951, 2-24-59, Cl. 265-70.
- Gilbert, Roswell W., to Daystrom, Inc. Voltage distortion measuring instrument. 2,875,403, 2-24-59, Cl. 324-77.
- Gilbert, Roswell W., to Daystrom, Inc. Electro-mechanical resolver. 2,886,751, 5-12-59, Cl. 318-28.
- Gilbert, Roswell W., and J. H. Miller, to Daystrom, Inc. Current measuring system. 2,896,166, 7-21-59, Cl. 324-140.
- Gilbert, Samuel: *See*—  
Schindel, Arnold, and Gilbert. 2,908,170.
- Gilbert, Thomas M., to Cutler-Hammer, Inc. Gas distribution means. 2,873,180, 2-10-59, Cl. 48-191.
- Gilbert, Walter E.: *See*—  
Kast, George, Gilbert, and Scott. 2,885,617.
- Gilbert, Walter E., to Synton Co. Vibratory feeder. 2,918,590, 12-22-59, Cl. 310-29.
- Gilbert, Walter W.: *See*—  
Arnold, Herrick R., Fawcett, and Gilbert. 2,900,235.
- Gilbert, William I.: *See*—  
Montgomery, Charles W., Gilbert, and McNulty. 2,886,590.
- Gilbert, William I., R. G. Hay, and J. G. McNulty, to Gulf Research & Development Co. Recovery of phenolic substances. 2,872,486, 2-3-59, Cl. 260-609.
- Gilbert, William I., and A. C. Whitaker, to Gulf Research & Development Co. Method of distilling alcohols. 2,889,375, 6-2-59, Cl. 260-643.
- Gilbert, William S.: *See*—  
Edmonds, Harvey A., Evanson, and Gilbert. 2,918,161.  
Edmonds, Harvey A., and Gilbert. 2,868,349.
- Gilbertson, Stanley F. Self-inflating mattress. 2,886,834, 5-19-59, Cl. 5-348.
- Gilbertville Woven Label Corp.: *See*—  
Gage, Edwin G. 2,879,633.
- Gilberty, Paul F. Ice cream layer cake machine. 2,881,714, 4-14-59, Cl. 107-1.
- Gilchrist, Daniel D. Mirror bracket. 2,884,218, 4-28-59, Cl. 248-291.
- Gilchrist, Edgar S.: *See*—  
Roper, Charles G., Gilchrist, and Lockery. 2,895,502.  
Roper, Charles G., Gilchrist, and Sable. 2,898,543.
- Gilchrist, Edgar S., to Manning, Maxwell & Moore, Inc. Transmitting potentiometer. 2,887,646, 5-19-59, Cl. 323-64.
- Gilchrist, Edgar S., and A. J. Sable, to Manning, Maxwell & Moore, Inc. Electromechanical balance unit. 2,913,672, 11-17-59, Cl. 331-65.
- Gilchrist, Raleigh: *See*—  
Clabaugh, Wilbur S., and Gilchrist. 2,915,364.
- Gildea, David J.: *See*—  
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- Gil de Gibaja Herrero, Leonidas. Liquid level control system. 2,884,001, 4-28-59, Cl. 137-392.
- Gile, William C., and M. E. Nelson. Camping and boat transporting trailer. 2,881,023, 4-7-59, Cl. 296-23.
- Giles, David E. Steam traps. 2,884,944, 5-5-59, Cl. 137-204.
- Giles, Jesse A., to R. J. Reynolds Tobacco Co. Tobacco. 2,905,575, 9-22-59, Cl. 131-17.
- Giles, Ralph R.: *See*—  
Straley, James M., and Giles. 2,868,775.
- Giles, Walter D. Structural box for farming. 2,910,128, 10-27-59, Cl. 172-34.
- Giles, William H.: *See*—  
Frank, Anton R., and Giles. 2,911,774.  
Frank, Anton R., and Giles. 2,915,867.
- Gilfillan Bros. Inc.: *See*—  
Crane, George B. 2,916,735.  
Franke, Dallas V. 2,871,469.
- Green, David J. 2,905,384.
- Hayes, Harry T., and Crane. 2,918,665.
- Johnson, Thomas J. 2,880,935.
- Johnson, Thomas J. 2,889,635.
- Michels, Lawrence. 2,887,681.
- Nesler, John J., and Hull. 2,914,704.
- Ule, Louis A. 2,892,939.
- Ule, Louis A. 2,892,945.
- Van Alstyne, Alvin G. 2,881,356.
- Van Alstyne, Alvin G. 2,916,736.
- Van Alstyne, Alvin G., and Johnson. 2,889,636.
- Gilfillan, Edward S.: *See*—  
Glennon, James B., Root, Park, and Gilfillan. 2,892,403.
- Gilfillan, Henry W., to Chrysler Corp. Power transmission. 2,885,578, 5-5-59, Cl. 310-96.
- Gilliland, Melvin E., and K. C. Givens, to Texaco Inc. Pneumatic tool lubricant. 2,918,429, 12-22-59, Cl. 252-33.4.
- Gilliland, Melvin E., R. C. Givens, and H. D. Massin, to Texaco Inc. Pneumatic tool lubricant. 2,918,430, 12-22-59, Cl. 252-33.4.
- Gilkey, John E., to Bendix-Westinghouse Automotive Air Brake Co. Motion translating device. 2,913,911, 11-24-59, Cl. 74-60.
- Gilkey, John W., to Dow Corning Corp. Stable organosiloxane-titanate composition containing nitro compound. 2,868,750, 1-13-59, Cl. 260-29.1.
- Gilkey, John W., to Dow Corning Corp. Organosilicon compositions containing beta-dicarbonyl zirconium compounds and leather article treated therewith. 2,884,393, 4-28-59, Cl. 260-29.1.
- Gilkey, John W., to Dow Corning Corp. Organosilicon-chromium coordination complexes. 2,894,967, 7-14-59, Cl. 260-438.
- Gilkey, Russell: *See*—  
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Caldwell, John R., and Gilkey. 2,916,476.  
Caldwell, John R., Gilkey, and Dannelly. 2,893,970.
- Gill, Andrew S., Jr., to Eaton Mfg. Co. Throttle advance control. 2,870,648, 1-27-59, Cl. 74-472.
- Gill, Andrew S., Jr., to Eaton Mfg. Co. Magnetic clutch. 2,870,888, 1-27-59, Cl. 192-21.5.
- Gill, Andrew S., Jr., to Eaton Mfg. Co. Automatic transmission and control. 2,913,918, 11-24-59, Cl. 74-330.
- Gill, Donald W., to The Frank F. Taylor Co. Tray construction and latching means therefor. 2,875,815, 3-3-59, Cl. 155-127.
- Gill, Donald W., to The Frank F. Taylor Co. Collapsible stroller. 2,917,316, 12-15-59, Cl. 280-41.
- Gill, Douglas, and J. V. Syring, to General Motors Corp. Mechanical movement device. 2,875,630, 3-3-59, Cl. 74-424.8.
- Gill, Earle F.: *See*—  
Frohbach, Harold O., Gill, Marran, and Romano. 2,918,189.
- Gill, Edwin R., Jr. Coated manifold sheets and method of making them. 2,870,040, 1-20-59, Cl. 117-36.
- Gill, Edwin R., Jr. Amflector system. 2,906,884, 9-29-59, Cl. 250-213.
- Gill Electric Mfg. Corp.: *See*—  
Gill, Walter L. 2,894,522.  
Gill, Walter L. 2,894,523.  
Gill, Walter L. 2,894,524.
- Gill, John B. Pipe machining tool. 2,916,955, 12-15-59, Cl. 82-4.
- Gill, John B. Pipe coupling. 2,919,146, 12-29-59, Cl. 285-33.
- Gill, John E., and E. W. Fletcher, to Balfour, Beatty & Co., Ltd., and Andre Rubber Co. Ltd. Spacing devices for overhead wires. 2,915,580, 12-1-59, Cl. 174-43.
- Gill, Joseph, and M. Sackin, to Hagan Chemicals & Controls, Inc. Direct current amplifier. 2,873,320, 2-10-59, Cl. 179-171.



- Gill, Le Roy. Adjustable outlet box. 2,886,630, 5-12-59, Cl. 174-57.
- Gill, Ray H.: *See*—  
Black, Paul F., Gill, and Le Blanc. 2,916,816.
- Gill, Richard H., H. H. Radke, and C. H. Kothheimer, to The B. F. Goodrich Co. Method of removing lactonitrile from aqueous mixtures. 2,868,828, 1-13-59, Cl. 260-465.6.
- Gill, Robert F., Jr.: *See*—  
Dobbs, David L., Gill, and Howes. 2,883,288.  
Dobbs, David L., Gill, and Howes. 2,892,798.
- Gill, Theodore: *See*—  
Taich, Albert, and Gill. 2,902,856.
- Gill, Thomas R.: *See*—  
Singleton, Albert, and Gill. 2,886,505.
- Gill, Walter L., to Gill Electric Mfg. Corp. Vent caps for airplane batteries. 2,894,522, 7-14-59, Cl. 137-43.
- Gill, Walter L., to Gill Electric Mfg. Corp. Automatic vent cap for aircraft storage batteries. 2,894,523, 7-14-59, Cl. 137-43.
- Gill, Walter L., to Gill Electric Mfg. Corp. Safety vent caps. 2,894,524, 7-14-59, Cl. 137-43.
- Gill, William E. Revolving multiple burette support titration unit. 2,904,408, 9-15-59, Cl. 23-259.
- Gillberg, Johannes. Reinforcing bars having depressed portions for use in concrete construction. 2,870,626, 1-27-59, Cl. 72-111.
- Gille, Willis H., to Minneapolis-Honeywell Regulator Co. Electronic integrators. 2,890,334, 6-9-59, Cl. 250-27.
- Gille, Willis H., to Minneapolis-Honeywell Regulator Co. Navigation system. 2,896,204, 7-21-59, Cl. 343-16.
- Gilleard, George, to Curtiss Lighting, Inc. Louver-diffuser. 2,913,576, 11-17-59, Cl. 240-78.
- Gillen, Daniel A., to Admiral Corp. Electrical delay line. 2,916,711, 12-8-59, Cl. 333-31.
- Gillen, William H.: *See*—  
Rowlands, Daniel C. and Gillen. 2,882,287.
- Giller, Robert H. Medical headlight. 2,884,513, 4-28-59, Cl. 240-41.15.
- Gillespie, Daniel C., to Borg-Warner Corp. Clip. 2,873,082, 2-10-59, Cl. 248-300.
- Gillespie, Russell A., 33⅓% to C. F. Spickelmier, 33⅓% to E. S. Greer, and 33⅓% to B. S. Spickelmire. Metal window structure. 2,889,588, 6-9-59, Cl. 20-52.
- Gillespie, Russell A., to Engineering Metal Products Corp. Rotating window weather seal. 2,892,220, 6-30-59, Cl. 20-53.
- Gillespie, Russell A., ⅓ to C. F. Spickelmier, ⅓ to E. S. Greer, and ⅓ to B. S. Spickelmire. Window. 2,896,248, 7-28-59, Cl. 16-196.
- Gillespie, Russell A., 33⅓% each to C. F. Spickelmier, E. S. Greer, and B. S. Spickelmier. Metal window. 2,898,646, 8-11-59, Cl. 20-52.2.
- Gillespie, Russell A., to Engineering Metal Products Corp. Rockable window sash retaining means. 2,902,729, 9-8-59, Cl. 20-53.
- Gillespie, Sidney L., to Woodward Governor Co. Control for controllable pitch marine propellers. 2,878,880, 3-24-59, Cl. 170-135.74.
- Gillespie, William, to Mavor & Coulson Ltd. Coal-cutters having cutter chains driven in tension. 2,898,098, 8-4-59, Cl. 262-30.
- Gillette Co., The: *See*—  
Beauregard, Lawrence G. 2,906,273.  
Beauregard, Lawrence G. 2,906,275.  
Benedict, Michael D., Jr., and Baratelli. 2,874,462.  
Colgate, William H., Jr. 2,913,106.  
Forsberg, Frank. 2,898,254.  
Lerner, Louis L. 2,878,818.  
Lerner, Louis L., and Safianoff. 2,880,914.  
Nissen, Warren I. 2,900,721.  
Schwartz, Anthony M. 2,891,912.  
Sinclair, Robert L. 2,888,223.  
Testi, Nicholas. 2,899,105.
- Gillette, Frank N.: *See*—  
Tull, William J., and Gillette. 2,869,118.
- Gillette, Frank N., and M. Altman, to General Precision Laboratory Inc. Exposure control system. 2,904,694, 9-15-59, Cl. 250-205.
- Gillette, John F. Power weeding machine for row crops. 2,876,851, 3-10-59, Cl. 172-57.
- Gillette, Sidney G., to Los Angeles By-Products Co. Method and apparatus for salvaging metal articles. 2,913,113, 11-17-59, Cl. 209-223.
- Gilliam, George E., to Minneapolis-Honeywell Regulator Co. Program controlling and transmitting apparatus. 2,903,679, 9-8-59, Cl. 340-187.
- Gillies, Duncan M., to Duncan M. Gillies Co., Inc. Engraving apparatus. 2,898,849, 8-11-59, Cl. 101-37.
- Gillies, Duncan M., and C. F. Spencer, to Duncan M. Gillies Co., Inc. Printing apparatus for longitudinally extended cylindrical bodies. 2,898,848, 8-11-59, Cl. 101-36.
- Gillies, Duncan M., Co., Inc.: *See*—  
Gillies, Duncan M. 2,898,849.  
Gillies, Duncan M., and Spencer. 2,898,848.
- Gillin, James, to Merck & Co., Inc. Process for preparing crystalline antibiotic. 2,908,680, 10-13-59, Cl. 260-210.
- Gillis, Malcolm C.: *See*—  
Franey, William R., and Gillis. 2,896,547.
- Gillis, Marvin B., to International Minerals & Chemical Corp. Ruminant feed. Re. 24,707, 9-29-59, Cl. 99-2.
- Gillis, Randall: *See*—  
Bryan, Chester L., and Gillis. 2,882,676.
- Gilliss, Randall G., to American Steel Foundries. Hydraulic forcing device. 2,876,532, 3-10-59, Cl. 29-252.
- Gillitzer, Max: *See*—  
Tajbi, Franz, and Gillitzer. 2,880,376.
- Gillooly, Charles J., Sr. Apparatus for feeding material to water systems. 2,909,187, 10-20-59, Cl. 137-209.
- Gillon, Joseph L., Jr., to E. I. du Pont de Nemours and Co. Photodielectric device and process. 2,870,338, 1-20-59, Cl. 250-83.3.
- Gillum, Donald E., to U.S. Industries, Inc. Anti-friction screw means. 2,891,414, 6-23-59, Cl. 74-459.
- Gillum, Donald E., to U.S. Industries, Inc. Ball bearing, screw jack, pumping mechanism. 2,913,910, 11-24-59, Cl. 74-57.
- Gilman, Ernest I., and M. R. Perla. Clamp device for electrical extension cords. 2,903,669, 9-8-59, Cl. 339-77.
- Gilman, Howard W., and C. G. Devin; said Devin assor. to said Gilman. Marquee construction. 2,908,053, 10-13-59, Cl. 20-57.5.
- Gilman, Marvin A., to Clay-Adams, Inc. Proportion measuring device. 2,900,730, 8-25-59, Cl. 33-125.
- Gilman, Paul B., Jr.: *See*—  
Van der Meulen, Peter A., and Gilman. 2,874,047.
- Gilman, Robert J., to Radio Frequency Laboratories, Inc. Frequency shift discriminator. 2,888,558, 5-26-59, Cl. 250-27.
- Gilman, Samuel: *See*—  
Broekhuysen, William C., Gilman, and Petrucelly. 2,878,997.
- Gilmer, Margaret L.: *See*—  
Bagnall, Edwin. 2,893,723.
- Gilmont, Ernest R., to Food Machinery and Chemical Corp. Crosslinking of polyethylene with novel peroxides. 2,916,481, 12-8-59, Cl. 260-94.9.
- Gilmont, Roger. Analytical electroplating cell. 2,913,375, 11-17-59, Cl. 204-1.
- Gilmore, Chace D. Die attachments for doughnut making machines. 2,882,838, 4-21-59, Cl. 107-14.
- Gilmore, Chace D. Die attachments for doughnut-making machines. 2,915,992, 12-8-59, Cl. 107-14.
- Gilmore, Dale T. Pistol grip electric prod. 2,892,585, 6-30-59, Cl. 251-2.
- Gilmore, Forest F.: *See*—  
Brooke, Jesse M., and Gilmore. 2,917,452.
- Gilmore, Forrest E.: *See*—  
Lee, Henry H., Berger, and Gilmore. 2,905,627.
- Gilmore, Forrest E., to Phillips Petroleum Co. Recovery of hydrocarbons from gases. 2,868,326, 1-13-59, Cl. 183-115.
- Gilmore, Forrest E., to Phillips Petroleum Co. Apparatus and method for flash evaporating oils. 2,868,714, 1-13-59, Cl. 208-48.
- Gilmore, Forrest E., to Phillips Petroleum Co. Solvent extraction method and apparatus. 2,868,723, 1-13-59, Cl. 208-320.
- Gilmore, Forrest E., to Phillips Petroleum Co. Cracking process. 2,870,087, 1-20-59, Cl. 208-166.
- Gilmore, Forrest E., to Phillips Petroleum Co. Volatile liquid storage tanks operation and system. 2,885,109, 5-5-59, Cl. 220-85.
- Gilmore, Forrest E., to Phillips Petroleum Co. Fractionation. 2,900,312, 8-18-59, Cl. 202-160.
- Gilmore, Forrest E., to Phillips Petroleum Co. Catalytic cracking process. 2,900,326, 8-18-59, Cl. 208-101.
- Gilmore, George W. Portable logging spar apparatus. 2,880,827, 4-7-59, Cl. 189-11.
- Gilmore, Gerald D., and J. Decker, to Bopp-Decker Plastics, Inc. Injection molding machine and control mechanism therefor. 2,912,719, 11-17-59, Cl. 18-30.
- Gilmore, John F., to Westinghouse Electric Corp. Fluorescent lamp. 2,901,653, 8-25-59, Cl. 313-109.
- Gilmore, Loren D., and M. G. Mardoian, to International Harvester Co. Starting apparatus for internal combustion engines. 2,912,967, 11-17-59, Cl. 123-179.
- Gilmore, Vincent J., to International Business Machines Corp. Line indicator. 2,897,945, 8-4-59, Cl. 197-189.
- Gilmore, Walter T., Jr. Antenna guy wire anchor. 2,901,198, 8-25-59, Cl. 248-48.2.
- Gilmour, Austin. Child training nursery toilet device. 2,896,567, 7-28-59, Cl. 116-67.
- Gilovich, Paul A., to International Business Machines Corp. Positioning device. 2,873,725, 2-17-59, Cl. 121-86.
- Gilpatrick Construction Co.: *See*—  
Gilpatrick, Mark J. 2,901,288.
- Gilpatrick, Mark J., to Gilpatrick Construction Co. Hopper truck. 2,901,288, 8-25-59, Cl. 298-30.
- Gilruth, Robert R.: *See*—  
Carl, William P., and Gilruth. 2,909,139.  
Carl, William P., and Gilruth. 2,914,014.
- Gils, Adolf, to Otto Suhner Akt. Gardening tool. 2,883,746, 4-28-59, Cl. 30-205.
- Gilson, Joseph H.: *See*—  
Champion, Richard H., and Gilson. 2,917,124.
- Gilson, Joseph H., to General Motors Corp. Power operated convertible top header latch. 2,916,327, 12-8-59, Cl. 296-120.
- Gilson, Paul R., to Burroughs Corp. Magnetic recording and reading systems. 2,916,728, 12-8-59, Cl. 340-174.
- Gimpel, Donald J., to H. S. Nichols. Method and apparatus for presenting three-dimensional representation of voltages. 2,877,457, 3-10-59, Cl. 340-324.



- Gimpel, Donald J., and W. A. Davidson, to Armour Research Foundation of Illinois Institute of Technology. Servomechanism control system. 2,877,398, 3-10-59, Cl. 318-28.
- Gimpel, Donald J., and W. A. Davidson, to United States of America, Navy. Digital converter. 2,918,574, 12-22-59, Cl. 250-27.
- Gimson, Alvin E., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,879,781, 3-31-59, Cl. 137-85.
- Gimson, Alvin E., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,906,837, 9-29-59, Cl. 200-90.
- Ginaven, Marvin E.: *See*—
- Shouvlín, Joseph C., and Ginaven. 2,893,909.
- Gindes, Philip, and J. S. Linn, to Genisco, Inc. Accelerometer. 2,870,422, 1-20-59, Cl. 336-30.
- Gindoff, Sol: *See*—
- McCollum, Louis S., and Gindoff. 2,902,379.
- Gindre, Andre M., to Paillard S.A. Stand for cameras and the like. 2,890,902, 6-16-59, Cl. 287-54.
- Gines, Ronald B., and H. J. Twitchett, to Imperial Chemical Industries Ltd. New pigments. 2,888,416, 5-26-59, Cl. 260-16.
- Gineta, Lucino. Games of skill. 2,914,327, 11-24-59, Cl. 273-126.
- Ginger, Leonard G.: *See*—
- Anthony, Paul Z., and Ginger. 2,889,364.
- Ginger, Leonard G., and P. Z. Anthony, to Baxter Laboratories, Inc. Process for producing thyroxine. 2,889,363, 6-2-59, Cl. 260-519.
- Gingerich, Edna S.: *See*—
- Gingerich, Edward and E. S. 2,914,164.
- Gingerich, Edward and E. S. Auto utility tray. 2,914,164, 11-24-59, Cl. 206-19.5.
- Gingher, Carl E., and Carl E. Gingher, Jr., to Gingher Mfg. Co. Wardrobe rack. 2,875,904, 3-3-59, Cl. 211-148.
- Gingher, Carl E., and Carl E. Gingher, Jr., to Gingher Mfg. Co. Folding portable rack. 2,901,124, 8-25-59, Cl. 211-149.
- Gingher, Carl E., and Carl E. Gingher, Jr., to Gingher Mfg. Co. Wardrobe rack. 2,911,105, 11-3-59, Cl. 211-62.
- Gingher, Carl E., Jr.: *See*—
- Gingher, Carl E., and Carl E. Gingher, Jr. 2,875,904.
- Gingher, Carl E., and Carl E. Gingher, Jr. 2,901,124.
- Gingher, Carl E., and Carl E. Gingher, Jr. 2,911,105.
- Gingher Mfg. Co.: *See*—
- Gingher, Carl E., and Carl E. Gingher, Jr. 2,875,904.
- Gingher, Carl E., and Carl E. Gingher, Jr. 2,901,124.
- Gingher, Carl E., and Carl E. Gingher, Jr. 2,911,105.
- Gingras, Marcel, to Dominion Corset Co. Ltd. Brassieres. 2,887,113, 5-19-59, Cl. 128-491.
- Gingras, Robert A.: *See*—
- Retzer, Theodore C., and Gingras. 2,876,377.
- Gingrich, Wilmer J., to Hamilton Watch Co. Epoxy resin cast balance wheel. 2,894,367, 7-14-59, Cl. 58-28.
- Ginn, Earl, to Continental Motors Corp. Planetary bevel gear reversing transmission. 2,912,885, 11-17-59, Cl. 74-780.
- Ginn, Earl, to Continental Motors Corp. Engine cooling system. 2,912,936, 11-17-59, Cl. 103-87.
- Ginsburg, Abraham. Hypodermic needle. 2,899,959, 8-18-59, Cl. 128-221.
- Ginsburg, Abraham. Hypodermic needle. 2,899,960, 8-18-59, Cl. 128-221.
- Ginsburg, Charles P., and S. F. Henderson, Jr., to Ampex Corp. Recording and reproducing system. 2,916,547, 12-8-59, Cl. 178-6.6.
- Ginsburg, Charles P., and R. M. Dolby, to Ampex Corp. Visual image recording and reproducing system and method. 2,916,564, 12-8-59, Cl. 178-6.6.
- Ginsburg, Victor. Apparatus for the collection of fractions. 2,884,021, 4-28-59, Cl. 141-35.
- Ginté, Philip G., to Liftronic, Inc. Garage door actuating device. 2,882,044, 4-14-59, Cl. 268-59.
- Ginther, Roger E., to Tilt-A-Door Corp. Horizontally pivoted window. 2,881,483, 4-14-59, Cl. 20-53.
- Ginwright, Victor M., to Vanity Fair Mills, Inc. Thread severing structure for sewing machines. 2,918,887, 12-29-59, Cl. 112-252.
- Ginton, Edward L., to The Board of Trustees of the Leland Stanford Jr. University. Linear accelerator. 2,899,598, 8-11-59, Cl. 315-3.6.
- Gioia, Guido: *See*—
- Weitnauer, Gustavo A., Gioia, and Caporali. 2,872,375.
- Gioia, Michael C.: *See*—
- Weiskopf, Edwin C., and Gioia. 2,868,072.
- Giolito, Silvio L.: *See*—
- Gilbert, Everett E., and Giolito. Re. 24,749.
- Giordana, Andrew N. Television program indicator. 2,918,036, 12-22-59, Cl. 116-133.
- Giordano, Anthony, and W. J. Straka, to The Harshaw Chemical Co. Mildewicide and flameproofing composition and products produced therefrom. 2,881,097, 4-7-59, Cl. 117-137.
- Giordano, Francis L. Hair curlers. 2,906,274, 9-29-59, Cl. 132-34.
- Giori, Francis A., to United States of America, Navy. Commutator device and time interval selector. 2,892,106, 6-23-59, Cl. 307-132.
- Giovagnoli, Paul S. Baseball pitching machine. 2,877,757, 3-17-59, Cl. 124-7.
- Giovannelli, Raymond R. Portable carry-all cart. 2,905,480, 9-22-59, Cl. 280-34.
- Gips, Arthur A.: *See*—
- De Keizer, Adrianus, van Kijk, and Gips. 2,870,229.
- Gipslis, Peter,  $\frac{1}{2}$  to E. Heuchert. Wick inserting instrument. 2,902,849, 9-8-59, Cl. 67-67.
- Gipstein, Edward: *See*—
- Clark, Benjamin F., Gipstein, Higgins, and Kippur. 2,918,498.
- Clark, Benjamin F., Gipstein, Higgins, and Kippur. 2,919,291.
- Giraitis, Albert P., to Ethyl Corp. Method of making metal halides. 2,868,621, 1-13-59, Cl. 23-87.
- Giraldi, Pier N., and W. Logemann, to Carlo Erba S.p.A. Process for the preparation of tertiary esters of benzoyl-carbinol. 2,892,865, 6-30-59, Cl. 260-488.
- Girard, Jean R. M.: *See*—
- Fourès, André G. F., Girard, and De Montard. 2,867,209.
- Girard, Joseph O. Tool maker's square. 2,881,526, 4-14-59, Cl. 33-112.
- Girard, Theodore A., and D. K. Klein, to Heyden Newport Chemical Corp. Trichlorobenzene compounds and their production. 2,899,465, 8-11-59, Cl. 260-523.
- Girardi, Antonio L. Fruit harvesting mechanism. 2,902,142, 9-1-59, Cl. 198-139.
- Girardot, Peter R., and R. R. Walters, to Callery Chemical Co. Production of complexes of boron trifluoride. 2,906,771, 9-29-59, Cl. 260-462.
- Giraud, Pierre: *See*—
- Boulet, François, Dufour, and Giraud. 2,890,361.
- Girault, Pierre: *See*—
- Allais, Andre, and Girault. 2,885,437.
- Giravions Dorand: *See*—
- Dorand, René. 2,911,151.
- Girden, Barney B. Swimming mask with snorkel means. 2,888,010, 5-26-59, Cl. 128-142.
- Girden, Barney B. Swimming face mask with periscope. 2,909,959, 10-27-59, Cl. 88-1.
- Girdwood, Arthur J., and E. W. Shifflett, to Leland Electric Canada Ltd. External rotor motor fan assembly. 2,895,666, 7-21-59, Cl. 230-117.
- Giri de Teramala, Piero M. Mechanically propelled or mechanically driven apparatus. 2,871,725, 2-3-59, Cl. 74-677.
- Girling, Douglas S.: *See*—
- Barnard, Roy M., Girling, and Judd. 2,903,780.
- Girling Ltd.: *See*—
- Davis, John W. 2,915,147.
- Davis, John W. 2,918,990.
- Girodet, Henri M. Attaching buckle for underwear. 2,901,801, 9-1-59, Cl. 24-200.
- Girouard, Philias H.: *See*—
- Chadwick, George A., and Girouard. 2,881,664.
- Girouard, Philias H., G. L. Schuyler, and M. H. Baller, to United States of America, Navy. Projectile launcher. 2,870,678, 1-27-59, Cl. 89-1.7.
- Giroud, Marcel, to Manufacture des Montres Doxa S.A. Regulator system for a timepiece. 2,896,399, 7-28-59, Cl. 58-113.
- Girton Mfg. Co., Inc.: *See*—
- Girton, Paul K., and Evans. 2,875,590.
- Girton, Paul K., and Evans. 2,875,591.
- Welliver, John. 2,912,096.
- Girton, Paul K., and D. L. Evans, to Girton Mfg. Co., Inc. Equipment and process for attemping, storing, and weighing. 2,875,590, 3-3-59, Cl. 62-98.
- Girton, Paul K., and D. L. Evans, to Girton Mfg. Co., Inc. Apparatus and method for attemping, storing, and weighing. 2,875,591, 3-3-59, Cl. 62-98.
- Giser, Samuel, to Research Corp. Electronic multiplier. 2,900,137, 8-18-59, Cl. 235-194.
- Gisholt Machine Co.: *See*—
- Eddison, William B. 2,903,156.
- Eddison, William B., and Erickson. 2,890,558.
- Eddison, William B., and Erickson. 2,909,017.
- Erickson, Warren E. 2,873,842.
- Fibikar, Robert J. 2,891,241.
- Hogan, John W. 2,891,115.
- Leifer, Lorenz A. 2,869,390.
- Leifer, Lorenz A. 2,882,760.
- Sundt, Vigo von K. 2,902,873.
- Sundt, Vigo von K. 2,902,874.
- Sundt, Vigo von K., and Steinhauer. 2,903,234.
- Trechsl, Hans W. 2,902,889.
- Giskes, Willem, to North American Philips Co., Inc. Phonograph turntable. 2,915,907, 12-8-59, Cl. 74-216.
- Gislason, Wilbur W. Door stop. 2,898,140, 8-4-59, Cl. 292-342.
- Gislon, Andre, J. Quiquerez, and J. D. Maurin, to Compagnie Francaise de Raffinage Societe Anonyme. Process for the sweetening of petroleum products. 2,886,521, 5-12-59, Cl. 208-197.
- Gislon, André, and E. J. Weisang, to Compagnie Francaise de Raffinage. Process for the oxidation of mercaptans in the presence of alkali and sulfur dye. 2,897,140, 7-28-59, Cl. 208-204.
- Gislon, André, and R. L. Putters, to Compagnie Francaise de Raffinage. Purification processes for sulphurized products extracted from petroleum. 2,911,413, 11-3-59, Cl. 260-327.
- Gisser, David G., and L. P. Seifert, to Lehigh, Inc. Vending machine. 2,896,763, 7-28-59, Cl. 194-4.
- Gist, Fred M. Casing scratcher. 2,868,298, 1-13-59, Cl. 166-173.



- Gist, Fred M. Well bore scratcher. 2,868,299, 1-13-59, Cl. 166-173.
- Gist, Fred M. Cable clip. 2,875,489, 3-3-59, Cl. 24-115.
- Githens, Earl B., to Cabinet Top Industries. Corner construction and method of forming same. 2,867,864, 1-13-59, Cl. 20-92.
- Githens, John A., to Bell Telephone Laboratories, Inc. Data processing apparatus. 2,874,313, 2-17-59, Cl. 307-88.5.
- Gits Bros. Mfg. Co.: See—
- Jensen, Hans. 2,889,159.
- Wahl, Edward C. 2,881,015.
- Gits, Joseph A.: See—
- Gits, Jules P. 2,899,098.
- Gits, Jules P.,  $\frac{1}{2}$  to J. A. Gits. Drinking vessels. 2,899,098, 8-11-59, Cl. 220-15.
- Gittinger, Ted, J. S. Roberts, and C. J. Ott. Bearing greaser assembly. 2,886,132, 5-12-59, Cl. 184-1.
- Gittler, Max: See—
- Lawson, Axel A., Hazel, Gary, and Gittler. 2,904,785.
- Gitto, Joseph J., to Sprague Electric Co. Plating process. 2,897,409, 7-28-59, Cl. 317-101.
- Gitzendanner, Louis G., to General Electric Co. Quality control sequential analyzer. 2,893,635, 7-7-59, Cl. 235-168.
- Gluffrida, Phillip, to Electronics Corp. of America. Mounting devices for electron tubes and associated circuit components. 2,877,438, 3-10-59, Cl. 339-125.
- Gluffrida, Phillip, to Electronics Corp. of America. Illumination control. 2,905,862, 9-22-59, Cl. 315-153.
- Giulianelli, Raoul M.: See—
- Harris, Herbert, Jr., Hammond, White, and Giulianelli. 2,873,074.
- Giuliano, Fred A. Coin control apparatus for dispensing and recovering reusable articles. 2,887,204, 5-19-59, Cl. 194-4.
- Giusti, Gino P.: See—
- Eads, David K., and Giusti. 2,872,294.
- Giusti, Gino P., and A. R. Johnson, to Texas Gulf Sulphur Co. Method of fluidization. 2,870,001, 1-20-59, Cl. 75-9.
- Givaudan Corp., The: See—
- Carpenter, Marion S., and Easter. 2,875,131.
- Carpenter, Marion S., Easter, and Wood. 2,897,237.
- Carpenter, Marion S., Easter, and Wood. 2,915,561.
- Fiore, Alphonse T., Kitchens, and Saunders. 2,889,254.
- Wood, Thomas F. 2,918,412.
- Given Machinery Co.: See—
- Jordan, Hans. 2,879,949.
- Jordan, Hans. 2,912,176.
- Givens, Glenn G. Cable stuffing tubes. 2,913,260, 11-17-59, Cl. 285-158.
- Givens, Richard C.: See—
- Gilliland, Melvin E., and Givens. 2,918,429.
- Gilliland, Melvin E., Givens, and Massin. 2,918,430.
- Givens, Richard C., and H. J. Pitman, to The Texas Co. Method of grease manufacture with combined oil quench and recycle cooling. 2,876,198, 3-3-59, Cl. 252-41.
- Givens, Richard C., and H. J. Pitman, to Texaco Inc. Method for preparing lithium base greases involving quenching. 2,916,452, 12-8-59, Cl. 252-41.
- Giwosky, Harry L., to David White Co. Comparator for superimposing image of a grid on the image of an object. 2,911,879, 11-10-59, Cl. 88-14.
- Gjerde, Borgtor. Tooth cleaning device. 2,873,749, 2-17-59, Cl. 132-91.
- Glab, William T., to Carado Inc. Methods of making a lignocellulose product and the product resulting therefrom. 2,872,330, 2-3-59, Cl. 106-163.
- Glab, Elmer F., to Bred-Ade Corp. Baking compositions and methods. 2,875,064, 2-24-59, Cl. 99-91.
- Glaberson, Martin, to Eversharp, Inc. Counter display device. 2,914,192, 11-24-59, Cl. 211-178.
- Glacy, Frank J.: See—
- Stromberg, Henry K. 2,881,846.
- Glad, Monroe J. Illuminated license plate. 2,875,539, 3-3-59, Cl. 40-133.
- Gladding, Edward K., and F. B. Stilmar, to E. I. du Pont de Nemours and Co. Process for curing liquid urethane polymers. 2,917,489, 12-15-59, Cl. 260-77.5.
- Gladding, McBean & Co.: See—
- Filsinger, Elmer J. 2,892,337.
- Stahmann, John A. 2,904,916.
- Gladrow, Elroy M.: See—
- Hunter, Edward A., and Gladrow. 2,873,257.
- Gladrow, Elroy M., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Preparation of attrition resistant alumina for use as a catalyst support in a hydrocarbon conversion process. 2,905,632, 9-22-59, Cl. 208-136.
- Gladson, David and L. Adjustable support for post-mounted lamps. 2,915,270, 12-1-59, Cl. 248-177.
- Gladson, Lester: See—
- Gladson, David and L. 2,915,270.
- Gladstone, Martell M.: See—
- Epstein, Solomon, Fuchs and Gladstone. 2,874,126.
- Gladwell, Daniel, to The Selwyn Press Ltd. Machine for applying powders to printed sheets. 2,906,240, 9-29-59, Cl. 118-641.
- Glamann, Wilhelm. Devices for varying the power and drive of internal combustion engine vehicles. 2,880,571, 4-7-59, Cl. 60-13.
- Glamann, Wilhelm. Driving mechanism for an engine controlled braking system for automotive vehicles. 2,885,907, 5-12-59, Cl. 74-665.
- Glamann, Arthur C.: See—
- Niedrach, Leonard W., and Glamm. 2,902,415.
- Glandon, Adrian E., to Eastman Kodak Co. Lamp burnout detector. 2,896,121, 7-21-59, Cl. 315-119.
- Glaner, Louis O. Paper roll holder. 2,876,960, 3-10-59, Cl. 242-55.3.
- Glanz, George. Elevating device for garbage trucks. 2,908,410, 10-13-59, Cl. 214-302.
- Glanz, Samuel R. Hand operated toy car. 2,869,686, 1-20-59, Cl. 188-109.
- Glanzstoff-Courtaulds G.m.b.H.: See—
- Domke, Richard, and Eikermann. 2,914,803.
- Glasbau Heinrich Hahn: See—
- Hahn, Otto. 2,907,078.
- Glasberg, Myer M., to American Stay Co. Article for use in a suspended position. 2,874,963, 2-24-59, Cl. 272-78.
- Glasbrenner, Frederick K., and W. E. Lyons, to General Electric Co. Flow meter. 2,897,672, 8-4-59, Cl. 73-228.
- Glasby, J. P., Mfg. Co., Inc.: See—
- Glasby, Jonathan P., Jr., Palmer, and Pendleton. 2,889-846.
- Glasby, Jonathan P., Jr., Palmer, and Pendleton. 2,913,120.
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- Glasby, Jonathan P., Jr., L. Palmer, Jr., and F. P. Pendleton, to J. P. Glasby Mfg. Co., Inc. Vacuum operated apparatus for moving fluid material. 2,913,120, 11-17-59, Cl. 210-416.
- Glascock Brothers Mfg. Co.: See—
- Reburn, Charles E. 2,914,631.
- Glaser Bros.: See—
- Seidman, Louis. 2,911,124.
- Glaser, David W., to General Mills, Inc. Thermosetting coating compositions. 2,880,194, 3-31-59, Cl. 260-47.
- Glaser, Hermann: See—
- Sennewald, Kurt, Pohl, Vogt, Meininger, Meyer, Glaser, and Steil. 2,918,141.
- Glaser, Jules. Packing box, in particular for eggs. 2,887,265, 5-19-59, Cl. 229-28.
- Glaser, Philip S. Packages for coat hangers. 2,909,279, 10-20-59, Cl. 206-65.
- Glaser, Rolf, to Starrfrasmachines A.G. Automatically operated profile milling machine. 2,899,868, 8-18-59, Cl. 90-13.1.
- Glaser-Steers Corp.: See—
- Jensen, Theodore. 2,897,390.
- Steers, William F. 2,880,343.
- Glaser, Walter, to Farrand Optical Co., Inc. Imaging apparatus. 2,906,879, 9-29-59, Cl. 250-49.5.
- Glaser, Walter, to Farrand Optical Co., Inc. Electron lens. 2,919,381, 12-29-59, Cl. 315-31.
- Glasgow, Clarence O., to National Tank Co. Oil and gas separators. 2,903,087, 9-8-59, Cl. 183-2.7.
- Glashaw, Alfred M., deceased; by F. A. Marshall, administrator. Tool for opening antenna stand-offs. 2,883,896, 4-28-59, Cl. 81-15.
- Glass, Ann T.: See—
- Glass, Thomas A. 2,892,464.
- Glass Containers (Medical) Ltd.: See—
- Shaw, George S. 2,896,807.
- Glass, Eugene D.: See—
- Campion, Frank E., Glass, and Morse. 2,901,043.
- Glass, Floyd M.: See—
- Wilson, Hubert N., and Glass. 2,874,305.
- Glass, Frank E., Jr. Sash balance. 2,885,725, 5-12-59, Cl. 16-197.
- Glass, Harry H.: See—
- Glass, Thomas A. 2,892,464.
- Glass, Henry P. Reclining chairs employing movable back and leg rests. 2,907,374, 10-6-59, Cl. 155-106.
- Glass, Lawrence N.: See—
- Sampson, Darwin L., Glass, and Richardson. 2,914,302.
- Glass, Marvin I.: See—
- Avala, Carl. 2,886,316.
- Pearson, Charles, Jr., and Licitis. 2,875,881.
- Glass, Marvin I. Toy figure. 2,881,559, 4-14-59, Cl. 46-104.
- Glass, Marvin I. Land and water toy. 2,900,758, 8-25-59, Cl. 46-92.
- Glass, Marvin I. Electrically driven wheeled figure toy. 2,909,001, 10-20-59, Cl. 46-247.
- Glass, Marvin I., and C. Pearson, Jr. Toy device which simulates the actions of a radarscope. 2,886,919, 5-19-59, Cl. 46-227.
- Glass, Marvin I., and C. Pearson, Jr. Remotely controlled toy vehicle. 2,896,367, 7-28-59, Cl. 46-40.
- Glass, Robert T. Air-freeze machine. 2,887,855, 5-26-59, Cl. 62-380.
- Glass, Robert T. Confection machines. 2,892,423, 6-30-59, Cl. 107-8.
- Glass, Robert T. Continuously moving apparatus for withdrawing frozen confection from molds. 2,894,652, 7-14-59, Cl. 214-300.
- Glass, Robert T. Conveyor-type apparatus for defrosting frozen confections and removing them from molds. 2,911,121, 11-3-59, Cl. 214-300.



- Glass, Roger L. Submersible thermometer and supporting means therefor. 2,902,860, 9-8-59, Cl. 73-343.
- Glass, Thomas A., deceased; A. T. Glass, executrix;  $\frac{1}{2}$  to H. H. Glass. Back flow preventer. 2,892,464, 6-30-59, Cl. 137-116.
- Glass, William H., and F. W. Shirey, to Westinghouse Air Brake Co. Air compressor. 2,875,850, 3-3-59, Cl. 184-6.
- Glassanos, Andrew, to General Electric Co. Winding for electrical apparatus. 2,873,432, 2-10-59, Cl. 336-192.
- Glassbrook, Clarence I., and T. D. Parks, to Ethyl Corp. Method of analyzing benzene hexachloride and apparatus therefor. 2,896,158, 7-21-59, Cl. 324-61.
- Glassburn, William E., to Westinghouse Electric Corp. Electrical protective apparatus. 2,909,708, 10-20-59, Cl. 317-23.
- Glassey, Courtney Q. Horn for loudspeaker. 2,871,972, 2-3-59, Cl. 181-31.
- Glassford, Donald C.: See—  
Clellan, William M., Wilson, and Glassford. 2,915,892.
- Glassie, Don C.: See—  
Price, Edgar E. 2,895,374.
- Glassman, Louis H., R. E. Kemelhor, and K. E. Schuessler. Explosive bolt type store suspension system for aircraft. 2,889,746, 6-9-59, Cl. 89-1.5.
- Glassow, Franklin A., to Barber-Colman Co. Relay armature mounting. 2,882,461, 4-14-59, Cl. 317-198.
- Glasspar Co.: See—  
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- Glasspole, Frank S. Tube and rolling machine. 2,917,101, 12-15-59, Cl. 153-81.
- Glastrusions, Inc.: See—  
Goldsworthy, William B., and Landgraf. 2,871,911.
- Glatt, Herbert: See—  
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- Glauber, Emil G.: See—  
Costa, Joseph L., Glauber, Morse, Politzer, and Sixthor. 2,890,865.
- Glaubke, Allen F., and J. J. Scott, to Western Electric Co. Inc. Devices for forming articles. 2,884,683, 5-5-59, Cl. 29-11.
- Glave, Glenn F. Adjustable trunk lid lash. 2,908,522, 10-13-59, Cl. 292-288.
- Glaxo Laboratories Ltd.: See—  
Hunt, John S., Long, and Mooney. 2,880,218.  
Jones, Ewart R. H., and Henbest. 2,910,471.  
Jones, Ewart R. H., Henbest, Woods, Hathway, and Thomas. 2,897,213.  
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Muggleton, Peter W., and Ungar. 2,908,614.
- Glazer, Walter S., to Radio Corp. of America. Low pass speech amplifier. 2,901,559, 8-25-59, Cl. 179-171.
- Glaze, Tom H., and W. C. Shaver, to Gordy Air-Less Spray Co. Liquid spraying apparatus. 2,908,247, 10-13-59, Cl. 118-320.
- Glazer, Irving D., to Dura Pak Corp. Bottle carrier. 2,871,055, 1-27-59, Cl. 294-87.2.
- Glazier, Robert C., and G. Zickler, to Friden, Inc. Coil winding method and apparatus. 2,873,924, 2-17-59, Cl. 242-13.
- Glazier, Robert C., and G. Zickler, to Friden, Inc. Coil winding method and apparatus. 2,874,318, 2-17-59, Cl. 310-260.
- Gleason, Hollis K., to Bendix Aviation Corp. Two-speed coaster, hub brake for velocipedes and the like. 2,882,754, 4-21-59, Cl. 74-750.
- Gleason, Hollis K., to Bendix Aviation Corp. Two-speed gear and hub brake for velocipedes or the like. 2,882,755, 4-21-59, Cl. 74-750.
- Gleason, Hollis K., to Bendix Aviation Corp. Hub brakes for velocipedes and the like. 2,903,107, 9-8-59, Cl. 192-6.
- Gleason, Hollis K., to Bendix Aviation Corp. Semi-automatic two-speed gear drive for velocipedes or the like. 2,903,913, 9-15-59, Cl. 74-750.
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- Gleason, Hollis K., to Bendix Aviation Corp. Semi-automatic two-speed hub and brake for bicycles. 2,914,152, 11-24-59, Cl. 192-6.
- Gleason, Anthony H., to Esso Research and Engineering Co. Process of curing butadiene polymers in the presence of a hydrocarbon diluent and *t*-tertiary butyl peroxide. 2,880,190, 3-31-59, Cl. 260-33.6.
- Gleason, Francis L. Snap-action electric switch. 2,868,914, 1-13-59, Cl. 200-68.
- Gleason, Glen L.: See—  
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- Gleason, Howard S.: See—  
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- Gleason, Howard S., to General Dynamics Corp. Recorder. 2,867,435, 1-6-59, Cl. 271-2.1.
- Gleason, Joseph P., to General Electric Co. Range tracking system. 2,886,810, 5-12-59, Cl. 343-7.3.
- Gleason, Joseph P., to United States of America, Navy. Selective signal alarm circuit. 2,891,198, 6-16-59, Cl. 317-142.
- Gleason, Willard S., Jr., and J. W. Sprauer, to E. I. du Pont de Nemours and Co. Hydrogenation of alkylanthraquinones. 2,867,507, 1-6-59, Cl. 23-207.
- Gleason, William W., to Nachman Corp. Spring unit for cribs and the like. 2,889,562, 6-9-59, Cl. 5-248.
- Gleason Works, The: See—  
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Dammert, Earl D., and White. 2,874,952.
- Gleeson, John D., and L. R. Beard, to Deere & Co. Control mechanism. 2,900,836, 8-25-59, Cl. 74-469.
- Gleeson, Murray A., to Goodman Mfg. Co. Single strand supported endless belt conveyor. 2,907,448, 10-6-59, Cl. 198-192.
- Gleeson, William S., and E. W. Stevens, to Thompson Ramo Wooldridge Inc. Dampening fluid. 2,907,310, 10-6-59, Cl. 123-90.
- Glegg, Douglas. One-piece double check valve. 2,888,034, 5-26-59, Cl. 137-512.4.
- Gleichauf, Paul H., to General Electric Co. Cathode ray tube structure including combined electrostatic and magnetic convergence system. 2,907,915, 10-6-59, Cl. 315-13.
- Gleim, William K. T.: See—  
Massey, Lester G., and Gleim. 2,914,385.
- Gleim, William K. T., to Universal Oil Products Co. Stabilization of organic compounds. 2,870,021, 1-20-59, Cl. 99-163.
- Gleim, William K. T., to Universal Oil Products Co. Antioxidation of rubber with 2,6 dialkoxy-4-allyl phenol. 2,888,502, 5-26-59, Cl. 260-757.
- Gleim, William K. T., to Universal Oil Products Co. Manufacture of lubricating oil. 2,905,624, 9-22-59, Cl. 208-89.
- Gleim, William K. T., to Universal Oil Products Co. Methylation of hydroxyaromatic compounds. 2,909,568, 10-20-59, Cl. 260-613.
- Gleim, William K. T., to Universal Oil Products Co. Treatment of lubricating oil fractions with a solvent for the polycyclic constituents. 2,914,473, 11-24-59, Cl. 208-334.
- Gleim, William K. T., and P. Urban, to Universal Oil Products Co. Process for sweetening sour hydrocarbon distillates with metal phthalocyanine catalyst in the presence of alkali and air. 2,882,224, 4-14-59, Cl. 208-206.
- Gleitsman, Harold, to Gleitsman's, Inc. Adjustable ottoman. 2,869,620, 1-20-59, Cl. 155-169.
- Gleitsman, Harold. Tubular furniture. 2,869,902, 1-20-59, Cl. 287-54.
- Gleitsman, Harold. Hampers. 2,872,268, 2-3-59, Cl. 312-280.
- Gleitsman, Harold, and C. Fuerst, to Gleitsman's, Inc. Adjustable ottoman. 2,907,375, 10-6-59, Cl. 155-169.
- Gleitsman's, Inc.: See—  
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- Glen-Gery Shale Brick Corp.: See—  
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- Glenn, Arthur J., to United States of America, Navy. Transistor mono-stable sweep generator. 2,903,603, 9-8-59, Cl. 307-88.5.
- Glenn, Edward R. Fuel injecting apparatus. 2,898,901, 8-11-59, Cl. 123-139.
- Glenn, George G., and W. W. Gibson, to Glenn Pacific Power Supply Corp. Wide range power supply system for welding equipment. 2,909,647, 10-20-59, Cl. 219-131.
- Glenn, George G., and W. W. Gibson, to Glenn Pacific Power Supply Corp. Welding system. 2,913,618, 11-17-59, Cl. 314-74.
- Glenn Pacific Power Supply Corp.: See—  
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Glenn, George G., and Gibson. 2,913,618.
- Glenn, Robert G., to United States of America, Navy. Afterburner exhaust nozzle variable area. 2,870,602, 1-27-59, Cl. 60-35.6.
- Glenn, William E., to General Electric Co. Cathode ray reproduction tube having auxiliary function of synchronizing signal separation. 2,867,687, 1-6-59, Cl. 178-7.5.
- Glenn, William E., to General Electric Co. Transducer. 2,910,545, 10-27-59, Cl. 179-110.
- Glenn, William E., Jr., to General Electric Co. Color information presenting system. 2,919,302, 12-29-59, Cl. 178-5.4.
- Glennay, Julius G., to The Texas Co. Removal of deposits such as paraffin from oil lines by use of soluble candy plug. 2,876,145, 3-3-59, Cl. 134-8.
- Glennon, James B., R. H. Park, W. R. Maltby, and C. A. Hobbs. Mine firing mechanism. 2,881,702, 4-14-59, Cl. 102-18.
- Glennon, James B., E. Root III, R. H. Park, and E. S. Gillfillan. Mine firing mechanism. 2,892,403, 6-30-59, Cl. 102-18.
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- Glenny, Arthur P., to The Sperry Gyroscope Co. Ltd. Gyroscopic apparatus. 2,891,407, 6-23-59, Cl. 74-5.1.



- Glenny, Arthur P., and F. Dove, to The Sperry Gyroscope Co., Ltd. Failure warning systems for navigational apparatus. 2,890,442, 6-9-59, Cl. 340-253.
- Glenny, Clarence S., to The Washburn Co. Bicycle basket. Re. 24,656, 6-9-59, Cl. 224-36.
- Glenny, Clarence S., to The Washburn Co. Bicycle baskets. 2,889,096, 6-2-59, Cl. 224-36.
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- Glenny, Clarence S., to The Washburn Co. Hamburger press. 2,892,211, 6-30-59, Cl. 17-32.
- Glenny, Clarence S., to The Washburn Co. Spit basket. 2,895,408, 7-21-59, Cl. 99-427.
- Glenon Industries, Inc.: See—  
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- Glenz, Karl: See—  
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- Glessner, Lee S. Extension ladder. 2,880,920, 4-7-59, Cl. 228-21.
- Gley, Paul R. Missile launching device. 2,916,231, 12-8-59, Cl. 244-63.
- Glick, Herbert S., A. Hertzberg, W. Squire, and R. Weatherston, to Cornell Aeronautical Laboratory, Inc. Process for heating and cooling gases and apparatus therefor. 2,902,337, 9-1-59, Cl. 23-1.
- Glickman, Lester M.: See—  
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- Glickman, Samuel A., to General Aniline & Film Corp. Stabilization of polymeric N-vinyl pyrrolidones with sulfurous acid or alkali metal salts thereof. 2,872,433, 2-3-59, Cl. 260-45.7.
- Glickman, Sol. Twin sole press. 2,877,474, 3-17-59, Cl. 12-36.
- Glicksman, Richard: See—  
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- Glicksman, Richard, and C. K. Morehouse, to Radio Corp. of America. Primary cells. 2,897,249, 7-28-59, Cl. 136-102.
- Glickston, Samuel W. Swab applicator. 2,876,501, 3-10-59, Cl. 19-149.
- Glidden Co., The: See—  
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- Glidden, Harold A. Wall structure and form unit therefor. 2,887,868, 5-26-59, Cl. 72-30.
- Glide Easy Mfg.: See—  
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- Glinka, Carl. Method for extraction of oil from oil-containing minerals. 2,881,126, 4-7-59, Cl. 208-11.
- Glintz, Georgia E. Toy shooter. 2,891,795, 6-23-59, Cl. 273-129.
- Glintz, Georgia E. Cushion hair dryer. 2,913,833, 11-24-59, Cl. 34-97.
- Gliss, George E., to Western Electric Co., Inc. Methods of and apparatus for coating articles. 2,885,777, 5-12-59, Cl. 29-528.
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- Globe Ticket Co.: See—  
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- Gloeckner, Frederick, to The Winchell Co. Article demonstration device. 2,882,619, 4-21-59, Cl. 35-51.
- Gloess, Paul F. M.: See—  
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- Glomb, Walter L., to International Telephone and Telegraph Corp. Time delay circuit. 2,894,153, 7-7-59, Cl. 307-106.
- Glomb, Walter L., to International Telephone and Telegraph Corp. Synchronized oscillators. 2,903,650, 9-8-59, Cl. 331-56.
- Glore, Robert F., O. M. Hovgaard, and G. E. Perreault, to Bell Telephone Laboratories, Inc. Relay. 2,889,424, 6-2-59, Cl. 200-87.
- Gloss, Frithie: See—  
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- Gloss, Gunter H.: See—  
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- Gloss, Gunter H., to International Minerals & Chemical Corp. Activation of lime. 2,869,988, 1-20-59, Cl. 23-186.
- Gloss, Gunter H., to International Minerals & Chemical Corp. Preparation of alkali metal phosphates. 2,874,027, 2-17-59, Cl. 23-107.
- Gloss, Gunter H., to International Minerals & Chemical Corp. Process of producing alkali metal fluozirconates. 2,888,319, 5-26-59, Cl. 23-16.
- Gloss, Gunter H., deceased (by F. Gloss, administrator), to International Minerals & Chemical Corp. Granular fertilizer and process of producing same. 2,912,317, 11-10-59, Cl. 71-24.
- Gloss, Gunter H., and W. J. McGinnis, to International Minerals & Chemical Corp. Production of potassium carbonate. 2,903,336, 9-8-59, Cl. 23-33.
- Gloss, Gunter H., deceased (F. Gloss, administrator), and R. Ittlinger, to International Minerals & Chemical Corp. Decolorizing clays. 2,903,434, 9-8-59, Cl. 252-441.
- Glover, Anthony D. Homemaking unit. 2,875,009, 2-24-59, Cl. 312-29.
- Glover, Anthony D. Clip for holding spectacles or the like. 2,884,219, 4-28-59, Cl. 243-305.
- Glover, Bertram W.: See—  
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- Glover, Clarence C.: See—  
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- Glover, Earl W.: See—  
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- Glover, Harold G.: See—  
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- Glover, James B., and G. O. Peters. Device for snubbing wheel suspension structure to vehicle frame. 2,878,031, 3-17-59, Cl. 280-150.
- Glover, Jess A. Three size yard broom. 2,904,951, 9-22-59, Cl. 56-400.18.
- Glover, John E. Safety pin. 2,873,500, 2-17-59, Cl. 24-161.
- Glover, Wilfrid, to British Tyre & Rubber Co. Ltd. Friction material. 2,867,125, 1-6-59, Cl. 74-230.7.
- Glover, William S., J. F. West, P. A. Roush, and A. E. Budzilek, to Wheaton Glass Co. Reinforced glass aerosol containers. 2,917,197, 12-15-59, Cl. 215-12.
- Gloviak, Stanley, and N. Frantz, to Carter Pat's Co. Push button switch. 2,903,540, 9-8-59, Cl. 200-159.
- Glowacki, Matthew P.: See—  
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- Glowka, Martin. Protective covering for garment hangers. 2,878,978, 3-24-59, Cl. 223-98.
- Glowka, Martin. Rubber covered clothes hangers. 2,899,117, 8-11-59, Cl. 223-93.
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- Gluck, William, to Industrial Hardware Mfg. Co., Inc. Tube socket for printed circuits. 2,917,723, 12-15-59, Cl. 339-194.
- Gluckin, William, & Co., Inc.: See—  
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- Glueckstein, Henry J., to Globe-Union Inc. Variable resistors and the like. 2,892,011, 6-23-59, Cl. 174-66.



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- Gluesenkamp, Earl W., to Monsanto Chemical Co. Composition containing a plastic material and a modified clay. 2,883,356, 4-21-59, Cl. 260-37.
- Gluesenkamp, Earl W., and M. Kosmin, to Monsanto Chemical Co. Process for producing high energy fuels. 2,910,426, 10-27-59, Cl. 208-66.
- Gluhareff, Michael E., to United Aircraft Corp. Sectional aircraft fuselage. 2,872,137, 2-3-59, Cl. 244-120.
- Glumer, Gustavo V. Mechanical riding toy. 2,885,213, 5-5-59, Cl. 280-1183.
- Gluss, Norman. Air cylinder. 2,869,514, 1-20-59, Cl. 121-1.
- Glynn, Leon A., to Collins Radio Co. Crystal oscillator isolation means. 2,880,313, 3-31-59, Cl. 250-20.
- Glynn, Leon A., to Collins Radio Co. Variable inductor. 2,910,661, 10-27-59, Cl. 336-139.
- Glynn, Theodore W., to Blue Ridge Glass Corp. Electric heater. 2,867,710, 1-6-59, Cl. 219-34.
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- Gobat, Andre R., to International Telephone and Telegraph Corp. Method of cutting semiconductive material. 2,911,773, 11-10-59, Cl. 51-283.
- Gobble, Wallace W.: *See*—  
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- Godbarsen, Robert, Jr., to General Electric Co. Interval timing apparatus and method. 2,909,666, 10-20-59, Cl. 250-95.
- Godbersen, Byron L. Releasable bolster hoist. 2,878,057, 3-17-59, Cl. 298-22.
- Godbersen, Byron L. Dump wagon hoist means. 2,902,315, 9-1-59, Cl. 298-22.
- Godbille, Francois, to Societe Anonyme dite: Fruehauf. Vehicles having dual wheels. 2,913,999, 11-24-59, Cl. 105-215.
- Goddard, Charles T., to Bell Telephone Laboratories, Inc. Method of determining surface flatness. 2,867,149, 1-6-59, Cl. 88-14.
- Goddard, Edwin G. Lamp holder. 2,869,092, 1-13-59, Cl. 339-57.
- Goddard, George W., to Bulova Research and Development Laboratories, Inc. Automatic aerial photography system. 2,895,393, 7-21-59, Cl. 95-125.
- Goddard, Louis H., to Globe Industries, Inc. Timer. 2,913,544, 11-17-59, Cl. 200-35.
- Goddard, Reginald E., to Imperial Chemical Industries Ltd. Process for the continuous regeneration of a granular catalyst. 2,897,157, 7-28-59, Cl. 252-418.
- Goddard, William A., to International Business Machines Corp. Data storage apparatus. 2,901,730, 8-25-59, Cl. 340-173.
- Goddard, William F., to The St. Peter Rosary Co. Rosary entity. 2,912,770, 11-17-59, Cl. 35-23.
- Godden, Thomas E., and E. H. Morris, to Rotol Ltd. Variable pitch airscrews. 2,903,075, 9-8-59, Cl. 170-160.32.
- Goddin, Clifton S., Jr., and J. F. Magness, to Pan American Petroleum Corp. Recovery of chemicals from hydrocarbon solutions. 2,898,362, 8-4-59, Cl. 260-450.
- Goddin, Clifton S., Jr., and J. F. Magness, to Pan American Petroleum Corp. Process for recovery of oxygenated chemicals from hydrocarbon solutions thereof. 2,902,508, 9-1-59, Cl. 260-450.
- Goddu, Lloyd W., and O. W. Dillon, to American Optical Co. Lens marking devices. 2,917,971, 12-22-59, Cl. 88-56.
- Goddu, Robert F., to Hercules Powder Co. Preparation of oxetane polymers. 2,895,922, 7-21-59, Cl. 260-2.
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- Goddu, Robert F., and J. A. Hudy, to Hercules Powder Co. Stabilization of monomeric 3,3-bis (chloromethyl)-oxetane. 2,914,540, 11-24-59, Cl. 260-333.
- Godehn, Donald J.: *See*—  
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- Göden, Peter: *See*—  
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- Godet, Pierre, to Les Usines de Melle (Societe Anonyme). Process for producing diacetone alcohol. 2,889,369, 6-2-59, Cl. 260-594.
- Godet, Sidney: *See*—  
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- Godfrey, Charles E., to American Brake Shoe Co. Vertically mounted spike driver. 2,884,867, 5-5-59, Cl. 104-17.
- Godfrey, Charles E., and W. T. Johnson, Jr., to American Brake Shoe Co. Impacting apparatus. 2,910,010, 10-27-59, Cl. 104-17.
- Godfrey, James H., and K. Damijonaitis, to The Stanley Works. Control mechanism and shaft lock. 2,897,302, 7-28-59, Cl. 200-42.
- Godfrey, John C., to Godfrey Molecular Models, Inc. Set of atomic models for the teaching of chemistry. 2,882,617, 4-21-59, Cl. 35-18.
- Godfrey, John W.: *See*—  
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- Godfrey, John W., J. R. Hayden, and K. V. Nieman, to General Motors Corp. Marine heat exchanger. 2,914,012, 11-24-59, Cl. 114-5.
- Godfrey, Kenneth L.: *See*—  
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Cooper, Robert H., and Godfrey. 2,918,513.  
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- Godfrey, Kenneth L., to Monsanto Chemical Co. Higher acyclic tetramethylphosphorodiamidates. 2,912,451, 11-10-59, Cl. 260-461.
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- Godfrey Molecular Models, Inc.: *See*—  
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- Godfrey, Wallace C. Dusting device. 2,878,504, 3-24-59, Cl. 15-210.
- Godfrey, Wallace C., and W. J. Lacourciere. Fish stringer. 2,914,230, 11-24-59, Cl. 224-7.
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- Godowsky, Leopold, and J. J. Duane, to Eastman Kodak Co. Microdispersions of photographic color couplers. 2,870,012, 1-20-59, Cl. 96-97.
- Godshalk, James B., to Fox Products Co. Valves. 2,915,086, 12-1-59, Cl. 137-614.14.
- Godshalk, Russell L., to The Babcock & Wilcox Co. Fluid heat exchange apparatus. 2,916,263, 12-8-59, Cl. 257-224.
- Godt, Henry C., Jr., to Monsanto Chemical Co. Nitric acid oxidation of cyclic alcohols. 2,881,215, 4-7-59, Cl. 260-534.
- Godwin, Charles J., M. Hurowitz, P. D. Kaplan, E. W. Siegel, and T. W. Zebley, to General Electric Co. Component assembly system. 2,896,314, 7-28-59, Cl. 29-203.
- Goebel, Gerhard. Temperature regulator for room heaters. 2,895,675, 7-21-59, Cl. 236-9.
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- Goebel, Hermann, and G. Muller, to Farbenfabriken Bayer Aktiengesellschaft. Water-insoluble 6-amino-2,4-dioxo-tetrahydroquinazoline monoazo dyestuffs. 2,908,678, 10-13-59, Cl. 260-154.
- Goebel, Max T., to E. I. du Pont de Nemours and Co. Methods of killing insects and fungi with perchloryl fluoride. 2,913,366, 11-17-59, Cl. 167-17.
- Goehner, William R., to Bell Telephone Laboratories, Inc. Sound track position compensation means for record drumlead screw type translating device. 2,872,195, 2-3-59, Cl. 274-20.
- Goehre, Otto: *See*—  
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- Goeilner, John A., to Monarch Metal Weatherstrip Corp. Weatherstrip and sash balance. 2,912,726, 11-17-59, Cl. 20-52.
- Goemann, Richard P., to H. H. Robertson Co. Air conditioning and electrical wire distributing structure. 2,877,990, 3-17-59, Cl. 257-8.
- Goemann, Richard P., to H. H. Robertson Co. Air conditioning structure. 2,912,231, 11-10-59, Cl. 257-286.
- Goepfrich, George A., to The Skinner Chuck Co. Jaw centering device for chucks. 2,898,120, 8-4-59, Cl. 279-116.
- Goepfrich, Rudolph A., to Bendix Aviation Corp. Residual pressure check valve. Re. 24,664, 6-30-59, Cl. 137-493.1.
- Goepfrich, Rudolph A., to Bendix Aviation Corp. Wheel brake. 2,875,862, 3-3-59, Cl. 188-106.
- Goepfrich, Rudolph A., to Bendix Aviation Corp. Duo servo cylinder anchor brake. 2,906,517, 9-29-59, Cl. 188-78.
- Goepfinger, Edward J.: *See*—  
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- Goering, Hans G., and J. P. Rocca, to Esso Research and Engineering Co. Tripolymer of styrene, C<sub>8</sub> tertiary and non-tertiary monoolefin. 2,910,458, 10-27-59, Cl. 260-80.5.
- Goering, Hans G., H. G. Schneider, and P. D. Spillane, to Esso Research and Engineering Co. Method of dispensing solids in polymerization mixtures. 2,914,357, 11-24-59, Cl. 302-66.



- Goerlich, Reinhard, to International Standard Electric Corp. File record selection arrangement. 2,908,278, 10-13-59, Cl. 129—16.1.
- Goerrig, Dieter: *See*—  
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- Goertz, Raymond C., K. R. Ferguson, E. W. Rylander, and L. M. Safranski, to United States of America, Atomic Energy Commission. Portable source of radioactivity. 2,891,168, 6-16-59, Cl. 250—106.
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- Goesser, Silvan F., Slide fastener fold spreader. 2,904,868, 9-22-59, Cl. 24—205.15.
- Goethel, Thomas P.: *See*—  
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- Goetsch, Earl G., and W. H. Cowles, to Holley Carburetor Co. Gas turbine isochronous governor. 2,896,652, 7-28-59, Cl. 137—34.
- Goett, Arnold H., Jet pronged digging heads. 2,905,443, 9-22-59, Cl. 255—61.
- Goettl, Adam D., Actuator for louver slats. 2,874,626, 2-24-59, Cl. 98—40.
- Goettl, Adam D., Blower outlet damper actuator. 2,874,893, 2-24-59, Cl. 230—114.
- Goettl, Adam D., Adjustable support for evaporative coolers. 2,882,810, 4-21-59, Cl. 98—30.
- Goettl, Adam D., Air directing louver device. 2,892,395, 6-30-59, Cl. 98—40.
- Goettl, Adam D., and G. Bleed-off orifice for evaporative coolers. 2,883,055, 4-21-59, Cl. 210—307.
- Goettl, Albert B., to International Metal Products Co. Air directing louver device. 2,895,401, 7-21-59, Cl. 98—110.
- Goettl, Gust: *See*—  
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- Goettl, Gust, Air directing louver device. 2,887,943, 5-26-59, Cl. 98—110.
- Goetz, Alexander, Concentrometer. 2,871,695, 2-3-59, Cl. 73—61.
- Goetz, Alexander, Bacteriological filter unit. 2,904,857, 9-22-59, Cl. 21—82.
- Goetz, Charles E., Vacuum cooling. 2,886,858, 5-19-59, Cl. 20—2.
- Goetz, Ernest F., to General Electric Co. Two-shoe brake mechanism. 2,889,014, 6-2-59, Cl. 188—171.
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- Goetz, John L., to Collins Radio Co. Input-coded shaft positioning control system. 2,918,615, 12-22-59, Cl. 318—467.
- Goetz, Vincent A., to Holley Carburetor Co. Combined controlled transmission and carburetor. 2,905,013, 9-22-59, Cl. 74—472.
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- Bäumler, Hermann, and Fuhrmann. 2,917,353.
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- Goff, David C., to Zonolite Co. Method of insulating pipe. 2,901,775, 9-1-59, Cl. 18—59.
- Goff, David C., to Zonolite Co. Parting agent for conduits. 2,903,018, 9-8-59, Cl. 138—66.
- Goff, John C., M. B. Goldberg, and A. J. Sondheimer, to United States of America, Navy. Electrolytically controlled delay device. 2,868,126, 1-13-59, Cl. 102—16.
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- Goff, Leon E., Jr., to General Electric Co. Protective relaying system for an electric power transmission circuit. 2,902,626, 9-1-59, Cl. 817—36.
- Goffe, Edwin H., and D. J. Rowley, to Monroe Calculating Machine Co. Operation control means. 2,884,190, 4-28-59, Cl. 235—63.
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- Seaborg, Glenn T., Gofman, and Stoughton. 2,900,228.
- Gofman, John W., to United States of America, Atomic Energy Commission. Oxalate process for separating element 94. 2,867,640, 1-6-59, Cl. 260—429.1.
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- Gofman, John W., R. E. Connick, and A. C. Wahl, to United States of America, Atomic Energy Commission. Process for the separation of heavy metals. 2,871,251, 1-27-59, Cl. 260—429.1.
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- Gogek, Charles J., to Corn Products Refining Co. Core binder and process of making cores. 2,875,073, 2-24-59, Cl. 106—38.4.
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- Gohorel, Fernand P., to International Standard Electric Corp. Automatic telephone systems. 2,882,343, 4-14-59, Cl. 179—18.
- Gohorel, Fernand P., A. J. Henquet, and J. J. Perrot, to International Standard Electric Corp. Markers control for crossbar automatic telephone system. 2,911,477, 11-3-59, Cl. 179—18.
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- Holman, George W., and Going. 2,875,067.
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- Golay, Donaven E., to Farmer Feeder Co., Inc. Milk line vacuum releaser. 2,871,821, 2-3-59, Cl. 119—14.7.
- Golay, Marcel J. E., to The Perkin-Elmer Corp. Radiation comparison systems. 2,870,343, 1-20-59, Cl. 250—220.
- Gold, Archie: *See*—  
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- Gold, Archie, to United States of America, Air Force. Self-registering overload mechanism. 2,868,000, 1-13-59, Cl. 64—29.
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- Gold, Harold, and D. M. Straight. Fuel injection system. 2,876,755, 3-10-59, Cl. 123—119.
- Gold, Harold, and D. M. Straight. Fuel injection system. 2,876,756, 3-10-59, Cl. 123—119.
- Gold, Harold, and D. M. Straight. Variable displacement fluid pump or motor. 2,895,422, 7-21-59, Cl. 103—120.
- Gold, Heinrich: *See*—  
Siegel, Edgar, and Gold. 2,901,477.
- Gold, Heinrich, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Stilbene triazoles. 2,901,476, 8-25-59, Cl. 260—240.
- Gold, Irving, Key holder. 2,883,851, 4-28-59, Cl. 70—456.
- Gold, Marvin H., and L. Herzog, to Aerojet-General Corp. Geminal dinitro compounds and method of preparing same. 2,918,489, 12-22-59, Cl. 260—465.4.
- Gold, Nathan, Women's undergarment. 2,877,770, 3-17-59, Cl. 128—435.
- Gold, Philippe: *See*—  
Melkonian, Diran, and Gold. 2,872,476.
- Gold, William: *See*—  
Dutcher, James D., Gold, Pagano, and Vandeputte. 2,908,611.
- Dutcher, James D., Gold, Pagano, and Vandeputte. 2,908,612.
- Gold, William, Composite floors, and method of making such floors. 2,908,049, 10-13-59, Cl. 20—7.
- Goldak Co., The: *See*—  
Kaufman, Edwin N. 2,867,735.
- Goldammer, Arthur R.: *See*—  
Mosher, Walter W., Jr., and Goldammer. 2,893,143.



- Goldan, Theodore J., to International Telephone and Telegraph Corp. Microwave energy time delay devices. 2,894,222, 7-7-59, Cl. 333-30.
- Goldbaum, Robert H.: *See*—  
Ball, Arthur F., Goldbaum, and Whitney. 2,906,039.
- Goldberg, Abraham A., and J. J. Duggan, to Columbia Broadcasting Co., Inc. Television receiver tuning indicator. 2,886,709, 5-12-59, Cl. 250-40.
- Goldberg, Albert I., and K. V. Jasinski, to National Starch Products Inc. Vinyl resin emulsions containing methoxy polyethylene glycol. 2,910,448, 10-27-59, Cl. 260-29.6.
- Goldberg, Bernard. Variable frequency high stability oscillator. 2,881,320, 4-7-59, Cl. 250-36.
- Goldberg, David N. Articulated brake or clutch assembly. 2,910,162, 10-27-59, Cl. 192-107.
- Goldberg, Earl J.: *See*—  
Frazer, August H., and Goldberg. 2,888,440.
- Goldberg, Earl J., to E. I. du Pont de Nemours and Co. Process of curing polymers of tetrahydrofuran. 2,906,738, 9-29-59, Cl. 260-77.5.
- Goldberg, Ernest W. Slide changer with angled magazine. 2,909,962, 10-27-59, Cl. 88-28.
- Goldberg, Gershon M., and J. E. Lu Valle, to Technical Operations, Inc. Triaminopyridine developer. 2,875,050, 2-24-59, Cl. 96-66.
- Goldberg, Harold: *See*—  
Reussenzehn, Ernest A., and Goldberg. 2,906,233.
- Goldberg, Harry H. Combined window frame and concrete form. 2,893,235, 7-7-59, Cl. 72-98.
- Goldberg, Howard M. Orthopedic shoe. 2,884,717, 5-5-59, Cl. 36-8.5.
- Goldberg, Jacob: *See*—  
Cox, Bonnar, and Goldberg. 2,904,777.  
Cox, Bonnar, and Goldberg. 2,913,705.  
Cox, Bonnar, and Goldberg. 2,918,662.  
Cox, Bonnar, Goldberg, and Kautz. 2,871,289.
- Goldberg, Jacob, and B. Cox, to General Electric Co. Control apparatus. 2,867,791, 1-6-59, Cl. 340-174.
- Goldberg, Jacob, and B. Cox, to General Electric Co. Printer format control system. 2,874,633, 2-24-59, Cl. 101-93.
- Goldberg, Jacob, and B. Cox, to General Electric Co. Magnetic tape writing system. 2,913,707, 11-17-59, Cl. 340-174.
- Goldberg, Joseph, to Rapid Mounting & Finishing Co. Display stand. 2,888,147, 5-26-59, Cl. 211-135.
- Goldberg, Monroe B.: *See*—  
Goff, John C., Goldberg, and Sondheimer. 2,868,126.
- Goldberg, Moses W., and A. I. Rachlin, to Hoffmann-La Roche Inc. Aliphatic bisisothiuronium compounds. 2,867,660, 1-6-59, Cl. 260-553.
- Goldberg, Moses W., and H. H. Lehr, to Hoffmann-La Roche Inc.  $\alpha$ -mercapto-amide derivatives. 2,874,190, 2-17-59, Cl. 260-561.
- Goldberg, Moses W., and S. Teitel, to Hoffmann-La Roche Inc. Benzylamine derivatives. 2,879,293, 3-24-59, Cl. 260-559.
- Goldberg, Moses W., and W. E. Scott, to Hoffmann-La Roche Inc. 2-acetyl-7-oxo-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydrophenanthrene and process. 2,894,958, 7-14-59, Cl. 260-340.9.
- Goldberg, Richard J., and E. M. Olds, Jr., to Technicolor Corp. Reduction of dye absorption in hardened gelatin relief matrices. 2,870,704, 1-27-59, Cl. 101-149.1.
- Goldberg, Rubin, and O. Barany. Ratchet-type earring construction. 2,882,702, 4-21-59, Cl. 63-14.
- Goldberg, Seymour: *See*—  
Riley, Daniel F., and Goldberg. 2,919,373.
- Goldberg, Seymour, to Edgerton, Germeshausen & Grier, Inc. Gaseous-discharge device. 2,919,372, 12-29-59, Cl. 313-307.
- Goldberg, Seymour, and E. J. Goon, to Edgerton, Germeshausen & Grier, Inc. Gaseous reservoir and method. 2,919,368, 12-29-59, Cl. 313-178.
- Goldblatt, Leo A., and L. L. Hopper, Jr., to United States of America, Agriculture. Paint vehicle with fungicidal properties. 2,884,330, 4-28-59, Cl. 106-15.
- Goldbohm, Erich, G. Prins, and N. Schimmel, to North American Phillips Co., Inc. Radar receiver comprising a position indicator. 2,915,749, 12-1-59, Cl. 343-17.
- Goldbrunner, Heinrich: *See*—  
Muller, Friedrich, and Goldbrunner. 2,910,775.
- Golde, Hans T. Apparatus for slidable closures. 2,895,755, 7-21-59, Cl. 287-56.
- Golde, Hans T., and J. K. Werner. Lock for a vehicle roof. 2,872,243, 2-3-59, Cl. 296-137.
- Golden, Carl E., to Ransome Torch & Burner Co. Self vaporizing burner. 2,880,791, 4-7-59, Cl. 158-53.
- Golden, Carl E., to Ransome Torch & Burner Co. Torch burner. 2,880,793, 4-7-59, Cl. 158-115.
- Golden, Daniel, to Underwood Corp. Data transfer system. 2,905,930, 9-22-59, Cl. 340-174.
- Golden, Daniel, and I. I. Korn, to Underwood Corp. Magnetic recording system. 2,917,726, 12-15-59, Cl. 340-174.
- Golden, Jack B. Log grapple. 2,867,470, 1-6-59, Cl. 294-85.
- Golden, Morris H. Dental absorbent roll holder. 2,885,783, 5-12-59, Cl. 32-35.
- Golden, Samuel J.,  $\frac{1}{2}$  to R. M. Bowes. Combs. 2,909,183, 10-20-59, Cl. 132-141.
- Goldenberg, Leo. Titanium plating. 2,881,119, 4-7-59, Cl. 204-39.
- Goldenberg, Malcolm S. and Martin. Adjustable necktie construction. 2,884,642, 5-5-59, Cl. 2-155.
- Goldenberg, Martin: *See*—  
Goldenberg, Malcolm S. and Martin. 2,884,642.
- Goldenberg, Stephen R. Method and article for causing record players to repeat. 2,886,327, 5-12-59, Cl. 274-10.
- Goldfarb, Adolph E. Water gun. 2,877,931, 3-17-59, Cl. 222-79.
- Goldfarb, Adolph E., and H. G. Saperstein. Squirting camera. 2,873,884, 2-17-59, Cl. 222-78.
- Goldfarb, Martin S.: *See*—  
Weich, Thomas R., and Goldfarb. 2,888,196.
- Goldhammer, Jerome S. Combined developers and fixers. 2,901,350, 8-25-59, Cl. 96-61.
- Goldhammer, Otto, to VEB Geraer Klaviaturenfabrik. Keyboard for keyboard instruments. 2,885,921, 5-12-59, Cl. 84-423.
- Goldie, Charles H.: *See*—  
Gale, Alfred J., and Goldie. 2,883,606.
- Golding, Frank E., to Toledo Scale Corp. Weighing scale. 2,918,270, 12-22-59, Cl. 265-29.
- Golding, Kenyon E., and W. M. Meyer, to Libbey-Owens-Ford Glass Co. Method of and apparatus for measuring the thickness of sheet materials. 2,904,163, 9-15-59, Cl. 198-39.
- Golding, William F. Printing and like machines. 2,904,198, 9-15-59, Cl. 214-95.
- Goldman, Alex: *See*—  
Goldman, Max and A. 2,879,744.  
Goldman, Max and A. 2,904,008.
- Goldman, Benjamin, to Rystan Co. Stable aqueous papain topical compositions. 2,917,433, 12-15-59, Cl. 167-65.
- Goldman, David A. Integrator. 2,919,065, 12-29-59, Cl. 235-183.
- Goldman, Elizabeth A. Cover. 2,881,778, 4-14-59, Cl. 135-5.
- Goldman, Jacob E.: *See*—  
Ireland, Max J., Schermer, and Goldman. 2,907,672.
- Goldman, Jay N.: *See*—  
Nadler, Gerald N., and Goldman. 2,914,730.
- Goldman, Leman, Jr., to United States of America, Navy. Feedback circuits for servo applications. 2,901,680, 8-25-59, Cl. 318-28.
- Goldman, Leon: *See*—  
Dalalian, Harry P., Starker, and Goldman. 2,909,524.
- Goldman, Max and A. Sponge activated water filled ink cartridge pen. 2,879,744, 3-31-59, Cl. 120-42.15.
- Goldman, Max and A. Water filled ink cartridge pen. 2,904,008, 9-15-59, Cl. 120-42.15.
- Goldman, Myron W. Waste water renovator. 2,885,080, 5-5-59, Cl. 210-160.
- Goldman, Oscar H.: *See*—  
Tondat, Julius J., and Goldman. 2,874,248.
- Goldman, Richard G., to General Electric Co. Electronic function generator. 2,909,658, 10-20-59, Cl. 250-27.
- Goldman, Sanford L. Combination binder and easel. 2,881,008, 4-7-59, Cl. 281-33.
- Goldman, Sylvan N.: *See*—  
Young, Fred W. 2,871,024.  
Young, Fred W. 2,916,291.  
Young, Fred W., and McNeil. 2,896,959.
- Goldmann, Kurt: *See*—  
Lewis, Frank M., Keenan, and Goldmann. 2,895,291.
- Goldmark, Peter C., to Columbia Broadcasting System, Inc. Color television signal conversion system. 2,868,870, 1-13-59, Cl. 178-5.2.
- Goldmark, Peter C., to Columbia Broadcasting System, Inc. Synthetic reverberation system. 2,872,515, 2-3-59, Cl. 179-1.
- Goldmark, Peter C., to Columbia Broadcasting System, Inc. Aperture distortion correcting system. 2,878,307, 3-17-59, Cl. 178-5.2.
- Goldmark, Peter C., and J. W. Christensen, to Columbia Broadcasting System, Inc. Color television apparatus. 2,880,267, 3-31-59, Cl. 178-5.4.
- Goldmerstein, Isaac. Hat construction. 2,875,447, 3-3-59, Cl. 2-171.2.
- Goldner, Ronald B., and J. J. Suran, to General Electric Co. Magnetic coincidence gating register. 2,889,542, 6-2-59, Cl. 340-174.
- Goldring, John E., and A. E. Kremiller, to Modernair Corp. Pneumatic fastener driving machine. 2,872,901, 2-10-59, Cl. 121-13.
- Goldring, John E., and A. E. Kremiller, to Modernair Corp. Collet chuck. 2,889,150, 6-2-59, Cl. 279-4.
- Goldring, Marianne, to Sears, Roebuck and Co. Maternity skirt. 2,917,750, 12-22-59, Cl. 2-211.
- Goldsborough, William: *See*—  
Mandel, Elliot, and Goldsborough. 2,873,667.
- Goldsborough, Shirley, to Westinghouse Electric Corp. High-speed current-comparison relay scheme. 2,917,674, 12-15-59, Cl. 317-28.
- Goldschmidt, Alfred: *See*—  
Mulvany, Paul K., West, and Goldschmidt. 2,891,990.  
Stewart, William T., and Goldschmidt. 2,891,991.
- Goldschmidt, Fabio R., to Westinghouse Electric Corp. Gas reaction rotors. 2,874,894, 2-24-59, Cl. 230-115.
- Goldschmidt, Karl, to Bell Telephone Laboratories, Inc. Calling line identifier. 2,883,468, 4-21-59, Cl. 179-18.
- Goldschmidt, Karl, to Bell Telephone Laboratories, Inc. Impulse dial. 2,890,287, 6-9-59, Cl. 179-90.



- Goldschmidt, Th., A.G.: See—  
 Schmitz, Adolf, and Cramer. 2,907,791.  
 Goldscholl, Morton, to Abacus, Inc. Support hanger for pin-up boards. 2,872,145, 2-3-59, Cl. 248—223.  
 Goldsholl, Morton, and N. E. Van Stone, to Sherwin-Williams Co. Spectrum color display easel. 2,890,530, 6-16-59, Cl. 35—283.  
 Goldsmid, Hiroshi J., to The General Electric Co. Ltd. Thermoelectric devices. 2,886,618, 5-12-59, Cl. 136—4.  
 Goldsmith, Allen L.: See—  
 Hickman, Charles E., and Goldsmith. 2,870,522.  
 Goldsmith, Fred C., to The Lubrizol Corp. Ether containing esters of dithiophosphoric acid, and salts thereof. 2,905,683, 9-22-59, Cl. 260—429.7.  
 Goldsmith, John L., and G. Y. James, to Hudson Engineering Corp. Cooling tower. 2,898,097, 8-4-59, Cl. 261—108.  
 Goldsmith, Kurt, to Textile Mills Co. Hand protectors. 2,905,946, 9-29-59, Cl. 2—158.  
 Goldsmith, Robert. Printable tetrafluoroethylene polymer insulated wire and method of making same. 2,911,328, 11-3-59, Cl. 117—218.  
 Goldsmith, Walter I., to Ricardo & Co. Engineers (1927) Ltd. Internal combustion engines and pistons therefor. 2,911,963, 11-10-59, Cl. 123—41.39.  
 Goldsmith, William F., to Union Carbide Corp. Stabilization of arylamines. 2,913,495, 11-17-59, Cl. 260—575.  
 Goldson, Marvin. Scratch post with renewable fabric cover. 2,894,487, 7-14-59, Cl. 119—1.  
 Goldstein, Arthur. Article-supporting bracket. 2,877,971, 3-17-59, Cl. 248—302.  
 Goldstein, Arthur M., to Stein, Hall & Co., Inc. Dry mannogalactan composition. 2,868,664, 1-13-59, Cl. 106—208.  
 Goldstein, Arthur, to Tru Balance Corsets, Inc. Garment. 2,884,927, 5-5-59, Cl. 128—451.  
 Goldstein, Arthur. Folding chairs and the like. 2,906,319, 9-29-59, Cl. 155—139.  
 Goldstein, Bernard, to Radio Corp. of America. Method of manufacturing semi-conductive bodies. 2,900,286, 8-18-59, Cl. 148—15.  
 Goldstein, Charles E., to Plastics, Inc. Holding and slicing guide for edible food products. 2,918,099, 12-22-59, Cl. 146—150.  
 Goldstein, Daniel, to Schenley Industries, Inc. Flexible spout combination stopper and pouring device. 2,908,426, 10-13-59, Cl. 222—615.  
 Goldstein, Emanuel, and R. M. Lusskin, to The Trubek Laboratories. Purification of polyalkylphenols. 2,899,470, 8-11-59, Cl. 260—624.  
 Goldstein, Emanuel, and W. C. Meluch, to The Trubek Laboratories. Substituted bicyclic decanols and decanones. 2,912,462, 11-10-59, Cl. 260—586.  
 Goldstein, Ernst M., to United States of America, General Services Administration. Process for separating cobalt and nickel from ammoniacal solutions. 2,910,354, 10-27-59, Cl. 75—108.  
 Goldstein, Eugene E., to The Celotex Corp. Translucent acoustical correction ceiling construction. 2,870,857, 1-27-59, Cl. 181—33.  
 Goldstein, Gabriel F., to Interchemical Corp. Composition comprising a mixture of synthetic resins and cellulose acetate butyrate for printing on vinyl plastics. 2,872,423, 2-3-59, Cl. 260—16.  
 Goldstein, Irving S., to Koppers Co., Inc. Impregnating solutions and method of impregnation therewith. 2,909,450, 10-20-59, Cl. 117—161.  
 Goldstein, Irving S., and W. A. Dreher, to Koppers Co., Inc. Method of imparting flame retardance to wood. 2,917,408, 12-15-59, Cl. 117—103.  
 Goldstein, Ladislav, P. E. Dorney, and M. A. Lampert, to International Telephone and Telegraph Corp. Ultra-high frequency amplitude modulator. 2,903,652, 9-8-59, Cl. 332—57.  
 Goldstein, Leon. Convertible lounge and bed and the like. 2,880,426, 4-7-59, Cl. 5—37.  
 Goldstein, Murray. Receptacle heels for footwear. 2,904,901, 9-22-59, Cl. 36—1.  
 Goldstein, Raymond: See—  
 Hecht, Herbert, and Goldstein. 2,881,992.  
 Goldstein, Richard: See—  
 Maciszewski, Arthur H., Hupert, Goldstein, and Szubski. 2,881,315.  
 Goldstein, Richard, to Perma-Power Co. Highly discriminating radio frequency receiver. 2,869,123, 1-13-59, Cl. 343—225.  
 Goldstein, Hallan E., to United States of America, Navy. Transmitter frequency generation system. 2,872,646, 2-3-59, Cl. 332—41.  
 Goldsworthy, William B., and F. Landgraf, to Glastrusions, Inc. Apparatus for producing elongated articles from fiber-reinforced plastic material. 2,871,911, 2-3-59, Cl. 154—1.7.  
 Goldsworthy, William W., and J. B. Robison, to United States of America, Atomic Energy Commission. Peak limiting amplifier. 2,880,318, 3-31-59, Cl. 250—27.  
 Goldtrap, Charley L. Toilet flush tank assembly. 2,898,604, 8-11-59, Cl. 4—57.  
 Goldtrap, Charley L.,  $\frac{1}{2}$  to D. Kamphausen, and  $\frac{1}{2}$  to W. W. Flenniken. Toilet tank supply valve assembly. 2,900,996, 8-25-59, Cl. 137—416.  
 Goldtrap, Charley L.,  $\frac{1}{2}$  each to D. Kamphausen and W. W. Flenniken. Toilet flush valve assembly. 2,904,794, 9-22-59, Cl. 4—57.  
 Goldwag, Harry L. Molding and casting process. 2,917,782, 12-22-59, Cl. 18—55.05.  
 Golemon, Valia S. Vacuum milking machines. 2,887,986, 5-26-59, Cl. 119—14.08.  
 Golfas, Louis P.: See—  
 Kocsee, Jime. 2,911,926.  
 Golf, Anthony B., to Hartwig Inc. Platform unit and assembly. 2,889,184, 6-2-59, Cl. 311—1.  
 Golfos, Louis P.: See—  
 Kocsee, Jime. 2,889,002.  
 Goliber, Edward W., to General Electric Co. Chromium base refractory compositions. 2,872,725, 2-10-59, Cl. 29—182.5.  
 Goliber, Edward W., to General Electric Co. Sintered hard compositions. 2,872,726, 2-10-59, Cl. 29—182.5.  
 Goliber, Edward W., to General Electric Co. Hard refractory compositions. 2,873,198, 2-10-59, Cl. 106—65.  
 Golightly, James S., to Pittsburgh Plate Glass Co. Glass bending mold. 2,882,646, 4-21-59, Cl. 49—67.  
 Golightly, James S., to Pittsburgh Plate Glass Co. Apparatus for bending glass. 2,917,872, 12-22-59, Cl. 49—67.  
 Golightly, James S., and W. C. McRoberts, to Pittsburgh Plate Glass Co. Glass bending molds. 2,876,595, 3-10-59.  
 Golinelli, Marino. Method of producing a dietetic honey still containing its active principles. 2,871,129, 1-27-59, Cl. 99—146.  
 Goll, Ernest R., to Braun-Goll Co. Plastic stopper and shield for a tap rod fitting for a barrel. 2,886,203, 5-12-59, Cl. 220—24.  
 Gollnow, Johannes D., to Gollnow-Werke A.G. Bridge construction. 2,878,498, 3-24-59, Cl. 14—1.  
 Gollnow-Werke A.G.: See—  
 Gollnow, Johannes D. 2,878,498.  
 Gollus, Frank E. Cutting tool. 2,908,963, 10-20-59, Cl. 29—96.  
 Gollwitzer, Walter T., to Addressograph-Multigraph Corp. Printing machines. 2,868,115, 1-13-59, Cl. 101—2.  
 Goloff, Alexander, to Caterpillar Tractor Co. Vibration damper. 2,905,022, 9-22-59, Cl. 74—574.  
 Goloff, Alexander, and R. H. Robinson, to Caterpillar Tractor Co. Flexible and vibration damping coupling. 2,891,394, 6-23-59, Cl. 64—14.  
 Golrick, Albert R.: See—  
 Douglas, Alvin P., Golrick, and Skerl. 2,899,030.  
 Golrick, Philip D.: See—  
 Wilms, Henry F., and Golrick. 2,880,897.  
 Goltz, Joseph. Box construction with stacking tab. 2,913,162, 11-17-59, Cl. 229—27.  
 Goltz, Lothar: See—  
 Krug, Julius, and Goltz. 2,917,248.  
 Golub, Lillian L., and H. S. Sylvester, to Colgate-Palmolive Co. Liquid soap composition. 2,912,385, 11-10-59, Cl. 252—132.  
 Golub, Morton A., to The B. F. Goodrich Co. Method of isomerizing polybutadiene. 2,878,175, 3-17-59, Cl. 204—160.  
 Golub, Morton A., to The B. F. Goodrich Co. Method for isomerizing polybutadiene. 2,878,176, 3-17-59, Cl. 204—162.  
 Golz, Herbert C.: See—  
 Wells, James G., and Golz. 2,912,294.  
 Gomberg, Edward N., to Douglas Aircraft Co., Inc. Bulkhead seal for wire bundles. 2,892,013, 6-23-59, Cl. 174—153.  
 Gomberg, Edward N., to Sundstrand Machine Tool Co. Piston ring. 2,915,349, 12-1-59, Cl. 309—23.  
 Gomerding, Charles W.: See—  
 Magruder, William R., and Gomerding. 2,894,139.  
 Gomersall, John R., to McGraw-Edison Co. Drawer suspension. 2,869,961, 1-20-59, Cl. 312—339.  
 Gomersall, John R., to McGraw-Edison Co. Drawer suspension. 2,880,040, 3-31-59, Cl. 308—3.8.  
 Gomersall, John R., to McGraw-Edison Co. Waffle baker construction. 2,895,407, 7-21-59, Cl. 99—379.  
 Gommel, Dewey E., to Borg-Warner Corp. Change speed transmission. 2,883,872, 4-23-59, Cl. 74—336.  
 Gommel, Dewey E., to Borg-Warner Corp. Mounting rotors on arbors of various transaxial contours. 2,912,021, 11-10-59, Cl. 143—155.  
 Gommels, John P. Hinge construction. 2,872,698, 2-10-59, Cl. 16—163.  
 Gomory, Paul L., to Phillips Petroleum Co. Methods and apparatus for handling particulate solids. 2,899,374, 8-11-59, Cl. 208—47.  
 Gondek, John T. Shaft couplings. 2,897,662, 8-4-59, Cl. 64—15.  
 Gondek, John T. Combination hydraulic power unit. 2,916,879, 12-15-59, Cl. 60—52.  
 Gondek, Stanley: See—  
 Knox, David R., and Gondek. 2,876,823.  
 Knox, David R., and Gondek. 2,918,100.  
 Gondolfo, Charles. Automobile fuel tank alarm. 2,867,698, 1-6-59, Cl. 200—56.  
 Gonet, Irving. Fluid leak detectors. 2,903,532, 9-8-59, Cl. 200—84.  
 Gongoll, Vernon F., and G. G. Klinger, to The Electric Storage Battery Co. Respirator. 2,893,387, 7-7-59, Cl. 128—146.  
 Gonser, Homer S., Jr., to Wall Colmonoy Corp. Metallic composition. 2,868,639, 1-13-59, Cl. 75—171.  
 Gonsett, Faust R., to Young Spring & Wire Corp. Radio wave reflector. 2,875,444, 2-24-59, Cl. 343—915.



- Gonski, Joseph: *See*—  
Cartledge, Frank, and Gonski. 2,868,528.  
Cartledge, Frank, and Gonski. 2,916,273.
- Gonski, Joseph, to Goodman Mfg. Co. Adjustable continuous mining machine of the boring type. 2,868,530, 1-13-59, Cl. 262-7.
- Gonski, Joseph, to Goodman Mfg. Co. Adjustable cusp cutter for boring type continuous mining machine. 2,868,531, 1-13-59, Cl. 262-7.
- Gonzales, Hooley B. Apparatus for excavating holes. 2,874,936, 2-24-59, Cl. 255-20.
- Gonzalez, Ben. Poultry supporting means. 2,874,404, 2-24-59, Cl. 17-44.1.
- Gonzalez, Santos I. Apparatus for driving off moisture from sugar-cane bagasse. 2,882,612, 4-21-59, Cl. 34-86.
- Gooch, Leon H., to United States of America, Atomic Energy Commission. Method for recovering uranium from oils. 2,894,808, 7-14-59, Cl. 23-14.5.
- Good, Arthur L., to Mairco, Inc. Valve. 2,874,924, 2-24-59, Cl. 251-58.
- Good, Bert: *See*—  
Laube, Hans. 2,905,049.
- Good, Carl D., and H. D. Batha, to Olin Mathieson Chemical Corp. Conversion of sodium tetrachloroaluminate to sodium aluminum hydride. 2,867,499, 1-6-59, Cl. 23-14.
- Good, Fred C., to Fred C. Good & Sons, Inc. Anchor boom assembly. 2,870,732, 1-27-59, Cl. 114-210.
- Good, Fred C., to Fred C. Good & Sons, Inc. Windless. 2,875,890, 3-3-59, Cl. 203-227.
- Good, Fred C., to Fred C. Good & Sons, Inc. Anchor boom assembly. 2,899,924, 8-18-59, Cl. 114-210.
- Good, Fred C., & Sons, Inc.: *See*—  
Good, Fred C. 2,870,732.  
Good, Fred C. 2,875,890.  
Good, Fred C. 2,899,924.
- Good, George M. Golf course divot replacing tool. 2,869,915, 1-20-59, Cl. 294-50.6.
- Good Roads Machinery Corp.: *See*—  
Hanson, Harry I. 2,887,714.
- Good, Robert H., to United States of America, Atomic Energy Commission. Continuously sensitive bubble chamber. 2,900,518, 8-18-59, Cl. 250-83.
- Good, Romer F., to Morgan Machine Co., Inc. Pneumatic impact tool. 2,899,933, 8-18-59, Cl. 121-13.
- Good, Stuart A. Safety shoes. 2,891,329, 6-23-59, Cl. 36-72.
- Goodale, Edmund E., to General Electric Co. Time series current conversion. 2,897,445, 7-28-59, Cl. 324-111.
- Goodale, Ralph H. One-wheeled foldable carrier with spring pin strut connection. 2,918,296, 12-22-59, Cl. 280-41.
- Goodale, Walter D., Jr., and W. Pferd, to Bell Telephone Laboratories, Inc. Telephone pay station. 2,883,463, 4-21-59, Cl. 179-6.3.
- Goodale, Walter D., Jr., W. Pferd, and R. K. Thompson, Jr., to Bell Telephone Laboratories, Inc. Telephone pay station. 2,906,823, 9-29-59, Cl. 179-6.3.
- Goodall, Charles and M. Rotary raking wheel. 2,867,965, 1-13-59, Cl. 56-377.
- Goodall Equipment, Inc.: *See*—  
Goodall, Leonard B. 2,898,723.
- Goodall, Leonard B., to Goodall Equipment, Inc. Multiple bladed mower. 2,898,723, 8-11-59, Cl. 56-25.4.
- Goodall, Maurice: *See*—  
Goodall, Charles and M. 2,867,965.
- Goodall, Robert R., and N. H. Sutcliffe, to Imperial Chemical Industries Ltd. Process for the isolation of cephalosporin N. 2,899,425, 8-11-59, Cl. 260-239.1.
- Goodall Rubber Co.: *See*—  
Williamson, Frederick B., Jr., and Holland. 2,890,900.
- Goodall, William M., to Bell Telephone Laboratories, Inc. Microwave data processing circuits. 2,914,249, 11-24-59, Cl. 235-176.
- Goodall, William M., and H. E. Rowe, to Bell Telephone Laboratories, Inc. Broad-band amplifier employing parallel-series coupling network. 2,899,508, 8-11-59, Cl. 179-171.
- Goodbar, Isaac. Projection screen. 2,884,834, 5-5-59, Cl. 88-28.93.
- Goodbar, Mayo A., R. G. Pratt, and C. A. Bacher, to The National Cash Register Co. Feed control mechanism for record material. 2,889,769, 6-9-59, Cl. 101-66.
- Goodell, John D., and T. Lode, to Librascope, Inc. Magnetic pulse controlling device. 2,914,753, 11-24-59, Cl. 340-174.
- Gooden, Herbert B. Advertising sign device. 2,876,567, 3-10-59, Cl. 40-32.
- Gooden, John S.: *See*—  
Link, Charles T., Jr., and Gooden. 2,895,150.
- Goodenow, Earl P. Water ski harness. 2,910,709, 11-3-59, Cl. 9-21.
- Goederham, John W., E. Jacobitti, O. Myers, F. F. Shipley, and W. Strickler, to Bell Telephone Laboratories, Inc. Toll switching telephone system. 2,868,884, 1-13-59, Cl. 179-18.
- Goodfellow, Ada M. Castor cups for receiving castors of furniture. 2,915,850, 12-8-59, Cl. 45-137.
- Goodfellow, Harry E., to Jervis Corp. Latch control apparatus. 2,898,139, 8-4-59, Cl. 292-336.3.
- Goodhue, Carl E., K. H. Schwarz, and L. L. Stephens, to Puritan Compressed Gas Co. Flowmeter structure. 2,882,725, 4-21-59, Cl. 73-209.
- Goodhue, Lyle D., to Phillips Petroleum Co. Control of grass growth. 2,868,633, 1-13-59, Cl. 71-2.3.
- Goodhue, Lyle D., and K. E. Cantrel, to Phillips Petroleum Co. Insect repellent composition comprising a diethyl, di-n-propyl or di-n-butyl pyridine dicarboxylate, a stabilizer and a method of use. 2,884,355, 4-28-59, Cl. 167-33.
- Goodhue, Lyle D., and K. E. Cantrel, to Phillips Petroleum Co. Synergist-containing polycyclic aldehydes and alcohols as insect repellents. 2,919,227, 12-29-59, Cl. 167-33.
- Goodin, Harry A., Jr., and C. E. Hawk, to Aerojet-General Corp. Coupling device. 2,905,486, 9-22-59, Cl. 284-19.
- Gooding, Chester M.: *See*—  
Melnick, Daniel, and Gooding. 2,874,055.
- Gooding, Francis H., to The Okonite Co. Apparatus for testing electric cable insulation. 2,882,491, 4-14-59, Cl. 324-54.
- Gooding, Francis H., to The Okonite Co. Apparatus for testing electric cable insulation. 2,882,492, 4-14-59, Cl. 324-54.
- Gooding, Francis H., to The Okonite Co. Apparatus for testing electric cable insulation. 2,900,597, 8-18-59, Cl. 324-54.
- Gooding, Iver L., to Lennox Industries, Inc. Adjusting device for troughs. 2,903,224, 9-8-59, Cl. 248-274.
- Gooding, William T., Jr., and R. C. Danilson, to Diamond Alkali Co. Process for producing alkali metal silicates. 2,869,985, 1-20-59, Cl. 23-110.
- Goodland, William L. Pea harvester. 2,882,909, 4-21-59, Cl. 130-30.
- Goodlaxson, John D., to The Maytag Co. Water level control means. 2,874,559, 2-24-59, Cl. 68-207.
- Goodley, Charles E. Lace machines. 2,871,753, 2-3-59, Cl. 87-27.
- Goodliffe, Arthur W.: *See*—  
MacGregor, Peter S., and Goodliffe. 2,887,297.  
MacGregor, Peter S., and Goodliffe. 2,905,407.
- Goodman, Ben. Knockdown-type spot vulcanizer. 2,875,470, 3-3-59, Cl. 18-18.
- Goodman, Charles J., and C. R. Walker, to American Telephone and Telegraph Co. Multiple transmitter control circuit. 2,896,020, 7-21-59, Cl. 178-17.5.
- Goodman, David M. Cathode and directed ray tubes. 2,885,591, 5-5-59, Cl. 315-1.
- Goodman, David M. Directed ray tube and the like. 2,897,388, 7-28-59, Cl. 313-65.
- Goodman, David M. System for selected transmission, storage, display, coding or decoding of information. 2,897,398, 7-28-59, Cl. 315-10.
- Goodman, David M. Radiation generating and transmitting device. 2,915,659, 12-1-59, Cl. 313-65.
- Goodman, Eli I., to Nuclear Science and Engineering Corp. Control and transmission method and apparatus. 2,906,878, 9-29-59, Cl. 250-45.
- Goodman, George, Ltd.: *See*—  
Mitchell, Harold. 2,893,091.
- Goodman, Henry. Tube container for paint. 2,893,710, 7-7-59, Cl. 259-72.
- Goodman, Henry B. Divider and rack construction. 2,869,733, 1-20-59, Cl. 211-184.
- Goodman, Hugh F., to The A. P. V. Co. Ltd. Packed screw-thimble type coupling with means to prevent overcompression of the packing. 2,871,036, 1-27-59, Cl. 285-354.
- Goodman, Joseph J., to American Cyanamid Co. Fermentation of oxytetracycline by streptomyces rimosus. 2,871,166, 1-27-59, Cl. 195-114.
- Goodman, Joseph J., to American Cyanamid Co. Streptomyces aureofaciens fermentation process. 2,911,339, 11-3-59, Cl. 195-80.
- Goodman Mfg. Co.: *See*—  
Arndt, Charles J. 2,908,958.  
Bergmann, Ernst R. 2,880,852.  
Bergmann, Ernst R. 2,889,918.  
Bergmann, Ernst R., and Madeira. 2,904,164.  
Bergmann, Ernst R., and Slomer. 2,916,099.  
Biedess, Anthony R. Re. 24,732.  
Biedess, Anthony R. 2,899,187.  
Boersma, Richard F., and Lo Presti. 2,889,913.  
Brown, Clarence H. 2,901,233.  
Brown, Clarence H., and McCallum. 2,907,559.  
Cartledge, Frank, and Gonski. 2,868,528.  
Cartledge, Frank, and Gonski. 2,916,273.  
Driehaus, Herman W. 2,901,230.  
Gleeson, Murray A. 2,907,448.  
Gonski, Joseph. 2,868,530.  
Gonski, Joseph. 2,868,531.  
Hagenbook, Loy D. 2,901,231.  
Hagenbook, Loy D., and Koepkekin. 2,903,770.  
Hardy, James W. 2,897,564.  
Hilinsky, Emil J. 2,882,031.  
Hilinsky, Emil J. 2,907,558.  
Karlovsky, Jerry. 2,885,196.  
Lo Presti, Roy F. 2,885,066.  
Lo Presti, Roy F., and Madeira. 2,875,886.  
Lo Presti, Roy F., and Smith. 2,892,533.  
Lundquist, Richard C. 2,868,529.  
Madeira, John R. 2,903,769.  
Madeira, John R. 2,903,771.  
McCallum, Robert A. 2,892,532.  
McCann, Keith. 2,868,855.  
McWhorter, Cedric E. 2,873,021.  
McWhorter, Cedric E. 2,874,945.  
Newton, John S. 2,904,319.  
Newton, John S., and Brown. 2,911,090.  
Orden, Charles T. 2,892,534.



- Goodman Mfg. Co. : *See*—Continued  
 Risse, Ralph F. 2,889,910.  
 Robbins, James S. 2,898,742.  
 Salmons, Jerome C. 2,880,851.  
 Sharps, Ralph L. 2,900,070.  
 Silks, Walter. 2,877,005.  
 Silks, Walter. 2,890,033.  
 Slomer, Joseph J. 2,872,794.  
 Slomer, Joseph J. 2,876,623.  
 Slomer, Joseph J. 2,904,959.  
 Smith, Herman E. 2,895,594.  
 Smith, Herman E. 2,909,273.  
 Stinson, Mary L. 2,904,166.  
 Wood, Claude O. 2,881,361.  
 Goodman, Morris. Parking station. 2,883,780, 4-28-59, Cl. 39-6.  
 Goodman, Peter J. Carton dispenser. 2,906,434, 9-29-59, Cl. 221-297.  
 Goodman, Robert B., and F. J. Roberts, to United Aircraft Corp., Coupling and mixing chamber for an aircraft air conditioning system. 2,884,846, 5-5-59, Cl. 98-38.  
 Goodman, Solomon : *See*—  
 Redniss, Alexander, Goodman, and Cantor. 2,871,098.  
 Goodman, Walter, to L. A. Kocen. Clothes hanger. 2,872,090, 2-3-59, Cl. 223-94.  
 Goodmans Industries Ltd. : *See*—  
 Jordan, Edward J. 2,885,024.  
 Goodner, Monroe H., to Stephenson Corp. Two-stage gas regulator. 2,891,569, 6-23-59, Cl. 137-505.12.  
 Goodner, Monroe H., to Stephenson Corp. Demand valve. 2,918,073, 12-22-59, Cl. 137-64.  
 Goodrich, B. F., Co., The : *See*—  
 Antlanger, George J. 2,893,908.  
 Armstrong, Howard H. 2,909,823.  
 Billingsley, William F. 2,910,104.  
 Billingsley, William F., and Balzhiser. 2,869,609.  
 Black, Paul F., Gill, and Le Blanc. 2,916,816.  
 Bush, Thomas F. 2,909,493.  
 Cate, Malcolm S. 2,900,953.  
 Craig, David, Jones, and Semegen. 2,905,649.  
 Daley, Frederick M. 2,891,288.  
 Diem, Hugh E., and Tucker. 2,913,444.  
 Di Norscia, Gaetano A. 2,881,098.  
 Eilbeck, Gorman E., and Urig. 2,868,754.  
 Fink, Herbert H. 2,880,128.  
 Fink, Herbert H. 2,893,466.  
 Formanek, Robert J., and Wilson. 2,912,355.  
 Freeder, Herman. 2,889,805.  
 Gill, Richard H., Radke, and Kotheimer. 2,868,828.  
 Golub, Morton A. 2,878,175.  
 Golub, Morton A. 2,878,176.  
 Gregg, Earl C., Jr. 2,911,405.  
 Gregory, James T. 2,871,237.  
 Gregory, James T. 2,871,238.  
 Gretz, John L. 2,897,959.  
 Hendry, Charles M. 2,895,987.  
 Hydro, William R., and Willard. 2,894,942.  
 Jansen, Jacob E., and Kehe. 2,877,209.  
 Jennings, Garland B., and Parks. 2,902,460.  
 Jones, John F. 2,894,921.  
 Juve, Arthur E. 2,894,280.  
 Kahn, Henry. 2,909,151.  
 Kroeger, Edward P. 2,888,232.  
 Kuts, Richard M. 2,909,081.  
 Lessig, Edward T. 2,902,073.  
 Lessig, Edward T., and Wilson. 2,889,802.  
 Mathes, Roger A. 2,883,364.  
 Mathes, Roger A. 2,883,365.  
 Maxey, Edwin M. 2,905,581.  
 Morrissey, Richard T. 2,877,198.  
 Newton, Edwin B., and Sears. 2,880,191.  
 Newton, Edwin B., and Sears. 2,882,177.  
 Newton, Edwin B., and Sears. 2,894,929.  
 Oswalt, Burlin W. 2,918,797.  
 Page, Norman. 2,879,452.  
 Parmelee, James K. 2,867,089.  
 Perrini, Americo F., and Gretz. 2,888,095.  
 Reeve, William L., and Chrisman. 2,918,777.  
 Schollenberger, Charles S. 2,871,218.  
 Schollenberger, Charles S. 2,899,411.  
 Seaton, John H. 2,884,042.  
 Semegen, Stephen T. 2,873,481.  
 Snyder, Clarence E. 2,917,096.  
 Snyder, Frank D. 2,908,792.  
 Talalay, Anselm. 2,901,773.  
 Tucker, Harold. 2,895,940.  
 Uelzmann, Heinz. 2,904,526.  
 Wagner, William T. 2,905,970.  
 Watson, Arthur E., and Barns. 2,902,082.  
 West, Michael J., and Cutarelli. 2,876,824.  
 Weston, Roger D., and Barns. 2,897,543.  
 Widzer, Arthur S. 2,912,283.  
 Wilhelm, Robert J., and Waugaman. 2,894,855.  
 Wootton, Gerald V., and Hoxie. 2,871,214.  
 Goodrich, George W. : *See*—  
 Beck, Derwood A., Goodrich, and Verge. 2,881,980.  
 Goodrich, Gordon W., to The Martin Co. Modular display arrangement. 2,914,872, 12-1-59, Cl. 40-124.  
 Goodrich-Gulf Chemicals, Inc. : *See*—  
 Miller, Floyd F., and Conner. 2,905,659.  
 Goodrich, Hunter C. : *See*—  
 Kidd, Marshall C., and Goodrich. 2,906,817.  
 Goodrich, Hunter C., to Radio Corp. of America. Transistor reactance circuit. 2,870,421, 1-20-59, Cl. 333-80.  
 Goodrich, Hunter C., to Radio Corp. of America. Noise immune automatic gain control circuit. 2,878,312, 3-17-59, Cl. 178-7.3.  
 Goodrich, Hunter C., to Radio Corp. of America. Amplitude discriminatory system. 2,890,352, 6-9-59, Cl. 307-88.5.  
 Goodrich, Hunter C., to Radio Corp. of America. Sawtooth wave generator. 2,891,192, 6-16-59, Cl. 315-27.  
 Goodrich, Hunter C., to Radio Corp. of America. Transistor, operating in collector saturation carrier-storage region, converting pulse amplitude to pulse duration. 2,905,815, 9-22-59, Cl. 250-20.  
 Goodrich, Hunter C., to Radio Corp. of America. Transistor phase detector circuit. 2,906,818, 9-29-59, Cl. 178-7.3.  
 Goodrich, John J., to St. Regis Paper Co. Container with trough feeding means and trough insert therefor. 2,885,141, 5-5-59, Cl. 229-66.  
 Goodrich, William. Die handling and assembly machine. 2,914,968, 12-1-59, Cl. 76-4.  
 Goodridge, Laurence M., and C. L. Martin. Pressure injection type carburetor. 2,871,841, 2-3-59, Cl. 123-119.  
 Goodridge, Laurence M., and C. L. Martin, to ACF Industries, Inc. Tangential nozzle type carburetor. 2,877,003, 3-10-59, Cl. 261-62.  
 Goodrum, Richard B., to Jones and Lamson Machine Co. Universal chuck. 2,883,201, 4-21-59, Cl. 279-113.  
 Goodspeed Machine Co. : *See*—  
 Witt, Kenneth F. 2,902,064.  
 Goodspeed, Perry C., Jr., to Cornell Valve Corp. Aerosol valve. 2,908,479, 10-13-59, Cl. 251-320.  
 Goodwin, A. D., & Son, Inc. : *See*—  
 Goodwin, Alfred D. 2,891,372.  
 Goodwin, Alfred D. 2,892,505.  
 Goodwin, Alfred D., to A. D. Goodwin & Son, Inc. Combination knocker and limb shaker. 2,891,372, 6-23-59, Cl. 56-328.  
 Goodwin, Alfred D., to A. D. Goodwin & Son, Inc. Vehicle with steering by driving mechanism. 2,892,505, 6-30-59, Cl. 180-6.66.  
 Goodwin, Chester H., to The Chemstrand Corp. High speed washing and relaxing thread advancing storage reel. 2,898,756, 8-11-59, Cl. 68-205.  
 Goodwin, Donald F., and J. X. Sopkovich. Portable gun bore cleaner. 2,897,525, 8-4-59, Cl. 15-104.165.  
 Goodwin, Fil F., to Burroughs Corp. Sheet handling apparatus. 2,871,638, 2-3-59, Cl. 53-32.  
 Goodwin, Francis L., Jr., to ACF Industries, Inc. Module. 2,890,390, 6-9-59, Cl. 317-101.  
 Goodwin, John H., to Overly Mfg. Co. Roofing construction. 2,885,974, 5-12-59, Cl. 108-21.  
 Goodwin, John S., to Globe Oil Tools. Well-drilling roller bit. 2,875,984, 3-3-59, Cl. 255-313.  
 Goodwin, Manfred E., E. W. Sawyer, Jr., and H. A. Smith, to Minerals & Chemicals Corp. of America. Joint sealing compounds containing attapulgite. 2,894,848, 7-14-59, Cl. 106-278.  
 Goodwin, Norris, to N. Goodwin and G. G. Sanders jointly as trustees. Continuous vortical classifier. 2,897,965, 8-4-59, Cl. 209-211.  
 Goodwin, William V. : *See*—  
 Korman, Nathaniel I., and Goodwin. 2,876,446.  
 Goody, Robert B., to Federal Electric Products Co. Automatic controls for vaporizers. 2,876,364, 3-3-59, Cl. 250-218.  
 Goodyear Aircraft Corp. : *See*—  
 Frownfelter, Charles R., Harry, Hassard, and Shearer. 2,912,716.  
 Hampshire, William J., and Lepore. 2,868,439.  
 Morrill, Charles D., Hosterman, and Vance. 2,875,389.  
 Nielsen, James S. 2,905,064.  
 Goodyear, Charles R., to Holley Carburetor Co. Carburetor assembly. 2,892,622, 6-30-59, Cl. 261-41.  
 Goodyear Tire & Rubber Co., The : *See*—  
 Armstrong, Edward T. 2,888,103.  
 Barrington, Charles E. 2,909,194.  
 Beauchamp, Wilfred A., and Gerstenmaier. 2,907,080.  
 Beebe, Paul, Jr. 2,899,788.  
 Bender, Newell R. 2,888,412.  
 Bender, Newell R., and Rogers. 2,888,409.  
 Bricker, Carl E., and Runner. 2,916,884.  
 Culbertson, James A. 2,909,245.  
 Enabnit, Robert S. 2,900,454.  
 Fauser, Ernest E. 2,888,432.  
 Frayer, Theodore, and Runner. 2,900,052.  
 Finelli, Anthony F., and Seeger. 2,888,437.  
 Frayer, Theodore. 2,888,104.  
 Garrett, John E., and Gerstenmaier. 2,905,985.  
 George, Everett D. 2,888,059.  
 Hardman, Albert F. 2,888,445.  
 Harpfer, Donald E. 2,899,982.  
 Hawley, Jesse G. 2,887,961.  
 Hayes, Donald W. 2,900,371.  
 Hayes, Donald W., and Roberts. 2,888,443.  
 Herman, Eugene T. 2,899,721.  
 Hillegass, Kenneth P. 2,900,051.  
 Hirzel, Edgar A. 2,917,135.  
 Ivy, Mary E. 2,878,928.  
 Jones, Charles F. 2,908,940.  
 Kilborn, Karl B. 2,908,936.  
 Lafaye, Hilton J. 2,900,006.



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- Lafaye, Hilton J. 2,917,098.  
 Lee, Walter J. 2,917,097.  
 Manis, Peter, and Vogelsang. 2,888,058.  
 Ogilby, Stewart R. 2,885,456.  
 Pace, Henry A. 2,879,233.  
 Pace, Henry A. 2,888,411.  
 Pace, Henry A. 2,888,413.  
 Parks, Carl R. 2,909,584.  
 Peterson, Lawrence E. 2,878,835.  
 Riggs, Frederick S. 2,884,984.  
 Riggs, Mart B. 2,900,005.  
 Rogers, Thomas H., Jr., and Bender. 2,888,408.  
 Roberts, Harold P., and Bair. 2,917,567.  
 Roberts, Harold P., and Hayes. 2,888,444.  
 Runner, John W. 2,878,901.  
 Seeger, Nelson V., and Mastin. 2,879,251.  
 Snyder, James E., and Ferner. 2,900,260.  
 Snyder, James E., and Ferner. 2,900,261.  
 Snyder, James E., Ferner, and Collins. 2,888,350.  
 Snyder, James E., and Swartz. 2,900,259.  
 Spacht, Ronald B. 2,900,362.  
 Spacht, Ronald B. 2,909,504.  
 Spacht, Ronald B., and Sturm. 2,888,423.  
 Taylor, Charles W. 2,908,938.  
 Taylor, Charles W., and Komp. 2,885,379.  
 Taylor, Stephen A. 2,909,271.  
 Ten Broeck, Walter T. L., Jr. 2,888,504.  
 Ten Broeck, Walter T. L., Jr. 2,888,505.  
 Wallace, James M., Jr. 2,888,435.  
 Waller, Richard C. 2,917,422.  
 Weinstein, Arthur H. 2,900,404.  
 Woodward, Alva W. 2,878,551.  
 Woodward, Alva W. 2,900,016.
- Goodyear, Wayne G.: *See*—  
 Barre, Henry J., Reader, and Goodyear. 2,901,960.
- Goodykoontz, James R., Jr., to Hughes Aircraft Co. Three dimensional aligning apparatus for electronic components. 2,870,728, 1-27-59, Cl. 113-99.
- Goggin, John M., to United States of America, Atomic Energy Commission. Preparation of high density  $UO_2$ . 2,906,598, 9-29-59, Cl. 23-14.5.
- Goggin, John M., Jr., to United States of America, Atomic Energy Commission. Formation of uranium precipitates. 2,878,100, 3-17-59, Cl. 23-14.5.
- Gookin, Sylvester L., to United Shoe Machinery Corp. Work indexing mechanism for fastener inserting machines. 2,874,864, 2-24-59, Cl. 218-15.
- Goold, Reed: *See*—  
 De Ford, Perl E. 2,869,398.
- Gooldy, Layton T. Humidifier. 2,883,511, 4-21-59, Cl. 219-38.
- Gookasian, Peter A. Electrically responsive repetitive-surge indicators. 2,918,054, 12-22-59, Cl. 128-2.
- Goon, Edward J.: *See*—  
 Goldberg, Seymour, and Goon. 2,919,368.
- Goosman, Herbert J., to The Singer Mfg. Co. Belt guards for sewing machines. 2,906,223, 9-29-59, Cl. 112-261.
- Goossens, Louis A. Reinforced concrete product machine. 2,896,297, 7-28-59, Cl. 25-41.
- Gootherts, Jerome W., to American Radiator & Standard Sanitary Corp. Double rotor jet switch. 2,911,489, 11-3-59, Cl. 200-32.
- Gopfert, Herbert, and J. Bonisch, to VEB Zeiss Ikon Dresden. Coupling arrangement especially for use in cinematographic devices or the like. 2,896,756, 7-28-59, Cl. 192-84.
- Gora, Henry Z., to The Eagle-Picher Co. Molding apparatus. 2,915,784, 12-8-59, Cl. 18-20.
- Goralske, Arthur W.: *See*—  
 Makovic, Frank J., Jr., and Goralske. 2,893,905.
- Gorceya, Edward R.: *See*—  
 Hoyer, Llewellyn E., and Gorceya. 2,915,860.
- Gordo, Fred L., and J. C. Widmont, Jr., to Paper Mate Mfg. Co. Tandem writing instruments. 2,910,045, 10-27-59, Cl. 120-42.1.
- Gordon, Allen J. Ambulant discharge irrigating device. 2,893,643, 7-7-59, Cl. 239-177.
- Gordon, Arthur F., to Dow Corning Corp. Method of preparing cyclic siloxanes. 2,884,432, 4-28-59, Cl. 260-448.2.
- Gordon, Bernard: *See*—  
 Fidelman, Paul H. 2,882,598.
- Gordon, Bernard M.: *See*—  
 Meyer, Maurice A., and Gordon. 2,910,237.
- Gordon, Bernard M., to Epsco, Inc. Frequency meter circuit. 2,905,895, 9-22-59, Cl. 324-79.
- Gordon, Bernard M., to Laboratory for Electronics, Inc. Synchronized rate multiplier apparatus. 2,913,179, 11-17-59, Cl. 235-164.
- Gordon, Bernard M., and R. L. Gibson, to Epsco, Inc. Indicating device. 2,908,900, 10-13-59, Cl. 340-319.
- Gordon-Brown Co.: *See*—  
 Brown, Ivan H., and Gordon. 2,897,411.
- Gordon, Carroll G., to Fletcher Aviation Corp. Hydraulic motor control. 2,884,904, 5-5-59, Cl. 121-39.
- Gordon, Carroll G. Rotary pump. 2,909,126, 10-20-59, Cl. 103-172.
- Gordon, Carroll M.: *See*—  
 Sorensen, Earl G., and Gordon. 2,873,065.
- Gordon, Charles W., to Combustion Engineering, Inc. Apparatus for drying comminuted coal containing fine particles and dust. 2,909,133, 10-20-59, Cl. 110-104.
- Gordon, David A.: *See*—  
 Duke, Marshall W., and Gordon. 2,878,238.
- Gordon, David A., to The Dow Chemical Co. Alkenyl-substituted 2-hydroxybenzophenone stabilizers. 2,904,529, 9-15-59, Cl. 260-459.95.
- Gordon, David A., to The Dow Chemical Co. Chloroethylene polymer and di-9-fluorenyl ethers or dibenzhydryl ethers. 2,906,727, 9-29-59, Cl. 260-45.7.
- Gordon, David A., to The Dow Chemical Co. 2-allyloxy-5-chlorobenzophenone. 2,906,778, 9-29-59, Cl. 260-591.
- Gordon, David A., to The Dow Chemical Co. Light stable haloethylene polymer compositions. 2,910,453, 10-27-59, Cl. 260-45.85.
- Gordon, David A., to The Dow Chemical Co. Lower alkylphenyl 2,4-dichlorobenzoates. 2,913,483, 11-17-59, Cl. 260-476.
- Gordon, David A., to The Dow Chemical Co. Diphenylmethyl 3,4-dichlorobenzoate. 2,913,484, 11-17-59, Cl. 260-476.
- Gordon, David A., to The Dow Chemical Co. 2,7-dimethyl-3,5-octadiyne-2,7-diol bis (p-chlorobenzoate). 2,913,485, 11-17-59, Cl. 260-476.
- Gordon, David A., and J. M. Corbett, to The Dow Chemical Co. 4-alkylphenyl esters of 4-chlorobenzoic acid. 2,914,555, 11-24-59, Cl. 260-476.
- Gordon, Dan: *See*—  
 Cooper, Guy R., and Tomlin. 2,896,910.
- Gordon, Dwight M., to ACF Industries, Inc. Secondary throttle control for multi-stage carburetors. 2,890,030, 6-9-59, Cl. 261-23.
- Gordon, Dwight M., to ACF Industries, Inc. Carburetor throttle control. 2,913,921, 11-24-59, Cl. 74-472.
- Gordon, Edward D., to J. I. Case Co. Disc tiller. 2,879,854, 3-31-59, Cl. 172-401.
- Gordon, Edward L. Dispenser cap. 2,894,660, 7-14-59, Cl. 222-108.
- Gordon, Eliot. Prosthetic dental product. 2,874,832, 2-24-59, Cl. 206-63.5.
- Gordon, Garland R., and G. Savage, Jr., to General Dynamics Corp. Drafting apparatus. 2,873,535, 2-17-59, Cl. 33-189.
- Gordon, George B. Flower holder. 2,890,546, 6-16-59, Cl. 47-41.
- Gordon, Hayden S., to Applied Radiation Corp. Vacuum trap. 2,904,665, 9-15-59, Cl. 219-19.
- Gordon, Herman L.: *See*—  
 Rabben, Ellis L. 2,889,743.
- Gordon, Howard W.: *See*—  
 Fidelman, Paul H. 2,882,598.
- Gordon, James. Multiple dovetailed terminal blocks. 2,892,176, 6-23-59, Cl. 339-198.
- Gordon, James A. Apparatus for harnessing the power of the wind. 2,896,727, 7-28-59, Cl. 170-38.
- Gordon, James, and Co. Ltd.: *See*—  
 Schippers, Joah F. 2,875,783.
- Gordon, James F.: *See*—  
 Corl, John L., and Gordon. 2,900,601.
- Gordon, James M. Ltd. 2,892,566, 6-30-59, Cl. 220-55.
- Gordon, John E. Adjustable mitring square. 2,917,831, 12-22-59, Cl. 33-90.
- Gordon, John M., to Gilbert & Barker Mfg. Co. (Australia) Pty. Ltd. Means for operating liquid supply valves. 2,869,584, 1-20-59, Cl. 137-630.
- Gordon, Joseph, and C. Woolf, to Allied Chemical Corp. Polymers of 2-difluorovinyl methyl ether. 2,870,222, 1-20-59, Cl. 260-615.
- Gordon, Joseph, and C. Woolf, to Allied Chemical Corp. Manufacture of sym-tetrafluoroacetone. 2,917,546, 12-15-59, Cl. 260-593.
- Gordon, Lloyd L., to Electronic Associates, Inc. Cathode ray tube energizing circuit. 2,879,445, 3-24-59, Cl. 315-15.
- Gordon, Murray A., to Berkeley Industries. Screen panel. 2,893,484, 7-7-59, Cl. 160-229.
- Gordon, Philip L., and A. E. Cohen, to The Borden Co. Water paint comprising pigment and aqueous emulsion of polyvinyl acetate and waxy maize starch. 2,914,495, 11-24-59, Cl. 260-17.4.
- Gordon, Philip N., to Chas. Pfizer & Co., Inc. Antimicrobial agents. 2,908,606, 10-13-59, Cl. 167-33.
- Gordon, Reuben H.: *See*—  
 Brown, Ivan H., and Gordon. 2,897,411.  
 Brown, Ivan H., and Gordon. 2,917,042.
- Gordon, Robert B., and R. C. McCollum, to Morris H. Dresner. Vehicle signalling apparatus. 2,876,432, 3-3-59, Cl. 340-81.
- Gordon, Samuel M.: *See*—  
 Schlesinger, Albert, and Gordon. 2,917,508.
- Gordon, Seymour. Adjustable gauge attachment holder for sewing machines. 2,868,153, 1-13-59, Cl. 112-257.
- Gordon, Seymour E. Multi-spindle drilling machine with individual adjustment along a common drive shaft. 2,886,988, 5-19-59, Cl. 77-22.
- Gordon, Thomas C., Jr.: *See*—  
 Rogers, Alan B., and Gordon. 2,876,100.
- Gordon, Thurlow M., Jr., and H. L. Taylor, Jr. System for recording sound magnetically. 2,906,827, 9-29-59, Cl. 179-100.2.
- Gordon, William J. J.: *See*—  
 Davison, Robert T. B., Eriksson, Gordon, and Marden. 2,883,086.
- Gordon, William J. J., and G. C. Graham, Jr., to Personal Products Corp. Catamenial device. 2,879,769, 3-31-59, Cl. 128-263.



- Gordy Air-Less Spray Co.: *See*—  
Glaze, Tom H., and Shaver. 2,908,247.
- Gore, Chester F., to Electro-Snap Switch & Mfg. Co. Dispensing machine. 2,890,781, 6-16-59, Cl. 194-10.
- Gore, David N., to Macleans Ltd. Co-precipitate of aluminum hydroxide with magnesium carbonate and/or calcium carbonate. 2,880,136, 3-31-59, Cl. 167-55.
- Gore, Graves T., to Riegel Textile Corp. Textile fabric having spaced portions bearing wear resistant resin dots and method and apparatus for producing same. 2,893,314, 7-7-59, Cl. 101-118.
- Gore, Le Roy D.: *See*—  
Hanson, Theodore L., and Gore. 2,880,910.
- Gore, Le Roy D., T. L. Hanson, and D. W. McBride, to The Vendo Co. Carbonated beverage dispensing valve. 2,907,547, 10-6-59, Cl. 251-54.
- Goreau, Theodore N., to Westinghouse Electric Corp. Plastic molding for shuttle. 2,905,208, 9-22-59, Cl. 139-196.
- Goree, Raymond E.: *See*—  
Blankenship, Ernest B., and Goree. 2,903,709.
- Goren, Mayer B., to Kerr-McGee Oil Industries, Inc. Process in compounding rubbery polymers with hydrocarbon extended and modified clay and product obtained. 2,886,550, 5-12-59, Cl. 260-33.6.
- Goren, Mayer B., and I. D. Elkins, to Kerr-McGee Oil Industries, Inc. Cation exchange material and its preparation. 2,885,336, 5-5-59, Cl. 208-6.
- Goren, Mayer B., and I. D. Elkins, to Kerr-McGee Oil Industries, Inc. Ion exchange material. 2,900,351, 8-18-59, Cl. 252-422.
- Goren, Mayer B., M. W. Pickell, and L. Garwin, to Kerr-McGee Oil Industries, Inc. Cation exchange materials and their preparation. 2,911,373, 11-3-59, Cl. 252-179.
- Gores, Philip, to Chrysler Corp. Electrical switch and control mechanism. 2,881,278, 4-7-59, Cl. 200-61.89.
- Goretta, Louis A., and M. J. Den Herder, to Standard Oil Co. Process for manufacture of high octane naphthas. 2,911,352, 11-3-59, Cl. 208-68.
- Gorey, Archie H., to Grafex, Inc. Message registering camera. 2,874,623, 2-24-59, Cl. 95-11.5.
- Gorey, Archie H., to Grafex, Inc. Shutter for photographic cameras. 2,895,391, 7-21-59, Cl. 95-11.5.
- Gorey, Archie H., to Grafex, Inc. Shutter timing mechanism for photographic cameras. 2,906,186, 9-29-59, Cl. 95-63.
- Gorga, William H.: *See*—  
Boron, Eugene F., Gorga, and Grubisa. 2,890,368.
- Boron, Eugene F., Yost, Gorga, and Uber. 2,889,387.
- Gorga, William H., E. W. Yost, C. H. Uber, and E. F. Boron, to Mallory-Sharon Titanium Corp. Furnace construction. 2,883,721, 4-28-59, Cl. 22-57.2.
- Gorgas, Henry L., to International Business Machines Corp. System for deriving a phase error signal between two pulse trains. 2,897,363, 7-28-59, Cl. 250-27.
- Gorham, George, to Conitech, Ltd. Pressure gage valve for respirators. 2,886,971, 5-19-59, Cl. 73-420.
- Gorham, George, to Technicon International Ltd. Time delay control device for tissue processing machines. 2,894,482, 7-14-59, Cl. 118-11.
- Gorin, Everett, to Consolidation Coal Co. Process for heat treating heat sensitive solid particles. 2,871,004, 1-27-59, Cl. 263-52.
- Gorin, Everett, to Consolidated Coal Co. Combustion of finely divided low volatile carbonaceous solid fuels. 2,903,980, 9-15-59, Cl. 110-23.
- Gorin, Everett, and H. L. Recht, to Consolidation Coal Co. Method for generating electrical energy from electrochemical combustion of fuel gases. 2,901,524, 8-25-59, Cl. 136-86.
- Gorin, Everett, and H. L. Recht, to Consolidation Coal Co. Shaped porous semi-conducting compositions of lithiated nickel oxide. 2,914,596, 11-24-59, Cl. 136-86.
- Gorman, Eugene F.: *See*—  
McElrath, Thomas, and Gorman. 2,905,805.
- Gorman, James M., and A. C. Keith, to Seymour Foods, Inc. Dried egg product and method of preparation. 2,901,360, 8-25-59, Cl. 99-210.
- Gorman, Kenneth P. Toroidal core rotator assembly. 2,872,123, 2-3-59, Cl. 242-4.
- Gorman, Patrick W.: *See*—  
Holm, Carl H., and Gorman. 2,886,049.
- Gorman, Richard M., and C. B. Leach, to General Motors Corp. Bumper exhaust. 2,902,102, 9-1-59, Cl. 180-64.
- Gorman-Rupp Industries, Inc.: *See*—  
Steidley, Virgil K. 2,870,941.
- Gormley, Robert S., to Bendix Aviation Corp. Electron discharge device. 2,900,561, 8-18-59, Cl. 315-5.23.
- Gormley, Robert S., R. G. Johnson, and W. L. Martin, to Bendix Aviation Corp. Electron discharge device. 2,878,415, 3-17-59, Cl. 315-5.21.
- Gorn Electric Co., Inc.: *See*—  
Ingram, Maxwell. 2,879,495.
- Gornall, Robert K., to Bendix Aviation Corp. Automatic choke control. 2,885,193, 5-5-59, Cl. 261-39.
- Gornitzka, Einar: *See*—  
Foy, Kjeld, and Gornitzka. 2,868,860.
- Gornowski, Edward J.: *See*—  
Nicolai, Lloyd A., Tyson, and Gornowski. 2,905,630.
- Gornowski, Edward J., to Esso Research and Engineering Co. Heat capacities of hydroforming recycle gas. 2,917,453, 12-15-59, Cl. 208-134.
- Gorozdos, Richard E.: *See*—  
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- Gorr, Walter O., to Knickerbocker Plastic Co., Inc. Musical box construction. 2,880,639, 4-7-59, Cl. 84-95.
- Gorrie, Harvard H.: *See*—  
Green, Thomas A., Gorrie, Shannon, and Fink. 2,874,573.
- Green, Thomas A., Gorrie, Shannon, and Fink. 2,885,536.
- Gorrie, Harvard H., to Bailey Meter Co. Fluid pressure transmitter. 2,884,940, 5-5-59, Cl. 137-85.
- Görriksen, Johan F.: *See*—  
Ramse, Kristian F. L., and Görriksen. 2,903,374.
- Gorrows, Mitchell G. Utility pole reinforcement. 2,897,553, 8-4-59, Cl. 20-100.
- Gorshkoff, Alexis S., and H. A. Reil, to The Snow-Nabstedt Gear Corp. Reverse gear. 2,916,930, 12-15-59, Cl. 74-377.
- Gorsky, Rudolph J.: *See*—  
Zink, George A., Child, Servi, and Gorsky. 2,899,725.
- Gorsky, Rudolph J., to General Motors Corp. Transmission control. 2,905,016, 9-22-59, Cl. 74-475.
- Gorter, Evert W.: *See*—  
Esveldt, Cornelis J., and Gorter. 2,905,641.
- Esveldt, Cornelis J., and Gorter. 2,916,456.
- Gorter, Evert W., and C. J. Esveldt, to North American Philips Co., Inc. Method of producing magnet cores having an approximately rectangular shape of the hysteresis loop. 2,882,234, 4-14-59, Cl. 252-62.5.
- Gorter, Evert W., and C. J. Esveldt, to North American Philips Co., Inc. Method of manufacturing magnetic cores. 2,882,235, 4-14-59, Cl. 252-62.5.
- Gorter, Evert W., C. J. Esveldt, and H. van der Helde, to North American Philips Co., Inc. Method of manufacturing magnet cores having a substantially rectangular outline of hysteresis loop. 2,882,236, 4-14-59, Cl. 252-62.5.
- Görth, Ernst E. Ventilating shutter. 2,887,034, 5-19-59.
- Gortner, John N., and C. A. Sims. Remote control system for television receiver. 2,887,529, 5-19-59, Cl. 178-5.8.
- Cl. 98-88.
- Gorton, Edward S., and C. E. Hayward, to Bemis Bro. Bag Co. Bag. 2,904,241, 9-15-59, Cl. 229-62.5.
- Gorton, George, Machine Co.: *See*—  
Gunderson, Allen D. 2,868,086.
- Peterson, Donovan F., and Welch. 2,909,684.
- Gorton, William G., to Raytheon Mfg. Co. Depth-controlling devices for objects towed in water. 2,879,737, 3-31-59, Cl. 114-235.
- Gorzalany, Frank J., and A. Bennett, to Bendix Aviation Corp. Turn control for automatic pilot systems. 2,883,127, 4-21-59, Cl. 244-77.
- Gorzalany, Frank J., and M. F. Tursky, to Bendix Aviation Corp. System for returning a craft to level flight. 2,889,509, 6-2-59, Cl. 318-489.
- Goslin-Birmingham Mfg. Co., Inc.: *See*—  
Little, John W. 2,902,841.
- Mair, James. 2,872,974.
- Gosman, Clarence B. Inflatable cushion or the like. 2,887,692, 5-26-59, Cl. 5-348.
- Goss, Charles G.: *See*—  
Gagle, Duane W. Goss, and Bowles. 2,882,714.
- Goss, Harold J., to International Paper Box Machine Co. Box stacking apparatus. 2,896,519, 7-28-59, Cl. 93-51.
- Goss, James W. Flexibly mounted mail box. 2,911,174, 11-3-59, Cl. 248-160.
- Goss, Norman P., to Diamond Alkali Co. Metal treating process. 2,871,140, 1-27-59, Cl. 117-49.
- Goss, Norman P. Apparatus for the continuous casting of metals. 2,893,080, 7-7-59, Cl. 22-57.2.
- Goss, Wilbur H.: *See*—  
Sloan, David H., and Goss. 2,892,410.
- Goss, Wilbur H., to United States of America, Navy. Injector and method for fuel injection. 2,881,588, 4-14-59, Cl. 60-39.74.
- Goss, Wilbur H., to United States of America, Navy. Auxiliary carriage arrangement for a missile. 2,899,898, 8-18-59, Cl. 102-49.
- Goss, Wyman, and E. R. Andrews, to General Electric Co. Plastic testing machine. 2,892,342, 6-30-59, Cl. 73-12.
- Gossard, Charles M., to Pangborn Corp. Reversible centrifugal blasting method and apparatus. 2,869,289, 1-20-59, Cl. 51-9.
- Gossard, H. W. Co., The: *See*—  
Steinmetz, Pearl J. 2,882,906.
- Gossard, Morris G., to Standard Coil Products Co., Inc. Electrical fine tuning device. 2,873,374, 2-10-59, Cl. 250-40.
- Gossard, Thomas F., to Standard Coil Products Co., Inc. Memory delay unit. 2,905,936, 9-22-59, Cl. 340-348.
- Gosselin, Charles J.,  $\frac{1}{2}$  to M. A. Nishkian. Fuel tank vapor recovery apparatus. 2,908,299, 10-13-59, Cl. 141-287.
- Gosselin, Raymond A.: *See*—  
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- Gossen, Hans: *See*—  
Schultze, Werner, and Gossen. 2,886,712.
- Gossen, Hans, W. Kroger, and W. Illing, to P. Gossen & Co. G.m.b.H. Exposure control. 2,879,702, 3-31-59, Cl. 95-10.
- Gossen, Martin J. Boat mooring apparatus. 2,873,712, 2-17-59, Cl. 114-230.



- Gossen, P., & Co. G.m.b.H.: *See*—  
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- Gossett, John M., M. H. Estep, Jr., and M. J. Perrine, to American-Marietta Co. Production of glue from soluble blood. 2,874,134, 2-17-59, Cl. 260-66.
- Gossler, Heinz. Utensil incorporating a writing implement and cigarette holder. 2,870,771, 1-27-59, Cl. 131-178.
- Gossling, Brian S.: *See*—  
 Jones, David J., and Gossling. 2,881,104.
- Gotaas, Harold B., and W. J. Oswald, to The Regents of the University of California. Process of photosynthetic conversion of organic waste by algal-bacterial symbiosis. 2,867,945, 1-13-59, Cl. 47-58.
- Gotaas-Larsen, Inc.: *See*—  
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- Gotha, Daniel F., to O. S. Walker Co., Inc. Magnetic driver for annular work. 2,883,197, 4-21-59, Cl. 279-1.
- Gott, Earl A.: *See*—  
 Sorensen, Egon, Gott, and Hayes. 2,914,252.
- Gott, Richard F., and E. J. H. Lane. Quick attachment device. 2,883,930, 4-28-59, Cl. 102-2.
- Götte, Ernst: *See*—  
 Höpfner, Konrad, and Götte. 2,895,933.  
 Höpfner, Konrad, and Götte. 2,902,449.  
 Höpfner, Konrad, and Götte. 2,912,352.
- Gottfried, Louis, and J. Berger. Baby carriage. 2,917,339, 12-15-59, Cl. 296-35.
- Gottfried, Paul: *See*—  
 McNaughton, John F., and Gottfried. 2,872,254.
- Gottlieb, Hans B., to E. I. du Pont de Nemours and Co. Phthalocyanine coloring matters in pigmentary form. 2,910,482, 10-27-59, Cl. 260-314.5.
- Gottlieb, Jack L. Multiple boring machines. 2,890,730, 6-16-59, Cl. 144-112.
- Gottlieb, Marvin, to Sperry Rand Corp. Electromechanical synchronizer. 2,909,319, 10-20-59, Cl. 235-61.11.
- Gottmanns, Heinz, to Dynamit-Actien-Gesellschaft vormals Alfred Nobel & Co. Multi-spindle worm-press. 2,887,720, 5-26-59, Cl. 18-12.
- Gottsacker, Raymond F.: *See*—  
 Schaefer, Carl A., and Gottsacker. 2,902,551.
- Gottschalk, Warren E., and R. M. Lacoek. Table construction. 2,905,334, 9-22-59, Cl. 211-135.
- Gottschall, Herbert A. Battery and method of making same. 2,904,614, 9-15-59, Cl. 136-133.
- Gottschall, Herbert A., S. F. Guggenheim, and P. J. Waznys. Potentiometer. 2,900,615, 8-18-59, Cl. 338-176.
- Gottschall, Herbert A., A. S. Louis, and S. F. Guggenheim. Potentiometer. 2,908,882, 10-13-59, Cl. 338-131.
- Gottscho, Adolph, Inc.: *See*—  
 Gottscho, Ira S., and Hirschev. 2,887,952.  
 Gottscho, Ira S., Hirschev, and Alessi. 2,901,968.  
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- Gottscho, Alfred M., to General Cigar Co., Inc. Tobacco products and process therefor. 2,897,103, 7-28-59, Cl. 131-17.
- Gottscho, Ira S.: *See*—  
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- Gottscho, Ira S., and M. Hirschev, to Dennison Mfg. Co. Transfer labeling apparatus. 2,874,499, 2-24-59, Cl. 41-1.
- Gottscho, Ira S., and M. Hirschev, to Adolph Gottscho, Inc. Ink rollers. 2,887,952, 5-26-59, Cl. 101-367.
- Gottscho, Ira S., M. Hirschev, and A. J. Alessi, Jr., to Adolph Gottscho, Inc. Marking devices. 2,901,968, 9-1-59, Cl. 101-35.
- Gottscho, Ira S., M. Hirschev, and A. J. Alessi, Jr., to Adolph Gottscho, Inc. Marking devices. 2,901,972, 9-1-59, Cl. 101-350.
- Gottshall, Ralph I., and R. T. Kern, Jr., to Gulf Oil Corp. New chemical compounds and mineral oil compositions containing the same. 2,902,499, 9-1-59, Cl. 260-404.5.
- Gottshall, Ralph I., and M. L. Hill, Jr., to Gulf Oil Corp. Stable distillate fuel oil compositions. 2,905,541, 9-22-59, Cl. 44-72.
- Gottshall, Ralph I., and M. L. Hill, Jr., to Gulf Oil Corp. Stable distillate fuel oil compositions. 2,905,542, 9-22-59, Cl. 44-72.
- Gottwald, Walter: *See*—  
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- Gotz, Armin: *See*—  
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- Götzfried, Konrad. Process and apparatus for spinning a yarn. 2,911,783, 11-10-59, Cl. 57-58.95.
- Gotzinger, Franz: *See*—  
 Knaess, Franz J., Fischer, Gotzinger, and Kronacher. 2,886,417.
- Goudy, Paul R., and H. P. Stock, to Square D Co. Contact holder. 2,885,516, 5-5-59, Cl. 200-166.
- Gough, Alfred B., and C. N. Weiler, to General Electric Co. High efficiency floodlight projector. 2,913,570, 11-17-59, Cl. 240-3.
- Gough, Sidney W., and J. A. Morgan, to Dunlop Tire and Rubber Corp. Machines for testing pneumatic tires. 2,869,362, 1-20-59, Cl. 73-146.
- Gouirand, Rene. Pneumatic suspension for motor vehicles. 2,877,010, 3-10-59, Cl. 267-15.
- Gouirand, Rene. Pneumatic vehicle suspension. 2,882,067, 4-14-59, Cl. 280-104.5.
- Gouirand, Rene. Combination chassis frame and pneumatic suspension for vehicles. 2,914,339, 11-24-59, Cl. 280-124.
- Gould, Alex., to G & S Metal Products Co., Inc. Floating skimmer. 2,913,117, 11-17-59, Cl. 210-242.
- Gould, Charles C., and E. G. Anger, to Square D Co. Motor regulator systems. 2,911,580, 11-3-59, Cl. 318-327.
- Gould, David H.: *See*—  
 Oliveto, Eugene P., and Gould. 2,897,216.
- Gould, David H., H. Reimann, and L. E. Finckenor, to Schering Corp. 9,11-dihalogeno-4-pregnenes and 1,4-pregnadienes. 2,894,963, 7-14-59, Cl. 260-397.45.
- Gould, David H., H. L. Herzog, and E. B. Hersberg, to Schering Corp. 11,17 disubstituted 3 keto- $\Delta^{1,4,6}$  androstatrienes. 2,899,447, 8-11-59, Cl. 260-397.3.
- Gould, David H., E. B. Hersberg, and E. Shapiro, to Schering Corp. 14a-hydroxy pregnatrienes. 2,900,400, 8-18-59, Cl. 260-397.45.
- Gould & Eberhardt, Inc.: *See*—  
 Bissinger, Walter J. 2,869,933.
- Gould, Eugene: *See*—  
 Dickinson, Robert V. C., and Gould. 2,884,598.
- Gould, Jack R.: *See*—  
 Feiberg, Robert S., and Gould. 2,900,788.
- Gould, Jack U., to Ferdinand Gutmann & Co. Closures for packages of biological products. 2,891,689, 6-23-59, Cl. 215-38.
- Gould, Jay P. Well head. 2,889,886, 6-9-59, Cl. 166-89.
- Gould, Jay P. Deep well pumping actuator. 2,918,014, 12-22-59, Cl. 103-46.
- Gould-National Batteries, Inc.: *See*—  
 Zahn, Harold E. 2,906,805.
- Gould, Ralph L. Safety air gun. 2,917,244, 12-15-59, Cl. 239-291.
- Gould, Richard E., to General Motors Corp. Automobile refrigerating apparatus. 2,884,768, 5-5-59, Cl. 62-225.
- Gould, Richard E., to General Motors Corp. Vehicle refrigerating apparatus. 2,911,798, 11-10-59, Cl. 62-180.
- Gould, Samuel, to GHN Neon Sign Co. Control unit. 2,877,384, 3-10-59, Cl. 315-183.
- Gould, Thelma. Pre-assembled bath room unit. 2,907,048, 10-6-59, Cl. 4-2.
- Goulding Mfg. Co.: *See*—  
 Parkinson, Edward J. 2,915,961.
- Goumeniouk, Gleb I., to Rice Barton Corp. Fluid stock distributor. 2,894,581, 7-14-59, Cl. 162-339.
- Gouner, Aubrey L., to Wembley, Inc. Device for advertising and displaying neckties. 2,910,214, 10-27-59, Cl. 223-87.
- Gouner, Aubrey L., to Wembley, Inc. Necktie ornamentation. 2,918,678, 12-29-59, Cl. 2-144.
- Gourley, Lockie W. Soil sampling device. 2,891,812, 6-23-59, Cl. 294-50.6.
- Gournay, Luke S., to Socony Mobil Oil Co., Inc. Gamma ray collimating device. 2,871,367, 1-27-59, Cl. 250-105.
- Govan, Roy H., and H. J. Meek, to Jaroco Engineering Co. Hydraulic system. 2,875,871, 3-3-59, Cl. 192-3.
- Govan, Roy H., and H. J. Meek, to Jaroco Engineering Co. Hydraulic system for control of a valve and follow-up indicator. 2,888,029, 5-26-59, Cl. 137-344.
- Govan, Roy H., and H. J. Meek, to Jaroco Engineering Co. Control system for valves. 2,918,085, 12-22-59, Cl. 137-557.
- Govan, William L., to Baldwin-Lima-Hamilton Corp. Production of shapes of varying cross-section. 2,899,053, 8-11-59, Cl. 207-2.
- Govang, James A., to The New Haven Board & Carton Co. Shipping and dispensing cartons. 2,909,310, 10-20-59, Cl. 229-17.
- Gow, Arthur R., and P. S. Madsen, to The Seamless Rubber Co. Athletic ball. 2,906,533, 9-29-59, Cl. 273-65.
- Gow, Quinn W. Radial flow electric fan. 2,905,377, 9-22-59, Cl. 230-250.
- Gow, Quinn W. Scalp and hair treatment apparatus. 2,914,066, 11-24-59, Cl. 128-66.
- Gow, Robert S., J. F. Williamson, deceased, by A. J. Williamson, executrix, to Imperial Chemical Industries Ltd. Penterythritol tetranitrate. 2,867,647, 1-6-59, Cl. 260-467.
- Gower, Howard D.: *See*—  
 Zweifel, Henry C., Voss, and Gower. 2,898,298.
- Gower, Hubert L.: *See*—  
 Smith, Stanley F., and Gower. 2,917,091.
- Gowing, Bertram T.: *See*—  
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- Goy, Dieter: *See*—  
 Goy, Gerhard and D. 2,907,574.
- Goy, Gerhard and D., to H. Wunder. Safety release for ski bindings. 2,907,574, 10-6-59, Cl. 280-11.35.
- Goyert, Philip R. Package and device for packaging containers. 2,891,664, 6-23-59, Cl. 206-65.
- Goyette, Ernest A. Smokers pipe rack. 2,907,469, 10-6-59, Cl. 211-60.
- Goyette, Louis E. Automatic resetting apparatus. 2,909,614, 10-20-59, Cl. 179-84.
- Graae, Johan E. A.: *See*—  
 Jonke, Albert A., Graae, and Levitz. 2,911,290.
- Grab, Werner: *See*—  
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- Grabe, Clarence G., to National Valve & Mfg. Co. Swinging pipe hanger. 2,905,417, 9-22-59, Cl. 248-60.
- Grabenstetter, Robert J.: See—
- Broge, Robert W., and Grabenstetter. 2,876,168.
- Graber, Carl D.: See—
- Behrens, Herbert C., and Graber. 2,912,118.
- Deaton, Charles U., and Graber. 2,869,485.
- Graber, Carl D., and H. C. Badenell, to Diebold, Inc. Vault door seating and bolting mechanism. 2,918,883, 12-29-59, Cl. 109-61.
- Graber, Dale D.: See—
- Totten, Gilbert V.P., and Graber. 2,911,901.
- Graber, John N., to Graber Mfg. Co., Inc. Supporting stirrup for tracks. 2,896,902, 7-28-59, Cl. 248-262.
- Graber, John N., to Graber Mfg. Co., Inc. Adjustable drapery hook with track. 2,901,795, 9-1-59, Cl. 24-81.
- Graber Mfg. Co., Inc.: See—
- Graber, John N. 2,896,902.
- Graber, John N. 2,901,795.
- Graber, Robert P., and C. S. Snoddy, Jr., to Merck & Co., Inc. Purification process for 9a-fluorohydrocortisone compounds. 2,876,238, 3-3-59, Cl. 260-397.45.
- Graber, Robert P., and C. S. Snoddy, Jr., to Merck & Co., Inc. Process for preparing 9a-fluoro steroids. 2,894,007, 7-7-59, Cl. 260-397.45.
- Graves, Walter, to American Tool Engineering, Inc. Turret type vertical milling machine. 2,901,946, 9-1-59, Cl. 90-14.
- Grabill, Ernest C.: See—
- Ely, Berten E., Jr., Grabill, and Perkins. 2,878,353.
- Grabinski, Joseph J.: See—
- McHenry, Thomas E., and Grabinski. 2,900,593.
- Grable, Donovan B. and L. C. Net type fishing apparatus. 2,891,342, 6-23-59, Cl. 43-8.
- Grable, Linda C.: See—
- Grable, Donovan B. and L. C. 2,891,342.
- Grabove, Herman. Multiple unit closure device. 2,877,841, 3-17-59, Cl. 160-91.
- Grabow, Fritz: See—
- Kummich, Theodor F., and Grabow. 2,883,020.
- Grabowski, Leonard R., to General Motors Corp. Lifting jack. 2,876,990, 3-10-59, Cl. 254-98.
- Grace, Billy J., to Motorola, Inc. Transistor horn. 2,910,689, 10-27-59, Cl. 340-384.
- Grace, Francis C. Television control system. 2,886,636, 5-12-59, Cl. 178-72.
- Grace, John M. Key chain. 2,901,903, 9-1-59, Cl. 70-457.
- Grace, Karl. Truck raising and supporting mechanism. 2,875,980, 3-3-59, Cl. 254-86.
- Grace, W. R., & Co.: See—
- Ahlberg, Jacob E., and Simpson. 2,900,348.
- Alholm, Wayne L., Campbell, Foye, Lynn, and Shanklin. 2,907,300.
- Baral, Leon L. 2,904,521.
- Christian, John D., and Lard. 2,905,671.
- Dreyfus, Robert L., Howe, and Perdue. 2,904,943.
- Ellis, Herbert M., and Shaines. 2,880,520.
- Fitch, Frederick T. 2,889,348.
- Fitch, Frederick T. 2,895,977.
- Fitch, Frederick T., and Armstrong. 2,916,352.
- Foye, Allen B. 2,880,900.
- Greenlie, David G. 2,910,041.
- Hayes, Norman J., and Ross. 2,897,094.
- Hemphill, Adley W. 2,879,546.
- Heyl, Edgar G., and Hitov. 2,885,105.
- Hurley, Forrest R. 2,901,511.
- Osipow, Lloyd I., and York. 2,903,445.
- Osipow, Lloyd I., and York. 2,903,446.
- Osipow, Lloyd I., and York. 2,919,248.
- Pearce, George W., and Johnson. 2,886,928.
- Rainer, William C., Redding, Hitov, Sloan, and Stewart. 2,877,500.
- Rainer, William C., Redding, Hitov, Sloan, and Stewart. 2,878,174.
- Rainer, William C., Redding, Hitov, Sloan, and Stewart. 2,904,480.
- Rudner, Bernard. 2,889,366.
- Rudner, Bernard. 2,891,060.
- Rudner, Bernard. 2,891,976.
- Rudner, Bernard. 2,892,832.
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- Rudner, Bernard. 2,894,028.
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- Rudner, Bernard. 2,894,032.
- Rudner, Bernard. 2,899,424.
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- Rudner, Bernard. 2,900,384.
- Rudner, Bernard. 2,909,530.
- Rudner, Bernard. 2,909,567.
- Rudner, Bernard, and Brooks. 2,888,483.
- Rudner, Bernard, and Brooks. 2,906,753.
- Rudner, Bernard, and Prapas. 2,893,996.
- Rudner, Bernard, and Tockman. 2,901,475.
- Rumsey, Herbert, Jr. 2,908,576.
- Rumsey, Herbert, Jr. 2,911,305.
- Rumsey, Herbert, Jr. 2,914,898.
- Selby, Meyer S., and Baush. 2,891,870.
- Wilson, Charles P. 2,901,440.
- Wynall, Milton E. 2,886,512.
- Gracier, Charles W. Wall and floor covering sample display device. 2,890,531, 6-16-59, Cl. 35-53.
- Grad, Adolf R., to The Oilgear Co. Pumping unit. 2,901,975, 9-1-59, Cl. 103-4.
- Grad, Adolf R., to The Oilgear Co. Piston and connecting rod assembly. 2,918,338, 12-22-59, Cl. 309-20.
- Gradišhar, Frederick J., to E. I. du Pont de Nemours and Co. Process for brominating and fluorinating halogenated methanes in a refractory alumina reaction zone. 2,875,254, 2-24-59, Cl. 260-653.8.
- Gradwohl, Violet L., to Terri Lee, Inc. Doll construction. 2,879,626, 3-31-59, Cl. 46-159.
- Grady, Charles B., Jr.: See—
- Wales, Nathaniel B., Jr., and Grady. 2,917,622.
- Grady, Charles B., Jr., to Monroe Calculating Machine Co. Carriage control of electrical readout means. 2,917,233, 12-15-59, Cl. 235-60.38.
- Grady, Claude. Portable drawing board. 2,896,328, 7-28-59, Cl. 33-80.
- Grady, Dennis, H. Bates, and J. W. Fisher, to British Celanese Ltd. Manufacture of cellulose ester materials. 2,872,331, 2-3-59, Cl. 106-178.
- Grady, Francis H., to General Motors Corp. Transmission control indicator mechanism. 2,869,506, 1-20-59, Cl. 116-124.
- Grady, Francis H., to General Motors Corp. Vehicle controls. 2,896,470, 7-28-59, Cl. 74-484.
- Grady, Lester D., to The New Jersey Zinc Co. Method of separating titanium crystals. 2,875,033, 2-24-59, Cl. 75-5.
- Grady, Maurice J. Supplemental seat for vehicles. 2,886,093, 5-12-59, Cl. 155-13.
- Graef, Charles G., T. Fisher, and G. Deckman, to O & M Machine Co., Inc. Hose clamp. 2,915,800, 12-8-59, Cl. 24-279.
- Graef, Edward L. Wall molding forms for making a reinforced concrete wall. 2,899,735, 8-18-59, Cl. 25-131.
- Graef, John N., to David White Co. Photoflash apparatus and circuit. 2,899,880, 8-18-59, Cl. 95-11.5.
- Graef, John R.: See—
- Klein, Victor G., Graef, and Lyles. 2,886,215.
- Graef, Rudolf F., and L. A. von Bogdandy, to Huttenwerk Oberhausen Akt. Method and arrangement for refining metal baths in rotary furnaces. 2,883,279, 4-21-59, Cl. 75-59.
- Graef, Robert P., to Bell Telephone Laboratories, Inc. Mu-beta measurement in feedback systems. 2,909,620, 10-20-59, Cl. 179-171.
- Graell, Alberto C. Control circuit for electrical discharge metal machining apparatus. 2,891,137, 6-16-59, Cl. 219-69.
- Graesser, David A., to The Singer Mfg. Co. Feed regulating and adjusting mechanisms. 2,877,727, 3-17-59, Cl. 112-210.
- Graf, Ernest H. H.: See—
- Finally, John M., and Graf. 2,902,875.
- Graf, Frank J., to Sportsman Products Co., The. Sportsman's lantern holder. 2,867,403, 1-6-59, Cl. 248-310.
- Graf, Martin, to Grob & Co. Akt. Harness frame for looms. 2,897,844, 8-4-59, Cl. 139-91.
- Graf, Robert D.: See—
- Smith, James J., and Graf. 2,901,642.
- Graf, George B., Co.: See—
- Tornio, Sven A. E. 2,881,766.
- Graff, Richard A., and F. X. Schaller, Jr., to Armstrong Cork Co. Closure affixing device. 2,903,832, 9-15-59, Cl. 52-320.
- Graflex, Inc.: See—
- Gorey, Archie H. 2,874,623.
- Gorey, Archie H. 2,895,391.
- Gorey, Archie H. 2,906,186.
- Smith, Clarence E., Nerwin, and Moore. 2,902,913.
- Steiner, Oscar, and Dalton. 2,888,868.
- Grafried, Emil: See—
- Burkhardt, Max, Grafried, and Raunecker. 2,879,676.
- Graft, William H.: See—
- Feinleib, Morris, Francis, and Graft. 2,902,531.
- Grageroff, Ignace A., to V. A. Amorelly. Process of manufacturing nitrostarch. 2,883,376, 4-21-59, Cl. 260-233.5.
- Gragson, James T.: See—
- Axe, William N., and Gragson. 2,884,445.
- Graham, Alexander B., to The International Nickel Co., Inc. Manufacture of hollow turbine blades. 2,914,841, 12-1-59, Cl. 29-156.8.
- Graham, Archibald R.: See—
- Hall, Reginald H., and Graham. 2,870,221.
- Graham, Archibald R., to The Distillers Co. Ltd. Purification of aliphatic acids. 2,884,451, 4-28-59, Cl. 260-540.
- Graham, Arthur H., and S. S. Staley; said Graham assor. of  $\frac{1}{4}$  to Tank Service and Construction Co. Floating roof seals. 2,884,156, 4-28-59, Cl. 220-26.
- Graham, Benjamin. Mathematical instrument for dividing angles into equal parts and for performing related mathematical operations. 2,892,586, 6-30-59, Cl. 235-61.
- Graham, Bernard A., to Sunbeam Corp. Index marker. 2,888,899, 6-2-59, Cl. 116-135.
- Graham, Bert A. Fold away iron holder. 2,904,296, 9-15-59, Cl. 248-117.7.
- Graham, Boynton, to E. I. du Pont de Nemours and Co. Non-woven sheet material. 2,909,456, 10-20-59, Cl. 154-124.
- Graham, Bruce, to Ethyl Corp. Condensation of P-mono-aminomethyl-benzoic acid and epsilon-caprolactam. 2,868,769, 1-13-59, Cl. 260-78.
- Graham, Bruce, to Ethyl Corp. Condensation polymers. 2,918,454, 12-22-59, Cl. 260-78.



- Graham, Clifford P., to Textsteam Corp. High-pressure valve assembly. 2,868,497, 1-13-59, Cl. 251-172.
- Graham, Clifford P., to Textsteam Corp. Plug valve. 2,892,610, 6-30-59, Cl. 251-175.
- Graham, Connelly L., to Northrop Corp. Attack deviation device. 2,898,588, 8-4-59, Cl. 343-18.
- Graham, Dallas P.: *See*—
- Swanson, James A., and Graham. 2,906,515.
- Graham, David E.: *See*—
- Hort, Eugene V., and Graham. 2,883,393.
- Graham, David E., to General Aniline & Film Corp. Catalytic reduction of aromatic polynitro compounds. 2,894,036, 7-7-59, Cl. 260-580.
- Graham, David E., and E. V. Hort, to General Aniline & Film Corp. Process for the preparation of 1-nitroanthraquinone. 2,874,168, 2-17-59, Cl. 260-369.
- Graham, David E., and P. O. Shull, to General Aniline & Film Corp. Stabilized phenylene diamines. 2,886,597, 5-12-59, Cl. 260-578.
- Graham, Dean M., to The Upjohn Co. Metering device for squeeze-type container. 2,904,227, 9-15-59, Cl. 222-207.
- Graham, Donald C., to General Electric Co. T-joint for a magnetic core. 2,912,660, 11-10-59, Cl. 336-215.
- Graham, Edward S. Sludge bed cleaner. 2,907,124, 10-6-59, Cl. 37-8.
- Graham, Eldon L.: *See*—
- Bauman, William C., and Graham. 2,900,269.
- Graham-Enock Mfg. Co. Ltd.: *See*—
- Enock, Arthur G., and Longville. 2,897,988.
- Enock, Arthur G. 2,904,082.
- Graham, Eugene J., to Kenn Equipment Co. Screen process printing machine. 2,881,698, 4-14-59, Cl. 101-123.
- Graham, Fletcher G. Hot line by-pass jumper. 2,874,364, 2-17-59, Cl. 339-109.
- Graham, Frank A., to Side-O-Matic Unloader Corp. Stabilizing means for truck. 2,891,682, 6-23-59, Cl. 212-145.
- Graham, Galen E., to Armstrong Cork Co. Fast-curing linoleum composition containing polymethylol phenols. 2,912,395, 11-10-59, Cl. 260-19.
- Graham, Galen E., to Armstrong Cork Co. Fast-curing linoleum composition. 2,918,441, 12-22-59, Cl. 260-19.
- Graham, Galen E., and J. A. Parker, to Armstrong Cork Co. Composition containing diisocyanate-modified polyester, polymerized vinyl halide, filler and aromatic diisocyanate. 2,893,969, 7-7-59, Cl. 260-45.4.
- Graham, George C.: *See*—
- Montgomery, Clarence G. 2,898,992.
- Graham, George C. Carving board and meat lock. 2,888,054, 5-26-59, Cl. 146-216.
- Graham, George C., Jr.: *See*—
- Bigelow, Norman E. 2,873,466.
- Gordon, William J. J., and Graham. 2,879,769.
- Graham, George C., Jr., to Personal Products Corp. Catamenial device. 2,879,770, 3-31-59, Cl. 128-263.
- Graham, James W.: *See*—
- Craner, Ray A., Goertz, and Graham. 2,914,587.
- Graham, John W., to Kennametal Inc. Corrosion-resistant alloy. 2,867,033, 1-6-59, Cl. 29-182.7.
- Graham, John W., and F. M. Perkins, Jr., C. L. Prokop, and R. A. Salathiel, to Jersey Production Research Co. Well logging method. 2,873,423, 2-10-59, Cl. 324-1.
- Graham, Marion E., W. A. Reed, and R. A. Holman, to Republic Steel Corp. Process of eliminating pyrophorism in articles formed from chemically reduced metallic iron. 2,875,035, 2-24-59, Cl. 75-34.
- Graham, Paul R.: *See*—
- Darby, Joseph R., and Graham. 2,889,295.
- Graham, Paul R., to Monsanto Chemical Co. Acrylonitrile polymer composition containing cyanoethyl tetramethyl diamido phosphate. 2,881,147, 4-7-59, Cl. 260-30.6.
- Graham, Paul R., to Monsanto Chemical Co. Light stable halogen-containing resins. 2,894,923, 7-14-59, Cl. 260-23.
- Graham, Peter E., and R. C. Smith, to A. H. Hunt (Capacitors) Ltd. Electrical capacitors. 2,897,066, 7-28-59, Cl. 41-42.
- Graham, Phillip. Jalousies. 2,877,517, 3-17-59, Cl. 20-62.
- Graham, Phillip. Graphic machine. 2,882,604, 4-21-59, Cl. 33-76.
- Graham, Phillip. Building construction. 2,897,668, 8-4-59, Cl. 72-40.
- Graham, Phillip. Vehicle parking device. 2,916,167, 12-8-59, Cl. 214-16.1.
- Graham, Phillip. Safe conveyance body. 2,916,324, 12-8-59, Cl. 296-28.
- Graham, Robert E., to Bell Telephone Laboratories, Inc. Method and apparatus for reducing television bandwidth. 2,905,756, 9-22-59, Cl. 178-6.
- Graham, Robert E., and E. R. Kretzmer, to Bell Telephone Laboratories, Inc. Circuit for producing timing control signals. 2,883,562, 4-21-59, Cl. 307-88.5.
- Graham, Robert P.: *See*—
- Elliott, Clifton M., Graham, and Nofitz. 2,871,844.
- Hudspeth, Frederick E. S., and Graham. 2,880,713.
- Graham, Robert P., A. H. Brown, and W. D. Ramage, to United States of America, Agriculture. Process of dehydrating biological materials. 2,897,600, 8-4-59, Cl. 34-5.
- Graham, Roger K., to Rohm & Haas Co. Segmented polymers having a linear polymeric backbone with linear polymer branches attached thereto through ureido groups and process for preparing the same. 2,882,259, 4-14-59, Cl. 260-45.5.
- Graham, Thomas T. Leak-proof bolt. 2,915,152, 12-1-59, Cl. 189-36.
- Graham-White Sales Corp.: *See*—
- Frantz, Virgil L. 2,887,126.
- Graham, William: *See*—
- Long, Alan G., and Graham. 2,904,565.
- Graham, William, T. Rooting and raking apparatus. 2,918,979, 12-29-59, Cl. 171-105.
- Graham, Wilson B. Mixing faucet fitting. 2,878,489, 3-24-59, Cl. 4-192.
- Graham, Wray F. Vehicle drawbar. 2,873,982, 2-17-59, Cl. 280-478.
- Grahek, Joseph L.: *See*—
- Curran, John B., and Grahek. 2,887,718.
- Grahn, Arne Y., to The Poly Choke Co., Inc. Choke mechanism for firearms. 2,888,769, 6-2-59, Cl. 42-79.
- Grain Processing Corp.: *See*—
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- Grajeck, Edwin J., to Collins & Aikman Corp. Apparatus for producing patterned foam rubber coated fabrics. 2,910,724, 11-3-59, Cl. 18-4.
- Grala, Edward M., and W. A. Maxwell, to United States of America, Navy. Cast nickel alloy of high aluminum content. 2,910,356, 10-27-59, Cl. 75-170.
- Gralewicz, Sigmund J. Supports for material in roll form. 2,903,199, 9-8-59, Cl. 242-55.2.
- Gram, Anker, to Products Tank Line of Canada Ltd. Supporting structure for elevated storage tanks. 2,912,074, 11-10-59, Cl. 189-17.
- Gram, Arthur J., Jr., and W. L. Sage, to The Babcock & Wilcox Co. Method of and apparatus for burning particle-form fuel. 2,891,493, 6-23-59, Cl. 110-28.
- Gramacy, William. Loose leaf binder. 2,895,484, 7-21-59, Cl. 129-13.
- Gramelspacher, Clarence U., to Jasper Wood Crafters, Inc. Combination sub-floor and top floor. 2,894,292, 7-14-59, Cl. 20-8.
- Grams, William R., to General Electric Co. Method of bonding metal borides to graphite. 2,900,281, 8-18-59, Cl. 117-216.
- Grams, Raymond M. Electrical animal restraining device. 2,917,022, 12-15-59, Cl. 119-27.
- Gran, Norman J. Convertible sofa bed. 2,894,266, 7-14-59, Cl. 5-12.
- Granat, John R., and H. H. Christensen, to General Electric Co. Combined manual and automatic servo motor apparatus. 2,877,968, 3-17-59, Cl. 244-78.
- Granata, Anthony J., to Air Reduction Co., Inc. Removing fins from molded products. 2,881,571, 4-14-59, Cl. 51-164.
- Granata, Rosario C.: *See*—
- Duvall, George P., Jr., and Granata. 2,890,589.
- Granberg, Bengt R., and A. Anderson, to Sundstrand Machine Tool Co. Tracer control for machine tools. 2,877,677, 3-17-59, Cl. 82-14.
- Granberg, Bengt R., C. H. Johnson, and A. Anderson, to Sundstrand Machine Tool Co. Lathes. 2,913,945, 11-24-59, Cl. 82-14.
- Granberg, Fred: *See*—
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- Granberry, Edgar H., to Parks-Cramer Co. Switch for continuous outlet. 2,882,374, 4-14-59, Cl. 200-168.
- Granberry, Edgar H., to West Point Mfg. Co. Fly frame with independently variable speed drives and method. 2,901,882, 9-1-59, Cl. 57-98.
- Granberry, Edgar H., to West Point Mfg. Co. Hydraulic fly frame drive and method. 2,901,883, 9-1-59, Cl. 57-98.
- Grand, Constantine G.: *See*—
- Davis, Carl H., and Grand. 2,904,468.
- Grand Specialties Co.: *See*—
- Hopfeld, Fred P. 2,885,961.
- Hopfeld, Fred P. 2,905,347.
- Grandel, Felix. Process of making germ flakes. 2,879,167, 3-24-59, Cl. 99-80.
- Grandel, Felix. Process of making a preparation containing lipases and oxidases. 2,888,385, 5-26-59, Cl. 195-67.
- Grandey, Max F., to General Electric Co. Method of making foam material from nickel powder. 2,917,384, 12-15-59, Cl. 75-222.
- Grandmont, Paul E., R. Y. Huang, and R. K. Cheng, to Curtiss-Wright Corp. System for reshaping voltage waveforms. 2,879,486, 3-24-59, Cl. 333-20.
- Grandstaff, Otho D., and D. J. Suda, to General Telephone Laboratories, Inc. Electronic conference circuit. 2,912,503, 11-10-59, Cl. 179-1.
- Grangaud, Huguette: *See*—
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- Grange, Alban J., to Radio Corp. of America. Control system. 2,902,687, 9-1-59, Cl. 340-345.
- Granger, Fred L., to Union Carbide Corp. High density barrier film separators. 2,872,498, 2-3-59, Cl. 136-146.
- Granger, Kenneth H. Detachable sunshades for eyeglasses. 2,901,752, 9-1-59, Cl. 2-13.
- Granger, William T.: *See*—
- Gehrke, Forrest E., and Granger. 2,867,032.
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- Adam, Elisabeth, and Granirer. 2,907,695.



- Granite Machine Co.: *See*—  
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- Granite City Steel Co.: *See*—  
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- Granke, Leonard J., L. C. Gates, and B. D. Montgomery, to Borg-Warner Corp. Clutch plate structure. 2,908,368, 10-13-59, Cl. 192-107.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Arrangement in radio receivers for cooperation with distance indicating radio beacons. 2,897,492, 7-28-59, Cl. 343-113.
- Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Gyro control system. 2,909,929, 10-27-59, Cl. 74-5.2.
- Granrath, Günter H., to Kortenbach & Rauh Kommanditgesellschaft. Umbrella shank. 2,911,985, 11-10-59, Cl. 135-46.
- Granryd, Thorvald G.: *See*—  
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- Granryd, Thorvald G., to The Frank G. Hough Co. Tractor loaders. 2,873,626, 2-17-59, Cl. 74-765.
- Granström, Olof A., and E. G. M. Hackzell, to Aktiebolaget Svenska Metallverken. Arrangement for charging extrusion presses with ingots, blooms or billets from metal. 2,870,920, 1-27-59, Cl. 214-1.
- Grant, Alva and W. General purpose extensible hitch. 2,873,981, 2-17-59, Cl. 280-477.
- Grant, Arthur W.: *See*—  
 Lippman, Seymour, and Grant. 2,878,852.  
 Miller, Roy W., and Grant. 2,896,281.  
 Weigold, Harold, and Grant. 2,880,459.
- Grant, Abraham, to De Havilland Propellers Ltd. Alternators and/or associated filter networks. 2,917,699, 12-15-59, Cl. 322-58.
- Grant, David, and H. R. Lorence, to Hughes Tool Co., Aircraft Division. Fluid pressure gauge. 2,909,927, 10-27-59, Cl. 73-388.
- Grant, David, and J. T. Strong, to Hughes Tool Co., Aircraft Division. Pilot-actuated control valve. 2,913,005, 11-17-59, Cl. 137-620.
- Grant Co., The: *See*—  
 Zuro, John M. 2,919,134.
- Grant Development Co.: *See*—  
 Care, Richard L. 2,869,776.  
 Care, Richard L. 2,894,612.  
 Grant, Gardner L., and Care. 2,896,761.  
 Grant, Gardner L., and Rosapepe. 2,889,544.  
 Miller, Harry B. 2,881,775.  
 Grant, Max L., and Miller. 2,884,188.
- Grant, Earl W., to Statham Instruments, Inc. Inductive transducer. 2,885,644, 5-5-59, Cl. 336-119.
- Grant, Earl W., to Statham Instruments, Inc. Temperature control device. 2,896,057, 7-21-59, Cl. 219-20.
- Grant, Eugene F., to National Co., Inc. Microwave signal generating system. 2,883,540, 4-21-59, Cl. 250-36.
- Grant, Gardner L., and F. P. Rosapepe, to Grant Development Co. Mechanical memory for fare collecting apparatus. 2,889,544, 6-2-59, Cl. 340-213.
- Grant, Gardner L., and R. L. Care, to Grant Development Co. Toll collection hopper. 2,896,761, 7-28-59, Cl. 193-2.
- Grant, Gordon A., G. von Seemann, and S. O. Winthrop, to American Home Products Corp. Basic esters of substituted pyrimidine-4-carboxylic acids and their preparation. 2,876,224, 3-3-59, Cl. 260-256.4.
- Grant, Harry C., Jr. Simulated baseball game apparatus. 2,901,253, 8-25-59, Cl. 273-88.
- Grant, James E.: *See*—  
 Murtaugh, Justin J., Lavrich, Ruff, Krueck, and Grant. 2,898,209.
- Grant, Jesse R. Cartons for eggs. 2,885,136, 5-5-59, Cl. 229-2.5.
- Grant, John A., to Owens-Corning Fiberglas Corp. Metal coated glass fiber combinations. 2,915,806, 12-8-59, Cl. 28-81.
- Grant, Max L., and H. B. Miller, to Grant Development Co. Fare collection box. 2,884,188, 4-28-59, Cl. 232-7.
- Grant, Michael G., and G. J. Topol, to Bowser, Inc. Filter-dehydrator. 2,919,030, 12-29-59, Cl. 210-488.
- Grant-Murray, Inc.: *See*—  
 Murray, John M. 2,885,807.
- Grant, Nicholas J.: *See*—  
 Goetzel, Claus, G., Grant, Skolnick, and Yoblin. 2,899,338.
- Grant, Norman H.: *See*—  
 Robbins, Kenneth C., and Grant. 2,871,165.  
 Robbins, Kenneth C., and Grant. 2,878,161.
- Grant, Norman H., and K. C. Robbins, to Armour and Co. Preparation of elastase. 2,886,489, 5-12-59, Cl. 195-67.
- Grant, Norman H., and K. C. Robbins, to Armour and Co. Pro-elastase and preparation thereof. 2,893,920, 7-7-59, Cl. 195-62.
- Grant, Philip J. Safety guard for insecticide containers. 2,893,130, 7-7-59, Cl. 43-131.
- Grant Pulley & Hardware Corp.: *See*—  
 Levine, Mark. 2,869,171.
- Grant, Robert D.: *See*—  
 Nelson, Frederick F. 2,885,133.
- Grant, Warren: *See*—  
 Grant, Alva and W. 2,873,981.
- Grant, Whitney I.: *See*—  
 Kocher, Erich J., and Grant. 2,891,391.
- Grantham, Donald: *See*—  
 Kolbe, Raymond G. 2,889,157.
- Grantham, Margaret: *See*—  
 Kolbe, Raymond G. 2,889,157.
- Grantham, Richard L., and C. Liu, to Richfield Oil Corp. Purification of toluic acid. 2,894,985, 7-14-59, Cl. 260-525.
- Grantham, Rodney E., and J. W. Dorsett, Jr., to United States of America, Navy. Broad-band hybrid junction. 2,903,653, 9-8-59, Cl. 333-11.
- Grantham, William G., to American Viscose Corp. Nitrocellulose type coatings for cellulosic base films. 2,888,368, 5-26-59, Cl. 117-145.
- Granzow, Carl A. Cable stripping tool. 2,871,739, 2-3-59, Cl. 81-9.5.
- Grapes, Robert D.: *See*—  
 Baer, John S., and Grapes. 2,917,331.
- Graphic Arts Research Foundation, Inc.: *See*—  
 Garth, William W., Jr. 2,888,865.  
 Hanson, Ellis F., Higonnet, Moyroud, and Manevitz. 2,910,163.
- Higonnet, Rene, and Moyroud. 2,876,687.
- Higonnet, Rene, and Moyroud. 2,897,940.
- Graphitwerk-Kropfmühl-Aktiengesellschaft: *See*—  
 Ulrich, Helmut. 2,914,383.
- Graser, Michael, Jr., to General Electric Co. Synchronous detector. 2,884,522, 4-28-59, Cl. 250-27.
- Grashoff, Adolph W., and G. M. Arthur, to Essex Wire Corp. Rotary multi-position switch. 2,878,330, 3-17-59, Cl. 200-8.
- Grashow, Joseph, to The Quick-Mount Mfg. Co., Inc. Automobile antenna apparatus. 2,917,743, 12-15-59, Cl. 343-713.
- Grass, Albert M. Film holding device for cameras. 2,872,842, 2-10-59, Cl. 88-17.
- Grass, Albert M. Film feed for camera. 2,879,062, 3-24-59, Cl. 271-2.3.
- Grass, Albert M., to United States of America, Navy. Automatic range tracking apparatus. 2,901,746, 8-25-59, Cl. 343-13.
- Grass, George M., Jr., and M. J. Robinson, to Smith, Kline & French Laboratories. Method of preparing sustained release particles and the product of the method. 2,875,130, 2-24-59, Cl. 167-82.
- Grass, Joseph C., and A. C. Zupansic, to United States Steel Corp. Method of preparing stainless-steel wire for drawing and forming. 2,903,384, 9-8-59, Cl. 148-6.24.
- Grass, Otto R., to Rubber Teck, Inc. Connector for flexibly connecting tubing. 2,883,211, 4-21-59, Cl. 285-233.
- Grassetti, Davide R., and H. C. Klein, to Nopco Chemical Co. Production of materials useful for producing vitamin A. 2,891,986, 6-23-59, Cl. 260-464.
- Grassetti, Davide R., and H. C. Klein, to Nopco Chemical Co. Preparation of vitamin A acetate. 2,913,487, 11-17-59, Cl. 260-488.
- Grasslander (1957) Ltd.: *See*—  
 Jarvis, James G. 2,885,853.
- Grassmann, Wolfgang, and K. Hannig. Method and apparatus for electrophoretic separation of mixtures of substances. 2,888,392, 5-26-59, Cl. 204-180.
- Grasso, Flavio J., and W. S. Dow, Jr., to Harvel Research Corp. Chlorinated pinene-formaldehyde reaction product and composition containing same. 2,885,376, 5-5-59, Cl. 260-29.8.
- Grasso, Frank. Device for radiating the mouth. 2,884,926, 5-5-59, Cl. 128-395.
- Grater, Vivian S.: *See*—  
 Stewart, Alexander E., and Grater. 2,884,059.
- Gratian, Joseph W., to General Dynamics Corp. Reproducing means for magnetic recording apparatus. 2,881,263, 4-7-59, Cl. 179-100.2.
- Gratian, Joseph W., and W. B. Latchford, to General Dynamics Corp. Combination recording heads. 2,889,414, 6-2-59, Cl. 179-100.2.
- Grattan, Worthin F. Automatic transmission for automotive vehicles. 2,891,421, 6-23-59, Cl. 74-752.
- Gratidge, Walter, to General Electric Co. Electrical contacts. 2,914,640, 11-24-59, Cl. 200-166.
- Gratton, James R., to The Gadget-Of-The-Month Club, Inc. Telescopic lavatory safety platform. 2,873,056, 2-10-59, Cl. 228-48.
- Gratzmuller, Jean L. Electric control system for fluid operated actuators. 2,877,626, 3-17-59, Cl. 60-52.
- Gratzmuller, Jean L. Circuit breaker. 2,888,540, 5-26-59, Cl. 200-151.
- Gratzmuller, Jean L. Liquid dumping valve arrangement for a hydraulic jack. 2,888,909, 6-2-59, Cl. 121-38.
- Gratzmuller, Jean L. Valve system timing device. 2,888,953, 6-2-59, Cl. 137-630.15.
- Gratzmuller, Jean L. Non-return ball valve for reciprocating hydraulic pumps. 2,899,974, 8-18-59, Cl. 137-533.11.
- Gratzmuller, Jean L. Circuit-breaker control device. 2,900,469, 8-18-59, Cl. 200-82.
- Gratzmuller, Jean L. Hydraulic control device. 2,900,960, 8-25-59, Cl. 121-38.



- Gratzmuller, Jean L. Hydraulically actuated electric circuit-breakers. 2,901,570, 8-25-59, Cl. 200-82.
- Gratzmuller, Jean L. Starting device. 2,905,164, 9-22-59, Cl. 123-179.
- Gratzmuller, Jean L. Single acting hydraulic motor. 2,908,251, 10-13-59, Cl. 121-40.
- Gratzmuller, Jean L. Starting device and power take-off arrangement. 2,909,080, 10-20-59, Cl. 74-810.
- Grau, George. Method of forming an element of a lipstick. 2,878,771, 3-24-59, Cl. 113-116.
- Grau, Jaime C. Blind arrangement. 2,912,048, 11-10-59, Cl. 160-133.
- Graubner, Herman G., to Union Carbide Corp. Flashlight and switch therefor. 2,886,664, 5-12-59, Cl. 200-60.
- Grael, Ludwig J.: *See*—Schowalter, Clarence H., and Grauel. 2,908,258.
- Graulich, Wilhelm: *See*—Lehmann, Wolfgang, Bayer, Kass, and Graulich. 2,903,436.
- Rosahl, Dietrich, Graulich, Holzrichter, and Ecker. 2,916,471.
- Graulich, Wilhelm, G. Sinn, H. Holzrichter, and D. Rosahl, to Farbenfabriken Bayer Akt. Aqueous composition comprising rubbery copolymer and condensation product or formaldehyde and methiol-forming compound. 2,871,213, 1-27-59, Cl. 260-293.
- Graulich, Wilhelm, G. Mauthe, and K. Eitel, to Farbenfabriken Bayer Akt. Process for the dressing of leather. 2,887,410, 5-19-59, Cl. 117-142.
- Graulich, Wilhelm, A. Schmitz, W. Berlenbach, and E. Muller, to Farbenfabriken Bayer Aktiengesellschaft. Printing and dyeing compositions and process of treating textiles. 2,897,101, 7-28-59, Cl. 117-139.5.
- Graulich, Wilhelm, W. Becker, and O. Bayer, to Farbenfabriken Bayer Aktiengesellschaft. Printing paste and process of decorating textile therewith. 2,908,658, 10-13-59, Cl. 260-29.6.
- Graulung, Charles H., Jr., to Westinghouse Electric Corp. Frequency control system. 2,917,713, 12-15-59, Cl. 331-6.
- Graustein, Walter W., Jr., to Carter Mfg. Corp. Variable resistor. 2,884,506, 4-28-59, Cl. 201-56.
- Gravelle, Theodore E., and W. J. Johnson. Circle bowling game. 2,887,320, 5-19-59, Cl. 273-126.
- Graves, Barton R., and J. H. Rupe,  $\frac{1}{2}$  to Russel O. Whiteman. Miles-per-gallon meter. 2,916,914, 12-15-59, Cl. 73-114.
- Graves, Charles B. and G. W. Self opening receptacle for refuse and soiled articles. 2,888,307, 5-26-59, Cl. 312-211.
- Graves, David M.: *See*—Kish, Steven P., Donnell, and Graves. 2,878,063.
- Graves, Edward B.: *See*—Palermo, Anthony, Jr., and Graves. 2,911,683.
- Graves, Edward B., to Picker X-Ray Corp. Waite Mfg. Division. Inc. X-ray tube with variable focal spot and control means therefor. 2,878,393, 3-17-59, Cl. 250-99.
- Graves, Edward B., to Picker X-Ray Corp. Waite Mfg. Division. Inc. A.C.-D.C. X-ray control connector. 2,894,143, 7-7-59, Cl. 250-104.
- Graves, Edward B., to Picker X-Ray Corp., Waite Mfg. Div., Inc. X-ray apparatus. 2,905,827, 9-22-59, Cl. 250-93.
- Graves, Elizabeth R., and R. N. Little, Jr., to United States of America, Atomic Energy Commission. Low voltage 14 m.e.v. neutron source. 2,906,903, 9-29-59, Cl. 313-61.
- Graves, Floyd W.: *See*—Graves, Jeremiah C. and F. W. 2,902,065.
- Graves, George H.: *See*—Lindstaedt, Frank F. 2,887,444.
- Graves, George W.: *See*—Graves, Charles B. and G. W. 2,888,307.
- Graves, Herbert C., Jr., to Gibson Electric Co. Internally oxidized rivet contact. 2,890,315, 6-9-59, Cl. 200-166.
- Graves, Herbert C., Jr., to Gibson Electric Co. Solder joint containing metallic particles. 2,909,643, 10-20-59, Cl. 219-117.
- Graves, Howard E.: *See*—Beal, Charles T., and Graves. 2,910,818.
- Graves, Jay: *See*—Butler, Arthur N., and Graves. 2,871,929.
- Graves, Jeremiah C. and F. W. Power saw blade anchoring device. 2,902,065, 9-1-59, Cl. 143-32.
- Graves, John W., Jr.: *See*—Burkland, Richard L., and Graves. 2,891,579.
- Graves, Joseph R. Advertising device. 2,906,046, 9-29-59, Cl. 40-33.
- Graves, Loinel R., J. E. Knapp, A. M. Guerreiro, C. A. Cable, and R. C. Wheeler, to Northrop Aircraft, Inc. Mechano-optical method for inspecting transparent flat or contoured panels. 2,871,756, 2-8-59, Cl. 88-14.
- Graves, Richard H.: *See*—Weiss, Walter J., Graves, and Hall. 2,896,915.
- Graves, Samuel F. Tube reducing machine. 2,882,851, 4-21-59, Cl. 113-52.
- Grav-I-Flo Corp. The: *See*—Bogema, Richard E. 2,912,108.
- Graviner Mfg. Co. Ltd.: *See*—Mathisen, Anders. 2,869,647.
- Mathisen, Anders. 2,884,076.
- Mathisen, Anders. 2,885,505.
- Mathisen, Anders. 2,907,993.
- Mathisen, Anders. 2,912,054.
- Thuribly, Leslie T., and Collins. 2,909,668.
- Graving, Robert S., and L. W. Lund. Mounting brackets for gutters. 2,895,694, 7-21-59, Cl. 248-48.1.
- Gravley, Charles K.: *See*—Williams, Alfred L. W., and Gravley. 2,892,107.
- Gravley, Charles K., to Clevite Corp. Forming electromechanically sensitive ceramic bodies. 2,875,501, 3-3-59, Cl. 25-156.
- Gravley, Wilton: *See*—Summers, Gerald C., and Gravley. 2,897,478.
- Gray, Alessandra: *See*—Gray, James A. 2,867,820.
- Gray, James A. 2,868,493.
- Gray, James A. 2,882,533.
- Gray, James A. 2,883,029.
- Gray, Alfred E.: *See*—Azari, Eric, Gray, Malin, and Thompson. 2,905,466.
- Gray, Alfred E., H. J. Malin, and H. B. Thompson, to The Magnavox Co. Data processing apparatus. 2,883,188, 4-21-59, Cl. 271-4.
- Gray, Allen G., to United States of America, Atomic Energy Commission. Method of applying nickel coatings on uranium. 2,894,884, 7-14-59, Cl. 204-1.5.
- Gray, Allen G., to United States of America, Atomic Energy Commission. Method of applying copper coatings to uranium. 2,894,885, 7-14-59, Cl. 204-1.5.
- Gray, Alvin N.: *See*—Gambrill, Richard D., and Gray. 2,872,703.
- Gray, Charles R., to Philco Corp. Gettering units for electron tubes. 2,880,348, 3-31-59, Cl. 313-176.
- Gray, Coy J., to Deering Milliken Research Corp. Dyeing proteinaceous and nylon materials. 2,900,218, 8-18-59, Cl. 8-54.
- Gray, Daniel M., and G. L. Reymann, to American-Marietta Co., Stoner-Mudge Co. Division. Polymeric sanitary coating system. Re. 24,702, 9-22-59, Cl. 117-75.
- Gray, Dudley, to Stewart-Warner Corp. Sense antenna. 2,917,744, 12-15-59, Cl. 343-728.
- Gray, Emanuel: *See*—Liebman, Louis, and Gray. 2,869,187.
- Gray, Franklin L. Cartridge dispenser. 2,902,196, 9-1-59, Cl. 224-15.
- Gray, Frederick W., to Colgate-Palmolive Co. Manufacture of fatty acid monoesters of glycerol monosulfuric acid and salts thereof. 2,868,812, 1-13-59, Cl. 260-400.
- Gray, G. A., Co. The: *See*—Walter, John M. 2,868,084.
- Walter, John M., and Worthen. 2,881,527.
- Gray, Gene W. Garment retainer. 2,891,705, 6-23-59, Cl. 223-88.
- Gray, Geoffrey T.: *See*—Moring, Walter G., Jr., and Gray. 2,895,337.
- Gray, George W.: *See*—Flory, Leslie E., Gray, Jensen, and Pike. 2,892,056.
- Lindstaedt, Frank F. 2,887,444.
- Gray, George W., to Radio Corp. of America. Phase stabilized pulse generator. 2,897,356, 7-28-59, Cl. 250-27.
- Gray, George W., to Radio Corp. of America. Pulse production apparatus. 2,908,815, 10-13-59, Cl. 250-27.
- Gray, Harry C.: *See*—Meyer, Robert E., Bristol, and Gray. 2,913,875.
- Gray, Harry C., to Summit Container Co. Machine having seaming rolls for securing preassembled rings to ends of container side wall. 2,902,075, 9-1-59, Cl. 153-1.
- Gray, James A., to A. Gray. Submerged flushing device. 2,867,820, 1-13-59, Cl. 4-41.
- Gray, James A., to A. Gray. Flushing device. 2,868,493, 1-13-59, Cl. 251-49.
- Gray, James A., to Royal McBee Corp. Typewriter ribbon changing apparatus. 2,873,015, 2-10-59, Cl. 197-151.
- Gray, James A., to A. Gray. Toilet flusher. 2,882,533, 4-21-59, Cl. 4-41.
- Gray, James A., to A. Gray. Typewriter ribbon attachment. 2,883,029, 4-21-59, Cl. 197-162.
- Gray, James J., to Imperial Chemical Industries Ltd. Method of manufacturing titanium. 2,903,350, 9-8-59, Cl. 75-84.5.
- Gray, John A., to Imperial Chemical Industries Ltd. Process for treatment of boiler feed water. 2,872,414, 2-8-59, Cl. 210-55.
- Gray, John A., and E. K. Bee, to Westinghouse Electric Corp. Machine for processing the reflectors of sealed-beam lamps. 2,884,887, 5-5-59, Cl. 113-59.
- Gray, John W.: *See*—Berger, France B., Tull, and Gray. 2,908,903.
- Chapman, Leslie R., Jr., Gray, and Jacobson. 2,872,674.
- Gray, John W., to General Precision Laboratory Inc. Phase sensitive rectifier. 2,869,006, 1-13-59, Cl. 307-149.
- Gray, John W., to General Precision Laboratory Inc. Motor differential frequency integrator. 2,898,531, 8-4-59, Cl. 318-70.
- Gray, John W., to General Precision Laboratory Inc. Frequency marking circuit. 2,900,599, 8-18-59, Cl. 324-78.
- Gray, John W., and E. G. Newsom, to General Precision Laboratory Inc. Automatic signal frequency tracker. 2,870,331, 1-20-59, Cl. 250-36.
- Gray, John W., and G. W. Michalec, to General Precision Laboratory Inc. Fix corrector for marine automatic dead reckoning. 2,882,602, 4-21-59, Cl. 33-46.
- Gray, John W., and H. L. Hunter, 3rd, to General Precision Laboratory Inc. Inverter. 2,889,470, 6-2-59, Cl. 307-108.
- Gray, John W., E. B. Hales, and I. A. Greenwood, Jr., to General Precision Laboratory Inc. World wide navigational system. 2,908,902, 10-13-59, Cl. 343-7.



- Gray, Norman A., to Schick Inc. Electric shaver inner cutter. 2,915,816, 12-8-59, Cl. 30-43.
- Gray, Philip J.: See—  
Francis, Samuel A., and Gray. 2,911,572.
- Gray, Philip P.: See—  
Stone, Irwin M., Gray, and Morawetz. 2,912,333.
- Gray, Philip P., and I. Stone, to Baxter Laboratories, Inc. Inhibiting precipitation in malt beverages. 2,906,623, 9-29-59, Cl. 99-48.
- Gray Research and Development Co., Inc.: See—  
Barstrom, Knut A., and Klebba. 2,887,353.
- Gray, Richardson: See—  
Osojnak, Boris M., and Gray. 2,896,935.
- Gray, Robert B., to American Meter Co., Inc. Gas meter diaphragm. 2,874,569, 2-24-59, Cl. 73-279.
- Gray, Robert B., to Erie Resistor Corp. Method of making printed circuit panels. 2,912,748, 11-17-59, Cl. 29-155.5.
- Gray, Robert F., to Continental Can Co., Inc. Spray tube and nozzle assembling machine. 2,913,816, 11-24-59, Cl. 29-208.
- Gray, Robert L., to Burroughs Corp. Thyatron pulser for inductive loads. 2,874,333, 2-17-59, Cl. 315-163.
- Gray, Robert L., to Burroughs Corp. Semi-conductor adder. 2,892,099, 6-23-59, Cl. 307-88.5.
- Gray, Ronald V.,  $\frac{1}{2}$  to Herbert H. Johnson and  $\frac{1}{2}$  to Orland W. Tangen. Variable rotary power-transmitting apparatus. 2,916,924, 12-15-59, Cl. 74-217.
- Gray, Russell H., to E. I. du Pont de Nemours and Co. Photographic elements and processes. 2,878,121, 3-17-59, Cl. 96-29.
- Gray, Russell H., and V. J. Webers, to E. I. du Pont de Nemours and Co. Acrylate copolymers containing quaternary ammonium and tertiary amine salt units. 2,892,822, 6-30-59, Cl. 260-86.1.
- Gray, Samuel A., and H. P. Carter. Apparatus for indicating and recording the dimensions of lumber. 2,885,787, 5-12-59, Cl. 33-174.
- Gray, Sidney, to Radio Corp. of America. Interference type optical filters utilizing calcium fluoride. 2,869,010, 1-13-59, Cl. 313-65.
- Gray, Sidney, to Radio Corp. of America. Wide-band interference light filter. 2,871,371, 1-27-59, Cl. 250-226.
- Gray, Sidney, to Radio Corp. of America. Color filters. 2,873,397, 2-10-59, Cl. 313-65.
- Gray Tool Co.: See—  
Watts, John D., Lefevre, and Hill. 2,867,453.
- Gray, Walter E., Jr., to General Electric Co. Laundry machine including improved heater and condenser arrangement. 2,880,521, 4-7-59, Cl. 34-75.
- Gray, Walter E., Jr., to General Electric Co. Combination washer and dryer. 2,892,334, 6-30-59, Cl. 68-12.
- Gray, Walter E., Jr., to General Electric Co. Laundry machine with forced air circulation system. 2,892,335, 6-30-59, Cl. 68-16.
- Gray, Walter E., Jr., and K. A. Larkin, to General Electric Co. Variable fill control for automatic washer. 2,869,347, 1-20-59, Cl. 68-207.
- Gray, Walter E., Jr., and O. P. Falkenstein, to General Electric Co. Combination washer and dryer with condenser means. 2,873,537, 2-17-59, Cl. 34-75.
- Gray, Walter W.: See—  
Tod, Allan H., and Gray. 2,883,250.  
Tod, Allan H., and Gray. 2,900,985.
- Gray, Warren E., to Lockheed Aircraft Corp. Spherical bearing. 2,906,568, 9-29-59, Cl. 308-72.
- Graybeal, La Verne R.: See—  
Bley, Rudolph S., Carter, Edgar, Graybeal, and Schmidt. 2,898,627.
- Graybeal, Warren E.: See—  
Greller, Nelson P., and Graybeal. 2,868,394.
- Graybill, Clarence W., and S. H. Support. 2,867,402, 1-6-59, Cl. 248-226.
- Graybill, Clinton L. Fluid motor with piston actuated reversing valve means. 2,868,177, 1-13-59, Cl. 121-123.
- Graybill, Clinton L., to Graybill Industries, Inc. Hydraulic transmission mechanism. 2,897,688, 8-4-59, Cl. 74-687.
- Graybill Industries, Inc.: See—  
Graybill, Clinton L. 2,897,688.
- Graybill, Kenneth W., and H. Sengbusch, to General Telephone Laboratories, Inc. Crossbar switch. 2,917,587, 12-15-59, Cl. 179-27.54.
- Graybill, Paul J. Reclosable containers. 2,872,097, 2-3-59, Cl. 229-44.
- Graybill, Silas H.: See—  
Graybill, Clarence W., and S. H. 2,867,402.
- Graydon, William F. Cation exchange resin membranes by hydrolysis of styrene sulfonic ester or amide copolymers. 2,877,191, 3-10-59, Cl. 260-2.2.
- Grayhill: See—  
Scherry, George A. 2,892,177.  
Scherry, George A. 2,900,662.
- Graziano, Vincent. Soap holder. 2,879,622, 3-31-59, Cl. 45-28.
- Greaney, Thomas J., and W. K. Roquemore, to Esso Research and Engineering Co. Catalytic process. 2,891,903, 6-23-59, Cl. 208-74.
- Greanias, Evon C.: See—  
Ress, Thomas I., and Greanias. 2,919,425.
- Greanias, Evon C., to International Business Machines Corp. Code translating device. 2,881,976, 4-14-59, Cl. 235-61.
- Greanias, Evon C., to International Business Machines Corp. Variable voltage level discriminator varying with the input voltage level. 2,885,551, 5-5-59, Cl. 250-27.
- Grear, Jay W., Jr., to United States of America, Atomic Energy Commission. Electric contact means. 2,877,314, 3-10-59, Cl. 200-87.
- Great American Plastics Co.: See—  
Cohn, Irwin E., and Healey. 2,910,786.
- Great Dane Trailers, Inc.: See—  
Jewell, Robert A., and Watters. 2,915,320.
- Greathouse, Lucien H., B. A. Smith, H. M. Robinson, and C. H. Haydel. Heat exchanger. 2,882,022, 4-14-59, Cl. 257-1.
- Great Lakes Carbon Corp.: See—  
Harrison, Milo A., and Kovarik. 2,888,175.  
Shea, Frederick L., Jr. 2,868,695.  
Shea, Frederick L., Jr. 2,872,305.
- Great Lakes Fire Equipment Co.: See—  
Dalton, Michael J. 2,919,071.
- Great Lakes Stamp & Mfg. Co., Inc.: See—  
Payton, John H., and Schuetze. 2,906,627.
- Great Western Drilling Co.: See—  
Mallory, Harvey E., and Ayscue. 2,867,278.
- Great Western Heel Co., Inc.: See—  
Cooper, Jack H., and Freistat. 2,871,583.
- Greaves, Robert W., to International Business Machines Corp. Latent electrostatic image developing apparatus. 2,902,974, 9-8-59, Cl. 118-637.
- Grebby, John W., S. G. Hawtin, and J. Downing, to British Celanese Ltd. Manufacture of artificial filamentary materials of high bulk. 2,900,221, 8-18-59, Cl. 18-54.
- Grebe, John J., to United States of America, Atomic Energy Commission. Nuclear reactor. 2,894,891, 7-14-59, Cl. 204-193.2.
- Grebe, John J., to United States of America, Atomic Energy Commission. Nuclear reactor. 2,917,443, 12-15-59, Cl. 204-193.2.
- Greber, Henry. Gas discharge lamp. 2,908,841, 10-13-59, Cl. 513-204.
- Grebner, Fritz, to Voigt & Haefner A.G. Manufacture of girders or mesh. 2,899,537, 8-11-59, Cl. 219-79.
- Grebner, Josef: See—  
Wengeler, Herbert, and Grebner. 2,891,272.
- Greco, Charles C. Garment with interchangeable indicia. 2,871,485, 2-3-59, Cl. 2-246.
- Greco, Ascanio. Combination measuring tape and scribe. 2,893,122, 7-7-59, Cl. 33-27.
- Greeczn, John, to Fidelity Machine Co., Inc. Flexible hose. 2,870,619, 1-27-59, Cl. 66-169.
- Gredell, Otto N., to Standard Steel Works, Inc. Shelf bracket having cam lock. 2,901,205, 8-25-59, Cl. 248-245.
- Gredell, Otto N., to Standard Steel Works, Inc. Spring-loaded shelf bracket. 2,901,206, 8-25-59, Cl. 248-246.
- Greedy, Edwin F., and E. J. Schaaf, to Food Machinery and Chemical Corp. Pea sheller. 2,910,070, 10-27-59, Cl. 130-30.
- Greefkes, Johannes A.: See—  
De Jager, Frank, and Greefkes. 2,907,831.
- Greeley, Kenneth J. Device for opening containers. 2,868,408, 1-13-59, Cl. 220-52.
- Green, A. Donald, to Esso Research and Engineering Co. Dehydrogenation process. 2,889,383, 6-2-59, Cl. 260-680.
- Green, Allen P., Jr.: See—  
Crawford, Daniel W. 2,886,375.
- Green, Arthur J., to The Roberts Brass Mfg. Co. Valve operating mechanism. 2,912,870, 11-17-59, Cl. 74-109.
- Green, Bernard J., to International Standard Electric Corp. Thermionic cathode heaters. 2,885,334, 5-5-59, Cl. 204-181.
- Green, Daniel A., to Mine Safety Appliances Co. Fluorescent lighting tube support. 2,888,657, 5-26-59, Cl. 339-52.
- Green, David J., to Gilfillan Bros. Inc. Carrier-modulating function generator with adaptation for simultaneous multiplication. 2,905,384, 9-22-59, Cl. 235-194.
- Green, Donald C. Check valves. 2,912,000, 11-10-59, Cl. 137-513.5.
- Green, Donald C. Check valves. 2,912,001, 11-10-59, Cl. 137-516.29.
- Green, Edward R., to Newton, Chambers & Co. Ltd. Apparatus for dispensing pastes, creams and liquids. 2,898,009, 8-4-59, Cl. 222-308.
- Green, Elbertson D., and H. B. Smith, to Westinghouse Electric Corp. Automatic acquisition system for radar. 2,879,503, 3-24-59, Cl. 343-7.3.
- Green, Emmett M. Axially compressible rotatable sponge mop. 2,873,462, 2-17-59, Cl. 15-119.
- Green, Frankie C.: See—  
Green, James R. 2,896,398.
- Green, Frederick H., to The Garrett Corp. Air conditioning system for space ships. 2,873,582, 2-17-59, Cl. 62-5.
- Green, Frederick H., to The Garrett Corp. Air conditioning device. 2,892,316, 6-30-59, Cl. 62-5.
- Green, Frederick H., to The Garrett Corp. Vortex tube with flow control means. 2,904,965, 9-22-59, Cl. 62-5.
- Green, Harold A., to Quaker Chemical Products Corp. Corrosion preventive compositions. 2,900,262, 8-18-59, Cl. 106-14.
- Green, Irving, to Minnesota Mining and Mfg. Co. Dispersion of fluorochlorocarbon polymers. 2,876,206, 3-3-59, Cl. 260-31.2.
- Green, Isaac H. C.: See—  
Brown, Charles F., and Green. 2,886,959.



- Green, Jack, to California Research Corp. Particle separation utilizing a magnetized fluid. 2,902,153, 9-1-59, Cl. 209-208.
- Green, Jack R.: *See*—  
Cumming, Ronald W., and Green. 2,918,869.
- Green, James R., 49% to F. C. Green. Cotton harvester. 2,896,398, 7-28-59, Cl. 56-48.
- Green, Jerome, to National Aluminate Corp. Process for preventing corrosion. 2,888,400, 5-26-59, Cl. 252-88.55.
- Green, Joseph, to U. S. Rubber Reclaiming Co., Inc. Reaction product of sulfur vulcanized rubber polymer and a material having carbon to carbon unsaturation alpha to an electron acceptor group. 2,879,245, 3-24-59, Cl. 260-33.6.
- Green, Joseph F., to Montgomery Elevator Co. Automatic interlock for elevator hatchway doors. 2,918,988, 12-29-59, Cl. 187-31.
- Green, Larry Q., to E. I. du Pont de Nemours and Co. Fluorine compounds, process of preparing said compound, and process of rendering textile oil repellent. 2,917,409, 12-15-59, Cl. 117-121.
- Green, Lawrence E. Tool holder. 2,879,896, 3-31-59, Cl. 211-4.
- Green, Lee B. Bending machine having auxiliary actuating means for wing supported bending die. 2,915,106, 12-1-59, Cl. 153-46.
- Green, Martin, and M. Hill. Dispensing container for pills and the like. 2,885,124, 5-5-59, Cl. 222-212.
- Green, Mary E.: *See*—  
Ferar, Montgomery, and Green. 2,877,829.
- Green, Milton W.: *See*—  
Johnson, Edgar J., and Green. 2,902,682.  
Morton, George A., and Green. 2,867,729.
- Green, Milton W., to Radio Corp. of America. Semi-conductor electrical pulse counting means. 2,889,469, 6-2-59, Cl. 307-88.5.
- Green, Nathaniel P. Double blow drill. 2,872,158, 2-3-59, Cl. 255-6.
- Green, Oliver N. Golf cart having hinged compartments for clubs. 2,911,228, 11-3-59, Cl. 280-36.
- Green, Ralph J.: *See*—  
Okress, Ernest C., and Green. 2,871,407.
- Green, Richard M.: *See*—  
McBride, John A., and Green. 2,904,412.
- Green, Robert B., and J. S. Hill, to Engelhard Industries, Inc. Hydrogen purifier. 2,911,057, 11-3-59, Cl. 183-2.
- Green, Stanley S.: *See*—  
Milligan, James W., and Green. 2,869,934.  
Milligan, James W., and Green. 2,869,935.
- Green, Stanley S., to Duncan Electric Co., Inc. Magnetic suspension with flexibility. 2,900,211, 8-18-59, Cl. 308-10.
- Green, Thomas A., H. H. Gorrie, J. F. Shannon, and T. Fink, to Bailey Meter Co. Indicating gage. 2,874,573, 2-24-59, Cl. 73-114.
- Green, Thomas A., H. H. Gorrie, J. F. Shannon, and T. Fink, to Bailey Meter Co. Illuminating measuring instrument. 2,885,536, 5-5-59, Cl. 240-21.
- Green, Willard E., to Joy Mfg. Co. Separator-receiver unit. 2,885,027, 5-5-59, Cl. 183-34.
- Green, William B.: *See*—  
Von Hippel, Arthur R., Powers, and Green. 2,909,662.
- Green, William P.: *See*—  
Hattan, Mark. 2,899,844.
- Green, William P. Mixing valves. 2,884,007, 4-28-59, Cl. 137-625.13.
- Green, William T.: *See*—  
Holdeman, Eugene J., and Green. 2,893,483.
- Green, Xan B. K., and H. Preble, Jr., to General Slicing Machine Co., Inc. Slicing device with multi-knife cutting disc. 2,882,946, 4-21-59, Cl. 146-114.
- Greenamyer, William H., to Owens-Illinois Glass Co. Article segregating mechanism. 2,896,784, 7-28-59, Cl. 209-82.
- Greenawalt, William E. Smelting finely divided iron ore. 2,876,092, 3-3-59, Cl. 75-40.
- Greenawalt, William E. Processes of smelting finely divided iron ore. 2,876,093, 3-3-59, Cl. 75-40.
- Greenback, Florence: *See*—  
Monoogian, Charles A. 2,898,206.
- Greenbaum, Joseph. Garment hanger. 2,883,095, 4-21-59, Cl. 223-90.
- Green Bay Box Co.: *See*—  
Daniels, Wilbert P. 2,919,060.
- Greenberg, David R., and D. H. Marcus, to Burroughs Corp. Speed regulating servo system. 2,913,652, 11-17-59, Cl. 318-309.
- Greenberg, Harry: *See*—  
Frank, Charles E., and Greenberg. 2,880,196.  
Frank, Charles E., and Greenberg. 2,902,461.  
Hansley, Virgil L., Greenberg, and Schott. 2,916,351.  
Lubowitz, Hyman R., and Greenberg. 2,894,980.
- Greenberg, Harry, and H. R. Lubowitz, to National Distillers and Chemical Corp. Preparation of diesters of fumaric acid. 2,894,982, 7-14-59, Cl. 260-485.
- Greenberg, Harry, and R. W. Horst, to National Distillers and Chemical Corp. Polyester of a mixture of isomeric  $C_{10}$  decarboxylic acids and process of making. 2,902,462, 9-1-59, Cl. 260-45.4.
- Greenberg, Richard A. Method of processing canned meat products. 2,912,337, 11-10-59, Cl. 99-187.
- Greenberg, Robert, to A. Rosenthal. Copy holder. 2,906,242, 9-29-59, Cl. 120-34.
- Greenberg, Robert L., to National Equipment Corp. Depositors for confectionery machines. 2,908,298, 10-13-59, Cl. 141-137.
- Greenberg, Sydney: *See*—  
Musser, C. Welton, and Greenberg. 2,889,628.
- Greenberger, Joseph I.: *See*—  
Stone, Morris D., Greenberger, and Lamourediedieu. 2,887,422.
- Greenblatt, Hyman. Reversible wrap-around skirt. 2,912,698, 11-17-59, Cl. 2-211.
- Greenblott, Bernard J., and M. J. Kelly, to International Business Machines Corp. Electrical relay and contact assembly. 2,919,326, 12-29-59, Cl. 200-104.
- Greenburg, Sheldon I.: *See*—  
Gehrke, August F., Marmor, Henry, and Greenberg. 2,882,167.
- Greene, Alan H.: *See*—  
Paul, Israel A., and Greene. 2,875,329.
- Greene, Ben. Furnaces. 2,869,856, 1-20-59, Cl. 266-5.
- Greene, Ben. Furnaces for heat treatment of articles. 2,913,239, 11-17-59, Cl. 266-5.
- Greene, Charles R.: *See*—  
Steinle, Shelton E., and Greene. 2,918,354.
- Greene, Charles R., and S. E. Steinle, to Shell Development Co. Conversion of hydrogen iodide to iodine. 2,874,031, 2-17-59, Cl. 23-216.
- Greene, Charles R., and S. E. Steinle, to Shell Development Co. Conversion of hydrogen iodide to iodine. 2,892,686, 6-30-59, Cl. 23-216.
- Greene, Cora S.: *See*—  
Greene, Fred E. 2,903,896.
- Greene, Curtis. Method for forming conduits. Re. 24,617, 3-10-59, Cl. 25-154.
- Greene, Fred E., deceased; C. S. Greene, administratrix. Platform hoists. 2,903,896, 9-15-59, Cl. 74-95.
- Greene, George B., to Marchant Research, Inc. Pulse width memory units. 2,887,674, 5-19-59, Cl. 340-174.
- Greene, George B., and G. Wahlstrom, to Marchant Research, Inc. Analog-to-digital converters. 2,867,797, 1-6-59, Cl. 340-347.
- Greene, Harry A., Jr.: *See*—  
Jenkins, Charles D., Jr., and Greene. 2,870,255.
- Greene, Harry R., and H. N. Barlow, to Knight Newspapers, Inc. Matrix malfeeding detection system for linecasting machines. 2,880,853, 4-7-59, Cl. 199-18.
- Greene, John H., and R. R. Thurston, to Texaco Inc. Railroad tie pads. 2,892,592, 6-30-59, Cl. 238-283.
- Greene, John P., to Stapling Machines Co. Slat feeding apparatus for box-making machines. 2,900,108, 8-18-59, Cl. 221-268.
- Greene, Joseph L., and J. C. Holzwarth, to General Motors Corp. Method of galvanizing ferrous metal strip. 2,894,850, 7-14-59, Cl. 117-5.5.
- Greene, Karl W., Jr.: *See*—  
Grube, Frank N., Greene, and Grube. 2,897,901.
- Greene, Leonard M., to Safe Flight Instrument Corp. Control element. 2,881,635, 4-14-59, Cl. 74-480.
- Greene, Malbone W.: *See*—  
Thayer, Louis C., and Greene. 2,902,639.
- Greene, Malbone W., and L. Thayer, to Beckman Instruments, Inc. Apparatus for fluid analysis. 2,882,719, 4-21-59, Cl. 73-27.
- Greene, Oscar and R. S. Key container. 2,875,803, 3-3-59, Cl. 150-40.
- Greene, Otto W., and J. Kirvan, to Pfaunder Permutit Inc. Tank supporting means. 2,870,982, 1-27-59, Cl. 248-146.
- Greene, Raymond H., to Calumet & Hecla, Inc. Apparatus for manufacturing integral finned tubing. 2,868,046, 1-13-59, Cl. 80-13.
- Greene, Raymond H., to Calumet & Hecla, Inc. Device for bending coils. 2,870,816, 1-27-59, Cl. 153-40.
- Greene, Robert S.: *See*—  
Greene, Oscar and R. S. 2,875,803.
- Greene, Robert Z., V. Benson, and R. Spilman, to Rowe Mfg. Co., Inc. Display panel. 2,871,081, 1-27-59, Cl. 312-114.
- Greene, Samuel. Weather strip for jalousie windows. 2,867,304, 1-6-59, Cl. 189-62.
- Greene, Sidney R. Vehicle door-closed safety system. 2,876,856, 3-10-59, Cl. 180-82.
- Greene, William L., to Rogers, Taliaferro & Lamb, Architects. Chimney structure. 2,868,107, 1-13-59, Cl. 98-58.
- Greene, William L., to Tecfab, Inc. Prefabricated roof or ceiling panel. 2,902,854, 9-8-59, Cl. 72-68.
- Greenfield, Charles. Grinding and rendering of fat containing tissue. 2,911,421, 11-3-59, Cl. 260-412.6.
- Greenfield, Charles. Recovery of stearic and oleic acids. 2,911,423, 11-3-59, Cl. 260-419.
- Greenfield, Eugene W., and L. F. Rosehmann, to Kaiser Aluminum & Chemical Corp. Electrical Conductor and system. 2,870,311 1-20-59, Cl. 219-19.
- Greenfield, Jack: *See*—  
Adkins, Virgil H. 2,903,002.
- Greenhalgh, Frank G., and E. Long, to United States of America, Atomic Energy Commission. Support device for use in a nuclear reactor. 2,877,170, 3-10-59, Cl. 204-193.2.
- Greenhalgh, Norman, and J. K. Walley, to Imperial Chemical Industries Ltd. Cyanacetylhydrazide compositions for treating lung-worms and methods for using same. 2,899,356, 8-11-59, Cl. 167-53.1.



- Greenhalgh, Roger C., to International Business Machines Corp. Data transfer and translating system. 2,872,666, 2-3-59, Cl. 340-174.
- Greenhead, Bernard R., to H. D. F. Ltd. Method of and apparatus for the control of television picture signals. 2,911,466, 11-3-59, Cl. 178-6.8.
- Greenhough, Vernon W.: See—  
Johnson, Francis M., and Greenhough. 2,872,782.
- Greening Nursery Co.: See—  
Romine, James W. 2,907,157.
- Greenlaw, Wilbert D.: See—  
Tobias, Robert A., and Greenlaw. 2,880,751.
- Greenleaf, Francis D.: See—  
Wiley, Frank G., and Greenleaf. 2,918,581.
- Greenleaf, Francis D., R. F. Meyer, and L. F. Villar, to Servo Corp. of America. Oscillating optical scanner. 2,911,470, 11-3-59, Cl. 178-7.6.
- Greenleaf, Nathaniel B.: See—  
Marker, Henry H., and Greenleaf. 2,882,540.
- Greenleaf, Nathaniel B., to Sponge Products Corp. Sponge element for mops. 2,897,528, 8-4-59, Cl. 15-244.
- Greenlee Bros. & Co.: See—  
Hawkinson, Donald E., Kolnes, and Jannenga. 2,895,354.  
Swanson, Edwin C. 2,869,407.
- Greenlee, Harry R., to Chrysler Corp. Safety pneumatic tire. 2,871,904, 2-3-59, Cl. 152-341.
- Greenlee, Helen B.: See—  
Scott, Arthur D., Greenlee, Evans, and Sinn. 2,899,860.
- Greenlee, Paul H., to Grimes Mfg. Co. Aircraft instrument panel illuminator. 2,874,269, 2-17-59, Cl. 240-8.16.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Resinous coating compositions and process of making them. 2,873,200, 2-10-59, Cl. 106-218.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Alkali soluble resins and compositions containing the same. 2,890,189, 6-9-59, Cl. 260-29.2.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Alkali soluble resins and compositions containing the same. 2,890,203, 6-9-59, Cl. 260-47.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Compositions of polycarboxylic acid amides, polyepoxides, and phenol-aldehyde condensates. 2,893,965, 7-7-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Resin compositions containing tricarboxylic oxy-acids. 2,893,966, 7-7-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Composition of polycarboxylic acid amides, polyepoxides and ammonia derivative-aldehyde condensates. 2,893,968, 7-7-59, Cl. 260-45.2.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Compositions of 4,4 bis(hydroxyaryl)penta-n-amide-ether acids and polyepoxides. 2,893,974, 7-7-59, Cl. 260-47.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyurethane of a polyisocyanate, an active hydrogen compound and a resinous polybasic acid and method of preparing same. 2,907,718, 10-6-59, Cl. 260-2.5.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyurethane of a polyisocyanate, and active hydrogen compound and a hydroxyaryl-aliphatic acid-aldehyde condensate and method of preparing same. 2,907,719, 10-6-59, Cl. 260-2.5.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Composition of 4,4 bis(hydroxyaryl) pentaonic acid co-esters and polyepoxides. 2,907,723, 10-6-59, Cl. 260-18.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Mixed esters. 2,907,724, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyepoxide, phenol-aldehyde condensates, mixed ester compositions. 2,907,725, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Diphenolic pentaonic acid, alkyl acid ester, polyepoxide reaction products. 2,907,726, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Autoester-polyepoxide compositions. 2,907,727, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Compositions of diphenolic acid co-amides and polyepoxides. 2,907,728, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Epoxide, diphenolic acid aldehyde condensates. 2,907,729, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Diphenolic acid, epoxide compositions. 2,907,730, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Epoxide, monohydric alcohol-diphenolic acid ester compositions and the modification thereof with aldehyde condensates. 2,907,731, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polycarboxylic acid, epoxide compositions and aldehyde condensate modifications thereof. 2,907,732, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Diphenolic acid modified oil-aldehyde condensates. 2,907,733, 10-6-59, Cl. 260-20.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Compositions of polyepoxides, ammonia derivative-aldehyde condensates and mixed esters. 2,907,734, 10-6-59, Cl. 260-21.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Esterified epoxy polyesters. 2,907,735, 10-6-59, Cl. 260-22.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Esters of polyhydric phenols. 2,907,736, 10-6-59, Cl. 260-22.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Resin acid esters of polyhydric phenols. 2,907,737, 10-6-59, Cl. 260-22.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Mixed resin acid esters of 4,4 bis(4-hydroxyaryl) pentaonic acid. 2,907,738, 10-6-59, Cl. 260-24.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Natural resin acid esters 4,4 bis(4-hydroxyaryl) pentaonic acid. 2,907,739, 10-6-59, Cl. 260-24.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyepoxide diphenolic acid amide compositions and said compositions modified with aldehyde condensates. 2,907,740, 10-6-59, Cl. 260-43.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Compositions of novel polyhydric phenols and polyepoxides. 2,907,741, 10-6-59, Cl. 260-44.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Resinous polyhydric phenols. 2,907,743, 10-6-59, Cl. 260-47.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Etheric acid esters. 2,907,744, 10-6-59, Cl. 260-47.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyurethane of a polyisocyanate, an active hydrogen compound, and a hydroxyaryl aliphatic acid. 2,907,745, 10-6-59, Cl. 260-47.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Hydroxyaryl aliphatic acid polyurethanes. 2,907,746, 10-6-59, Cl. 260-47.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyurethanes of polyisocyanates and resinous polymeric acids. 2,907,747, 10-6-59, Cl. 260-47.
- Greenlee, Sylvan O. Polyurethane of a polyisocyanate and a self-ester of a hydroxyaryl-aliphatic acid or an acyl derivative thereof. 2,907,749, 10-16-59, Cl. 260-47.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Polyurethanes of hydroxyaryl-aliphatic acid-aldehyde condensates. 2,907,750, 10-6-59, Cl. 260-51.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Esters of polyhydric phenol amides. 2,907,778, 10-6-59, Cl. 260-404.5.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Unsaturated diester acids. 2,907,779, 10-6-59, Cl. 260-410.5.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Esters of polyhydric phenols. 2,908,005, 10-6-59, Cl. 260-19.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Complex esters. 2,908,006, 10-6-59, Cl. 260-18.
- Greenlee, Sylvan O., to S. C. Johnson & Son, Inc. Alkali soluble resins and compositions containing the same. 2,909,505, 10-20-59, Cl. 260-47.
- Greenlee, William B.: See—  
Scott, Arthur D., Greenlee, Evans, and Sinn. 2,899,860.
- Greenlie, David G., to W. R. Grace & Co. Gasket applying machine. 2,910,041, 10-27-59, Cl. 118-59.
- Greenman, Orval L., to The Bulman Corp. Structural device. 2,910,740, 11-3-59, Cl. 20-11.
- Greenmun, Leo S. Dental impression tray. 2,901,825, 9-1-59, Cl. 32-17.
- Greenmun, Leo S. Limit travel stop for dentures. 2,911,720, 11-10-59, Cl. 32-2.
- Greenough, Raymond E., to Cleveland Pneumatic Industries, Inc. Antiskid brake mechanism. 2,904,136, 9-15-59, Cl. 188-181.
- Greensides, Lawrence A. Bath tub and attachment therefor. 2,870,456, 1-27-59, Cl. 4-173.
- Greenspan, Frank P., and R. E. Light, Jr., to Food Machinery and Chemical Corp. Copolymer polyhydric phenol resin. 2,875,178, 2-24-59, Cl. 260-47.
- Greenspan, Frank P., and R. J. Gall, to Food Machinery and Chemical Corp. Process of epoxidation. 2,919,283, 12-29-59, Cl. 260-348.5.
- Greenspan, Irving. Bottle with disposable cartridge. 2,885,104, 5-5-59, Cl. 215-6.
- Greenspan, Lawrence: See—  
Barney, Kay H., and Greenspan. 2,903,605.
- Greenwald, Bertrand W.: See—  
Kerschner, Paul M., and Greenwald. 2,907,783.  
Kerschner, Paul M., and Greenwald. 2,916,507.
- Greenwald, H., Co., Inc.: See—  
Greenwald, Harry. 2,877,637.  
Greenwald, Harry. 2,899,622.  
Greenwald, Harry. 2,915,692.
- Greenwald, Harold A., to The Garrett Corp. Motor driven compressor. 2,888,193, 5-26-59, Cl. 230-117.
- Greenwald, Harry, to H. Greenwald Co. Inc. Locked coin drawer. 2,877,637, 3-17-59, Cl. 70-86.
- Greenwald, Harry, to H. Greenwald Co., Inc. Coin-actuated switch control means for electrical appliances. 2,899,622, 8-11-59, Cl. 318-470.
- Greenwald, Harry, to H. Greenwald Co. Inc. Coin device clock mechanism. 2,915,692, 12-1-59, Cl. 318-470.
- Greenwald, Howard J. Folding paired legs. 2,891,832, 6-23-59, Cl. 311-89.
- Greenwald, Marvin J. Basket device for supporting and confining a roast or the like in a rotisserie. 2,882,812, 4-21-59, Cl. 99-427.
- Greenwood, Allan, T. H. Lee, and H. N. Schneider, to General Electric Co. Vacuum type circuit interrupter. 2,892,912, 6-30-59, Cl. 200-144.
- Greenwood, Dolphice H. Gate valve and sealing means therefore. 2,870,987, 1-27-59, Cl. 251-327.



- Greenwood, Ernest W.: *See*—  
Alumbaugh, John W., and Greenwood. 2,881,812.
- Greenwood, Ivan A., Jr.: *See*—  
Gray, John W., Hales, and Greenwood. 2,908,902.
- Greenwood, Ivan A., Jr., to General Precision Laboratory Inc. Right triangle solver using feedback. 2,872,112, 2-3-59, Cl. 235-61.
- Greenwood, Ivan A., Jr., and F. B. Berger, to General Precision Laboratory Inc. Doppler-inertial navigation data system. 2,914,763, 11-24-59, Cl. 343-9.
- Greenwood, John W. Bearing-supported router. 2,872,731, 2-10-59, Cl. 30-276.
- Greenwood, Marvin H., and A. L. Presnal, to Anderson, Greenwood & Co. Rupturable diaphragm valve. 2,888,025, 5-26-59, Cl. 137-71.
- Greenwood, Marvin H., and W. C. Francis, Jr., to Anderson, Greenwood & Co. Pilot-operated relief valve. 2,890,714, 6-16-59, Cl. 137-491.
- Greenwood, Raymond R. Animal holding apparatus. 2,914,026, 11-24-59, Cl. 119-103.
- Greenwood, Ruth A.: *See*—  
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- Greer, Albert H., to Pfaunder Permutit Inc. Anion exchange resins from epihalohydrin and polyalkylenepolyamines. 2,898,309, 8-4-59, Cl. 260-2.1.
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- Greer, Edith S.: *See*—  
Carper, Harold R. 2,897,570.  
Gillespie, Russell A. 2,889,588.  
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Gillespie, Russell A. 2,898,646.
- Greer, Edward M., J. J. Jenkins, and K. Barth, to G.M.E. Corp. Hatch cover assembly. 2,910,031, 10-27-59, Cl. 114-201.
- Greer, Frank E. Bait box. 2,903,814, 9-15-59, Cl. 43-55.
- Greer, Fred W., to Wire Belt Co. of America. Belt conveyor. 2,906,395, 9-29-59, Cl. 198-195.
- Greer, Henry W., R. W. Hompe, and J. A. Martell, to Smith, Kline & French Laboratories. Capsule filling machine. 2,890,557, 6-16-59, Cl. 53-281.
- Greer Hydraulics, Inc.: *See*—  
Mercier, Jacques H. 2,877,801.
- Greer, J. W. Co.: *See*—  
Keyes, Clifford B. 2,878,948.  
Keyes, Clifford B., and Hill. 2,878,923.  
Locke, Burton H., and Convers. 2,875,907.  
Woodcock, Robert R. 2,875,908.
- Greer, Joseph R.: *See*—  
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- Greff, Leon J., Sr.: *See*—  
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- Greffé, André, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieres Electriques d'Ugine. Process for removing iron from titaniferous material. 2,885,280, 5-5-59, Cl. 75-1.
- Greger, Herbert H. Process of manufacturing ceramic ferrites. 2,886,530, 5-12-59, Cl. 252-62.5.
- Gregersen, Christen H., to Kastrup Maskinfabrik A/S. Sweeping machines. 2,913,744, 11-24-59, Cl. 15-83.
- Gregersen, Halfdan: *See*—  
Facer, Leroy H. 2,867,522.
- Gregg, Earl C., Jr., to The B. F. Goodrich Co. Method for producing binary poly sulfur group compounds of morpholine and/or piperidine. 2,911,405, 11-3-59, Cl. 260-247.1.
- Gregg, Hendrick J. Apparatus for quenching ring gears and similar articles. 2,894,519, 7-14-59, Cl. 134-147.
- Gregg, Mahlon H.: *See*—  
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Decker, Frederick J., and Gregg. 2,901,768.
- Gregg, Mahlon H., and F. J. Decker, to The Caldwell Mfg. Co. Sash balance. 2,890,480, 6-16-59, Cl. 16-197.
- Gregoire, Ferdinand A., to Societe des Blancs de Zinc de la Mediterranee Eng. Chabaury, Pierre Gindre & Cie. Method of dissolving orthotitanic acid. 2,905,530, 9-22-59, Cl. 23-87.
- Gregor, Frank J.: *See*—  
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- Gregor, Harry P.: *See*—  
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- Gregorie, Ferdinand, Jr.: *See*—  
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- Gregorius, Joseph S., to Pittsburgh Plate Glass Co. Glass stirring mechanism. 2,891,777, 6-23-59, Cl. 259-107.
- Gregory, Alfred T., and K. A. Browne, to Fairchild Engine and Airplane Corp. Centering device. 2,908,518, 10-13-59, Cl. 287-52.
- Gregory, Arthur C. Combination cradle, bassinet and buggy. 2,869,145, 1-20-59, Cl. 5-109.
- Gregory, Arthur S., to Weyerhaeuser Timber Co. Process for the conversion of dihydroquercetin to quercetin. 2,890,225, 6-9-59, Cl. 260-345.2.
- Gregory, Benjamin F. Universal joint and lubricant retaining housing therefor. 2,875,599, 3-3-59, Cl. 64-21.
- Gregory, Charles A., to United States of America, Navy. Method of producing radio wave reflector cords of varied length. 2,881,425, 4-7-59, Cl. 343-18.
- Gregory, Elmer O., 1/2 to E. A. Polumbus, Jr. Thread protectors for well sucker-rods. 2,873,765, 2-17-59, Cl. 138-96.
- Gregory, Eric, to Sintercast Corp. of America. Method of introducing hard phases into metallic matrices. 2,894,838, 7-14-59, Cl. 75-206.
- Gregory Industries, Inc.: *See*—  
Havemeyer, George E. 2,898,443.  
Haynes, Clyde H. 2,893,762.  
Jenkins, John C. 2,883,215.  
Murdock, Robert W., and Singleton. 2,896,065.  
Shoup, Thomas E. 2,873,354.  
Shoup, Thomas E., and Mowry. 2,878,363.
- Gregory, James, to G. Q. Parachute Co. Ltd. Parachute pack. 2,869,809, 1-20-59, Cl. 214-148.
- Gregory, James T., to The B. F. Goodrich Co. 2-imino-3-substituted-1,3,4,6H-thiadiazines and methods for their preparation. 2,871,237, 1-27-59, Cl. 260-243.
- Gregory, James T., to The B. F. Goodrich Co. 2-nitrosoimino-1,3,4,6H-thiadiazines and methods for their preparation. 2,871,238, 1-27-59, Cl. 260-243.
- Gregory, Joseph M., and F. E. Smith, to Designed Products Ltd. Mobile pack. 2,917,167, 12-15-59, Cl. 206-65.
- Gregory, Louis P. Air pressure demonstrator. 2,878,588, 3-24-59, Cl. 35-19.
- Gregory, Marion B., to The Baldwin Piano Co. Transistor oscillator for vibrato purposes. 2,899,648, 8-11-59, Cl. 331-117.
- Gregory, Paul, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Process for cooling hot gases containing suspended titanium dioxide particles. 2,909,409, 10-20-59, Cl. 23-202.
- Gregory, Thomas A., and F. J. Shelton, to Reichhold Chemicals, Inc. Phenolic resin composition and means for controlling viscosity of same. 2,889,241, 6-2-59, Cl. 154-133.
- Gregory, Thurlow G. Cord-reinforced cellulose sponge material. 2,916,390, 12-8-59, Cl. 106-164.
- Gregory, Walter A., to E. I. du Pont de Nemours and Co. Process for producing aromatic sulfonyl halides. 2,888,486, 5-26-59, Cl. 260-543.
- Gregory, William E.: *See*—  
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- Gregory, William T.: *See*—  
Sullivan, Robert E., and Gregory. 2,894,913.
- Gregson, Alvero C., and M. Rennie, to United States of America, Army. Tube socket. 2,891,231, 6-16-59, Cl. 339-93.
- Gregson, William, and W. F. S. Turner, to Ferranti, Ltd. Electrical frequency meters. 2,900,600, 8-18-59, Cl. 324-78.
- Greibach, Emil H. Electrical measuring devices. 2,882,496, 4-14-59, Cl. 324-125.
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- Greider, Kendig H. Book marker. 2,911,940, 11-10-59, Cl. 116-119.
- Greif Bros. Cooperage Corp., The: *See*—  
Carpenter, Herbert L. 2,892,749.  
Carpenter, Herbert L., and Herbert L. Carpenter, Jr. 2,884,176.
- Greif, Francis. Memorandum pads and the like. 2,916,303, 12-8-59, Cl. 281-8.
- Greiff, Robert: *See*—  
Gasior, Joseph F., and Greiff. 2,916,975.
- Greig, Harold G., to Radio Corp. of America. Electrostatic printing. 2,874,063, 2-17-59, Cl. 117-17.5.
- Greig, James W., to Woodall Industries, Inc. Folding door assembly. 2,901,036, 8-25-59, Cl. 160-208.
- Grein, Hermann, and W. Zander, to Barmer Maschinenfabrik Aktienges. Multiple-headed winding machine. 2,915,253, 12-1-59, Cl. 242-35.5.
- Greiner, Arno, to Uwimco, Inc. Coil winding machine. 2,893,195, 7-7-59, Cl. 57-3.
- Greiner, Arno, and O. R. Wollentin, deceased, by R. W. Wollentin, administrator, to Westinghouse Electric Corp. Machine for forming coils. 2,877,804, 3-17-59, Cl. 140-71.
- Greiner, John W.: *See*—  
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- Greiner, Leonard, to Experiment Inc. Differential area piston pumping system. 2,918,791, 12-29-59, Cl. 60-35.6.
- Greiner, Leroy J., and D. L. Ebbage, to Macco Corp. Vehicle back-up warning signal actuator. 2,873,437, 2-10-59, Cl. 340-70.
- Greisen, Kenneth I.: *See*—  
Rossi, Bruno, and Greisen. 2,903,691.
- Greiser, Rudolph F.: *See*—  
Rosenman, Abraham W., and Greiser. 2,915,218.
- Greisman, Jack. Cuing method and system. 2,892,039, 6-23-59, Cl. 179-100.1.
- Greisman, Samuel, to Comtex Ltd. Sewing machines. 2,910,949, 11-3-59, Cl. 112-11.
- Greist Mfg. Co., The: *See*—  
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Dwyer, Walter M. 2,869,242.  
Gundersen, Arnold E. 2,906,027.  
Johnson, Harry N., and Baehr. 2,890,668.  
Thomas, Charles R. 2,894,467.
- Greivell, Robert L., to Caterpillar Tractor Co. Rotatable counterweight mechanism. 2,891,681, 6-23-59, Cl. 212-49.



- Grelat, Maurice, to Ciba Ltd. Vat dyestuffs and process for their manufacture. 2,884,425, 4-28-59, Cl. 260-316.
- Greller, Nelson P., and W. E. Graybeal. Conveyor. 2,868,894, 1-13-59, Cl. 24-11.
- Greminger, George K., Jr.: *See—*  
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- Greminger, George K., Jr., and F. E. Windover, to The Dow Chemical Co. Enteric coating. 2,887,440, 5-19-59, Cl. 167-82.
- Gremmelmaier, Rolf: *See—*  
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- Grempp, Eugene W. Portable belt press. 2,871,730, 2-3-59, Cl. 77-13.
- Grenell, Leland H., to General Motors Corp. Fused aluminum to copper pipe coupling. 2,903,763, 9-15-59, Cl. 22-203.
- Grenier, Aime J., L. C. Beggs, and R. G. Mawney, to Texas Instruments, Inc. Electrical switch structure. 2,907,847, 10-6-59, Cl. 200-104.
- Grenier, George H., to General Electric Co. Limiting amplifier. 2,883,480, 4-21-59, Cl. 179-171.
- Grenier, Maurice, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Process for the regeneration of an adsorbent bed. 2,882,998, 4-21-59, Cl. 183-114.2.
- Greninger, Elias G., to The Bryant Electric Co. Joined article. 2,877,490, 3-17-59, Cl. 16-121.
- Grenley, Dallas G.: *See—*  
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- Grenley, Dallas G., and H. J. Townsend, to The Dow Chemical Co. Coating polyethylene with haloethylene polymers and composite articles thereby obtained. 2,897,100, 7-28-59, Cl. 117-138.8.
- Greppin, Ernest H., to Wilmot Castle Co. Emergency lighting system for hospital operating rooms and the like. 2,880,372, 3-31-59, Cl. 315-86.
- Gresham, Claude D.: *See—*  
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- Gresham, William C., and K. W. Cochran, to Atlas Pipe, Inc. Apparatus for magnetic inspection. 2,886,772, 5-12-59, Cl. 324-37.
- Gresham, William F., to E. I. du Pont de Nemours and Co. Process of preparing linear polymers of multiviny aromatic compounds. 2,901,470, 8-25-59, Cl. 260-93.5.
- Gresham, William F., and N. G. Merckling, to E. I. du Pont de Nemours and Co. Polymerization catalyst and process. 2,872,439, 2-3-59, Cl. 260-94.9.
- Gresham, William F., and N. G. Merckling, to E. I. du Pont de Nemours and Co. Coordination catalysts using silver. 2,888,448, 5-26-59, Cl. 260-94.9.
- Gresham, William F., and N. G. Merckling, to E. I. du Pont de Nemours and Co. Ethylene polymerization with catalysts prepared from molybdenum pentachloride and reducing compounds. 2,900,372, 8-18-59, Cl. 260-94.9.
- Greshel, Leonard J.: *See—*  
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- Greshel, Leonard J., to North Electric Co. Dial governor mounting arrangement. 2,868,887, 1-13-59, Cl. 179-90.
- Gresko, Raymond S., to Bendix-Westinghouse Automotive Air Brake Co. Anti-freeze control mechanism. 2,893,625, 7-7-59, Cl. 230-202.
- Gretener, Edgar, A.G.: *See—*  
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- Gretener, Edgar, to Edgar Gretener A.G. Arc lamp with air current concentration. 2,892,118, 6-23-59, Cl. 313-149.
- Gretener, Edgar. Reflector. 2,914,989, 12-1-59, Cl. 88-105.
- Gretz, George J. Carburetors. 2,875,990, 3-3-59, Cl. 261-23.
- Gretz, John L.: *See—*  
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- Gretz, John L., to The B. F. Goodrich Co. Shock absorptive packaging. 2,897,959, 8-4-59, Cl. 206-46.
- Greubel, Alfred H. Heating devices. 2,917,617, 12-15-59, Cl. 219-39.
- Greulich, Gerald G., to Ceco Steel Products Corp. Clip for anchoring sheet metal centering to supporting joists or beams. 2,900,056, 8-18-59, Cl. 189-35.
- Greulich, Gerald G., and J. F. Rushing, to Ceco Steel Products Corp. Splice sleeves for connecting electro-channel joists. 2,905,285, 9-22-59, Cl. 189-37.
- Greune, Heinrich: *See—*  
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- Greve, Reinhard C., to North American Philips Co., Inc. Stepwise operating driving device. 2,900,840, 8-25-59, Cl. 74-575.
- Grevey, Gene B.: *See—*  
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- Grevich, John J., to Doughboy Industries, Inc. Coding device. 2,874,637, 2-24-59, Cl. 101-377.
- Grevich, John J., to Doughboy Industries, Inc. Variable pitch pulleys. 2,896,461, 7-28-59, Cl. 74-230.17.
- Grevich, John J., to Doughboy Industries, Inc. Power driven hand heat sealing unit. 2,906,847, 9-29-59, Cl. 219-21.
- Grew, Dolphis G. Method of harvesting cucumbers. 2,903,839, 9-15-59, Cl. 56-327.
- Grew, Ferdinand: *See—*  
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- Sasse, Klaus, Wegler, and Grew. 2,904,553.
- Urbschat, Ewald, and Grew. 2,910,463.
- Grew, Theodor, to International Standard Electric Corp. Oscillator circuit for transistors. 2,896,170, 7-21-59, Cl. 331-117.
- Grey, David S., to Polaroid Corp. Combined range and view finder for cameras. 2,914,997, 12-1-59, Cl. 95-42.
- Grey Equipment, Inc.: *See—*  
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- Lang, John C. 2,866,976.
- Grey, Gregory F., to The Ohio Nut & Bolt Co. Weld nut with welding projections having transversely and longitudinally curved surfaces. 2,903,310, 10-13-59, Cl. 151-41.7.
- Grey, Hugh M., Jr., and H. E. Coley, to Grey Equipment, Inc. Removable front for stapling machine. 2,905,942, 9-29-59, Cl. 1-49.
- Grey, McHenry W.: *See—*  
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- Greyson, William L., to Hitemp Wires, Inc. Process for promoting adhesion to difficultly wettable polymer surface. 2,888,367, 5-26-59, Cl. 117-138.8.
- Gribben, Bruce D.: *See—*  
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- Gribben, Earl R. Three bar continuous wall outlet. 2,899,668, 8-11-59, Cl. 339-21.
- Gribble, Frederick D., to Rotax Ltd. Electric switches. 2,878,338, 3-17-59, Cl. 200-103.
- Gribble, Joseph J., to Square D Co. Contactors. 2,873,330, 2-10-59, Cl. 200-144.
- Gribble, Joseph J., to Square D Co. Mounting assemblies. 2,902,534, 9-1-59, Cl. 174-53.
- Gribnitz, William E., Jr.: *See—*  
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- Griebe, Erwin S., to Marine Oil Terminal Co., Inc. Float-supported sea terminal. 2,894,268, 7-14-59, Cl. 9-8.
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- Grieco-Bros., Inc.: *See—*  
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- Grieder, Charles K. Galloping hobby horse. 2,911,226, 11-3-59, Cl. 280-1.183.
- Grieg, Donald D., and S. Moskowitz, to Electronic Research Associates, Inc. Noise figure meter. 2,891,217, 6-16-59, Cl. 324-57.
- Grieg, Donald D., and H. F. Engelmann, to International Telephone and Telegraph Corp. Microwave transmission lines. 2,915,718, 12-1-59, Cl. 333-84.
- Griem, Milton E.: *See—*  
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- Griem, Milton E., to Milprint, Inc. Sliced food package. 2,911,306, 11-3-59, Cl. 99-171.
- Griep, Elmer F., to California Research Corp. Engine fuel system. 2,911,958, 11-10-59, Cl. 123-30.
- Grier, Louis N., to Aluminum Co. of America. Ventilated electrical bus bar structures. 2,904,621, 9-15-59, Cl. 174-126.
- Gerson, Thomas A. E. Portable sheet cutting machine. 2,873,801, 2-17-59, Cl. 164-36.
- Griesing, Frank J.: *See—*  
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- Griest, Andrew J., W. M. Parris, and P. D. Frost, to United States of America, Army. Surface hardening of titanium. 2,892,743, 6-30-59, Cl. 148-13.1.
- Grieve, Alexander, and W. J. Scott, to The British Thomson-Houston Co. Ltd. Glass-to-metal seals. 2,885,826, 5-12-59, Cl. 49-81.
- Grieve, George T. W.: *See—*  
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- Latin, Aubrey, Grieve, and Conning. 2,887,223.
- Grieve, George T. W., and S. W. Ripley, to British Insulated Callender's Cables Ltd. Machine for lapping strips of material on electric conductors and other articles. 2,907,164, 10-6-59, Cl. 57-13.
- Griffes, Milton W., and C. W. Merchant, to The Euclid Electric & Mfg. Co. Electric control device. 2,902,088, 9-1-59, Cl. 161-1.
- Griffeth, Forrest P., and L. Liquid floor wax container and applicator. 2,887,706, 5-26-59, Cl. 15-131.
- Griffeth, Lena: *See—*  
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- Griffin, Cornell Co.: *See—*  
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- Griffin, Dorothea A. Baby food warmer. 2,894,657, 7-14-59, Cl. 220-23.4.
- Griffin, Eric, and B. R. Flury, to Metal Sections Ltd. Wall structures for buildings. 2,904,851, 9-22-59, Cl. 20-4.
- Griffin, George C. Door frame construction. 2,890,500, 6-16-59, Cl. 20-11.
- Griffin, Harry L., to Blaw-Knox Co. Agglomeration process and apparatus. 2,893,871, 7-7-59, Cl. 99-56.
- Griffin, James H. Built in insecticide distribution system. 2,915,848, 12-8-59, Cl. 43-124.
- Griffin, John J., to Petro-Chem Process Co., Inc. Heavy fuel burner with combustion gas recirculating means. 2,918,117, 12-22-59, Cl. 158-1.
- Griffin, John T., to Clevite Corp. Wire bender and connector. 2,915,616, 12-1-59, Cl. 219-79.
- Griffin, Lindsay I., Jr.: *See—*  
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- Griffin, Lindsay I., Jr., to Esso Research and Engineering Co. Determination of bed fluidity in fluid cokers. 2,888,398, 5-26-59, Cl. 208—157.
- Griffin, Lindsay I., Jr., E. J. Newchurch, R. W. Krebs, and R. F. Stringer, to Esso Research and Engineering Co. Fluidized solids process for coking heavy oils. 2,886,514, 5-12-59, Cl. 208—127.
- Griffin, Raymond L., to Shell Development Co. Process for the preparation of age resistant asphalt compositions. 2,904,494, 9-15-59, Cl. 208—23.
- Griffin, Samuel E. C., W. E. Railing, and J. C. Yacoe, to E. I. du Pont de Nemours and Co. Distillation of tar residues. 2,889,257, 6-2-59, Cl. 202—52.
- Griffin Wheel Co.: *See—*  
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- Griffin, Wilber H. Method and apparatus for completing wells. 2,906,339, 9-29-59, Cl. 166—35.
- Griffin, William D., and Z. Oser, to Allied Chemical Corp. Production of dimethyl phenyl carbinol. 2,881,220, 4-7-59, Cl. 260—618.
- Griffin, William D., and G. G. Joris, to Allied Chemical Corp. Production of cumylphenol from  $\alpha$ -methylstyrene dimer. 2,882,322, 4-14-59, Cl. 260—619.
- Griffin, William K., Jr., and J. F. Killion, to Food Machinery and Chemical Corp. Apparatus for applying adhesive to predetermined areas of a series of articles. 2,873,717, 2-17-59, Cl. 118—204.
- Griffing, Margaret E.: *See—*  
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- Griffith, Alan A., and A. W. Thorpe; said Griffith assor. to Rolls-Royce Ltd., and said Thorpe assor. to The Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Controls for aircraft. 2,870,978, 1-27-59, Cl. 244—23.
- Griffith, Ben H., Jr., to United States of America. Navy. Coaxial connector. 2,875,417, 2-24-59, Cl. 333—34.
- Griffith, Earl G. Box packing machine. 2,889,676, 6-9-59, Cl. 53—244.
- Griffith, George W., to The General Electric Co. Ltd. Electric amplifier arrangements. 2,917,711, 12-15-59, Cl. 330—53.
- Griffith, James S.: *See—*  
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- Griffith Laboratories, Inc., The: *See—*  
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Schnell, Carl. Re. 24,683.  
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- Griffith, Llewellyn B. Hood closed sludge channel. 2,883,060, 4-21-59, Cl. 210—532.
- Griffith, Llewellyn B. Sewage air lift. 2,892,414, 6-30-59, Cl. 103—232.
- Griffith, Llewellyn B. Apparatus for slow steady removal of digester liquid. 2,892,545, 6-30-59, Cl. 210—97.
- Griffith, Llewellyn B. Sewage scum removal. 2,897,149, 7-28-59, Cl. 210—48.
- Griffith, Louis E., to Riley Stoker Corp. Furnace construction. 2,883,972, 4-28-59, Cl. 122—235.
- Griffith, Park M. Fish hook. 2,900,753, 8-25-59, Cl. 43—37.
- Griffith, Paul H. Warning signal devices. 2,890,623, 6-16-59, Cl. 88—78.
- Griffith, Raymond C. Hydraulic system. 2,882,686, 4-21-59, Cl. 60—545.
- Griffith, Robert B., to The Kentucky Research Foundation. Method and apparatus for rapidly obtaining test solutions. 2,909,469, 10-20-59, Cl. 202—46.
- Griffith, Ronald G. Switching arrangement for an electric motor. 2,873,308, 2-10-59, Cl. 178—41.
- Griffith, Ronald G. Type printing apparatus. 2,876,280, 3-3-59, Cl. 178—34.
- Griffith, Ronald G. Printing telegraph apparatus. 2,906,821, 9-29-59, Cl. 178—34.
- Griffith, Ronald G. Type positioning mechanism of telegraph printing apparatus. 2,911,472, 11-3-59, Cl. 178—34.
- Griffiths, Clyde C., to Whiting Corp. Foundry ladle transfer car. 2,889,597, 6-9-59, Cl. 22—82.
- Griffiths, E. F. Co., The: *See—*  
Raub, William A., and Ullman. 2,884,782.
- Griffiths, Edgar J. Filter for sampling fluids. 2,895,613, 7-21-59, Cl. 210—130.
- Griffiths, Edward: *See—*  
Newcomer, Jacob R., Jr., and Griffiths. 2,879,123.
- Griffiths, Francis M., to Kelvin & Hughes Ltd. Navigational time distance map instrument. 2,916,203, 12-8-59, Cl. 235—61.
- Griffiths, Jack, and W. G. Harland, to The British Cotton Industry Research Association. Printing of fabrics. 2,899,264, 8-11-59, Cl. 8—148.
- Griffiths, Thomas A.: *See—*  
Reagan, John J., and Griffiths. 2,906,489.
- Griffiths, Warren P. Hand washboards. 2,879,656, 3-31-59, Cl. 68—220.
- Grifo, Richard A., to Colgate-Palmolive Co. Liquid detergent composition. 2,908,651, 10-13-59, Cl. 252—153.
- Grifo, Richard A., and R. L. Mayhew, to General Aniline & Film Corp. Drying oil compositions containing N-substituted hydroxy butyryl amide. 2,872,332, 2-3-59, Cl. 106—252.
- Grigger, John C.: *See—*  
Miller, Henry C., and Grigger. 2,872,405.
- Griggs, Nelson S. Sap collection system. 2,877,601, 3-17-59, Cl. 47—52.
- Griggs, William H., and H. G. Curme, to Eastman Kodak Co. Preparation of coatings of improved internal strength. 2,875,054, 2-24-59, Cl. 96—85.
- Griggs, William H., and F. A. Butler, to Eastman Kodak Co. Photographic paper having reduced processing curl. 2,875,055, 2-24-59, Cl. 96—85.
- Griggs, William H., and R. D. Zaffrann, to Eastman Kodak Co. Method of preparing webs from cellulose esters. 2,887,429, 5-19-59, Cl. 162—146.
- Grim, Clyde D. Positive seal, quick opening cap for pressure vessels. 2,877,921, 3-17-59, Cl. 220—39.
- Grim, Otto: *See—*  
Waas, Heinrich, Ehlers, and Grim. 2,902,964.
- Grimal, Adolf. Stereo camera tandem mount. 2,891,458, 6-23-59, Cl. 95—86.
- Grimal, Adolf. Stereo projection slide mounting device. 2,902,900, 9-8-59, Cl. 88—29.
- Grimal, Adolf. Film mask. 2,908,986, 10-20-59, Cl. 40—152.
- Grimes, James E. Electrical outlet protector. 2,891,102, 6-16-59, Cl. 174—67.
- Grimes Mfg. Co.: *See—*  
Greenlee, Paul H. 2,874,269.  
Laufer, Maurice K., and Hall. 2,916,606.
- Grimes, Paul R., to Firetaps Fuel & Chemical Corp. Fast kindling solid fuel. 2,916,364, 12-8-59, Cl. 44—6.
- Grimes, Ralph H.: *See—*  
Farr, Alton E., Grimes, and Schub. 2,881,646.
- Grimes, Roland S. Calendar. 2,901,848, 9-1-59, Cl. 40—116.
- Grimm, Bruce F., to United States of America. Army. Collapsible fuel tank. 2,884,978, 5-5-59, Cl. 150—5.
- Grimm, Henry G., Jr. Soap holder. 2,900,757, 8-25-59, Cl. 45—28.
- Grimm, Oliver K.: *See—*  
Hills, Donald W., and Grimm. 2,897,615.
- Grimm, Phyllis W., and D. L. Baker, to Basic Products Corp. Maltng process. 2,901,401, 8-25-59, Cl. 195—71.
- Grimme, Walter, H. Schwarzhans, and J. Wöllner, to Rheinpreussen Aktiengesellschaft für Bergbau und Chemie. Preparation of ketones from ketols. 2,913,497, 11-17-59, Cl. 260—593.
- Grimone, Frank H., to Sylvania Electric Products Inc. Hair pin heater, former and cutter. 2,871,890, 2-3-59, Cl. 140—71.
- Grimshaw, Charles: *See—*  
Euler, George M., and Grimshaw. 2,877,317.
- Grimshaw, Charles S., to General Electric Co. Automatic defrosting evaporator arrangement. 2,899,801, 8-18-59, Cl. 62—156.
- Grimshaw, Perry I., to Mayville Boat Carrier, Inc. Boat loading and carrying device for attachment to automobiles. 2,889,950, 6-9-59, Cl. 214—450.
- Grimson Color Inc.: *See—*  
Ehrenhaft, Franz F., Rosin, and Cawein. 2,884,483.
- Grinage, Claude M.: *See—*  
Bullard, Edward C., and Grinage. 2,890,298.
- Grinage, Claude M., to The Bullard Co. Plural machine control system. 2,887,268, 5-19-59, Cl. 235—132.
- Grinage, Claude M., to The Bullard Co. Horizontal boring mill. 2,887,906, 5-26-59, Cl. 77—3.
- Grindle, Eugene L., and J. L. Savage, to Deterjet Corp. Vibrating reed vibrometer. 2,900,817, 8-25-59, Cl. 73—705.
- Grindle, Eugene L., and E. G. Pickels. Liquid and vacuum cleaning machine. 2,909,800, 10-27-59, Cl. 15—321.
- Grindrod, George E. Method for sterilizing surfaces of food materials. 2,903,367, 9-8-59, Cl. 99—162.
- Grindrod, George E. Sterile packaged food. 2,904,441, 9-15-59, Cl. 99—174.
- Grindstaff, Ray. A. Fishing bait holder. 2,916,845, 12-15-59, Cl. 43—4.
- Griner, Arthur J., to National Biscuit Co. Sandwich machines. 2,868,141, 1-13-59, Cl. 107—1.
- Griner, Arthur J., to National Biscuit Co. Rotary dough-sheet cutters. 2,887,964, 5-26-59, Cl. 107—23.
- Griner, Richard R. Soap holder. 2,881,557, 4-14-59, Cl. 45—28.
- Grinerich, Joseph J., to General Electric Co. Protection system. 2,875,344, 2-24-59, Cl. 250—95.
- Gring, John L.: *See—*  
Teter, John W., Gring, and Erickson. 2,898,305.  
Teter, John W., Gring, and Erickson. 2,898,308.
- Grinnell Corp.: *See—*  
Blease, Malcolm T. 2,913,516.  
Boteler, Henry W. 2,892,613.  
Bray, Geddes A. 2,871,953.  
Loepsinger, Albert J. 2,913,183.  
Parlin, Raymond W. 2,913,184.  
Thielsch, Helmut J. 2,905,824.  
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Zollinger, Alfred. 2,919,088.
- Grinnell, Stuart W.: *See—*  
Perkins, William A., Grinnell, and Schadt. 2,868,318.
- Grinspoon, Harold, to Multi-Carton Corp. Open-ended carton for packaging paper cups and other articles. 2,899,049, 8-11-59, Cl. 206—65.



- Grinstead, Carl E., to Photocon Research Products. Pressure indicator. 2,896,138, 7-21-59, Cl. 317-246.
- Grinstead, Robert R., to United States of America, Atomic Energy Commission. Slurry solvent extraction process for the recovery of metals from solid materials. 2,869,979, 1-20-59, Cl. 23-14.5.
- Grinstead, Robert R., to United States of America, Atomic Energy Commission. Process for the recovery of metals from high-lime carnotite ores. 2,869,980, 1-20-59, Cl. 23-14.5.
- Grinstead, Sanford R., and J. B. Hanner, to Swift & Co. Packaging apparatus. 2,918,767, 12-29-59, Cl. 53-112.
- Grip, Erik K., to Aktiebolaget Atvidaberg-Facit. Zeroizing mechanism for calculating machines of the pin wheel type. 2,907,518, 10-6-59, Cl. 235-81.
- Grip Nut Co.: See—  
Abbott, Gail C. 2,880,868.  
Kass, Lawrence W., and Massey. 2,880,826.  
Kassick, Leonard R. 2,909,395.
- Grip, William H.: See—  
Doerr, Dale D., and Grip. 2,869,750.
- Grisanti, Amedeo. Waist grip for garments. 2,905,948, 9-29-59, Cl. 2-237.
- Griscom-Russell Co., The: See—  
Boni, Frank, Jr. 2,915,295.  
Gardner, Karl A., R. Gardner, Jr., and Boni. 2,911,200.  
Gardner, Raymond, Jr. 2,868,953.  
Hamersley, Gordon D. 2,872,065.  
Munro, Robert W. 2,910,275.  
Root, Clarence G. 2,903,153.  
Ryder, Anthony J. 2,914,346.  
Vaaler, Luther E. 2,919,115.
- Grisdale, George L., to Marconi's Wireless Telegraph Co. Ltd. Phase measuring circuit arrangements. 2,877,416, 3-10-59, Cl. 324-83.
- Grisel, Yvan V., to Maison Tschanz Comptoir de la Parfumerie S. A. Lipstick holder. 2,872,033, 2-3-59, Cl. 206-56.
- Griset, Ernest J., Jr., to E. I. du Pont de Nemours and Co. Method and apparatus for crimping yarn. 2,874,443, 2-24-59, Cl. 28-1.
- Griset, Ernest J., Jr., to E. I. du Pont de Nemours and Co. Production of curly yarn. 2,874,444, 2-24-59, Cl. 28-1.
- Griset, Ernest J., Jr., to E. I. du Pont de Nemours and Co. Bulking yarn. 2,874,445, 2-24-59, Cl. 28-1.
- Griset, Ernest J., Jr., to American Enka Corp. Spin bath arrangement. 2,881,473, 4-14-59, Cl. 18-8.
- Griset, Ernest J., Jr., to American Enka Corp. Continuous spinning method. 2,881,906, 4-14-59, Cl. 203-1.
- Griset, Ernest J., Jr., to American Enka Corp. Spinning tube. 2,899,265, 8-11-59, Cl. 8-151.2.
- Grisham, Simon, to William Gluckin & Co., Inc. Double bodied girdle. 2,888,018, 5-26-59, Cl. 128-546.
- Grishin, Peter F., Z. Szaloki, and E. E. H. Zimmermann, Jr., to Whiting Machine Works. Spinning ring. 2,889,679, 6-9-59, Cl. 57-119.
- Griss, Charles H.: See—  
McAuley, James W., Griss, and McCown. 2,883,310.
- Griss, Charles H., and N. V. Huber, to Libbey-Owens-Ford Glass Co. Apparatus for optical inspection of glass sheets. 2,889,737, 6-9-59, Cl. 88-14.
- Grissett, Andrew F. Combination tree girdler and punch. 2,870,572, 1-27-59, Cl. 47-1.
- Griswold, Charles J., Jr., to General Motors Corp. Guide roller. 2,912,288, 11-10-59, Cl. 308-6.
- Griswold Co.: See—  
Griswold, Roger W. 2,885,160.  
Griswold, Roger W. 2,885,162.
- Griswold, David E., to D. G. Griswold. Fueling and defueling system. 2,868,226, 1-13-59, Cl. 137-561.
- Griswold, David E. Fixed interval time-controlled fluid distribution system. 2,875,428, 2-24-59, Cl. 299-25.
- Griswold, David E., to D. G. Griswold. Batch feed apparatus. 2,878,969, 3-24-59, Cl. 222-133.
- Griswold, David E., to D. G. Griswold. Flow rate controller. 2,888,032, 5-26-59, Cl. 137-486.
- Griswold, David E., to D. G. Griswold. Flow control valve. 2,912,997, 11-17-59, Cl. 137-456.
- Griswold, Donald G.: See—  
Griswold, David E. 2,886,226.  
Griswold, David E. 2,878,969.  
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- Griswold, Elizabeth M.: See—  
Griswold, Roger W., II. 2,885,160.  
Griswold, Roger W., II. 2,885,162.
- Griswold Engineering Ltd.: See—  
James, Robert C. 2,888,792.
- Griswold, Frederick D.: See—  
Dasse, Lester F., and Griswold. 2,916,105.
- Griswold, Hector W.: See—  
Drellich, Arthur H., and Griswold. 2,880,111.  
Harmon, Carlyle, Griswold, and Smith. 2,909,491.
- Griswold, Roger W., II, to E. M. Griswold, d.b.a. Griswold Co. Circulatory jet airfoils. 2,885,160, 5-5-59, Cl. 244-40.
- Griswold, Roger W., II, to E. M. Griswold, d.b.a. Griswold Co. Integrated jet-wing. 2,885,162, 5-5-59, Cl. 244-42.
- Grob, Benjamin. Groove rolling machine. 2,905,033, 9-22-59, Cl. 80-16.
- Grob & Co. Akt.: See—  
Graf, Martin. 2,897,844.
- Grob, Cyril, to Ciba Pharmaceutical Products, Inc. Phenylquinuclidine compounds. 2,917,515, 12-15-59, Cl. 260-293.
- Grob, Cyril A., to Ciba Pharmaceutical Products Inc. New quinuclidine derivatives. 2,868,792, 1-13-59, Cl. 260-293.
- Grob, Cyril A., to Ciba Pharmaceutical Products Inc. New quinuclidines. 2,901,486, 8-25-59, Cl. 260-293.
- Grob, Cyril A., and O. Schindler, to Tadeus Reichstein. Reduction of alkylenedioxy - alkyl - methyl - hydrophenanthrenes. 2,880,212, 3-31-59, Cl. 260-340.9.
- Grob, Karl: See—  
Herbert, Wilhelm, Grob, and Eisenhorr. 2,888,491.
- Grobecker, Hugo H.: See—  
Cleaver, John C., Grobecker, and Wiegartz. 2,890,737.  
Loebel, Frederick A., and Grobecker. 2,899,980.
- Grobecker, Hugo H., to Cleaver-Brooks Co. Chamfering tool. 2,899,851, 8-18-59, Cl. 77-66.
- Grobel, Lloyd P.: See—  
Hargrove, Frank L., and Grobel. 2,879,092.
- Gröber, Christian, to Pleuger K.G. Electro-magnetic device for pumping liquids. 2,898,860, 8-11-59, Cl. 103-53.
- Grober, Johann C.: See—  
Pleuger, Friedrich W., and Grober. 2,869,474.
- Grobert, Horace: See—  
Odegaard, John C., and Grobert. 2,872,714.
- Grobl, Jon E., and G. Zickler, to Friden, Inc. Ten key adding machine clearing mechanism. 2,883,103, 4-21-59, Cl. 235-60.
- Grobman, William: See—  
Moser, Henry W., and Grobman. 2,887,050.
- Grobman, William, to Samuel M. Langston Co. Hydraulically loaded feed rolls for corrugated paper stock. 2,873,968, 2-17-59, Cl. 271-51.
- Grochen, Charles M., to Tonka Toys, Inc. Toy vehicle cab construction. 2,916,851, 12-15-59, Cl. 46-221.
- Grocock, Ralph A.: See—  
Smith, John E., Charlton, and Grocock. 2,911,817.
- Grodsky, Arthur, now by change of name Aaron Grodsky, 50% to H. C. Angstreich. Rotatable leg hinge and cover for table. 2,875,008, 2-24-59, Cl. 311-114.
- Groebe, John L.: See—  
Flavin, Thomas C., and Groebe. 2,890,251.
- Groendijk, Hendrik: See—  
Van Doorn, Adriaan G., Groendijk, and Jonker. 2,890,376.  
Van Overbeek, Adrianus J. W. M., and Groendijk. 2,916,662.
- Groendijk, Hendrik, to North American Philips Co., Inc. Magnetron-type beam switching tube. 2,878,420, 3-17-59, Cl. 315-84.6.
- Groenema, Jan J. Improvements in tyure blocks for underfeed stokers. 2,918,025, 12-22-59, Cl. 110-44.
- Groenendyke, Goethe M., to Socony Mobil Oil Co., Inc. Time variable filter. 2,867,775, 1-6-59, Cl. 333-17.
- Groenendyke, Goethe M., to Socony Mobil Oil Co., Inc. System for visual display of transients. 2,912,673, 11-10-59, Cl. 340-15.
- Groenhuis, Harm, to North American Philips Co., Inc. Packing tube. 2,868,437, 1-13-59, Cl. 229-90.
- Groeth, Donald J., to Standard Oil Co. Lubricant composition. 2,916,447, 12-8-59, Cl. 252-32.7.
- Groff, Gaylord L.: See—  
Bond, Herbert M., and Groff. 2,882,183.
- Grogan, Charles H.: See—  
Rice, Leonard M., and Grogan. 2,904,548.
- Grogan, Edward C., to Minneapolis-Honeywell Regulator Co. Air-pressure-operated proportional band adjustment. 2,889,941, 6-2-59, Cl. 137-86.
- Grogan, Edward C., to Minneapolis-Honeywell Regulator Co. Air-pressure-actuated, cyclically operating controller. 2,914,077, 11-24-59, Cl. 137-86.
- Grogan, Edward C., and D. W. Pessen, to Minneapolis-Honeywell Regulator Co. Pneumatic high pass filter. 2,878,825, 3-24-59, Cl. 137-82.
- Grogan, John D.: See—  
Allen, Norman P., and Grogan. 2,886,430.
- Grohgan, Hermann, to Zellwolle Lenzing Akt. Recovery of viscose from viscose waste. 2,886,563, 5-12-59, Cl. 260-218.
- Grohmann, Walter: See—  
Simon, Franz, and Grohmann. 2,877,307.
- Grohmann, Walter, and W. Kurz, to Siemens & Halske Aktiengesellschaft. Automatic P.B.X. system providing different classes of service. 2,903,519, 9-8-59, Cl. 179-18.
- Grohs, Wilhelm N.: See—  
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Kern, Rudolf, Grohs, and Blumel. 2,891,017.
- Groll, Alvin F. Tilttable cradle. 2,877,961, 3-17-59, Cl. 242-78.7.
- Groll, Alvin F. Guide rail adjusting mechanism. 2,914,204, 11-24-59, Cl. 214-501.
- Groll, Kenneth R.: See—  
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- Groll, Manfred: See—  
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- Groll, Thomas F., Jr.: See—  
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- Gronau, Hans, to Victoria Machine Tool Co. Ltd. Slotting mechanism. 2,905,063, 9-22-59, Cl. 90-43.
- Grönberg, Anton B. Device for simultaneously cutting and crushing straw. 2,892,478, 6-30-59, Cl. 146-123.
- Grondo, Leo: See—  
Stephenson, Carl R. 2,894,480.



- Grondona, John L. Body assist for toilet seat. 2,903,714, 9-15-59, Cl. 4—254.
- Gronemeier, Heinz, to E. Hoogland, zuschneidemaschinen-fabrik. Grinding device for cloth cutting machines and the like. 2,911,772, 11-10-59, Cl. 51—250.
- Gronemeyer, Erich W., to Container Corp. of America, Container construction. 2,876,926, 3-10-59, Cl. 220—39.
- Groner, Theron A.: *See—*
- Kranz, Carl L., and Groner. 2,899,325.
- Gronewold, Arthur E.: *See—*
- Faber, Aloisius W., and Gronewold. 2,874,507.
- Groombridge, Denis W.: *See—*
- Hawtin, Selwyn G., and Groombridge. 2,889,034.
- Groombridge, Denis W., S. G. Hawtin, and J. Downing, to British Celanese Ltd. Manufacture of voluminous yarns. 2,904,953, 9-22-59, Cl. 57—157.
- Groot, Cornelis. Process and apparatus for producing molded articles. 2,878,727, 3-24-59, Cl. 92—54.
- Groot, Theodorius C., J. C. Janssen, J. D. Stephenson, and F. G. Blackler, to North American Philips Co., Inc. Method of manufacturing cathode ray tubes, more particularly television picture tubes. 2,907,619, 10-6-59, Cl. 316—21.
- Grootenhuys, Pieter: *See—*
- Hughes, Edward M., Howland, and Grootenhuys. 2,870,231.
- Groothuis, Hendrik: *See—*
- Auer, Willem U., Groothuis, Hendal, and Vink. 2,894,371.
- Groov-Pin Corp.: *See—*
- Bosse, Robert W. 2,913,933.
- Gropp, Karl H., to Ford Motor Co. Valve gear. 2,908,262, 10-13-59, Cl. 123—90.
- Grose, Ansel B. Variable restrictor for gas flow. 2,877,802, 3-17-59, Cl. 138—41.
- Groscholz, James R., to Air-Shields, Inc. Rocking bed mechanism. 2,872,917, 2-10-59, Cl. 128—28.
- Groscholz, James R., to Air-Shields, Inc. Atomizer construction. 2,878,067, 3-17-59, Cl. 299—142.
- Groscholz, James R., to Air-Shields, Inc. Occupant retention equipment for rocking bed. 2,883,981, 4-28-59, Cl. 128—28.
- Groscholz, Richard. Drafting implements. 2,896,325, 7-28-59, Cl. 33—27.
- Grosjean, Johan A., to North American Philips Co., Inc. System comprising a plurality of pulse radar apparatus. 2,881,421, 4-7-59, Cl. 343—5.
- Grosjean, William C.: *See—*
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- Grosmaire, Leon A., to The Quaker Oats Co. Stabilization of tetrahydrofurfuryl alcohol. 2,904,559, 9-15-59, Cl. 260—347.8.
- Gross, Arthur R. Power transmission mechanism having a reciprocating element selectively operative in spaced operating zones. 2,908,172, 10-13-59, Cl. 74—40.
- Gross, Daniel: *See—*
- Schwartz, Samuel M., and Gross. 2,881,087.
- Gross, Florence A. Egg carton. 2,900,119, 8-18-59, Cl. 229—2.5.
- Gross, Frank C., to Package Machinery Co. Adhesive applying device. 2,911,942, 11-10-59, Cl. 118—202.
- Gross, Frank J. Safety butt hinge. 2,883,699, 4-28-59, Cl. 16—163.
- Gross, Frank R. Heat-transfer apparatus. 2,915,292, 12-1-59, Cl. 257—95.
- Gross, Hans-Werner: *See—*
- Herbert, Wilhelm, Bratzler, Dorschner, Eisenlohr, and Gross. 2,901,423.
- Gross, Henry and S. Cash registers. 2,875,686, 3-3-59, Cl. 101—96.
- Gross, Herbert M., to Commercial Solvents Corp. Production of non-turbid bacitracin solutions. 2,889,251, 6-2-59, Cl. 167—65.
- Gross, Herbert M., and R. A. Shurter, Jr., to Commercial Solvents Corp. Wax-coated penicillin product. 2,902,407, 9-1-59, Cl. 167—82.
- Gross, Horst E.: *See—*
- Engelhardt, Werner H., and Gross. 2,875,608.
- Gross, Irving A., to Cleveland Metal Specialties Co. Bracket means for joining printed circuit panels. 2,875,264, 2-24-59, Cl. 174—88.
- Gross, James R.: *See—*
- Abkowit, Stanley, Moorhead, and Gross. 2,884,323.
- Gross, John H., to International Minerals & Chemicals Corp. Method of recovering thoria. 2,915,363, 12-1-59, Cl. 23—14.5.
- Gross, Julian E., to United States of America, Atomic Energy Commission. Variable time-interval generator. 2,886,775, 5-12-59, Cl. 324—68.
- Gross, Karl W., to VEB Leuna-Werke "Walter Ulbricht." Process of enhancing the operating efficiency of a multi-oven ammonia-synthesizing system. 2,919,176, 12-29-59, Cl. 23—198.
- Gross, Kenneth W.: *See—*
- Rosenfeld, Azriel, Gross, and Gala. 2,910,910.
- Gross, Robert, to Hudson Optical Corp. Spectacle frame construction. 2,887,008, 5-19-59, Cl. 88—41.
- Gross, Samuel: *See—*
- Gross, Henry and S. 2,875,686.
- Gross, Theodore J., to Union Bag-Camp Paper Corp. Device for simultaneously cutting the corners of a box to provide closure flaps. 2,915,932, 12-8-59, Cl. 83—440.
- Gross, Thomas A. O., and J. A. Sheehan, to Raytheon Co. Dual channel noise coherence reducers. 2,914,762, 11-24-59, Cl. 343—5.
- Gross, Wayne M.: *See—*
- Reid, Robert J., and Gross. 2,916,537.
- Gross, Willard A.: *See—*
- Kester, Dwayne A., and Gross. 2,908,808.
- Gross, William J., and E. A. Chudkowski. Dressing. 2,898,910, 8-11-59, Cl. 128—156.
- Grossberg, Arnold L., to California Research Corp. Method for recovering asphaltic products from mixtures thereof with water. 2,879,222, 3-24-59, Cl. 208—85.
- Grosse, Kenneth E.: *See—*
- Batina, Jerome R., and Grosse. 2,885,563.
- Grosse, Willy, to Firma Olympia Werke A.G. Apparatus for feeding and guiding ribbons in typing and printing machines. 2,906,203, 9-29-59, Cl. 101—336.
- Grosselinger, Frederick B.: *See—*
- Garbo, Paul W., and Grosselinger. 2,906,696.
- Grossen, Harry W.: *See—*
- Coolidge, John E., Jr., and Grossen. 2,900,042.
- Kraft, George H., Grossen, and Bell. 2,869,868.
- Grosser, Hermann K. M., and P. Harkema, to North American Philips Co., Inc. System for guarding the transmission of messages. 2,912,484, 11-10-59, Cl. 178—4.1.
- Grossi, Frank X.: *See—*
- Bauwin, George R., and Grossi. 2,893,166.
- Grosskinsky, Otto, A. Adelsberger, and W. Klempt. Purification of coal distillation gases. 2,884,304, 4-28-59, Cl. 23—3.
- Grosskinsky, Otto, B. Juttner, W. Klempt, and W. Thurauf. Method of processing mixtures of carboxylic acids. 2,879,288, 3-24-59, Cl. 260—475.
- Grosskinsky, Otto, and H. Umbach. Method of producing ammonium sulfate and ammonium thiosulfate. 2,898,190, 8-4-59, Cl. 23—115.
- Grosskopf, Karl, to O. H. Drager. Method of determining carbon dioxide in gases. 2,880,072, 3-31-59, Cl. 23—232.
- Grosskopf, Karl, to O. H. Drager. Gas detecting device. 2,908,555, 10-13-59, Cl. 23—254.
- Grosskortenhaus, Fred. Openable suspended ceilings. 2,890,583, 6-16-59, Cl. 72—118.
- Grossman, Abraham, Curtain wall construction. 2,885,040, 5-5-59, Cl. 189—72.
- Grossman, Evelyn. Heel protector. 2,875,534, 3-3-59, Cl. 36—72.
- Grossman, Harry C. Hydraulic valve lifter tool. 2,882,591, 4-21-59, Cl. 29—213.
- Grossman, Jack J., to The Ralph M. Parsons Co. Telemetry system. 2,917,728, 12-15-59, Cl. 340—203.
- Grossman, Morris: *See—*
- Tandler, William S., and Grossman. 2,892,257.
- Grossman, Murray. Trash or garbage can guard. 2,904,210, 9-15-59, Cl. 220—12.
- Grossman, Paul R., to The Babcock & Wilcox Co. Gas recirculation method for controlling superheat in a slag tap vapor generating and superheating unit and apparatus therefor. 2,905,155, 9-22-59, Cl. 122—478.
- Grossman, Rose: *See—*
- Friedman, Philip, G. J., I., and Orenstein. 2,873,990.
- Grossnickle, Myron D.: *See—*
- Piotrowski, Lottie J., Rienks, and Grossnickle. 2,871,159.
- Grossowicz, Nathan, and S. Ratner, to Ciba Pharmaceutical Products Inc. Metal salts of formo-sulfathiazole. 2,904,547, 9-15-59, Cl. 260—239.65.
- Grosz, Emil, to The Elgro Machine Tool Co. Ltd. Power brushing machines. 2,870,467, 1-27-59, Cl. 15—21.
- Groszos, Stephen J.: *See—*
- Hoffmann, Arthur K., and Groszos. 2,882,317.
- Groszos, Stephen J., to American Cyanamid Co. Method of preparing B-hydrocarbon-substituted boron compounds. 2,884,441, 4-28-59, Cl. 260—462.
- Groszos, Stephen J., to American Cyanamid Co. Preparation of compounds containing silicon and boron. 2,915,543, 12-1-59, Cl. 260—448.2.
- Groszos, Stephen J., and J. A. Hall, to American Cyanamid Co. Method of preparing polymers of monomeric cyclo-trisilazanes. 2,885,370, 5-5-59, Cl. 260—2.
- Groszos, Stephen J., and S. F. Stafiej, to American Cyanamid Co. Method of producing compounds of boron and nitrogen. 2,892,869, 6-30-59, Cl. 260—551.
- Grote, Hugo. Clutch with frictionally held lining. 2,907,430, 10-6-59, Cl. 192—66.
- Grotelueschen, Oliver H., W. D. Henry, and A. R. Brinkruff, to Essex Wire Corp. Electromagnetic relay. 2,868,925, 1-13-59, Cl. 200—104.
- Grotewohl, Albert: *See—*
- Kales, Josef, and Grotewohl. 2,893,724.
- Grotewold, Hans W.: *See—*
- Belk, Wilber C., and Grotewold. 2,883,078.
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- Groth, Mogens. Nozzle mechanisms for spraying of semi-solids. 2,872,245, 2-3-59, Cl. 299—62.
- Grotne Machine Works, Inc.: *See—*
- Stearns, Charles M., Jr., and Van Leer. 2,905,082.
- Grottrup, Helmut, to International Standard Electric Corp. Mechanical device for the reading and storing of the working positions of a moving machine element. 2,890,301, 6-9-59, Cl. 200—46.
- Grouse, Richard A.: *See—*
- Robinson, Frederick C., and Grouse. 2,919,390.



- Grout, Russell A.: *See*—  
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- Grovat, Inc.: *See*—  
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- Grove, George L.: *See*—  
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- Grove, George L., to The Cincinnati Milling Machine Co. Incremental feed mechanism. 2,882,649, 4-21-59, Cl. 51-103.
- Grove, John L. Mobile hydraulic crane. 2,911,111, 11-3-59, Cl. 212-55.
- Grove Research and Development Co., The: *See*—  
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- Grove Silk Co.: *See*—  
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Stuewer, Reinhold F., and Pitman. 2,897,576.
- Grove, William G. Vehicle tie. 2,882,950, 4-21-59, Cl. 152-302.
- Grovemiller, Dale A., and J. Kastelic, to General Electric Co. Printed circuit lamp base. 2,892,992, 6-30-59, Cl. 339-145.
- Grover, Charles F., and P. E. Stoyer, to R. D. Werner Co. Inc. High clearance scaffold. 2,917,129, 12-15-59, Cl. 182-152.
- Grover, Donald P., to United States of America, Army. Retractable firing pin. 2,868,081, 1-13-59, Cl. 89-135.
- Grover, Frank S., and T. F. Lavery, to The Firestone Tire & Rubber Co. Apparatus for testing natural and synthetic rubbers at high temperatures. 2,904,993, 9-22-59, Cl. 73-15.6.
- Grover, L. Chace: *See*—  
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- Grover, Martin M.: *See*—  
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- Grover, Raymond B. Speed change device. 2,893,254, 7-7-59, Cl. 74-230.17.
- Grover, Richard D.: *See*—  
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- Grover, Victor T., to American Can Co. Collar orienting apparatus. 2,915,166, 12-1-59, Cl. 198-33.
- Groves, Ermy W.,  $\frac{1}{2}$  to W. Tom. Power driven hair clipper. 2,867,902, 1-13-59, Cl. 30-200.
- Groves, Harold W. Arrow runout tester and straightener. 2,876,822, 3-10-59, Cl. 153-39.
- Groves, Howard T. Step ladder. 2,868,426, 1-13-59, Cl. 228-31.
- Groves, Jack W. Vending machine. 2,906,385, 9-29-59, Cl. 194-10.
- Groves, James D.: *See*—  
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- Groves, James H., and D. J. Lenane, to American Can Co. Method of dispersing rubbery polymers in aqueous media. 2,880,184, 3-31-59, Cl. 260-3.
- Groves, James R. Vacuum ejector for dental debris. 2,885,782, 5-12-59, Cl. 32-33.
- Groves, John N., and D. G. Portman, to Westinghouse Electric Corp. Enclosed circuit breaker. 2,917,593, 12-15-59, Cl. 200-50.
- Groves, Kenneth D., to American Viscose Corp. Drilling fluids and method of preventing loss thereof from well holes. 2,912,380, 11-10-59, Cl. 252-8.5.
- Groves, Ronald C., to General Motors Corp. Charge forming means for an internal combustion engine. 2,869,527, 1-20-59, Cl. 123-119.
- Groves, Ronald C., to General Motors Corp. Fuel injection system. 2,891,531, 6-23-59, Cl. 123-140.
- Groves, Ronald C., to General Motors Corp. Fuel injection system. 2,895,461, 7-21-59, Cl. 123-119.
- Groves, Ronald C., to General Motors Corp. Fuel injection system. 2,899,948, 8-18-59, Cl. 123-119.
- Groves, Ronald C., to General Motors Corp. Charge forming means. 2,902,989, 9-8-59, Cl. 123-140.
- Grow, Clyde W.: *See*—  
Downey, Curtis L., Chartrey, Ferguson, and Grow. 2,885,667.
- Grow, Harlow B. Cigarette construction. 2,890,703, 6-16-59, Cl. 131-10.
- Growers Container Corp.: *See*—  
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- Grozinger, Hans R., to Daimler-Benz Akt. Starting mechanism. 2,889,820, 6-9-59, Cl. 123-124.
- Grubb, Henry M.: *See*—  
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- Grubb, Sir Howard, Parsons & Co., Ltd.: *See*—  
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- Grubb, Willard T., Jr.: *See*—  
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- Grubb, Willard T., Jr., to General Electric Co. Fuel cell. 2,913,511, 11-17-59, Cl. 136-86.
- Grubbs, Emmett L. Adjustable curtain, blind and drape holder. 2,870,918, 1-27-59, Cl. 211-105.2.
- Grube, Arthur W.: *See*—  
Einbinder, Milton, and Grube. 2,883,759.
- Grube, Frank N., K. W. Greene, Jr., and G. R. Grube. Sod-cutting device. 2,897,901, 8-4-59, Cl. 172-20.
- Grube, Gary R.: *See*—  
Grube, Frank N., Greene, and Grube. 2,897,901.
- Grube, Karl P., to All-Steel Equipment Inc. Desk top construction. 2,911,274, 11-3-59, Cl. 311-106.
- Grube, Wolfgang O., T. S. Shultz, and G. O. Walter, to Mergenthaler Linotype Co. Lenslet assembly for photocomposing machines. 2,917,980, 12-22-59, Cl. 95-4.5.
- Grubel, Edward P., W. J. Milinchuk, and A. R. Schettel, to Olin Mathieson Chemical Corp. Container. 2,915,640, 12-1-59, Cl. 250-108.
- Gruber, Alfred A.: *See*—  
Cyphers, Alexander D., Jr., and Gruber. 2,870,203.
- Gruber, Arnold H.: *See*—  
Bikales, Norbert M., Gruber, and Rapoport. 2,907,625.
- Gruber, Arnold H., to American Cyanamid Co. Antistatic treatment with a quaternary ammonium compound containing a polyethenexy grouping and products thereof. 2,897,170, 7-28-59, Cl. 260-32.6.
- Gruber, David, and W. D. Winkler, said Winkler assignor to said Gruber. Telephone clock. 2,895,549, 7-21-59, Cl. 161-19.
- Gruber, Helmut, and H. Scheidig, to W. C. Heraeus, G.m.b.H. Arc melting. 2,889,386, 6-2-59, Cl. 13-13.
- Gruber, Helmut, and H. Scheidig, to W. C. Heraeus, G.m.b.H. Vacuum arc furnace. 2,916,536, 12-8-59, Cl. 13-31.
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- Gruber, Joseph J., and J. J. De Falco, to Fenestra, Inc. Sound absorbing structure. 2,897,551, 8-4-59, Cl. 20-4.
- Gruber, Morris, and G. Rosenthal, to Eastern Precision Resistor Corp. Variable resistors with infinite resolution. 2,899,661, 8-11-59, Cl. 338-144.
- Gruber, Warren M., to Tinius Olsen Testing Machine Co. Balancing equipment. 2,909,948, 10-27-59, Cl. 77-5.
- Grubisa, John A.: *See*—  
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- Grubish, Stephen A. Metal cutting and welding machine. 2,910,289, 10-27-59, Cl. 266-23.
- Grucek, Hermann H.: *See*—  
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- Grudden, Frank, Jr. Brush attachment. 2,900,657, 8-25-59, Cl. 15-248.
- Gruen, Dieter M., to United States of America, Atomic Energy Commission. Separation of metal salts by adsorption. 2,869,983, 1-20-59, Cl. 23-14.5.
- Gruenberg, Howard: *See*—  
Peter, Conrad W. 2,880,761.
- Gruenberg, Ivor J. Means facilitating recovering of articles lost in water. 2,892,198, 6-30-59, Cl. 9-9.
- Gruenberg, Rudolph A., to Westinghouse Electric Corp. Readily replaceable mold tooling. 2,881,478, 4-14-59, Cl. 18-42.
- Gruender, Oscar C., to Nordberg Mfg. Co. Feeding means for gyratory crushers. 2,917,247, 12-15-59, Cl. 241-202.
- Gruenebaum, Heinz, and P. Masciantonio, to Pittsburgh Coke & Chemical Co. Dibenzanthracene vat dyestuffs. 2,882,280, 4-14-59, Cl. 260-355.
- Gruenhagen, Richard H., and L. L. Fritts, to The Dow Chemical Co. Fungicidal compositions comprising 6-alkyl-3-cyclohexyl-3,4-dihydro-2H-1,3-benzoxazines and method of use. 2,897,113, 7-28-59, Cl. 167-33.
- Gruenwald, Oskar. Toothbrush. 2,883,691, 4-28-59, Cl. 15-167.
- Gruer, William E. Spring plunger. 2,901,237, 8-25-59, Cl. 267-1.
- Gruettner, Gerhard G., D. R. Church, and M. Kenny, to Hermes Sonic Corp. Machine for cleaning small parts. 2,910,390, 10-27-59, Cl. 134-1.
- Gruget, André, J. Cousteau, and E. Gagnan, to La Spirotechnique. Breathing apparatus. 2,918,061, 12-22-59, Cl. 128-142.
- Gruitch, Jerry M.: *See*—  
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- Grulke, Carl A., and R. P. Fox, to Union Carbide Corp. Primary battery and method of controlling the initial voltage range thereof. 2,878,187, 3-24-59, Cl. 136-138.
- Grulke, Carl A., and R. P. Fox, to Union Carbide Corp. Primary battery with controllable cathode potential. 2,880,123, 3-31-59, Cl. 136-138.
- Grum, Florence: *See*—  
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- Grum, Matthew W.: *See*—  
Albert, Edward J. 2,870,471.
- Grummitt, Oliver J., and J. A. Stearns, to The Sherwin-Williams Co. Alpha, gamma diketones in combination with metallo-organic driers as drying accelerators for siccative coatings. 2,894,849, 7-14-59, Cl. 106-310.
- Grunberg, Jacques F., to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des procedes Georges Claude. Process of separation of air into its elements. 2,918,802, 12-29-59, Cl. 62-25.
- Grund, Carl C. Massage apparatus. 2,912,976, 11-17-59, Cl. 128-62.
- Grunder, Maynard S. Implement for renovating, conditioning and cultivating growing grass. 2,902,098, 9-1-59, Cl. 172-96.
- Grundig, Max: *See*—  
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- Grundmann, Christoph J.: *See*—  
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Rätz, Rudi F. W., and Grundmann. 2,876,248.  
Schroeder, Hansjuergen, and Grundmann. 2,876,221.  
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- Grundmann, Christoph J., and E. Kober, to Olin Mathieson Chemical Corp. Methyl triazines. 2,867,621, 1-6-59, Cl. 260—249.9.
- Grundmann, Christoph J., and A. Kreutzberger, to Olin Mathieson Chemical Corp. Process. 2,872,485, 2-3-59, Cl. 260—564.
- Grundmann, Christoph J., and A. Kreutzberger, to Olin Mathieson Chemical Corp. Polymers of 4,6-bis-trichloromethyl 1,3,5-triazine. 2,884,383, 4-28-59, Cl. 260—2.
- Grundmann, Christoph J., and A. Kreutzberger, to Olin Mathieson Chemical Corp. Method for preparing formazyl compounds from arylhydrazines and 1,3,5-triazines. 2,914,523, 11-24-59, Cl. 260—193.
- Grundmann, Gustave L.: *See*—
- Cooperman, Michael, and Grundmann. 2,899,492.
- Sonnenfeldt, Richard W., Grundmann, and Cooperman. 2,899,491.
- Grundmark, Bengt: *See*—
- Böckman, Marius, and Grundmark. 2,878,428.
- Grundy, Edward K., deceased, by M. L. and J. M. Grundy, executors. Ceilings, walls, partitions, doors, and like structures. 2,891,638, 6-23-59, Cl. 189—34.
- Grundy, James M.: *See*—
- Grundy, Edward K. 2,891,638.
- Grundy, May L.: *See*—
- Grundy, Edward K. 2,891,638.
- Grundy, Richard: *See*—
- Taylor, Robert C., and Grundy. 2,915,810.
- Gruppen, James L. Variable volume vane pump. 2,880,677, 4-7-59, Cl. 103—120.
- Grupp, Edward L. Window shade roller construction. 2,891,614, 6-23-59, Cl. 160—301.
- Gruse, William A.: *See*—
- Capell, Robert G., Wright, and Gruse. 2,897,065.
- Gruss, George A.: *See*—
- Thomas, Leon E., Jr., Gruss, and Huley. 2,900,462.
- Grussen, Jean. Apparatus for forming plastic closures on receptacles. 2,874,413, 2-24-59, Cl. 18—42.
- Grüssner, André, J. Hellerbach, and O. Schneider, to Hoffmann-La Roche Inc. Process for making morphinan derivatives and products obtainable thereby. 2,885,401, 5-5-59, Cl. 260—285.
- Gruver, John H., to Addressograph-Multigraph Corp. Card ejector for card-controlled printing machines. 2,889,984, 6-9-59, Cl. 235—61.11.
- Gruver, Walter E., Jr.: *See*—
- Moore, William H., and Gruver. 2,883,723.
- Grycko, Walter. Anti-skid chain mounting devices for tires. 2,913,940, 11-24-59, Cl. 81—15.8.
- Gryder, William L., and G. L. Haugen, to Bendix Aviation Corp. Auxiliary control means for pulse producing circuit. 2,867,200, 1-6-59, Cl. 123—179.
- Gryniewicz, Julius, to The Imperial Brass Mfg. Co. Manual tube bender. 2,908,193, 10-13-59, Cl. 81—15.
- Gryskiewicz, Walter F.: *See*—
- Bonvini, Robert C., and Gryskiewicz. 2,869,763.
- Grzywacz, Walter. Mechanical device for drawing a hyperbolic curve. 2,881,522, 4-14-59, Cl. 33—27.
- Gschaiden, Wilhelm, to Siemens-Reiniger-Werke Akt. Device for collimation of a ray beam. 2,904,692, 9-15-59, Cl. 250—105.
- Gschwend, Charles-Louis, to Alfred Jeanrenaud. Noiseless lock. 2,899,227, 8-11-59, Cl. 292—163.
- Gschwend, Felix B.: *See*—
- Marander, Myron P., Gschwend, and Smith. 2,869,722.
- Gualano, Emil V. Mechanics test mitt for internal combustion engines. 2,882,531, 4-21-59, Cl. 2—161.
- Guanella, Gustav, to Radio Patents Co. Multiple decoupled antennae connected to radio by different length feeder for impedance mismatch reduction. 2,876,448, 3-3-59, Cl. 343—853.
- Guaraldi, Leonard A., to Bond Research Laboratories, Inc. Rotating disk-valve fluid pulsating apparatus. 2,879,797, 3-31-59, Cl. 137—624.
- Guarantee Specialty Mfg. Co. The: *See*—
- Urbas, Ernest J. 2,887,899.
- Guard, Ray W., and P. J. Clemm, to General Electric Co. High strength alloy. 2,905,553, 9-22-59, Cl. 75—124.
- Guardian Electric Mfg. Co.: *See*—
- Baker, Edward G., Obszarny, and Schmidt. 2,882,367.
- Guardian Light Co.: *See*—
- Akely, William S., and Karlen. 2,897,348.
- Akely, William S., and Kochale. 2,914,657.
- Guardino, John. Combination manicuring implements. 2,890,706, 6-16-59, Cl. 132—75.5.
- Guardino, John. Blade ejecting mechanism for safety razors. 2,898,676, 8-11-59, Cl. 30—60.5.
- Guardiola, Nicolas, to Westinghouse Electric Corp. Field winding for dynamoelectric machine. 2,913,606, 11-17-59, Cl. 310—180.
- Guarino, Louis S., and W. M. Ogden. Helicopter automatic engine speed selector and control. 2,919,384, 12-29-59, Cl. 317—5.
- Guarnieri, Nunzio J. Adjustable wrist watch spring bar. 2,916,791, 12-15-59, Cl. 24—265.
- Gubelman, William S., to Realty and Industrial Corp. Speed-responsive clutch. 2,915,159, 12-1-59, Cl. 192—105.
- Gubernick, Saul. Cable support and retractor. 2,880,992, 4-7-59, Cl. 267—74.
- Gubisch, Erwin A.: *See*—
- Arko, Robert E., Gubisch, and Zenner. 2,892,031.
- Guckel, Gerhart A., to James Dole Engineering Co. Product metering and container filling apparatus. 2,868,241, 1-13-59, Cl. 141—134.
- Guckert, George H.: *See*—
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- Guden, Nicholas W. Invalid's utility holders. 2,911,982, 11-10-59, Cl. 131—175.
- Gudjohnsen, Halldor: *See*—
- Gudjohnsen, Jakob and H. 2,903,813.
- Gudjohnsen, Jakob and H. Fishing implements. 2,903,813, 9-15-59, Cl. 43—9.
- Gudmundsen, Austin, to McCulloch Motors Corp. Saw chain. 2,872,956, 2-10-59, Cl. 143—135.
- Gudmundsen, Austin, to McCulloch Motors Corp. Single rotor lawn mower. 2,887,838, 5-26-59, Cl. 56—25.4.
- Gudmundsen, Austin, to McCulloch Motors Corp. Automatic oiling device for chain saws. 2,896,746, 7-28-59, Cl. 184—15.
- Gudmundsen, Austin, to McCulloch Motors Corp. Saw chain having rear-back control. 2,902,068, 9-1-59, Cl. 143—135.
- Gudmundsen, Austin, to McCulloch Motors Corp. High speed saw chain. 2,905,209, 9-22-59, Cl. 143—135.
- Gudmundsen, Richard A., and J. H. Myer, to Hughes Aircraft Co. Source for vapor deposition. 2,902,574, 9-1-59, Cl. 219—19.
- Guenard, Pierre: *See*—
- Warnecke, Robert, and Guenard. 2,888,595.
- Guenard, Pierre R., and P. C. Palluel, to Compagnie Generale de Telegraphie Sans Fil. Interdigital delay line. 2,889,486, 6-2-59, Cl. 315—3.5.
- Guenthard, Jacques, and A. Peter, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Dyestuff mixtures. 2,894,800, 7-14-59, Cl. 8—25.
- Guenther, Richard, to Bell Telephone Laboratories, Inc. Speech interpolation communication system. 2,870,260, 1-20-59, Cl. 179—15.
- Guenther, Walter J., to Mack Equipment and Machine Co. Tail stock mechanism for engine lathes. 2,882,764, 4-21-59, Cl. 77—60.
- Guentner, Robert L., and E. P. Thomas, to Westinghouse Electric Corp. X-ray apparatus. 2,909,665, 10-20-59, Cl. 250—92.
- Guentner, Robert L., and H. E. Koerner, to Westinghouse Electric Corp. Radiographic apparatus. 2,892,089, 6-23-59, Cl. 250—66.
- Guentner, Robert L., and R. K. Jenny, to Westinghouse Electric Corp. X-ray apparatus. 2,883,545, 4-21-59, Cl. 250—66.
- Guenzi, Eraldo, to Compagnie de Pont-a-Mousson. Annealing furnace. 2,872,175, 2-3-59, Cl. 263—8.
- Guerber, Howard P.: *See*—
- Spielberg, Arnold M., Guerber, and Hobbs. 2,907,010.
- Guerber, Howard P., to Radio Corp. of America. Signal staticizer. 2,907,989, 10-6-59, Cl. 340—174.
- Guercio, Peter A.: *See*—
- Ordway, Harold W., and Guercio. 2,876,228.
- Guerin, Jacques C., to Societe des Forges et Ateliers du Creusot. Sealing of a rotary machine. 2,898,132, 8-4-59, Cl. 286—7.
- Guerne, William, to Prevets Aero-Mecaniques S. A. Impact fuzes for explosive projectiles including a mechanical self-destruction device. 2,871,788, 2-3-59, Cl. 102—71.
- Guerra, Joseph, and A. Zement. Guide for electric clippers. 2,896,323, 7-28-59, Cl. 30—201.
- Guerrant, Edmonds L. Automatic nailing machine. 2,881,437, 4-14-59, Cl. 1—1.
- Guerrant, Edmonds L. Track suspension for sliding doors. 2,893,049, 7-7-59, Cl. 16—94.
- Guerreiro, Antonio M.: *See*—
- Graves, Loinel R., Knapp, Guerreiro, Cable, and Wheeler. 2,871,756.
- Guerrero, Benjamin G. Telephone bracket elements. 2,878,324, 3-17-59, Cl. 179—146.
- Guertler, Peter: *See*—
- Sulzer, George, Guertler, Fatzer, and Maeder. 2,888,420.
- Sulzer, Georg, Guertler, Fatzer, and Maeder. 2,898,239.
- Guess, Joseph R. Intermittent feed mechanism. 2,904,167, 9-15-59, Cl. 203—135.
- Guest, Claude E., deceased; M. E. Guest, executrix,  $\frac{1}{2}$  to M. E. Guest, and  $\frac{1}{2}$  to J. A. Enzenbacher. Thread-cutting machines. 2,896,510, 7-28-59, Cl. 90—11.56.
- Guest, Dorothy J.: *See*—
- Coffey, David H., and Guest. 2,898,318.
- Guest, Freeman M. Elliptical steering wheel. 2,909,941, 10-27-59, Cl. 74—552.
- Guest, Howard R.: *See*—
- Stansbury, Harry A., Jr., and Guest. 2,875,249.
- Guest, Howard R., and H. A. Stansbury, Jr., to Union Carbide Corp. Halogenated diepoxide compounds. 2,874,167, 2-17-59, Cl. 260—348.
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- Guest, Howard R., and H. A. Stansbury, Jr., to Union Carbide Corp. Esters of 2,3-dichlorodiol and process for their production. 2,889,359, 6-2-59, Cl. 260—488.
- Guest, Howard R., and B. W. Kiff, to Union Carbide Corp. Process for the production of 2-paradoxanone. 2,900,395, 8-18-59, Cl. 260—340.2.



- Guest, Howard R., and H. A. Stansbury, Jr., to Union Carbide Corp. 3 (2-cyclopentenyl)-2-methyl-4-oxo-2-cyclopentenyl chrysanthemum insecticide and process of making it. 2,891,888, 6-23-59, Cl. 167-30.
- Guest, Howard R., J. T. Adams, and B. W. Kiff, to Union Carbide Corp. Modified acrolein-pentaerythritol resins. 2,909,506, 10-20-59, Cl. 260-67.
- Guest, Howard R., B. W. Kiff, and H. A. Stansbury, Jr., to Union Carbide Corp. Process for preparing 2,5-dimethyl-2,4-hexadiene. 2,910,520, 10-27-59, Cl. 260-681.
- Guest, Howard R., J. T. Adams, and B. W. Kiff, to Union Carbide Corp. Catalytic process for making stable acrolein-pentaerythritol condensates. 2,913,434, 11-17-59, Cl. 260-67.
- Guest, Howard R., J. T. Adams, and B. W. Kiff, to Union Carbide Corp. Acrolein-pentaerythritol resins and modifier therefor. 2,913,435, 11-17-59, Cl. 260-67.
- Guest, Howard R., J. T. Adams, and B. W. Kiff, to Union Carbide Corp. Copolymers of mononuclear phenols and 3,9-dialkenylspirobi (M-dioxanes). 2,915,501, 12-1-59, Cl. 260-47.
- Guest, Maurice C. Neurological diagnostic instrument. 2,908,268, 10-13-59, Cl. 128-2.
- Guest, Myrtice E.: See—
- Guest, Claude E. 2,896,510.
- Guetti, Lorenzo S., to United Windows Corp. Jalousie windows and doors. 2,893,074, 7-7-59, Cl. 20-62.
- Guevara, Nicholas. Machine having a pivoted former and clamp for forming flattened helical coils. 2,896,688, 7-28-59, Cl. 153-40.
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- Gugeler, Frederick D. Balanced valve. 2,909,189, 10-20-59, Cl. 137-391.
- Guggenheim Brothers (1949 Firm): See—
- Robell, John, Steinberg, and Jones. 2,878,103.
- Guggenheim, Herbert: See—
- Clinton, William P., Guggenheim, Kraut, and Stinchfield. 2,915,403.
- Guggenheim, Herbert, and R. M. Stinchfield, to General Foods Corp. Process for manufacture of soluble coffee. 2,915,399, 12-1-59, Cl. 99-71.
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- Abatemarco, Michael R., Shiro, and Guggenheim. 2,902,663.
- Gottschall, Herbert A., Guggenheim, and Waznys. 2,900,615.
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- Guggi, Walter B., to Radio Corp. of America. Retrace driven deflection circuit for cathode ray tubes. 2,896,115, 7-21-59, Cl. 315-27.
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- Hamilton, John M. 2,916,758.
- Lane, John J. 2,890,513.
- Losey, Thomas B. 2,887,347.
- Guichard, Raymond A. E. Label holder for document filing systems. 2,911,976, 11-10-59, Cl. 129-16.8.
- Guidi, Albert J.: See—
- De Berry, Charles H., and Guidi. 2,899,887.
- Guido, George A. Life chain retractor. 2,878,981, 3-24-59, Cl. 227-49.
- Guier, William, and R. H. Detrickson, to The National Supply Co. Pulsation damper. 2,905,200, 9-22-59, Cl. 138-26.
- Guilbault, Lucien, to The Robert Mitchell Co., Ltd. Disc cutting attachment for band saws. 2,867,250, 1-6-59, Cl. 143-26.
- Guilbert, Inc.: See—
- Guilbert, Nicholas R., Jr. 2,891,289.
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- Dohn, Leo F. 2,893,095.
- Guild, Lloyd V. Apparatus for separating, identifying and measuring gases. 2,868,316, 1-13-59, Cl. 183-4.5.
- Guild, Lurelle V. A., to The Murray Corp. of America. Kitchen assembly. 2,867,488, 1-6-59, Cl. 312-107.
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- Guillemant, René E. Electric switches. 2,905,773, 9-22-59, Cl. 200-5.
- Guillemier, Pierre L. E., to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Percussion tools. 2,889,811, 6-9-59, Cl. 121-32.
- Guillemin, Ernst A., and W. K. Linvill, to Raytheon Co. Servo system having precision reversibility. 2,907,222, 10-6-59, Cl. 74-409.
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- Guillot, Franz: See—
- Wacker, Wilhelm, Guillot, and Hempel. 2,889,583.
- Guillot, Georges R. P., to Compagnie Francaise Thomson-Houston. Recorder and display system. 2,918,343, 12-22-59, Cl. 346-8.
- Guinet, Maurice: See—
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- Guins, Sergei G. Stabilizing structure for railway car spring suspension. 2,873,691, 2-17-59, Cl. 105-197.
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- Guldner, Harry, and G. Tippmann, to VEB Buchungsmaschinenwerk Karl-Marx-Stadt. Line spacing devices for business machines. 2,895,585, 7-21-59, Cl. 197-114.
- Gulemi, Thomas A., to Sperry Rand Corp. Wire tagging machine. 2,898,719, 8-11-59, Cl. 53-198.
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- Beach, Horace J. 2,889,228.
- Blewett, Guy C., McCoy, and Walsh. 2,883,996.
- Bonnell, William S., and Willard. 2,880,244.
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- Fisher, Earl E. 2,874,037.
- Fisher, Earl E. 2,913,410.
- Franklin, Leslie U., and Gebhart. 2,889,280.
- Gebhart, Julius C., and Franklin. 2,884,234.
- Gottshall, Ralph I., and Hill. 2,905,541.
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- Hughes, Richard V. 2,889,880.
- Irvine, Robert L. 2,912,365.
- Kibby, Theodore A. 2,867,170.
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- Kirby, Lawrence J. 2,899,969.
- McGaughey, James H., and Swank. 2,886,211.
- Nedderman, Wendell H. 2,871,667.
- Patrick, Emzy H. 2,876,007.
- Peck, Carl M. 2,895,912.
- Pope, Samuel H., and Stuntz. 2,914,946.
- Robertson, Melborne L. 2,892,097.
- Rodgers, Clifford J., Jr. 2,870,843.
- Stone, Virgil D. 2,915,422.
- Stanberry, Wallace A. 2,917,115.
- Summers, Claude R., Jr. 2,892,002.
- Todd, William C. 2,905,248.
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- Beuther, Harold, and Henke. 2,902,440.
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- Brown, William E., McVeagh, and Wallace. 2,900,336.
- Camp, Samuel C., and Stevens. 2,880,131.
- Capell, Robert G., and Templin. 2,898,293.
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- Coggeshall, Norman D. 2,868,011.
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- Colten, Jerrold L. 2,902,627.
- Crowley, Edgar L., Franke, and Helwig. 2,878,276.
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- Dashiell, John W., Jr., and Jacobson. 2,911,820.
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 Erdman, John G. 2,867,626.  
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 Fareri, Elizabeth L., and Pellegrini. 2,899,459.  
 Flinn, Richard A., and McKinley. 2,880,171.  
 Franke, Norman W., and Kelly. 2,890,247.  
 Frech, Kenneth J., and Odioso. 2,909,581.  
 Gilbert, William I., Hay, and McNulty. 2,872,486.  
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 Hall, George C., Kline, and Zabor. 2,906,697.  
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 Henke, Alfred M. 2,909,480.  
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 Hirsch, Joel H., and McAfee. 2,892,773.  
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 Palmer, Elton M. 2,898,574.  
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 Teplitz, Abraham J., and Versaw. 2,884,066.  
 Trautman, Charles E. 2,913,319.  
 Wyckoff, Ralph D. 2,906,929.  
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 Dranetz, Abraham I. 2,873,426.  
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 Gummi, Peter, to American Enka Corp. Warp guide. 2,886,879, 5-19-59, Cl. 28-35.  
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 Gundelfinger, William E. : *See*—  
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- Gunkel, William F., to Bendix Aviation Corp. Solenoid actuated valve for controlling flow to a nozzle. 2,910,249, 10-27-59, Cl. 239-548.
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- Gunn, Paul C., to Loma Plastics, Inc. Clothes hamper. 2,873,782, 2-17-59, Cl. 150-48.
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- Sefried, Harry H., II, and Gunnesson. 2,869,268.
- Gunning, Alfred W., and H. H. Dorman, to Mult-Lift Co. Hydraulic lift for industrial trucks and tractors. 2,877,868, 3-17-59, Cl. 187-9.
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- Johnson, Archie G. 2,907,199.
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- Haberland, Frederick C., to Borg-Warner Corp. Pressure loaded pump, lubricating means. 2,885,965, 5-12-59, Cl. 103-126.
- Häberle, Albert, to Koppers Co., Inc. Process and device for the quenching of coke. 2,876,172, 3-3-59, Cl. 202-37.
- Häberle, Ernst: *See*—
- Schwenk, Willy, Bayer, Hagemann, and Häberle. 2,907,240.
- Häberle, Paul. Self-closing wrench. 2,875,659, 3-3-59, Cl. 81-99.
- Haberstroh, John. Ensilage spreader with bulldozer attachment. 2,911,733, 11-10-59, Cl. 37-144.
- Habicht, William H.: *See*—
- Kearns, Charles M., Jr., and Habicht. 2,868,494.
- Habig, Harry R. Image motion compensating film control apparatus. 2,895,392, 7-21-59, Cl. 95-12.5.
- Habrige, Anton H. Hitch. 2,894,766, 7-14-59, Cl. 280-482.
- Habsburg-Lothringen, Stefan, and C. E. Quinn, to General Motors Corp. Vehicle lamp system. 2,912,675, 11-10-59, Cl. 340-87.
- Hachmuth, Karl H., to Phillips Petroleum Co. Fractional crystallization process and apparatus. 2,894,997, 7-14-59, Cl. 260-666.
- Hachmuth, Karl H., and A. L. Duckwall, to Phillips Petroleum Co. Manufacture of calcium cyanamid. 2,917,363, 12-15-59, Cl. 23-78.
- Hack, Heinrich: *See*—
- Federn, Klaus, and Hack. Re. 24,620.
- Hackedorn, Hillis F., Jr., R. W. Seniff, and J. W. Tucker. Lubricator. 2,904,375, 9-15-59, Cl. 308-243.
- Hackel, Friedrich: *See*—
- Ott, Josef, Hackel, Hummel, Wiedemann, and Sigel. 2,914,362.
- Hackenberg, John H.: *See*—
- Jelinek, Charles, Jr., and Hackenberg. 2,919,304.
- Wise, Raleigh J., Hackenberg, and Ridings. 2,894,065.
- Hackenberg, John H., and R. J. Wise, to The Western Union Telegraph Co. Facsimile scanning drum sheet holder apparatus. 2,878,095, 3-17-59, Cl. 346-138.
- Hacker, Kurt, and D. Braun, to Firma Fortuna-Werke Spezialmaschinenfabrik A-G. Sheet cutting apparatus. 2,873,601, 2-17-59, Cl. 69-9.5.
- Hackethal Draft-und Kabel Werke A. G.: *See*—
- Brandes, Hermann, and Andresen. 2,890,263.
- Hackett, Harry H., to L. J. Bazzoni. Pneumatic feed attachment for tape dispensers. 2,885,902, 5-12-59, Cl. 74-422.
- Hackett, James W., to Owens-Illinois Glass Co. Method and apparatus for making blown plastic articles. 2,908,034, 10-13-59, Cl. 18-5.
- Hackett, William S., to General Motors Corp. Apparatus for assembling shell molds. 2,899,726, 8-18-59, Cl. 22-31.
- Hackl, Benedict A. Garter clasp. 2,910,757, 11-3-59, Cl. 24-245.
- Hacklander, Hans: *See*—
- Vaktar, Anthony E., and Hacklander. 2,910,950.
- Hacklander, Hans, to The Singer Mfg. Co. Looper mechanisms for sewing machines. 2,884,884, 5-5-59, Cl. 112-199.
- Hacklander, Hans, to The Singer Mfg. Co. Sewing machines. 2,891,494, 6-23-59, Cl. 112-18.
- Hacklander, Hans, to The Singer Mfg. Co. Feeding mechanisms for sewing machines. 2,896,560, 7-28-59, Cl. 112-18.
- Hacklander, Hans, to The Singer Mfg. Co. Thread tension mechanism for sewing machines. 2,902,959, 9-8-59, Cl. 112-238.
- Hacklander, Hans, to The Singer Mfg. Co. Trimming mechanisms for sewing machines. 2,903,986, 9-15-59, Cl. 112-122.
- Hacklander, Hans, to The Singer Mfg. Co. Feeding mechanisms for sewing machines. 2,905,120, 9-22-59, Cl. 112-212.
- Hacklander, Hans, to The Singer Mfg. Co. Lubricant return means for sewing machines. 2,909,242, 10-20-59, Cl. 184-6.
- Hackländer, Karl H., to Agricola Reg. Trust. Method of making mattresses, cushions, upholstery, heat and sound insulating coverings and the like. 2,878,153, 3-17-59, Cl. 154-106.
- Hackmyer, Saul A., to Technical Research, Inc. Pressure feed for cartridge type writing instrument. 2,870,742, 1-27-59, Cl. 120-45.4.
- Hackmyer, Saul A. Brasing attachment for typewriters. 2,908,372, 10-13-59, Cl. 197-181.
- Hackney, Howard R. Body rubbing unit. 2,904,038, 9-15-59, Cl. 128-67.
- Hackney, Robert F.: *See*—
- Fesperman, James L., and Hackney. 2,895,326.
- Hackzell, Erik G. M.: *See*—
- Granström, Olof A., and Hackzell. 2,870,920.
- Haddad, Raymond A., and R. E. Schell, to Radio Corp. of America. Electronic circuit. 2,895,108, 7-14-59, Cl. 331-176.
- Haddad, Salomao J., to Southern Mill Equipment Corp. Apparatus for cutting and binding knitting yarns and method. 2,893,229, 7-7-59, Cl. 66-145.
- Haddad, Theodore A., to Burroughs Corp. Glow tube cathode. 2,891,184, 6-16-59, Cl. 313-109.5.
- Hadden, William F. Safety grill for vehicle doors. 2,892,495, 6-30-59, Cl. 160-216.
- Haddix, Robert J.: *See*—
- Hott, Ion V. K., and Haddix. 2,872,942.
- Haddix, Robert J., to The Joyce-Cridland Co. Auxiliary support for lift. 2,904,132, 9-15-59, Cl. 187-8.75.
- Haddock, William S. Educational game apparatus. 2,909,851, 10-27-59, Cl. 35-9.
- Haden, Walter L., Jr., and C. O. Martin, to Minerals & Chemicals Corp. of America. Clay bodied organic liquids and a process for the preparation thereof. 2,885,360, 5-5-59, Cl. 252-28.
- Hadfield, Glen R. Apparatus for severing and rolling up strips of a sod ribbon. 2,872,989, 2-10-59, Cl. 172-20.
- Hadfields Ltd.: *See*—
- Middleham, Thomas H., and Colbeck. 2,916,375.



- Hadidian, Puzant H. Tooth brush. 2,882,544, 4-21-59, Cl. 15-167.
- Hadjilias, Jorge P. Sighting instrument. 2,903,940, 9-15-59, Cl. 88-26.
- Hadley, Charles F.: *See*—  
Eisler, Joseph D., and Hadley. 2,907,621.  
Eisler, Joseph D., and Hadley. 2,910,339.  
Eisler, Joseph D., Hadley, and Silverman. 2,877,080.  
Eisler, Joseph D., Hadley, and Silverman. 2,881,044.
- Hadley, David J.: *See*—  
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- Hadley, Edwin V.: *See*—  
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Sorg, Adam. 2,904,448.
- Hadley, Howard C., to Deere & Co. Corn picker gathering chains. 2,899,794, 8-18-59, Cl. 56-111.
- Hadley, Norman F., to The Birge Co., Inc. Wallpaper display device. 2,884,715, 5-5-59, Cl. 35-49.
- Hadley, Robert W., to E. W. Bliss Co. Press control circuit. 2,886,155, 5-12-59, Cl. 192-142.
- Hadley, Robert W., to E. W. Bliss Co. Differential transformer press control. 2,893,529, 7-7-59, Cl. 192-142.
- Hadley, Wilfred N., to Riggs & Lombard, Inc. Fabric napping mechanism. 2,884,678, 5-5-59, Cl. 26-29.
- Hadnagy, Domokos, now by change of name T. D. Hagnagy. Dovetailing machine. 2,893,449, 7-7-59, Cl. 144-87.
- Hadnagy, Thomas D.: *See*—  
Hagnagy, Domokos. 2,893,449.
- Haebler, Herbert, to Firma Accumulatoren-Fabrik Akt. Separator and electrode assembly for storage batteries and the like. 2,874,203, 2-17-59, Cl. 136-43.
- Haack, Hans H.: *See*—  
Uhlenbrock, Jan H., Koopman, Haack, Daams, and Bijloo. 2,911,337.
- Haede, Werner: *See*—  
Ehrhart, Gustav, Ruschig, Schmidt-Thomé, Haede, and Fritsch. 2,912,444.
- Haederer, Gustave A.: *See*—  
Mitchell, Donald H., Muehlberger, and Haederer. 2,906,199.
- Haefeli, Theodor, to Cinetech A.G. Photosensitive material and a process of making same. 2,893,866, 7-7-59, Cl. 96-75.
- Haefner, Albert J., and C. W. Montgomery, to Ethyl Corp. Polyvinyl chloride with alkali metal phosphate and organotin salt. 2,868,765, 1-13-59, Cl. 260-45.75.
- Haefner, Raymond J., to General Motors Corp. Fuel injection means. 2,893,365, 7-7-59, Cl. 123-119.
- Haegert, Clarence B. Battery terminal clamp. 2,870,426, 1-20-59, Cl. 339-231.
- Haehnel, Herbert E.: *See*—  
Bauer, Kurt P., Bitzer, and Haehnel. 2,898,753.
- Haelan Laboratories, Inc.: *See*—  
Kane, Alan H. 2,887,708.
- Haendler, Helmut M.: *See*—  
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- Haendler & Natermann, o. H. G.: *See*—  
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- Haensel, Vladimir: *See*—  
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De Rosset, Armand J., and Haensel. 2,878,192.  
Donaldson, George R., and Haensel. 2,872,492.
- Haensel, Vladimir, to Universal Oil Products Co. Hydrocarbon conversion process. 2,871,277, 1-27-59, Cl. 260-683.68.
- Haensel, Vladimir, to Universal Oil Products Co. Conversion process using a phosphorus-containing platinum group metal catalyst. 2,890,167, 6-9-59, Cl. 208-139.
- Haensel, Vladimir, to Universal Oil Products Co. Production of ethylbenzene. 2,892,876, 6-30-59, Cl. 260-668.
- Haensel, Vladimir, to Universal Oil Products Co. Hydrocarbon conversion process. 2,905,620, 9-22-59, Cl. 208-65.
- Haensel, Vladimir, to Universal Oil Products Co. Isomerization of normal butane. 2,908,735, 10-13-59, Cl. 260-683.68.
- Haensel, Vladimir, to Universal Oil Products Co. Production of benzene. 2,911,451, 11-3-59, Cl. 260-668.
- Haensel, Vladimir, to Universal Oil Products Co. Isomerization of saturated hydrocarbons. 2,915,571, 12-1-59, Cl. 260-683.68.
- Haensel, Vladimir, and H. S. Bloch, to Universal Oil Products Co. Preventing stalling of carbureted internal combustion engines. 2,899,943, 8-18-59, Cl. 123-1.
- Haensel, Vladimir, and G. R. Donaldson, to Universal Oil Products Co. Hydrocarbon conversion process. 2,906,691, 9-29-59, Cl. 208-64.
- Haensel, Vladimir, and G. R. Donaldson, to Universal Oil Products Co. Adding a nitrogen compound to suppress hydrocracking in the reforming of a sulfur-containing naphtha. 2,906,699, 9-29-59, Cl. 208-138.
- Haensel, Vladimir, and G. R. Donaldson, to Universal Oil Products Co. Hydrocarbon conversion process with subsequent reforming of selected hydrocarbon fractions. 2,915,453, 12-1-59, Cl. 208-64.
- Haentjens, Otto and W. D. Slurry pump. 2,890,659, 6-16-59, Cl. 103-102.
- Haentjens, Walter D.: *See*—  
Haentjens, Otto and W. D. 2,890,659.
- Haering, D. W., & Co., Inc.: *See*—  
Gibson, Joseph W. 2,876,787.
- Haerther, Lester W., and L. P. Kammerer. Torque operated variable reference switch for disabling the altitude controller of an aircraft. 2,912,192, 11-10-59, Cl. 244-76.
- Haerther, William W., Jr., and M. F. Noren, to Hawley Products Co. Acoustic diaphragm and method of construction. 2,873,813, 2-17-59, Cl. 181-32.
- Haessler, Walter M., to The Fyr-Fyter Co. Fire extinguisher mounting bracket for vibration service. 2,910,262, 10-27-59, Cl. 248-304.
- Haffcke, William H.: *See*—  
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- Haffner, Bernard K.: *See*—  
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- Haffner, Eduard K. L.: *See*—  
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- Hafiger, Franz: *See*—  
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Eugster, Conrad H., Denss, Hafiger, Hofer, Pfister, and Zimmermann. 2,895,965.  
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Pfister, Rudolf, and Hafiger. 2,889,325.  
Pfister, Rudolf, and Hafiger. 2,889,326.
- Hafiger, Franz, and L. Muslin, to Geigy Chemical Corp. 1,2 - diphenyl - 3,5 - dioxo - 4 - n - butyl - 4 - carboxymethyl-pyrazolidine. 2,905,693, 9-22-59, Cl. 260-310.
- Hafner, Erich, to United States of America, Army. Coaxial crystal mount. 2,891,177, 6-16-59, Cl. 310-9.2.
- Hafner, Klaus: *See*—  
Ziegler, Karl, and Hafner. 2,900,426.
- Hafner, Theodore. Electronic storage tubes. 2,867,686, 1-6-59, Cl. 178-6.8.
- Hafner, Theodore. Surface wave transmission line coupler. 2,867,778, 1-6-59, Cl. 333-33.
- Hafner, William J., and G. H. Cork; said Hafner assor. to said Cork. Pneumatic conveyor system. 2,900,146, 8-18-59, Cl. 243-36.
- Hafstad, Lawrence R., and R. B. Roberts, to United States of America, Navy. Fuze. 2,898,857, 8-11-59, Cl. 102-70.2.
- Hafstad, Lawrence R., and R. B. Roberts, Fuze. 2,906,886, 9-29-59, Cl. 250-237.
- Hagadone, Donald G., to Cleveland Pneumatic Industries, Inc. Fluid seal. 2,918,339, 12-22-59, Cl. 309-23.
- Hagan Chemicals & Controls, Inc.: *See*—  
Anderson, George R., Boho, and Fulmer. 2,904,017.  
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Gill, Joseph, and Sackin. 2,873,320.  
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Markson, Alfred A. 2,904,075.  
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Munter, Casimir J. 2,899,971.  
Rice, Owen. 2,915,958.  
Roland, Charles T. 2,906,599.  
Roland, Charles T., and Ralston. 2,906,600.  
Williams, Ray S. 2,898,929.  
Williams, Ray S. 2,910,092.
- Hagan, James W. Panel box mounting. 2,878,955, 3-24-59, Cl. 220-3.9.
- Hagan, Richard A., to Sylvania Electric Products Inc. Switch tube device for waveguides. 2,890,419, 6-9-59, Cl. 333-13.
- Hagans, Kenneth W. Egg washing device. 2,891,561, 6-23-59, Cl. 134-102.
- Hagar, Monty M.: *See*—  
Myers, John C., and Hagar. 2,895,365.
- Hagdahl, Ernst J., and S. E. Jindberg, to Telefonaktiebolaget L M Ericsson. Maximum demand indicators. 2,914,731, 11-24-59, Cl. 324-103.
- Hagedorn, Adolf: *See*—  
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- Hagele, Karl: *See*—  
Luttringhaus, Arthur, and Hagele. 2,915,536.
- Hagelin, Boris C. W. Ciphering device. 2,884,712, 5-5-59, Cl. 35-2.
- Hagelin, Boris C. W. Ciphering machines. 2,917,579, 12-15-59, Cl. 178-22.
- Hagelhorn, Bror H., to Cisatlantic Corp. Plastic strips. Re. 24,613, 3-3-59, Cl. 154-43.
- Hageman, Louis F., to Moore Business Forms, Inc. Vertical spacing device for typewriters or the like. 2,887,206, 5-19-59, Cl. 197-114.
- Hagemann, Carl: *See*—  
Schwenk, Willy, Bayer, Hagemann, and Haberle. 2,907,240.
- Hagemann, Guy, L. Penasse, and J. Teillon, to Les Laboratoires Français de Chimiothérapie. O-carbamyl-D-serine. 2,885,433, 5-5-59, Cl. 260-482.
- Hagemeyer, Hugh J., Jr.: *See*—  
Wright, Howard N., Jr., and Hagemeyer. 2,895,996.
- Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Catalytic polymerization of  $\alpha$ -olefins to solid polymers of improved crystallinity at increased rates. 2,899,413, 8-11-59, Cl. 260-88.1.
- Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Polymerization of olefins with metal oxide catalysts promoted by alkali metal alkyls. 2,908,669, 10-13-59, Cl. 260-93.7.
- Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Polymerization of higher olefins to solid polymer with lithium-titanium tetrahalide catalysts. 2,908,670, 10-13-59, Cl. 260-93.7.



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- Hagen, Carl: *See*—
- Follett, Louis W., and Hagen. 2,902,263.
- Hagen, Clarence K., to International Harvester Co. Cotton harvester. 2,869,306, 1-20-59, Cl. 56-14.
- Hagen, Glenn E.: *See*—
- Magnuson, Vernon P., Hagen, and Williams. 2,912,160.
- Hagen, Harold F. and W. F., to The Union Stock Yard and Transit Co. of Chicago. Cold room cooler for meats and other perishable products. 2,904,316, 9-15-59, Cl. 257-137.
- Hagen, Joseph, to Sandoz Ltd. Apparatus for handling ampoules. 2,908,124, 10-13-59, Cl. 53-112.
- Hagen, Norbert: *See*—
- Hagen, Reinold and N. 2,918,698.
- Hagen, Oscar A. Fishing reel brace attachment. 2,869,276, 1-20-59, Cl. 43-25.
- Hagen, Reinold and N. Manufacture of hollow articles from plastics. 2,918,698, 12-29-59, Cl. 18-5.
- Hagen, Roger W., to Westinghouse Electric Corp. Fuel ignition apparatus. 2,887,845, 5-26-59, Cl. 60-39.82.
- Hagen, William F.: *See*—
- Hagen, Harold F. and W. F. 2,904,316.
- Hagenbook, Loy D., to Goodman Mfg. Co. Percussive core breaking device for boring type miners. 2,901,231, 8-25-59, Cl. 262-7.
- Hagenbook, Loy D., and R. A. Kopeikin, to Goodman Mfg. Co. Self-tightening clamp. 2,903,770, 9-15-59, Cl. 24-126.
- Hagenhaus, Kurt, to Siemens & Halske, Akt. Signalling system for simultaneously transmitting a plurality of messages. 2,877,304, 3-10-59, Cl. 179-15.
- Hagenlocher, Ernest. Torsionally resilient flexible couplings. 2,877,633, 3-17-59, Cl. 64-13.
- Hager, Bror O. Aqueous composition consisting of ammonia and a heavy metal salt of mixed polychlorophenols. 2,908,607, 10-13-59, Cl. 167-38.7.
- Hager, Karl F.: *See*—
- Michel, Josef M., and Hager. 2,869,995.
- Hager & Meisinger G.m.b.H.: *See*—
- Heppe, Karl R. W. 2,902,763.
- Hager, Robert E.: *See*—
- Winkler, Alvin L., Hager, and Falck-Pedersen. 2,882,814.
- Hager, Robert E., to Acme Steel Co. Hydraulic stitcher. 2,884,635, 5-5-59, Cl. 1-44.4.
- Hager, Robert R., to Bendix Aviation Corp. Governor switch. 2,872,540, 2-3-59, Cl. 200-67.
- Hagerty, Andrew T., to The Adlake Co. Window. 2,888,721, 6-2-59, Cl. 20-69.
- Hagerty, Andrew T., to The Adlake Co. Window movement limiting device. 2,904,855, 9-22-59, Cl. 20-52.
- Hagerty, Charles L. Metal finishing machine. 2,872,759, 2-10-59, Cl. 51-170.
- Hagerty, Elliot B.: *See*—
- Bush, Jess A., Freeman, and Hagerty. 2,884,358.
- Hagerty, Peter F.: *See*—
- Snyder, John R., Hagerty, and Molstad. 2,871,109.
- Hagg, Arthur C.: *See*—
- Cametti, Benjamin, and Hagg. 2,887,061.
- Haggadone, L. V., 51% to Hardt Foundation, and 9% to S. C. Bronson. Electrically operated selector. 2,888,665, 5-26-59, Cl. 340-168.
- Haggard, John M., and P. H. McMurray, to Delphi Products Co., Inc. Combination vehicle. 2,870,928, 1-27-59, Cl. 214-373.
- Haggard & Marcusson Co.: *See*—
- Sark, Ward T. 2,907,054.
- Hage, Walter, M. Quaadvlieg, and H. Seifert, to Farbenfabriken Bayer Aktiengesellschaft. Sulphonamides of organic polymers. 2,906,715, 9-29-59, Cl. 260-2.1.
- Haggerty, William A.: *See*—
- Ernst, Hans, and Haggerty. 2,903,922.
- Hagiwara, Masa. Cam device of hand knitting machine. 2,879,653, 3-31-59, Cl. 66-60.
- Hagler, Charles R., to General Motors Corp. Vehicle anti-roll device and power steering control therefor. 2,893,751, 7-7-59, Cl. 280-112.
- Haglund, Didrik W., to Sandvikens Jernverks Aktiebolag. Rock drill cutting insert of sintered hard metal. 2,888,247, 5-26-59, Cl. 255-63.
- Haglund, Didrik W., to Sandvikens Jernverks Aktiebolag. Rock drill cutting insert. 2,889,138, 6-2-59, Cl. 255-64.
- Haglund, Erik A. E., to Aktiebolaget Torsten Lagerman. Connecting device. 2,879,087, 3-24-59, Cl. 287-54.
- Haglund, John H.: *See*—
- Borghult, Per, and Haglund. 2,913,695.
- Hagman, Ernest F.: *See*—
- Storm, Frederick K., Jr., and Smiley. 2,885,806.
- Hagmann, Robert W.: *See*—
- Cooper, John C., and Hagmann. 2,875,374.
- Hagner, Frederick H. Mechanical universe instrument. 2,892,268, 6-30-59, Cl. 35-47.
- Hagopian, Jacob J. Light responsive amusement device. 2,896,085, 7-21-59, Cl. 250-78.
- Hagopian, Jacob J., to International Business Machines Corp. Motion transmission device. 2,896,456, 7-28-59, Cl. 74-18.
- Hagopian, Jacob J., to International Business Machines Corp. Magnetic recording surface. 2,913,246, 11-17-59, Cl. 274-41.4.
- Hagopian, Jacob J., to International Business Machines Corp. Magnetic coating composition. 2,914,480, 11-24-59, Cl. 252-62.5.
- Hags, Joseph W., to United States Steel Corp. Apparatus for determining the net weight of material in a container. 2,871,006, 1-27-59, Cl. 265-70.
- Hags, Joseph W., to United States Steel Corp. Weighing balance. 2,910,287, 10-27-59, Cl. 265-27.
- Hagspihl, Paul, to Accumulatoren-Fabrik Aktiengesellschaft. Sintered plate electrode with expanded-metal grid. 2,909,586, 10-20-59, Cl. 136-28.
- Hague, Lou R. Vehicle signalling system for indicating the amount of applied brake pressure. 2,891,234, 6-16-59, Cl. 340-69.
- Hague, Louise D.: *See*—
- Jezl, James L., and Hague. 2,880,253.
- Hagy, John T. Journal lubricator. 2,902,324, 9-1-59, Cl. 308-243.
- Hahl, Robert G., and H. N. Lowe, Jr. Fluidized solids diffuser. 2,883,240, 4-21-59, Cl. 302-29.
- Hahn, Alexander. Adjustable shore. 2,918,257, 12-22-59, Cl. 254-105.
- Hahn, Carl-Georg: *See*—
- Knollenberg, Rudolf, and Hahn. 2,915,401.
- Hahn, Donald E., to General Electric Co. Combination electronic and electric ranges. 2,919,336, 12-29-59, Cl. 219-10.55.
- Hahn, Elmer H., Jr., to The Leece-Neville Co. Flexible drive. 2,907,214, 10-6-59, Cl. 74-6.
- Hahn, Emil H., to Lambert Brake Corp. Hydraulically and mechanically operated disc brake. 2,874,807, 2-24-59, Cl. 188-72.
- Hahn, Emil H., to Lambert Brake Corp. Self-energizing disc brake and self-adjuster means therefor. 2,878,900, 3-24-59, Cl. 188-72.
- Hahn, Erwin L. Pulsed nuclear induction spin echo technique. 2,887,673, 5-19-59, Cl. 340-173.
- Hahn, Frank J., to Monsanto Chemical Co. Latex base exterior protective coating compositions. 2,889,236, 6-2-59, Cl. 117-72.
- Hahn, Frank J. Fish pole holder. 2,900,152, 8-18-59, Cl. 248-42.
- Hahn, Frederick S., to High Voltage Engineering Corp. Gas leak. 2,887,294, 5-19-59, Cl. 251-129.
- Hahn, George W.: *See*—
- Anthony, Harry E., Burnham, Dement, Hahn, and Hepler. 2,886,306.
- Hahn, Gilbert B.: *See*—
- Douglas, Alvin F., and Hahn. 2,897,687.
- Hahn, Gilbert B., to The Murray Ohio Mfg. Co. Bicycle kick stand. 2,912,255, 11-10-59, Cl. 280-301.
- Hahn, Helmut: *See*—
- Kahrs, Karl-Heinz, Frey, Scherer, and Hahn. 2,919,263.
- Scherer, Otto, and Hahn. 2,891,074.
- Scherer, Otto, and Hahn. 2,915,429.
- Scherer, Otto, Hahn, Frensch, Emmel, and Staudermann. 2,885,430.
- Hahn, Jerome G., to Jacoby-Bender, Inc. Display container for bracelets or the like. 2,892,541, 6-30-59, Cl. 206-78.
- Hahn, Otto, to Glasbau Heinrich Hahn. Glass unit for structure glazing. 2,907,078, 10-6-59, Cl. 20-52.
- Hahn, Ralph E. Playable record album. 2,881,004, 4-7-59, Cl. 274-1.
- Hahn, Richard H., and H. V. French. Valve for filling, draining, venting and pressure build-up of an oxygen supply tank. 2,916,061, 12-8-59, Cl. 141-349.
- Hahn, Robert S., to The Heald Machine Co. Chucking device. 2,873,121, 2-10-59, Cl. 279-4.
- Hahn, Robert S., and G. D. Johnson, to The Heald Machine Co. Grinding machine. 2,881,568, 4-14-59, Cl. 51-50.
- Hahn, Roy C. Combined miter box and corner clamp. 2,908,300, 10-13-59, Cl. 143-86.
- Hahn, Theodor. Tool feed control means operable in one direction of movement and inoperable in the reverse direction. 2,884,653, 5-5-59, Cl. 10-105.
- Hahn, Werner: *See*—
- Weise, Johannes, Fischer, Hahn, Kromer, and Noack. 2,893,301.
- Hahne, Karl H.: *See*—
- Raydt, Ulrich, and Hahne. 2,869,220.
- Hahnel, Alwin, to United States of America, Army. Spectrum generator. 2,868,976, 1-13-59, Cl. 250-36.
- Hahnel, Alwin, to United States of America, Army. Crystal controlled spectrum generator. 2,868,977, 1-13-59, Cl. 250-36.
- Hahnel, Alwin, to United States of America, Army. Spectrum generator. 2,903,651, 9-8-59, Cl. 331-117.
- Hahnel, Alwin, to United States of America, Army. Frequency multiplier. 2,911,596, 11-3-59, Cl. 331-174.
- Haidegger, Hans, to Ebauches S.A. Method of manufacture of packing. 2,899,782, 8-18-59, Cl. 53-14.
- Haidegger, Hans M., to Ebauches S.A. Instrument for linear measurement and/or tolerance testing of workpieces. 2,906,028, 9-29-59, Cl. 33-143.
- Haidinger, Walter A., to North American Philips Co., Inc. Compact source lamp. 2,887,603, 5-19-59, Cl. 313-184.
- Haidler, Bernard J.: *See*—
- Tally, Sidney K., and Haidler. 2,885,525.



- Haigh, Daniel H.: *See*—  
Roberts, Carleton W., and Haigh. 2,908,712.
- Haigler, Edmund D.: *See*—  
Huston, William D., and Haigler. 2,911,954.
- Haigler, Edmund D., to Fischer & Porter Co. Pointer and pen carrying mechanism for indicators, controllers and recorders. 2,911,278, 11-3-59, Cl. 346—139.
- Haigler, Edmund D. W. D. Huston, and F. E. Lombard, Jr., to American Machine and Metals, Inc. Pneumatic relay. 2,907,336, 10-6-59, Cl. 137—82.
- Hailes, William D., to General Railway Signal Co. Railway signaling system for the protection of trains incapable of reliably shunting track circuits. 2,895,042, 7-14-59, Cl. 246—33.
- Hailes, William D., to General Railway Signal Co. Fail-safe protection for code communication control systems. 2,900,498, 8-18-59, Cl. 246—5.
- Hailey, Albert M., to Siemens Edison Swan Ltd. Electric selective signalling systems. 2,871,467, 1-27-59, Cl. 340—324.
- Hailston, Ellis W.: *See*—  
Crittendon, Lexie R., Hailston, Haskell, Kelly, and Leek. 2,891,341.
- Hailston, Ellis W., and H. L. Hameister, to Remington Arms Co., Inc. Adjustable barrel and receiver connection. 2,893,153, 7-7-59, Cl. 42—75.
- Hains, Philip L. Air circulator. 2,889,980, 6-9-59, Cl. 230—134.
- Hain, Elias W.: *See*—  
Duggan, James J., Hain, and Haettinger. 2,908,334.
- Haine, Michael E., to Metropolitan-Vickers Electrical Co. Ltd. Electron optical apparatus. 2,886,727, 5-12-59, Cl. 313—76.
- Hainer, Raymond M.: *See*—  
Heggie, Robert, Hainer, and Sahaydak. 2,891,868.
- Haines, Charles, Jr., to Armstrong Cork Co. Segmented insulation and method of installing the same. 2,890,739, 6-16-59, Cl. 154—28.
- Haines, Frank D. Towel holders. 2,915,191, 12-1-59, Cl. 211—16.
- Haines, Lewis G. Materials testing machine grips for thin sheet material. 2,896,448, 7-28-59, Cl. 73—103.
- Haines, Marcus W.: *See*—  
Wright, Stanley R. 2,915,286.
- Haines, Marcus W. Frictional holding device for use in wells. 2,874,783, 2-24-59, Cl. 166—212.
- Haines, Robert M.: *See*—  
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Annable, Weldon G., and Haines. 2,890,947.  
Annable, Weldon G., Jacobs, and Haines. 2,875,145.
- Haines, Robert M., J. W. Walsh, and W. G. Annable, to The Pure Oil Co. Improving the odor of specialty naphthas. 2,882,232, 4-14-59, Cl. 252—50.
- Haines, Robert M., and J. W. Walsh, to The Pure Oil Co. Process for the preparation of oxidized microcrystalline waxes of increased hardness. 2,908,702, 10-13-59, Cl. 260—452.
- Haines, Theron L. File record signalling device. 2,895,448, 7-21-59, Cl. 116—135.
- Haines, William A., to A. O. Smith Corp. Centrifugally actuated switch. 2,870,283, 1-20-59, Cl. 200—80.
- Haining, Lester E., to Radio Corp. of America. Selective indicia production. 2,907,018, 9-29-59, Cl. 340—324.
- Hainke, Georg, to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain Chauny & Cirey. Process of making armored glass. 2,873,556, 2-17-59, Cl. 49—86.
- Hainsworth, Sidney B.: *See*—  
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- Hainzl, Hans: *See*—  
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- Haioka, Hajime: *See*—  
Suyama, Hidenari, Kobayashi, Sakata, Hata, Uzunaki, Ishii, Kiyota, and Haioka. 2,890,927.
- Hair, Douglas W. Wheel-track gauge for motor vehicles. 2,899,753, 8-18-59, Cl. 33—203.21.
- Hair, Richard H.: *See*—  
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- Hair, Vincent W. Automatic valve. 2,875,778, 3-3-59, Cl. 137—386.
- Haisfield, Rudolph M.: *See*—  
Hardgrove, Basil E., and Haisfield. 2,910,666.
- Haislip, Albert S. Stiffening brace for flexible Venetian blind slats. 2,877,487, 3-17-59, Cl. 15—268.
- Haislip, Albert S. Paint pail and brush holder attachment for step-ladders. 2,907,541, 10-6-59, Cl. 248—211.
- Haiist, Grant M., and J. R. King, to Eastman Kodak Co. Combined photographic developing and stabilizing solution. 2,875,048, 2-24-59, Cl. 96—61.
- Hait, Hyman J. Medicament display and reference case or similar article. 2,895,602, 7-21-59, Cl. 206—45.31.
- Hait, James M., to Food Machinery and Chemical Corp. Fruit feeding and orienting means. 2,907,440, 10-6-59, Cl. 198—33.
- Hait, James M., to Food Machinery and Chemical Corp. Fruit feeding and orienting means. 2,909,270, 10-20-59, Cl. 198—33.
- Hait, James M., to Food Machinery and Chemical Corp. Rotary sprinkler control. 2,910,246, 10-27-59, Cl. 239—252.
- Hait, James M., to Food Machinery and Chemical Corp. Fruit orienting and pitting mechanism. 2,913,028, 11-17-59, Cl. 146—28.
- Hajdu, Joseph. Process of impregnating textile material to increase its wear resistance. 2,871,145, 1-27-59, Cl. 117—139.5.
- Hajny, Charles E., to Baso Inc. Thermostat for low power circuits. 2,873,328, 2-10-59, Cl. 200—138.
- Hajny, Charles E., to Baso Inc. Valve disc assembly. 2,875,975, 3-3-59, Cl. 251—86.
- Hajny, Charles E., to Baso Inc. Control apparatus and devices therefor. 2,890,016, 6-9-59, Cl. 251—137.
- Hajny, Charles E., to Minnesota Mining and Mfg. Co. Burner control system. 2,902,221, 9-1-59, Cl. 236—9.
- Hakala, Nillo V.: *See*—  
Michaels, Adlai E., and Hakala. 2,880,175.
- Hakala, Thomas H., to Esso Research and Engineering Co. Process for producing heavy alkylate sulfonation feedstocks. 2,886,609, 5-12-59, Cl. 260—671.
- Hake, Walter T., to American Steel Foundries. Power swivel-ing head. 2,880,630, 4-7-59, Cl. 77—4.
- Hake, Walter T., to American Steel Foundries. Power indexing arrangement for side head tool block. 2,898,781, 8-11-59, Cl. 74—820.
- Hakker, Petrus J.: *See*—  
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- Hakogi, Ichiro. Apparatus for printing the circumferential surface of square articles such as glass bottles or the like. 2,881,699, 4-14-59, Cl. 101—126.
- "Hala" Nederlandsche Lampenfabriek N.V.: *See*—  
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- Halax Corp.: *See*—  
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- Halber, Jerry, to W. A. Lewis and J. Halber. Hair-retaining comb. 2,902,042, 9-1-59, Cl. 132—133.
- Halberg, Robert W., and R. S. Hutton, to Borg-Warner Corp. Clutch plate. 2,902,130, 9-1-59, Cl. 192—107.
- Halberstadt, Charles C., to The Budd Co. Work handling apparatus with controlled grip mechanical hand. 2,901,126, 8-25-59, Cl. 214—1.
- Halbert, Stuart. Airfoil with means for distributing de-icing fluids. 2,876,970, 3-10-59, Cl. 244—134.
- Halbig, Paul. Spinning of polyacrylonitrile filaments. 2,878,097, 3-17-59, Cl. 18—54.
- Halbig, Paul. Shaped polyacrylonitrile structures. 2,907,096, 10-6-59, Cl. 28—82.
- Halbrook, James W., and W. O. Knaak. Folding boom. 2,919,107, 12-29-59, Cl. 254—139.1.
- Halbrook, Noah J., and R. V. Lawrence, to United States of America, Agriculture. Separation of fumaropimaric acid from fumaric-modified rosin products. 2,889,362, 6-2-59, Cl. 260—514.5.
- Halbron, Serge. Rollers for conveyors. 2,886,156, 5-12-59, Cl. 193—37.
- Haldeman, Bruce M., to General Bronze Corp. Window operator. 2,890,882, 6-16-59, Cl. 268—110.
- Haldeman, George W., to United States of America, Atomic Energy Commission. Method and apparatus for fabricating tubular units. 2,874,459, 2-24-59, Cl. 29—517.
- Haldeman, William F. Method for stabilizing semi-conductor rectifiers. 2,874,448, 2-24-59, Cl. 29—25.3.
- Hale, Arlan B., to Union Carbide Corp. Partial oxidation reactor. 2,889,209, 6-2-59, Cl. 23—277.
- Hale, Arlan B., and S. E. Parrish, to Union Carbide Corp. Process and apparatus for partial oxidation of hydrocarbons. 2,868,856, 1-13-59, Cl. 260—679.
- Hale, Arthur N., to Union Special Machine Co. Stand for sewing machines and sewing unit comprising the same. 2,875,006, 2-24-59, Cl. 311—12.
- Hale, Arthur N., to Union Special Machine Co. Lockstitch sewing machine. 2,885,982, 5-12-59, Cl. 112—211.
- Hale, Arthur N., to Union Special Machine Co. Stripper mechanism for sewing machines. 2,887,077, 5-19-59, Cl. 112—211.
- Hale, Charles C., to E. N. Hale, by Decree of Distribution. Latch plate mounting. 2,884,277, 4-28-59, Cl. 292—341.18.
- Hale, Clifford W.: *See*—  
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- Hale, Corwin M.: *See*—  
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- Hale, Edward C.: *See*—  
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- Hale, Eileen N.: *See*—  
Hale, Charles C. 2,884,277.
- Hale Fire Pump Co.: *See*—  
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- Hale, Fred H., and R. H. Page, to General Electric Co. Strap-tightening tool. 2,873,090, 2-10-59, Cl. 254—79.
- Hale, Harold E., to Tuner's Supply Co. Tool for the repair of piano hammers. 2,906,067, 9-29-59, Cl. 51—170.
- Hale, Herman T.: *See*—  
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- Hale, John K.: *See*—  
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- Hale, John K., and H. G. McCarty, to Sperry Rand Corp. Agricultural implement. 2,906,077, 9-29-59, Cl. 56—1.
- Hale, Merritt W. Means for fastening trim for finishing interior surfaces of walls, etc. 2,878,845, 3-24-59, Cl. 145—1.
- Hale, Mildred: *See*—  
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- Hale, Nathan C.: *See*—  
Le Fever, Mortier W. 2,913,250.
- Hale, Randall H. Cervical brace. 2,904,040, 9-15-59, Cl. 128-87.
- Hale, Roger W. Braided strapping. 2,876,671, 3-10-59, Cl. 87-2.
- Hale, Wallace M.: *See*—  
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- Hale, William F., to Paperbox Corp. Carton for packing fruits, vegetables or the like. 2,874,889, 2-24-59, Cl. 229-23.
- Hales, Everett B.: *See*—  
Gray, John W., Hales, and Greenwood. 2,908,902.
- Hales, Everett B., to General Precision Laboratory Inc. Automatic program control system. 2,870,429, 1-20-59, Cl. 340-147.
- Hales, Ferron. Automotive door straightening jig. 2,903,259, 9-8-59, Cl. 269-156.
- Hales, Kenneth R., to Philco Corp. Semiconductor units. 2,896,136, 7-21-59, Cl. 317-234.
- Halex Corp.: *See*—  
Alexander, Lewis W. 2,905,492.
- Haller, John, and Alexander. 2,897,026.
- Haley, Alfred J., Jr.: *See*—  
Andersen, Holger C., and Haley. 2,909,578.
- Haley, Bernard W., to Hillside Laboratory. Optical device for testing absorption. 2,868,062, 1-13-59, Cl. 88-14.
- Haley, Emmett L. Portable pressure fluid power devices. 2,867,086, 1-6-59, Cl. 60-51.
- Haley, Francis J. Fulcruming action pavement breaker. 2,878,002, 3-17-59, Cl. 262-9.
- Haley, Frank J., to O. W. Tippet. Self-squeezing tea or coffee bag. 2,878,927, 3-24-59, Cl. 206-5.
- Haley, Harold A., to American Viscose Corp. Spinning bath circulator. 2,879,542, 3-31-59, Cl. 18-8.
- Halford, Frank B., and G. E. Clarke, to The De Havilland Engine Co. Ltd. Blade ring assemblies for axial flow compressors or turbines. 2,869,821, 1-20-59, Cl. 253-73.
- Halford, Frank B., deceased (by A. H. Bentley, G. P. Bulman, and J. H. Bentley, executors), and L. S. Snell, to The De Havilland Engine Co. Ltd. Multi-tubular wall for heat exchangers. 2,880,577, 4-7-59, Cl. 60-35.6.
- Halford, Frank B., deceased; A. H. Bentley, G. P. Bulman, J. H. Bentley, executors, A. V. Cleaver, and G. E. Preece, to The De Havilland Engine Co. Ltd. Metal catalyst packs. 2,887,456, 5-19-59, Cl. 252-477.
- Halftermeyer, Rene. Magnetic duplicate sound record. 2,886,330, 5-12-59, Cl. 274-41.4.
- Halkey-Roberts Corp.: *See*—  
De See, Peter G. 2,887,120.
- Halik, Raymond R., to Socony Mobil Oil Co., Inc. Catalyst moisture control. 2,883,334, 4-21-59, Cl. 208-150.
- Halik, Raymond R., and D. F. Hill, to Socony Mobil Oil Co., Inc. Method for distributing a vapor-liquid feed and apparatus therefor. 2,898,292, 8-4-59, Cl. 208-250.
- Hall, Albert N. Machine for coating elongated articles. 2,911,943, 11-10-59, Cl. 118-425.
- Hall, Alfred: *See*—  
Imber, Alfred G., and Hall. 2,905,233.
- Hall, Barbara A.: *See*—  
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- Hall, Basil L.: *See*—  
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- Hall, C. M., Lamp Co.: *See*—  
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- Botti, Alfred. 2,918,808.
- Worden, Norbert P. 2,868,961.
- Worden, Norbert P. 2,903,570.
- Hall, Carroll B., N. A. Perry, and M. F. Zullig, to Ridbo Laboratories, Inc. Low viscosity sulfurized tall oil and process for making the same. 2,870,132, 1-20-59, Cl. 260-97.5.
- Hall, Cecil T. Multiple stage electronic amplifiers. 2,889,415, 6-2-59, Cl. 179-171.
- Hall, Charles C. Asphalt cutter operating under the weight of the machine. 2,890,872, 6-16-59, Cl. 262-20.
- Hall, Charles T., to Molins Machine Co. Ltd. Methods of and means for wrapping block-shaped articles. 2,867,065, 1-6-59, Cl. 53-170.
- Hall, Chauncey A. Weeding tool. 2,901,280, 8-25-59, Cl. 294-30.8.
- Hall, Clarence A.: *See*—  
Dykstra, Fred J., Hall, and Shepherd. 2,904,458.
- Hall, Claude C.: *See*—  
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- Hall, Dick S.: *See*—  
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- Hall, Dick S., and H. W. Hennigan, to Phillips Petroleum Co. Prevention of coke depositions in a hydrocarbon coking zone. 2,875,146, 2-24-59, Cl. 208-48.
- Hall, Dick S., L. E. Dean, C. L. Seyer, and C. E. Forkel, to Phillips Petroleum Co. Apparatus for converting hydrocarbons. 2,880,078, 3-31-59, Cl. 23-288.
- Hall, Earl D. Multipurpose mason's level. 2,901,836, 9-1-59, Cl. 33-207.
- Hall, Edward H.: *See*—  
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- Hall, Elisha W., to F. L. & J. C. Codman Co. Rotary polishing element. 2,908,117, 10-13-59, Cl. 51-193.5.
- Hall, Elisha W., and D. R. Paone, to F. L. & J. C. Codman Co. Radial face rotary buffing element. 2,907,147, 10-6-59, Cl. 51-195.
- Hall, Elisha W., 2nd, and D. R. Paone, to F. L. & J. C. Codman Co. Rotary abrasive element. 2,907,145, 10-6-59, Cl. 51-193.5.
- Hall, Elmer D. Centralizer. 2,886,111, 5-12-59, Cl. 166-241.
- Hall, Elmer D. and J. A. Well tool mounting. 2,877,062, 3-10-59, Cl. 308-4.
- Hall, Emery L., to Whirlpool Corp. Drive apparatus. 2,888,828, 6-2-59, Cl. 74-230.7.
- Hall, Emery L., to Whirlpool Corp. Motor controller. 2,904,738, 9-15-59, Cl. 318-325.
- Hall, Flemmon P., to Pass & Seymour, Inc. Removal of flash from ceramic parts formed by pressing. 2,883,312, 4-21-59, Cl. 134-32.
- Hall, George C., R. E. Kline, and R. C. Zabor, to Gulf Research & Development Co. Hydroreforming and reactivation of catalyst with an oxygen containing gas. 2,906,697, 9-29-59, Cl. 208-136.
- Hall, George D.: *See*—  
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- Hall, George D., to Thornhill-Craver Co., Inc. Locking device for closures. 2,869,752, 1-20-59, Cl. 220-40.
- Hall, George E., Jr., to Wyandotte Chemicals Corp. Paper making process and product. 2,919,222, 12-29-59, Cl. 162-181.
- Hall, George L., to International Telephone and Telegraph Corp. Electron beam gun systems. 2,916,666, 12-8-59, Cl. 315-31.
- Hall, George V. B., to Thompson Ramo Wooldridge Inc. Fuel enrichment device. 2,905,165, 9-22-59, Cl. 123-179.
- Hall, George V. B., A. C. Sampietro, and A. K. Hannum, to Thompson Ramo Wooldridge Inc. Opposed free piston reciprocating gas compressor. 2,891,718, 6-23-59, Cl. 250-53.
- Hall, Guy C. Combination service entrance protection and demand control. 2,904,703, 9-15-59, Cl. 307-34.
- Hall, Harry H. Method of making pressure measuring gage means. 2,880,497, 4-7-59, Cl. 29-155.5.
- Hall, Harry H., to American Viscose Corp. Process of producing all skin rayon. 2,895,787, 7-21-59, Cl. 18-54.
- Hall, Henry D. Accessories for hair clipper. 2,882,595, 4-21-59, Cl. 30-201.
- Hall, Henry P., to General Radio Co. Electrical bridge and method. 2,872,639, 2-3-59, Cl. 324-57.
- Hall, Hugh J., to Varian Associates. Reference cell holder. 2,876,273, 3-3-59, Cl. 136-169.
- Hall, Horatio V.: *See*—  
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- Hall, Howard T., to Research Corp. High pressure press. 2,918,699, 12-29-59, Cl. 18-16.
- Hall, J. & E. Ltd.: *See*—  
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- Hall, James A.: *See*—  
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- Groszos, Stephen J., and Hall. 2,885,370.
- Hall, James A., to Reynolds Metals Co. Evaporators for refrigeration. 2,908,149, 10-13-59, Cl. 62-516.
- Hall, James L.: *See*—  
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- Hall, James R.: *See*—  
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- Singelmann, Dietrich E., and Hall. 2,912,188.
- Hall, James R., to Radio Corp. of America. Magnetic recording system. 2,881,255, 4-7-59, Cl. 179-15.
- Hall, Jesse E., Sr. Tool mountings. 2,897,899, 8-4-59, Cl. 166-241.
- Hall, Jesse E., Sr., and J. A. Hall. Casing stop collar to mount a well tool. 2,898,136, 8-4-59, Cl. 287-52.
- Hall, John A.: *See*—  
Hall, Elmer D. and J. A. 2,877,062.
- Hall, Jesse E., Sr. and J. A. 2,898,136.
- Hall, John A. Cementing head. 2,870,842, 1-27-59, Cl. 166-70.
- Hall, John L., and D. A. Elliott, to Curtiss-Wright Corp. Fast action hydraulic valve. 2,917,026, 12-15-59, Cl. 121-38.
- Hall, Keith W., to Baldwin-Lima-Hamilton Corp. Press for molding powdered material. 2,867,844, 1-13-59, Cl. 18-16.5.
- Hall, Keith W., to Baldwin-Lima-Hamilton Corp. Ejection stroke adjusting means for powdered metal presses. 2,882,556, 4-21-59, Cl. 18-16.5.
- Hall, Kenneth J.: *See*—  
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- Hall, Kenneth J., to Crompton & Knowles Corp. Salvage and method and means for making same. 2,918,945, 12-29-59, Cl. 139-54.
- Hall, Kenneth J., to Crompton & Knowles Corp. Salvages for woven fabrics. 2,918,949, 12-29-59, Cl. 139-383.
- Hall, Lawrence G., and L. G. Cole, to Consolidated Electrodynamics Corp. Chromatography. 2,891,630, 6-23-59, Cl. 183-2.
- Hall, Lester W. Hoist. 2,895,567, 7-21-59, Cl. 187-9.
- Hall, Llewellyn J. Safety device for brush hog. 2,880,942, 4-7-59, Cl. 241-222.



- Hall, Lowell E.: *See*—  
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Wheeler, Will L., Hall, and Kellogg. 2,906,019.
- Hall, Luther A. R., to E. I. du Pont de Nemours and Co. Production of poly P-xylene polymers containing halogen. 2,914,489, 11-24-59, Cl. 260-2.
- Hall, Lynn O., Jr., to Owens-Illinois Glass Co. Method and apparatus for coating the interior surfaces of small diameter glass tubing. 2,867,544, 1-6-59, Cl. 117-97.
- Hall, Marchand B., to Acme Steel Co. Shearing and gripping device for binding tools. 2,868,238, 1-13-59, Cl. 140-93.2.
- Hall, Mary H. Arithmetic teaching aid to demonstrate fractions. 2,914,865, 12-1-59, Cl. 35-75.
- Hall & McChesney, Inc.: *See*—  
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- Hall, Newton L. Ball mill with load dispersion bar. 2,868,463, 1-13-59, Cl. 241-184.
- Hall, Norman W.: *See*—  
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- Hall, Orville C., to United States of America, Navy. Phase selector. 2,907,879, 10-6-59, Cl. 250-27.
- Hall, Oscar J. Socket plug receptacle. 2,870,425, 1-20-59, Cl. 339-75.
- Hall, Otis M. Adapter for drop pipe in drilled well casings. 2,903,067, 9-8-59, Cl. 166-85.
- Hall, Preston M. Rotary type filing and abrading appliance. 2,877,775, 3-17-59, Cl. 132-73.6.
- Hall, Preston M., and R. H. Taylor. Welding machine electrodes. 2,914,652, 11-24-59, Cl. 219-120.
- Hall, Ralph S. Broom having mounting member for a detachable brush element. 2,915,768, 12-8-59, Cl. 15-244.
- Hall, Reginald H., and A. R. Graham, to The Distillers Co. Ltd. Production of 1:1:3-trialkoxyp-2-ene. 2,870,221, 1-20-59, Cl. 260-615.
- Hall, Robert D. Telescoping cabin for trucks. 2,879,103, 3-24-59, Cl. 296-23.
- Hall, Robert H.: *See*—  
Ashley, Edward L. and J. W., Bowker, Hall, and Kendall. 2,872,398.  
Fuchs, Francis J., Jr., and Hall. 2,902,077.  
Fuchs, Francis J., Jr., and Hall. 2,902,078.
- Hall, Robert L.: *See*—  
Smith, David R., and Hall. 2,898,315.
- Hall, Robert N., to General Electric Co. Silicon carbide semiconductor devices and method of preparation thereof. 2,918,396, 12-22-59, Cl. 148-1.5.
- Hall, Ronald C.: *See*—  
Billin, James J., Godier, and Hall. 2,885,472.
- Hall, Ronald H., and E. Turk, to Hercules Powder Co. Recovery of pure acetone. 2,906,675, 9-29-59, Cl. 202-57.
- Hall, Richard W., to Barnes Engineering Co. Process for flattening thermistor flakes. 2,901,811, 9-1-59, Cl. 25-156.
- Hall, Thane R. Boat steering device. 2,881,730, 4-14-59, Cl. 114-153.
- Hall, Thomas C.: *See*—  
Harrington, Allan L., and Hall. 2,913,358.
- Hall, Victor C., to Merck & Co., Inc. Tablet feed device and process. 2,886,157, 5-12-59, Cl. 193-43.
- Hall, Vincent C., to Time, Inc. Variable black plate for use in color reproduction systems. 2,892,016, 6-23-59, Cl. 178-5.2.
- Hall, Vincent C., to Eastman Kodak Co. Apparatus for balancing scanning systems. 2,895,006, 7-14-59, Cl. 178-7.1.
- Hall, W. F., Printing Co.: *See*—  
Hillier, Stanley K. 2,894,454.
- Hall, Walter E.: *See*—  
Whetstone, Richard R., Raab, and Hall. 2,867,646.
- Hall, William A. Artificial foliage and method of manufacture. 2,901,852, 9-1-59, Cl. 41-13.
- Hall, William D.: *See*—  
Laufer, Maurice K., and Hall. 2,916,606.
- Hall, William F. Electrical measuring system. 2,871,447, 1-27-59, Cl. 324-114.
- Hall, William G.: *See*—  
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- Hall, William G., R. I. Van Nice, and W. G. Evans, to Westinghouse Electric Corp. Logic circuits. 2,874,373, 2-17-59, Cl. 340-174.
- Hall, William I. Fluid coupling. 2,918,156, 12-22-59, Cl. 192-3.2.
- Hall, William O.: *See*—  
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- Halla, Ottokar, and F. Kuhr, to Siemens-Schuckertwerke Aktiengesellschaft. Magnetically controllable semiconductor resistance device and method of its manufacture. 2,915,684, 12-1-59, Cl. 317-234.
- Halladay, Earl L. Universal door edge moulding. 2,879,104, 3-24-59, Cl. 296-44.
- Halladay, Lloyd: *See*—  
Ribesehl, Robert E., and Halladay. 2,905,428.
- Hallam, Cecil A.: *See*—  
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- Hallam, Cecil A., to Western Electric Co., Inc. Differential drive apparatus. 2,896,777, 7-28-59, Cl. 203-227.
- Hallam, Cecil A., to Western Electric Co., Inc. Registration of corrugated tapes. 2,916,072, 12-8-59, Cl. 153-2.
- Hallam, Claude S.: *See*—  
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- Hallam, Sleigh & Cheston Ltd.: *See*—  
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- Hallard, Frank L. Colostomy belts and the like. 2,895,476, 7-21-59, Cl. 128-283.
- Hallas, Leon G.: *See*—  
Morninger, Alfred L., and Hallas. 2,887,154.
- Hallas, Lister, to Southern United Telephone Cables Ltd. Arrangements for actuating electric relays in sequence. 2,917,680, 12-15-59, Cl. 317-140.
- Hallas-Möller, Knud: *See*—  
Petersen, Karl, Schlichtkrull, and Hallas-Möller. 2,882,202.  
Petersen, Karl, Schlichtkrull, and Hallas-Möller. 2,882,203.
- Hallbauer, Dankmar, to General Electric Co. Arrangement of lag and light load compensators in an induction watt-hour meter. 2,879,476, 3-24-59, Cl. 324-138.
- Halden, Frederick G., and M. J. McCann, to The Western Union Telegraph Co. Two way facsimile repeater. 2,870,246, 1-20-59, Cl. 178-5.
- Haller, Augustine C. Process for preserving eggs. 2,912,335, 11-10-59, Cl. 99-161.
- Haller, Clayton L., to Westinghouse Electric Corp. Control mechanism. 2,896,052, 7-21-59, Cl. 200-138.
- Haller, Clayton L., to Westinghouse Electric Corp. Thermodynamically controlled cooking apparatus. 2,911,514, 11-3-59, Cl. 219-44.
- Haller, John. Briquetting die set. 2,913,766, 11-24-59, Cl. 18-34.
- Haller, John, and L. W. Alexander, to Halex Corp. Expansion compensating sleeve bearing unit. 2,897,026, 7-28-59, Cl. 308-238.
- Haller, John F., to Olin Mathieson Chemical Corp. Process for the production of stabilized liquid ozone. 2,876,077, 3-3-59, Cl. 23-222.
- Haller, John F., to Olin Mathieson Chemical Corp. Process for forming nitrogen oxides. 2,901,320, 8-25-59, Cl. 23-163.
- Haller, Raymond and Brown, Inc.: *See*—  
McLucas, John L. 2,883,658.  
McLucas, John L. 2,898,401.
- Hallerstrom, Harold C., to Hanna Engineering Works. Cushioning device for cylinders. 2,870,744, 1-27-59, Cl. 121-38.
- Hallwell, George, to Blackstone and Co. Ltd. Flexible couplings. 2,871,683, 2-3-59, Cl. 64-13.
- Halley, James W.: *See*—  
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- Halley, James W., to Inland Steel Co. Control method and apparatus for iron ore reduction process. 2,889,219, 6-2-59, Cl. 75-52.
- Halliburton Oil Well Cementing Co.: *See*—  
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Lintz, Mark, and Anderson. 2,898,466.  
Owsley, William D. 2,911,187.
- Pyle, Edwin C., and Northington. 2,884,230.
- Pyle, Edwin C., Northington, and Copland. 2,884,231.
- Richardson, Cecil R. 2,877,851.
- Westbrook, Spurgeon S. 2,913,053.
- Hallcrafters Co., The: *See*—  
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- Halliday, David, to Dresser Industries, Inc. Pattern for impeller core. 2,887,744, 5-26-59, Cl. 22-158.
- Halliday, John J. Hinges for hanging doors. 2,885,722, 5-12-59, Cl. 16-130.
- Halliday, Virgil R. Drapery hanger. 2,873,081, 2-10-59, Cl. 248-262.
- Hallidy, William M., to The Leece-Neville Co. Brush holder. 2,875,356, 2-24-59, Cl. 310-245.
- Hallidy, William M., to The Leece-Neville Co. Alternator-rectifier electrical generating system. 2,877,402, 3-10-59, Cl. 320-28.
- Hallidy, William M., to The Leece-Neville Co. Armature construction. 2,884,549, 4-28-59, Cl. 310-183.
- Hallidy, William M., to The Leece-Neville Co. Engine cranking apparatus. 2,907,215, 10-6-59, Cl. 74-6.
- Hallie, Gerardus, and J. W. Hoogendonk, to Stamicarbon N. V. Process for granulating material. 2,887,723, 5-23-59, Cl. 18-47.2.
- Halligan, Joseph C. Gate structure. 2,896,277, 7-28-59, Cl. 20-71.
- Hallman, Russell H., to Vickers Inc. Power transmission. 2,894,458, 7-14-59, Cl. 103-120.
- Hallmann, Johan P. H., to North American Philips Co., Inc. Apparatus for magnetic recording and reproduction. 2,868,544, 1-13-59, Cl. 274-4.
- Hallmann, Johan P. H., to North American Philips Co., Inc. Tape guiding device. 2,912,516, 11-10-59, Cl. 179-100.2.
- Hallmark Cards, Inc.: *See*—  
Campbell, Ernest C., Jr. 2,889,879.  
Campbell, Ernest C., Jr. 2,894,620.  
Lohnes, Howard E., and Krekovich. 2,884,724.  
Lohnes, Howard E., and Krekovich. 2,884,738.  
Rowland, Homer C. 2,886,912.
- Hallock, Edward C. Interlocking brace for louver blades. 2,881,484, 4-14-59, Cl. 20-63.
- Hallock, Edward C. Roof scuttle. 2,909,254, 10-20-59, Cl. 189-46.
- Hallstead, Herbert J.: *See*—  
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- Hallstrom, Olof A., Jr. Door control mechanism. 2,912,236, 11-10-59, Cl. 268-50.
- Hallström, Olof H. Connector valve for central suction plants. 2,908,286, 10-13-59, Cl. 137-522.
- Hallworth, Robert, to Henry Simon Ltd. Pneumatic elevators for granular materials. 2,898,157, 8-4-59, Cl. 302-17.
- Halm Instrument Co. Inc.: *See—*
- Aronson, Theodore F., and Lyon. 2,918,278.
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- Allen, William M. 2,919,247.
- Andrus, Paul G. 2,874,064.
- Andrus, Paul G., and Walkup. 2,873,721.
- Bull, Glen C., Marlen, and Sabel. 2,913,973.
- Byrne, John F. 2,917,385.
- Carlson, Chester F. 2,918,900.
- Clark, Harold E. 2,911,330.
- Clark, Harold E., and Gundlach. 2,880,696.
- Dessauer, John H., and Clark. 2,901,348.
- Dessauer, John H., Gundlach, and Mott. 2,894,840.
- Gundlach, Robert W. 2,871,819.
- Gundlach, Robert W. 2,885,556.
- Gundlach, Robert W. 2,912,586.
- Haacke, Alfred C. 2,868,989.
- Hayford, Richard E. 2,880,699.
- Hayford, Richard E. 2,899,331.
- Hayford, Richard E., and Crumrine. 2,911,944.
- Hayford, Richard E., and Kaiser. 2,868,642.
- Insalaco, Michael A. 2,891,011.
- Insalaco, Michael A. 2,892,794.
- Landrigan, Richard B., Fauser, and Tom. 2,872,338.
- Lehmann, Ernest H. 2,879,397.
- Matthews, Earnest P. 2,877,132.
- Matthews, Earnest P. 2,878,972.
- Matthews, Earnest P. 2,894,486.
- Matthews, Earnest P. 2,911,945.
- Mayo, Clyde R., and Wolfe. 2,878,732.
- Mayo, Clyde R., and Wolfe. 2,892,391.
- Ricker, Eugene C. 2,918,898.
- Rosenthal, Joseph F. 2,914,221.
- Sabel, Edward R., and Gabrecht. 2,913,974.
- Schaffert, Roland M., and Hansen. 2,901,349.
- Van Dorn, Warren G. 2,886,464.
- Van Wagner, Edward M. 2,919,179.
- Vyverberg, Robert G. 2,885,955.
- Vyverberg, Robert G., and Rosenthal. 2,919,119.
- Walker, James J. 2,889,234.
- Walkup, Lewis E. 2,879,395.
- Walkup, Lewis E. 2,892,708.
- Walkup, Lewis E. 2,919,191.
- Halpern, Alfred, to Synergistics, Inc. Quinidine galacturonates. 2,878,252, 3-17-59, Cl. 260-284.
- Halpern, Alfred, to Synergistics, Inc. Novel otologic preparations and the process for their preparation. 2,914,442, 11-24-59, Cl. 167-58.
- Halpern, Benjamin D., and H. E. Hoyt, to The Borden Co. Bonding inorganic granules. 2,878,539, 3-24-59, Cl. 22-193.
- Halpern, Israel A. Container closure and pouring spout. 2,919,057, 12-29-59, Cl. 222-484.
- Halpern, Jack, to Canadian Patents and Development Ltd. Method of reducing a metal compound to a lower state of oxidation in the presence of a cupric acetate catalyst. 2,879,134, 3-24-59, Cl. 23-140.
- Halpern, Otto. Corner reflector. 2,917,739, 12-15-59, Cl. 343-18.
- Halpern, Otto, to United States of America, Navy. Identifying reflector with reflection dissymmetry. 2,918,671, 12-22-59, Cl. 343-18.
- Halpern, William, M. C. Depp, and H. A. Trenchard, to Sperry Rand Corp. Method of measuring and compensating for deviation errors for earth's field responsive instruments. 2,887,872, 5-26-59, Cl. 73-1.
- Halpern, William, M. C. Depp, and C. F. Fragola, to Sperry Rand Corp. Method of measuring and compensating for deviation errors in earth's field sensitive direction indicators. 2,887,873, 5-26-59, Cl. 73-1.
- Halpert, David, to Vertol Aircraft Corp. Method and composition for treating aluminum and aluminum alloys. 2,883,311, 4-21-59, Cl. 134-3.
- Halpert, Joseph H. Service control devices. 2,871,594, 2-3-59, Cl. 40-63.
- Halpert, Louis. Combination vehicular warning extension light. 2,891,235, 6-16-59, Cl. 340-87.
- Hals, Per J., to United States of America, Air Force. Cathode-follower for pulse operation. 2,908,774, 10-13-59, Cl. 179-171.
- Halstead, Harold A., H. A., Jr. and R. E., to Novelty Carriage Works, Inc. Prisoner confining partition for automobiles. 2,884,279, 4-28-59, Cl. 296-24.
- Halstead, Harold A., Jr.: *See—*
- Halstead, Harold A., H. A., Jr. and R. E. 2,884,279.
- Halstead, John H. Automobile lift. 2,899,020, 8-11-59, Cl. 187-8.75.
- Halstead, Robert E.: *See—*
- Halstead, Harold A., H. A., Jr. and R. E. 2,884,279.
- Halsted, Richard E.: *See—*
- Elliott, James F., and Halsted. 2,904,696.
- Halsted, Richard E., to General Electric Co. Signal translating devices and circuits. 2,904,697, 9-15-59, Cl. 250-213.
- Haltenberger, Jules. Automobile door lock control. 2,873,135, 2-10-59, Cl. 292-280.
- Haltenberger, Jules. Gas turbine engine with exhaust heat recovery. 2,906,092, 9-29-59, Cl. 60-39.16.
- Halter, Robert E., and J. J. McGrath, to Gulf Research & Development Co. Itaconic acid-amine reaction product. 2,908,711, 10-13-59, Cl. 260-534.
- Haltmeier, Alfred, to Farbenfabriken Bayer Akt. Drying of moist material. 2,874,482, 2-24-59, Cl. 34-31.
- Haltmeier, Alfred, to Farbenfabriken Bayer Akt. Manufacture of sulfuric acid. 2,879,135, 3-24-59, Cl. 23-163.
- Haltmeier, Alfred, to Farbenfabriken Bayer Akt. Bubble cap assembly. 2,893,713, 7-7-59, Cl. 261-114.
- Haltorf, Henry: *See—*
- Britton, Roscoe C., and Haltorf. 2,867,952.
- Haluska, Loren A.: *See—*
- Clark, Harold A., and Haluska. 2,877,256.
- Haluska, Loren A., to Dow Corning Corp. Polymeric organosiloxanes. 2,868,824, 1-13-59, Cl. 260-448.2.
- Haluska, Loren A., to Dow Corning Corp. Method of re-activating halosilanes with diols. 2,906,768, 9-29-59, Cl. 260-448.8.
- Halvarsson, Harald, to De Laval Steam Turbine Co. Gear tooth measuring instrument. 2,901,831, 9-1-59, Cl. 33-179.5.
- Halversen, Roy A. Hot working of metals. 2,893,114, 7-7-59, Cl. 29-424.
- Halverson, Emmett H. Catapult device. 2,876,760, 3-10-59, Cl. 124-20.
- Halverson, Kenneth L. Measuring and dispensing device. 2,873,050, 2-10-59, Cl. 222-158.
- Halverstadt, Isaac F.: *See—*
- Hidalgo, John, Williams, and Halverstadt. 2,871,258.
- Halvorsen Products Mfg. Co.: *See—*
- Lambert, Robert D. 2,873,966.
- Halvorson, Robert L., to Westinghouse Electric Corp. Microwave communication system. 2,907,874, 10-6-59, Cl. 250-15.
- Halvorson, Robert L., F. S. Beale, and H. B. Dobyns, to Westinghouse Electric Corp. Equipment failure alarm system for repeater station communication network. 2,875,327, 2-24-59, Cl. 250-6.
- Ham, George E., to The Chemstrand Corp. Process for producing synthetic linear condensation copolymers using an alkylene carbonate. 2,870,124, 1-20-59, Cl. 260-75.
- Ham, George E., to The Chemstrand Corp. Process for producing synthetic linear aromatic sulfur-containing condensation polyesters and products thereof. 2,870,127, 1-20-59, Cl. 260-78.4.
- Ham, George E., to The Chemstrand Corp. Copolyamides from alpha-amino-acids and process for producing same. 2,892,817, 6-30-59, Cl. 260-78.
- Ham, George E., and A. B. Craig, to The Chemstrand Corp. Dye receptive fiber forming acrylonitrile polymer containing 2-alkyleneoxy substituted imidazolines and blends thereof with acrylonitrile polymer. 2,867,602, 1-6-59, Cl. 260-45.5.
- Ham, George E., and A. B. Craig, to The Chemstrand Corp. Certain 2-olefinoxymethyl imidazolines. 2,867,625, 1-6-59, Cl. 260-309.6.
- Ham, George E., and R. L. Sublett, to The Chemstrand Corp. High-melting interpolymers from epsilon-caprolactam. 2,893,980, 7-7-59, Cl. 260-78.
- Ham, Hubert: *See—*
- Karp, David, Ham, Reckson, and Hoffman. 2,907,187.
- Ham, James H., Jr., to Bell Telephone Laboratories, Inc. Signaling device. 2,893,001, 6-30-59, Cl. 340-392.
- Ham, James H., Jr., and W. Kalin, to Bell Telephone Laboratories, Inc. Sound output controller for signaling devices. 2,878,464, 3-17-59, Cl. 340-400.
- Ham, John L., and D. I. Sinizer, to National Research Corp. Production of metals. 2,875,034, 2-24-59, Cl. 75-10.
- Ham, Ralph A., and L. A. Jones. Shoe counter. 2,875,533, 3-3-59, Cl. 36-68.
- Hamada, Tsugio, to Wynn Pharmacal Corp. Quinidine gluconate sustained medication tablet. 2,895,881, 7-21-59, Cl. 167-82.
- Hamahata, Shinichi: *See—*
- Urano, Yukio, and Hamahata. 2,886,940.
- Hamaker, John C., Jr.: *See—*
- Roberts, George A., and Hamaker. 2,893,902.
- Hamamura, Hiroshi: *See—*
- Izumitani, Tetsuro, Terao, and Hamamura. 2,919,201.
- Haman, Harold H., to The Anacoda Co. Drill testing device. 2,909,922, 10-27-59, Cl. 73-135.
- Haman, Ralph W., to Pullman-Standard Car Mfg. Co. Railway car with high level seats. 2,891,488, 6-23-59, Cl. 105-345.
- Hamann, Alfred W.: *See—*
- Catlin, Robert T., Hamann, and Walker. 2,912,779.
- Hamann, Harry L., to Production Metal Stamping Co. Sheet metal slide fastener for threadless studs. 2,895,370, 7-21-59, Cl. 85-36.
- Hamblett, Kenneth H., and F. Zuckschwerdt. Electromagnetic switch. 2,874,244, 2-17-59, Cl. 200-87.
- Hamblin, Clyde M.,  $\frac{1}{2}$  to E. F. Hamblin,  $\frac{1}{2}$  to H. H. Livingstone, and  $\frac{1}{2}$  to B. H. Marshall. Buoyant insulated flexible tubing and method of making same. 2,874,722, 2-24-59, Cl. 138-53.
- Hamblin, Eva F.: *See—*
- Hamblin, Clyde M. 2,874,722.



- Hamblin, Leslie F., to Sentinel (Shrewsbury) Ltd. Tractor-trailer load distributing coupling. 2,883,208, 4-21-59, Cl. 280-406.
- Hamblin, Leslie F., to Sentinel (Shrewsbury) Ltd. Steering of trailer vehicles. 2,890,894, 6-16-59, Cl. 280-103.
- Hamblin, Leslie F., to Sentinel (Shrewsbury) Ltd. Low-loader trailer with variable ground clearance. 2,893,747, 7-7-59, Cl. 280-44.
- Hambor, John G.: *See*—  
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- Hambor, Valentine F., R. J. Shafranek, and J. H. Silverman, to Thompson Ramo Wooldridge Inc. High temperature solenoid. 2,909,713, 10-20-59, Cl. 317-165.
- Hamburg, Henry F., and A. Faugno. Beverage dispenser. 2,873,051, 2-10-59, Cl. 222-396.
- Hamby, Durward E.: *See*—  
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- Hameister, Harold L.: *See*—  
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- Hamel, Edward E., to E. I. du Pont de Nemours and Co. Production of 1,4-dichlorobutane. 2,889,380, 6-2-59, Cl. 260-657.
- Hamel, Lewis E., to Lewis E. Hamel Co. Boat clamp. 2,869,812, 1-20-59, Cl. 248-42.
- Hamel, Lewis E., Co.: *See*—  
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- Hamelink, Cornelis A. S.: *See*—  
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- Hamer, Howard, to Electronic Associates, Inc. Stabilized direct coupled amplifier. 2,910,549, 10-27-59, Cl. 179-171.
- Hamer, Leland S., to Chiksan Co. Pressure relieved valve seal. 2,908,480, 10-13-59, Cl. 251-328.
- Hamer, Martin: *See*—  
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- Hamer, William E., and G. V. Phillips, to Monsanto Chemicals Ltd. Aspirin crystallisation. 2,890,240, 6-9-59, Cl. 260-480.
- Hamersley, Gordon D., to The Griscom-Russell Co. Head closure construction for heat exchangers. 2,872,065, 2-3-59, Cl. 220-40.
- Hamill, John L., to The British Thomson-Houston Co. Ltd. Dynamo-electric machines. 2,897,382, 7-28-59, Cl. 310-64.
- Hamill-Markus Industries, Inc.: *See*—  
Randol, Glenn T. 2,903,855.
- Hamill, Robert B., to Welox, Inc. Stabilizer for well casing perforator. 2,915,011, 12-1-59, Cl. 102-21.8.
- Hamill, Robert J. Clutch releasing attachment for tractors. 2,890,759, 6-16-59, Cl. 180-14.5.
- Hamilton, Andrew, and A. Naylor, to Metropolitan-Vickers Electrical Co. Ltd. Spark-over protective devices for low voltage electrical apparatus. 2,919,371, 12-29-59, Cl. 313-292.
- Hamilton, Bertis F., deceased; W. S. Hamilton, executor, to Hamilton Mfg. Corp. Serving tray and cart. 2,886,186, 5-12-59, Cl. 211-126.
- Hamilton, Carl C.: *See*—  
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- Hamilton, Charles A., and D. L. Evans, Jr., to Alabama Pipe Co. Process and apparatus for the production of sand molds. 2,875,482, 3-3-59, Cl. 22-16.
- Hamilton, Clarence L., and M. B. Michael, to Ball Brothers Co., Inc. Steam vacuum apparatus for closing containers. 2,889,674, 6-9-59, Cl. 53-112.
- Hamilton, Donald E.: *See*—  
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- Hamilton, Douglas J., to Hughes Aircraft Co. Low output impedance semiconductor amplifier. 2,868,897, 1-13-59, Cl. 179-171.
- Hamilton, Douglas L. P., to Utility Products Co. Above ground tap enclosure for subterranean cable. 2,916,539, 12-8-59, Cl. 174-38.
- Hamilton, Earl F., to Hamilton Mfg. Corp. Article of furniture. 2,868,601, 1-13-59, Cl. 311-107.
- Hamilton, Earl F., to Hamilton Mfg. Corp. Chair or the like. 2,900,013, 8-18-59, Cl. 155-196.
- Hamilton, Edgar K., and G. Lukacs, to Chas. Pfizer & Co., Inc. Lower alkyl ester of acetonedicarboxylic acid. 2,887,508, 5-19-59, Cl. 260-483.
- Hamilton, Eugene P., to Marchant Research, Inc. Pulse interpreter. 2,887,676, 5-19-59, Cl. 340-174.
- Hamilton, Francis E., J. J. Troy, and E. S. Hughes, Jr., to International Business Machines Corp. Data transfer system. 2,877,450, 3-10-59, Cl. 340-174.
- Hamilton, Francis E., G. V. Hawkins, R. E. Lawhead, Jr., and E. S. Hughes, Jr., to International Business Machines Corp. Digital computer. 2,901,166, 8-25-59, Cl. 235-61.
- Hamilton, Francis E., J. D. Wolfe, and C. S. Jackowski, to International Business Machines Corp. Accounting machine. 2,902,213, 9-1-59, Cl. 235-61.7.
- Hamilton, Francis E., E. S. Hughes, Jr., C. B. Smith, and A. L. Furr, to International Business Machines Corp. Data transfer mechanism. 2,919,429, 12-29-59, Cl. 340-174.
- Hamilton, Francis W., to Chrysler Corp. Carburetor choke mechanism. 2,871,843, 2-3-59, Cl. 123-119.
- Hamilton, Francis W., to Chrysler Corp. Automatic choke air heater. 2,876,999, 3-10-59, Cl. 257-241.
- Hamilton, Francis W., to Chrysler Corp. Multiple stage choke control. 2,918,266, 12-22-59, Cl. 261-39.
- Hamilton, Harry D.: *See*—  
Pader, Morton, Hamilton, Miles, and McCrimlisk. 2,874,049.
- Hamilton, James, to General Electric Co. Enclosing case for electrical or other apparatus. 2,881,940, 4-14-59, Cl. 220-394.
- Hamilton, James I.: *See*—  
Dolman, Henry J., Hamilton, and Ball. 2,890,554.
- Hamilton, Jennie L., to Urinals for infants. 2,904,047, 9-15-59, Cl. 128-295.
- Hamilton, John M., to The Guiberson Corp. Drill stem wiper. 2,916,758, 12-15-59, Cl. 15-210.
- Hamilton, Joseph P.: *See*—  
Burkhardt, George C., Eastwood, and Hamilton. 2,896,835.
- Hamilton, Joseph P., to Container Corp. of America. Stacking paperboard tray. 2,868,430, 1-13-59, Cl. 229-34.
- Hamilton, Joseph P., to C. Dreifus, Jr. Pallet. 2,904,297, 9-15-59, Cl. 248-120.
- Hamilton, Joseph P., to Longview Fibre Co. Produce tray or container. 2,910,220, 10-27-59, Cl. 229-15.
- Hamilton, Joseph R. Baffle plate and settle-blow mechanism. 2,877,604, 3-17-59, Cl. 49-18.
- Hamilton, Joseph R. Turbine power transmitting assembly. 2,892,364, 6-30-59, Cl. 74-718.
- Hamilton, Lawrence E. Binocular shutter control. 2,899,863, 8-18-59, Cl. 88-61.
- Hamilton Mfg. Co.: *See*—  
Ariens, Virgil C. 2,916,183.  
Hamilton, Bertis F. 2,886,186.  
Hamilton, Earl F. 2,868,601.  
Hamilton, Earl F. 2,900,013.  
Hiers, Victor H. 2,881,482.  
Hiers, Victor H. 2,911,276.  
O'Neil, Charles S. 2,905,519.  
Paulsen, Paul L., Hiers, and Kanzelberger. 2,899,772.  
Rulseh, Roger D. 2,876,556.
- Hamilton, Ralph A., to Lockheed Aircraft Corp. Plumbing mirror. 2,876,673, 3-10-59, Cl. 88-1.
- Hamilton, Robert H. Spectrophotometry process. 2,912,895, 11-17-59, Cl. 88-14.
- Hamilton, Robert W.: *See*—  
Cusic, John W., and Hamilton. 2,874,155.
- Hamilton, Robert W., to Magee-Hale Park-O-Meter Co. Automatic parking meters. 2,897,938, 8-4-59, Cl. 194-72.
- Hamilton, Robert W., to Magee-Hale Park-O-Meter Co. Multiple coin parking meter. 2,901,078, 8-25-59, Cl. 194-72.
- Hamilton, Rolfe D., to Auto Express Rail, Inc. Conveyor. 2,908,379, 10-13-59, Cl. 198-213.
- Hamilton, Rolfe D., and S. M. Rich, said Hamilton to said Rich. Automatic safety valve for vehicle brake systems. 2,899,024, 8-11-59, Cl. 188-152.
- Hamilton, Samuel A. B. Air circulating device for automobiles. 2,894,442, 7-14-59, Cl. 98-2.
- Hamilton, Sanborn. Operator's skill compensating amusement device. 2,872,193, 2-3-59, Cl. 273-119.
- Hamilton-Skotch Corp.: *See*—  
Piker, Herbert M. 2,881,936.  
Piker, Herbert M. 2,915,352.  
Piker, Herbert M., and Schultheiss. 2,872,066.
- Hamilton, W. L., & Co.: *See*—  
Hamilton, William K. 2,896,865.
- Hamilton, Wallace, to Cleveland Pneumatic Industries, Inc. Fluid springs. 2,873,964, 2-17-59, Cl. 267-64.
- Hamilton, Walter E., and R. Trafelet. Lawn edger. 2,900,723, 8-25-59, Cl. 30-319.
- Hamilton Watch Co.: *See*—  
Biemiller, Philip E., Reese, and Van Horn. 2,877,654.  
Detwiler, Harry S. 2,887,551.  
Detwiler, Harry S., Petters, and Thompson. 2,907,810.  
Fritsch, Daniel. 2,897,680.  
Gibbs, Thomas B., and Fink. 2,873,572.  
Gingrich, Wilmer J. 2,894,367.  
Jackson, Roderick M. 2,889,471.  
Kempf, Walter R. 2,877,285.  
Pedrick, Donald R. 2,888,751.  
Turre, George J. 2,882,498.  
Van Horn, John A., Biemiller, and Reese. 2,888,797.
- Hamilton, William F., and E. Simon, to Lockheed Aircraft Corp. Compositions of matter for the electroplating of cadmium. 2,892,761, 6-30-59, Cl. 204-50.
- Hamilton, William K., to W. L. Hamilton & Co. Spray head. 2,896,865, 7-28-59, Cl. 239-521.
- Hamilton, William S.: *See*—  
Hamilton, Bertis F. 2,886,186.
- Hamilton, William S. H. Starting and operating fluorescent lamps in series. 2,918,605, 12-22-59, Cl. 315-97.
- Hamilton, Winton W.: *See*—  
Elliott, Kenneth M., and Hamilton. 2,898,288.
- Hamilton-Peters, Rodney, and T. B. Philip, to The Distillers Co. Ltd. Shut-off valve. 2,908,290, 10-13-59, Cl. 137-614.11.
- Hamister, Victor C., to Union Carbide Corp. Furnace construction for high temperature purification of carbonaceous bodies in halogen-containing gases. 2,893,848, 7-7-59, Cl. 23-277.
- Hamlet, John C.: *See*—  
Jansen, Alexander B. A., and Hamlet. 2,880,203.
- Hamlin, Bess E.: *See*—  
Hamlin, Jerry F., and Newman. 2,909,302.



- Hamlin, Frank S., J. D. Holmes, B. S. Brooks, and H. A. Swanson, Jr., to Phillips Petroleum Co. Temperature control system. 2,915,298, 12-1-59, Cl. 257-288.
- Hamlin, Jack D. Clothes hanger and carrier. 2,884,170, 4-28-59, Cl. 223-95.
- Hamlin, Jerry F.: *See—*  
Hamlin, Jerry F., and Newman. 2,909,302.
- Hamlin, Jerry F. Extensible stud driving tool. 2,902,690, 9-8-59, Cl. 1-47.
- Hamlin, Jerry F., and L. Newman,  $\frac{1}{2}$  to J. F. Hamlin,  $\frac{1}{2}$  to B. E. Hamlin,  $\frac{1}{2}$  to R. M. Cuykendall,  $\frac{1}{2}$  to M. Cuykendall,  $\frac{1}{2}$  to Louise Newman, and  $\frac{1}{2}$  to Louis Newman. Riveting gun. 2,909,302, 10-20-59, Cl. 218-34.
- Hamm, Douglas W., to Muskegon Piston Ring Co. Piston rings. 2,886,384, 5-12-59, Cl. 309-45.
- Hamm, Douglas W., to Muskegon Piston Ring Co. Method of producing a continuous spacer and expander for piston rings. 2,907,101, 10-6-59, Cl. 29-156.62.
- Hamm, Douglas W., to Muskegon Piston Ring Co. Piston rings. 2,910,334, 10-27-59, Cl. 309-45.
- Hamm, Forrest D., to Air Reduction Co., Inc. Anesthetic vaporizer apparatus. 2,869,540, 1-20-59, Cl. 128-188.
- Hamm, Fred. Emergency vehicle brake device. 2,878,885, 3-24-59, Cl. 180-82.
- Hamm, George E., to The Chemstrand Corp. Preparation of dry solutions of acrylonitrile vinylpyridine copolymers. 2,918,447, 12-22-59, Cl. 260-34.2.
- Hamm, John A., Jr. Mechanism for aiding and dialing telephone numbers. 2,874,672, 2-24-59, Cl. 116-133.
- Hamm, Otto H. Automotive vehicle anti-skid device. 2,912,056, 11-10-59, Cl. 180-15.
- Hamm, Philip C.: *See—*  
Beaver, David J., Hamm, and Stoffel. 2,867,520.  
Beaver, David J., Stoffel, and Hamm. 2,913,322.  
Deebel, George F., and Hamm. 2,879,150.
- Hamm, Philip C., to Monsanto Chemical Co. Defoliating compositions. 2,893,856, 7-7-59, Cl. 71-2.6.
- Hammack, Roderick F.: *See—*  
Scherf, Paul H., Bayne, and Hammack. 2,867,134.
- Hamman, Denver C., to Illinois Tool Works. Roller assembly. 2,898,160, 8-4-59, Cl. 308-18.
- Hammann, William C.: *See—*  
Blake, Edward S., and Hammann. 2,889,354.
- Hammar, Gustaf W. (by L. B. Hammar, executrix); and F. C. Bennett, Jr., to Eastman Kodak Co. Highly sensitive lead sulfide surfaces and the method of manufacture. 2,917,413, 12-15-59, Cl. 117-211.
- Hammar, Louise B.: *See—*  
Hammar, Gustaf W., and Bennett. 2,917,413.
- Hammel, Jay E.: *See—*  
Josephson, Vernal, and Hammel. 2,868,991.
- Hammell, Kemper M., to A M P Inc. Electrical connector. 2,888,662, 5-26-59, Cl. 339-217.
- Hammen, Heinrich, and L. Musiol, to Siemens-Planawerke Akt. Fuer Kohlefabrikate. Method of impregnating porous graphite and carbon articles. 2,867,545, 1-6-59, Cl. 117-102.
- Hammer, Charles F., to Westinghouse Air Brake Co. Variable load brake control apparatus for railway cars. 2,919,161, 12-29-59, Cl. 303-3.
- Hammer, Ervin J. and O. H. Beet harvester ejection device. 2,888,081, 5-26-59, Cl. 171-58.
- Hammer, Herbert, to Meteor A-G. Ring coiling machine. 2,868,466, 1-13-59, Cl. 242-4.
- Hammer, Irving P.: *See—*  
Martin, James W., Hessel, Hammer, and Rust. 2,875,831.  
Martin, James W., Hessel, Hammer, and Rust. 2,875,832.
- Hammer, Orrin H.: *See—*  
Hammer, Ervin J. and O. H. 2,888,081.
- Hammer, Otto, to Dresser Operations, Inc. Drill bit. 2,885,186, 5-5-59, Cl. 255-314.
- Hammer, Otto, to Dresser Operations, Inc. Rotary disc bit. 2,898,089, 8-4-59, Cl. 255-323.
- Hammer, Richard B. Reflective warning device. 2,869,424, 1-20-59, Cl. 88-81.
- Hammer, Warren H., and L. K. Loomer, to Land-Air, Inc. Data recording camera. 2,906,584, 9-29-59, Cl. 346-110.
- Hammerberg, Chester A., to Armour and Co. Process for the preparation of a rolled meat product. 2,868,650, 1-13-59, Cl. 99-107.
- Hämmerli, Samuel: *See—*  
Kesseling, Fritz, and Hämmerli. 2,897,408.
- Hammerly, Herman J., to General Electric Co. Plug-in type circuit breaker panelboard. 2,897,410, 7-28-59, Cl. 317-119.
- Hammerly, Herman J., to General Electric Co. Electric terminal board connector assembly. 2,905,923, 9-22-59, Cl. 339-198.
- Hammerly, Herman J., to General Electric Co. Circuit breaker panelboard. 2,910,630, 10-27-59, Cl. 317-119.
- Hammerly, Herman J., to General Electric Co. Clamp and fixture support. 2,911,179, 11-3-59, Cl. 248-339.
- Hammers, Louis L. Safety gas shield for service lines. 2,871,113, 1-27-59, Cl. 48-192.
- Hammes, John P., to United States of America, Army. Semiconductor devices. 2,888,619, 5-26-59, Cl. 317-235.
- Hammesfahr, Frederic W., and R. L. Hatch, to General Electric Co. Process for irradiating flat stock organic polymers. 2,914,450, 11-24-59, Cl. 204-154.
- Hammett, Robert B. Multifrequency devices and systems associated therewith. 2,897,451, 7-28-59, Cl. 331-60.
- Hammit, Andrew B., and H. L. Birum, Jr. Door frame assembly. 2,910,154, 10-27-59, Cl. 189-46.
- Hammit, Andrew B., and H. L. Birum, Jr. Frame construction. 2,918,153, 12-22-59, Cl. 189-36.
- Hammon, Robert L.: *See—*  
Bouchard, John R., and Hammon. 2,878,679.
- Hammond, Donald L. Constant temperature oven. 2,906,844, 9-29-59, Cl. 219-19.
- Hammond, Edmund B., Jr.: *See—*  
Harris, Herbert, Jr., Hammond, White, and Giulianelli. 2,873,074.
- Hammond, Frank E., to The Garlock Packing Co. Reinforced expansion joint. 2,879,804, 3-31-59, Cl. 138-56.
- Hammond, Harold W. Eyeshield. 2,890,458, 6-16-59, Cl. 2-13.
- Hammond Iron Works: *See—*  
Fino, Alexander F. 2,873,042.  
Fino, Alexander F. 2,914,212.  
Fino, Alexander F. 2,919,047.  
Swick, John M. 2,913,138.
- Hammond, John H., Jr.: *See—*  
Purinton, Ellison S., and Hammond. 2,908,754.
- Hammond, John H., Jr. Television relay system. 2,875,436, 2-24-59, Cl. 343-202.
- Hammond, John H., Jr. Single frame secrecy facsimile system. 2,889,399, 6-2-59, Cl. 178-5.1.
- Hammond, John H., Jr., and E. L. Chaffe; said Chaffe assor, to said Hammond. Frozen food indicator. 2,915,405, 12-1-59, Cl. 99-192.
- Hammond, John V. Slab conveyor and dumping mechanism. 2,890,789, 6-16-59, Cl. 198-177.
- Hammond, Lee C., to Hammond Machinery Builders, Inc. Brush-type guard for printer's saw. 2,913,926, 11-24-59, Cl. 74-612.
- Hammond, Lee C., to Hammond Machinery Builders, Inc. Elevating and traversing mechanism for a grinding machine. 2,915,857, 12-8-59, Cl. 51-165.
- Hammond, Leonard A., to Nixdorf-Krein Mfg. Co. Swing-hook assembly. 2,900,160, 8-18-59, Cl. 248-341.
- Hammond Machinery Builders, Inc.: *See—*  
Hammond, Lee C. 2,913,926.  
Hammond, Lee C. 2,915,857.  
Robischung, Philip J. 2,900,766.
- Hammond, Milton B., and L. J. Hrusovsky, to Rockwell-Standard Corp. Air spring. 2,902,275, 9-1-59, Cl. 267-31.
- Hammond Organ Co.: *See—*  
Hanert, John M. 2,878,708.  
Hanert, John M. 2,905,040.  
Hanert, John M. 2,916,957.  
Hanert, John M. 2,916,958.
- Hammond, R. Philip: *See—*  
Thamer, Burton J., Bidwell, and Hammond. 2,904,488.
- Hammond, R. Philip, and H. M. Bussey, to United States of America, Atomic Energy Commission. Homogeneous nuclear reactor. 2,874,106, 2-17-59, Cl. 204-193.2.
- Hammond, Robert L. Basin cover. 2,878,091, 3-17-59, Cl. 312-209.
- Hammond, Roland P. Wheel suspensions for railway cars. 2,915,990, 12-8-59, Cl. 105-216.
- Hammond, Russell E., and K. Geduldig,  $\frac{1}{2}$  to Radio Corp. of America, and  $\frac{1}{2}$  to Telefonbau und Normalzeit G.m.b.H. Communication system. 2,887,527, 5-19-59, Cl. 178-2.
- Hamner, Arthur H.: *See—*  
Minton, Robert M., and Hamner. 2,890,847.
- Hamner, Glen P., and C. T. Steele, to Esso Research and Engineering Co. Production of binders for sand cores. 2,910,748, 11-3-59, Cl. 22-193.
- Hamper Specialty Products, Inc.: *See—*  
Panicec, Richard L. 2,897,880.  
Panicec, Richard L. 2,916,085.  
Panicec, Richard L. 2,916,086.
- Hampe, Frank T., to Fargo Mfg. Co., Inc. Anchoring device. 2,902,736, 9-8-59, Cl. 24-126.
- Hampel, Herbert J., to Burroughs Corp. Transducer unit. 2,869,089, 1-13-59, Cl. 336-192.
- Hampel, Herbert J., to Burroughs Corp. Indicating device. 2,874,320, 2-17-59, Cl. 313-109.5.
- Hampel, Herbert J., to Burroughs Corp. Pulse transformer assembly. 2,876,425, 3-3-59, Cl. 336-198.
- Hampel, Kenneth R., to Jervis Corp. Process of bright dipping zinc base alloys. 2,904,413, 9-15-59, Cl. 41-42.
- Hampel, Louis A., and W. J. Wick, to Kolmar Laboratories, Inc. Apparatus for compressing finely divided solids. 2,900,664, 8-25-59, Cl. 18-16.
- Hampf, Edwin F., to Aktiebolaget Harbor. Discharge devices for conveyors for case-goods. 2,872,021, 2-3-59, Cl. 198-74.
- Hamprecht, Guenther, and H. Muehlbauer, to Badische Anilin- & Soda-Fabrik Akt. Production of alkyl aluminium halides. 2,867,643, 1-6-59, Cl. 260-448.
- Hampshire, William J., and R. R. Lepore, to Goodyear Aircraft Corp. Plastic axial-flow compressor for gas turbines. 2,868,439, 1-13-59, Cl. 230-122.
- Hampson, George C., and I. P. Freeman, to Lever Brothers Co. Edible oils. 2,903,369, 9-8-59, Cl. 99-163.
- Hampton, Andrew T., to Darco Industries, Inc. Upsetting method and apparatus. 2,889,448, 6-2-59, Cl. 219-150.
- Hampton, Burt L., to The Glidden Co. Process for upgrading polymerized fatty acid mixtures. 2,894,939, 7-14-59, Cl. 260-97.7.



- Hampton, Harry D. Well bore inclinometer. 2,887,298, 5-19-59, Cl. 255-1.
- Hampton, William J., to Addressograph-Multigraph Corp. Printing machines. 2,868,121, 1-13-59, Cl. 101-336.
- Hampton, William J., to Addressograph-Multigraph Corp. Printing machines. 2,889,768, 6-9-59, Cl. 101-65.
- Hamren, Arvid J. Air-conveyor. 2,882,097, 4-14-59, Cl. 302-29.
- Hamrick, Ithiel V. Automatic fishing device. 2,918,746, 12-29-59, Cl. 43-15.
- Hamrick, Jack: *See*—
- Ball, Gaines L., and Hamrick. 2,897,575.
- Hamrick, Joseph T.: *See*—
- Anderson, Robert J., and Hamrick. 2,893,204.
- Hamway, Edward G.: *See*—
- Lott, De Forest, and Hamway. 2,875,115.
- Hanauer, Stephen H.: *See*—
- Epler, Elbert P., Hanauer, and Oakes. 2,911,344.
- Hancke, Dieter: *See*—
- Thurman, Astor L., and Hancke. 2,868,348.
- Hancock, Charles L. Line holder float. 2,915,847, 12-8-59, Cl. 43-43.11.
- Hancock, Chastain G. Poultry feather-plucking device. 2,894,279, 7-14-59, Cl. 17-11.1.
- Hancock, Dorothy L., and M. A. Longmire. Diaper laundry attachment for toilet bowls. 2,882,708, 4-21-59, Cl. 68-235.
- Hancock Industries, Inc.: *See*—
- Baker, Albert F. 2,911,248.
- Marple, Rollo. 2,883,847.
- Hancock, James L., to General Motors Corp. Vent cap for electrolytic condenser. 2,881,368, 4-7-59, Cl. 317-230.
- Hancock, John E., to The Gadget-of-The-Month Club, Inc. De-fouling anchor. 2,873,711, 2-17-59, Cl. 114-206.
- Hancock, Ralph H., to Rolls-Royce Ltd. Casting processes. 2,883,724, 4-28-59, Cl. 22-196.
- Hancock, Richard H., to General Motors Corp. Air suspension. 2,893,104, 7-7-59, Cl. 267-15.
- Hancock, Robert D., to Northrop Aircraft, Inc. Distortion indicator. 2,870,430, 1-20-59, Cl. 340-149.
- Hancock, William M., to Western Electric Co., Inc. Wire dispenser. 2,881,947, 4-14-59, Cl. 221-34.
- Hand, Eugene E., to High Voltage Engineering Corp. Charge transferring means for electrostatic generators. 2,885,599, 5-5-59, Cl. 317-2.
- Hand, John J.: *See*—
- Bullock, Milton W., and Hand. 2,883,420.
- Bullock, Milton W., and Hand. 2,901,506.
- Hand, Leslie T., and J. N. Macy. Method of and apparatus for forming folded paper stacks. 2,918,277, 12-22-59, Cl. 270-73.
- Hand, Walter. Voltage responsive instrument for test equipment. 2,913,666, 11-17-59, Cl. 324-125.
- Handel, Neil E.: *See*—
- Sturgeon, Stocker S., and Handel. 2,867,119.
- Handel, Neil E., to Industrial Nucleonics Corp. Phase detector. 2,875,404, 2-24-59, Cl. 324-87.
- Handen, Carl, to International Business Machines Corp. Circuit package. 2,898,522, 8-4-59, Cl. 317-101.
- Han-D-Hook, Inc.: *See*—
- Longfellow, Harold W. 2,898,657.
- Handi-Mugs Inc.: *See*—
- Dungey, James. 2,881,952.
- Handler, Albert B. Method of packing fruits and vegetables. 2,911,307, 11-3-59, Cl. 99-186.
- Handler, Alois: *See*—
- Malek, Georg. 2,918,854.
- Handler, Elliot. Musical toy vehicle. 2,908,997, 10-20-59, Cl. 46-111.
- Handler, Milton E.: *See*—
- Ferdinand, Irwin J., and Handler. 2,895,241.
- Handley, John, to Lincoln Electric Co. Ltd. Apparatus for welding pipes. 2,887,972, 5-26-59, Cl. 113-59.
- Handley, Mabel P.: *See*—
- Sawyer, Carl W., and Handley. 2,894,804.
- Handley, Robert W.: *See*—
- Sawyer, Carl W., and Handley. 2,894,804.
- Handley, Thomas J., to Britains Ltd. Toy guns. 2,917,038, 12-15-59, Cl. 124-29.
- Handwerk, Joseph H., and R. A. Bach, to United States of America, Atomic Energy Commission. Method of preparing a fuel element for a nuclear reactor. 2,900,263, 8-18-59, Cl. 106-39.
- Handy, Carleton T., and H. S. Rothrock, to E. I. du Pont de Nemours and Co. Light stable composition containing a blend of a synthetic rubber and a salicylate polymer. 2,883,361, 4-21-59, Cl. 260-45.3.
- Handy, Carleton T., and H. S. Rothrock, to E. I. du Pont de Nemours and Co. Polymeric butadiene peroxide. 2,898,377, 8-4-59, Cl. 260-610.
- Handy, Richard L., and D. T. Davidson, to Iowa State College Research Foundation, Inc. Soil testing apparatus. 2,877,647, 3-17-59, Cl. 73-149.
- Hanebeck, Emil F. G., to Clayton Dewandre Co. Ltd. Exhaust braking apparatus for motor vehicles. 2,895,571, 7-21-59, Cl. 188-99.
- Hanek, Alexander: *See*—
- Wollentin, Alvin O., and Hanek. 2,885,528.
- Haneklaus, Karl: *See*—
- Tacke, Albert, and Haneklaus. 2,871,682.
- Hanel, Rudolf A., and R. A. Stampfl, to United States of America, Army. High impedance transistor circuits. 2,881,269, 4-7-59, Cl. 179-171.
- Hanell, Erik S., and B. Sundbeck, to AB Ferrosan. Alpha-alkyl-propionophenones. 2,904,591, 9-15-59, Cl. 260-570.5.
- Hanert, John M., to Hammond Organ Co. Capacitative switching apparatus. 2,878,708, 3-24-59, Cl. 84-1.08.
- Hanert, John M., to Hammond Organ Co. Method and apparatus for producing chorus effects in music. 2,905,040, 9-22-59, Cl. 84-1.24.
- Hanert, John M., to Hammond Organ Co. Reiterating percussive effect apparatus for electronic musical instruments. 2,916,957, 12-15-59, Cl. 84-1.26.
- Hanert, John M., to Hammond Organ Co. Percussive effect for electrical music instruments. 2,916,958, 12-15-59, Cl. 84-1.26.
- Hanes, Francis P., to United States of America, Army. Liquid level telemetering device. 2,906,026, 9-29-59, Cl. 33-126.
- Hanes Hosiery Mills Co.: *See*—
- Stack, Vernon T. 2,884,775.
- Hanes, James W. E., to Huntsinger Associates. Well pipe and flexible joints therefor. 2,900,028, 8-18-59, Cl. 166-242.
- Hanes, Vaughn D., to Aerojet-General Corp. Jet type bailer with gas generating mechanism. 2,915,125, 12-1-59, Cl. 166-63.
- Hanes, Vaughn D., and J. D. Chesnut, to Aerojet-General Corp. Jet type bailer with gas generating mechanism. 2,909,225, 10-20-59, Cl. 166-63.
- Haney, Marcus D., Jr., and L. Ambruster, to E. I. du Pont de Nemours and Co. Treatment of cellulosic fiber, and composition therefor. 2,911,326, 11-3-59, Cl. 117-139.4.
- Haney, Roy E. D., to Esso Research and Engineering Co. Fluidized solids town gas manufacturing process. 2,912,315, 11-10-59, Cl. 48-214.
- Haney, Thomas A., to Olin Mathieson Chemical Corp. Process of purifying pyrethrin extracts. 2,867,649, 1-6-59, Cl. 260-468.
- Haney, Thomas A., to Olin Mathieson Chemical Corp. Process for purification of crude pyrethrum extracts. 2,876,249, 3-3-59, Cl. 260-468.
- Haney, Thomas A., to Olin Mathieson Chemical Corp. Process for purification of crude pyrethrum extracts. 2,876,250, 3-3-59, Cl. 260-468.
- Hanf, Wilhelm, to Rheinische Gummi- und Celluloid-Fabrik. Sound producing device. 2,904,931, 9-22-59, Cl. 46-184.
- Hanff, Edward A., to Swindell-Dressler Corp. Magnetomotive agitator for molten metal baths or the like. 2,875,261, 2-24-59, Cl. 13-26.
- Hanford, Carlton M., to The Carborundum Co. Coated abrasive article and method of making. 2,873,181, 2-10-59, Cl. 51-298.
- Hanford, Richard W., to Link Aviation, Inc. Direct current amplifier. 2,906,830, 9-29-59, Cl. 179-171.
- Hanford, William E., to Minnesota Mining and Mfg. Co. Polytrifluoroethoxyethylene and barium peroxide. 2,874,142, 2-17-59, Cl. 260-45.7.
- Hanford, William E., to Minnesota Mining and Mfg. Co. Polyperfluoroethoxyethylene and lead dioxide. 2,874,144, 2-17-59, Cl. 260-45.75.
- Hanford, William E., to The M. W. Kellogg Co. Production of organic phosphonyl halide. 2,882,316, 4-14-59, Cl. 260-543.
- Hanford, William E., to Minnesota Mining and Mfg. Co. Oxidizing baths containing perchlorofluorocarboxylates. 2,904,515, 9-15-59, Cl. 252-186.
- Hanft, Kenneth E.: *See*—
- Wilde, Dale K., Morris, and Hanft. 2,885,588.
- Hanhart, Walter, to Ciba Ltd. Polyazo-dyestuffs. 2,870,136, 1-20-59, Cl. 260-173.
- Hanin, Mireille, and J. Voeltzel, to Institut de Recherches de la Siderurgie. Toepler pumps. 2,902,208, 9-1-59, Cl. 230-83.
- Hanington, Charles A. Spurt shield for can openers. 2,867,900, 1-13-59, Cl. 30-16.
- Hanink, Dean K.: *See*—
- Thomson, Robert F., Shoudy, and Hanink. 2,885,304.
- Hanink, Dean K., to General Motors Corp. Valve. 2,881,750, 4-14-59, Cl. 123-188.
- Hanink, Dean K., to General Motors Corp. Apparatus for removing excess coating from a poppet valve. 2,893,349, 7-7-59, Cl. 118-63.
- Hanink, Dean K., and J. C. Holzwarth, to General Motors Corp. Method of hot working titanium. 2,903,785, 9-15-59, Cl. 29-156.8.
- Hanisian, John: *See*—
- King, Charles C., and Hanisian. 2,886,611.
- Hankin, John H., Jr., to S. N. Orcutt, trading as J. J. Cress Co. of New Jersey. Potter's wheel and mechanism. 2,902,741, 9-8-59, Cl. 25-24.
- Hankins, Cyrus, to Unicast Corp. Hopper door locking mechanism. 2,891,487, 6-23-59, Cl. 105-308.
- Hankins, Elinor M., to Rohm & Haas Co. Polymers of substituted heterocyclic urea compounds. 2,881,155, 4-7-59, Cl. 260-77.5.
- Hankins, Elinor M., to Rohm & Haas Co. New heterocyclic compounds, polymers thereof and methods of making them. 2,881,171, 4-7-59, Cl. 260-256.4.
- Hankins, Elinor M., to Rohm & Haas Co. Acrylyl diacylamides and polymers thereof. 2,891,932, 6-23-59, Cl. 260-80.5.



- Hankins, Elinor M., and S. Melamed, to Rohm & Haas Co. Polymers, copolymers, and processes for preparing them. 2,871,223, 1-27-59, Cl. 260-70.
- Hankins, William C., to Rotax Ltd. Protective means for use in an electric system supplied by an inverter. 2,911,583, 11-3-59, Cl. 321-31.
- Hankoff, Harry N. Trouser leg supporting device. 2,869,138, 1-20-59, Cl. 2-311.
- Hankoff, Harry N. Table grill. 2,910,930, 11-2-59, Cl. 99-421.
- Hanks, Charles W. C. D. A. Hunt, and H. R. Smith, Jr., to Stauffer Chemical Co. Vacuum casting. 2,880,483, 4-7-59, Cl. 22-57.2.
- Hanks, Frederick W. Fluid meter. 2,911,827, 11-10-59, Cl. 73-262.
- Hanks, Harry C. Belt-tensioning mechanism. 2,910,879, 11-3-59, Cl. 74-242.14.
- Hankus, Chester P., to Revlis Co. Packaging device. 2,887,220, 5-19-59, Cl. 206-65.
- Hankus, Chester P., to Revlis Co. Artificial tree. 2,889,650, 6-9-59, Cl. 41-15.
- Hanle, John E., A. M. Tringali, and H. Yuska, to Interchemical Corp. Copolymers of the fatty acid ester of a phenoxy ethanol-formaldehyde condensation product and an ethylenic monomer. 2,880,187, 3-31-59, Cl. 260-19.
- Hänlein, Walter: *See—*  
Müller, Hans J., and Hänlein. 2,910,805.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Method of manufacturing semi-conducting materials. 2,880,117, 3-31-59, Cl. 117-200.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Electroluminescence devices. 2,883,582, 4-21-59, Cl. 315-169.
- Hanlet, Jacques M. N., to Centre d'Etudes et de Developpements de l'Electronique, CEDEL. Ionic discharge devices. 2,892,964, 6-30-59, Cl. 315-55.
- Hanlet, Jacques M. N., to Centre d'Etudes et de Developpements de l'Electronique, CEDEL. Ionic discharge tubes. 2,892,967, 6-30-59, Cl. 315-168.
- Hanlet, Jacques M. N., to Centre d'Etudes Et De Developpements De L'Electronique, CEDEL. Method of manufacturing photoconductive and rectifying elements. 2,899,372, 8-11-59, Cl. 204-192.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Method of making electroluminescent layers. 2,917,442, 12-15-59, Cl. 204-192.
- Hanlet, Jacques M. N., to Societe d'Electronique et d'Automatisme. Information stores. 2,919,377, 12-29-59, Cl. 315-12.
- Hanlet, Jacques M. N., J. Heinisch, and R. Loven, to CEDEL, Centre d'Etudes et de Developpements de l'Electronique. Method and means for measuring the frequency of an electrical oscillation. 2,919,402, 12-29-59, Cl. 324-78.
- Hanley, Roy P., to United States Steel Corp. Hand tool for flame-hardening gear teeth. 2,876,000, 3-3-59, Cl. 266-4.
- Hanley, William R., to United States of America, Atomic Energy Commission. Volatile chloride process for the recovery of metal values. 2,867,501, 1-6-59, Cl. 23-14.5.
- Hanlin, Robert A., to H & H Products, Inc. Light shade. 2,878,371, 3-17-59, Cl. 240-47.
- Hanlo Gage Co.: *See—*  
Lovenston, Hans J. 2,883,755.
- Hanlon, Albert J., to Polaroid Corp. Bounce flash adapter. 2,898,447, 8-4-59, Cl. 240-1.3.
- Hanlon, Joseph F., to Johnson & Johnson. Tape dispenser. 2,889,975, 6-9-59, Cl. 225-19.
- Hanlon & Wilson Co.: *See—*  
Wilson, John R. 2,872,164.
- Hanner, Robert S.: *See—*  
Carroll, James H., and Hanner. 2,872,438.
- Hann, Gordon E., to The Tremco Mfg. Co. Glazing method and glazing nozzle. 2,903,739, 9-15-59, Cl. 18-3.5.
- Hann, Melvin M.: *See—*  
Lundgren, Bruce H., and Hann. 2,896,546.
- Hann, Melvin M., to Sundstrand Machine Tool Co. Hydraulic control system for a refrigeration drive. 2,888,810, 6-2-59, Cl. 62-215.
- Hann, Melvin M., to Sundstrand Corp. Drive for refrigeration systems or the like. 2,916,880, 12-15-59, Cl. 60-53.
- Hann, Paul D., to Phillips Petroleum Co. Utilization of alkylation by-products. 2,872,493, 2-3-59, Cl. 260-677.
- Hann, Paul D., to Phillips Petroleum Co. Breaking crude oil emulsions. 2,907,717, 10-6-59, Cl. 252-325.
- Hann, Victor A., to The Welsbach Corp. Prevention of combustion in oxygen-ozone mixtures. 2,874,164, 2-17-59, Cl. 260-339.
- Hanna, Clinton R., and W. O. Osbon, to United States of America, Navy. Hovering apparatus for submarines and other buoyant objects. 2,887,976, 5-26-59, Cl. 114-16.
- Hanna, Douglas H.: *See—*  
Vaughan, James L. B., Hislop, and Hanna. 2,890,136.  
Vaughan, James L. B., Hislop, and Hanna. 2,890,137.
- Hanna, Edward C., to Landis Machine Co. Relieved thread rolling die. 2,896,484, 7-28-59, Cl. 80-6.
- Hanna Engineering Works: *See—*  
Hallerstrom, Harold C. 2,870,744.
- Hanna, M. A. Co., The: *See—*  
Vidmar, John P. 2,869,716.
- Hanna, Ralph: *See—*  
De Coriolis, Ernest G., Hanna, and Peters. 2,893,237.
- Hannable, Daniel W., to United Shoe Machinery Corp. Panel unloading machines. 2,891,688, 6-23-59, Cl. 214-310.
- Hannable, Daniel W., to United Shoe Machinery Corp. Panel assembly apparatus. 2,906,010, 9-29-59, Cl. 29-203.
- Hannah, Alexander, to Wyandotte Chemicals Corp. Stripping resin paints. 2,898,246, 8-4-59, Cl. 134-38.
- Hannah, Wallace H. Knockdown supporting structure. 2,911,265, 11-3-59, Cl. 182-181.
- Hannahs, Wilson H., to Sylvania Electric Products Inc. Printed circuit. 2,884,571, 4-28-59, Cl. 317-101.
- Hannay, Clifford B., and Son, Inc.: *See—*  
Hannay, Dwight C. and G. A. 2,906,472.
- Hannay, Dwight C. and G. A., to Clifford B. Hannay and Son, Inc. Hose reel with brake. 2,906,472, 9-29-59, Cl. 242-99.
- Hannay, George A.: *See—*  
Hannay, Dwight C. and G. A. 2,906,472.
- Hanner, John B.: *See—*  
Grinstead, Sanford R., and Hanner. 2,918,767.
- Hanni, Eduard. Press. 2,916,987, 12-15-59, Cl. 100-231.
- Hannibal, Joseph O., Jr., to International Business Machines Corp. Print checking circuit for accounting machines. 2,909,995, 10-27-59, Cl. 101-93.
- Hannig, Kurt: *See—*  
Grassmann, Wolfgang, and Hannig. 2,888,392.
- Hannigan, Joseph E., to Cleveland Pneumatic Industries, Inc. Hatch cover actuator. 2,906,324, 9-29-59, Cl. 160-188.
- Hannigan, Joseph E., to Cleveland Pneumatic Industries, Inc. Power actuated hatchcover. 2,906,325, 9-29-59, Cl. 160-188.
- Hannigan, Joseph E., to Cleveland Pneumatic Industries, Inc. Hatchcover operating system. 2,906,326, 9-29-59, Cl. 160-188.
- Hannigsberg, Claude: *See—*  
Weill, Camille, Hannigsberg, and Adelaar. 2,901,603.
- Hanninen, Ida. Wall sponge. 2,867,832, 1-13-59, Cl. 15-244.
- Hannon, Gilbert H., to H. G. Weber & Co., Inc. Transmission mechanism employing pivotally mounted rotatable disk means for controlling speed variations. 2,881,628, 4-14-59, Cl. 74-393.
- Hannon, Gilbert H., and J. M. De Nucci, to L. D. Schreiber & Co., Inc. Device for pressing and molding plastic food products. 2,884,694, 5-5-59, Cl. 31-30.
- Hannon, Gilbert H., and J. M. De Nucci, to L. D. Schreiber & Co., Inc. Device for pressing and molding plastic food products employing cooperating forming blades. 2,903,793, 9-15-59, Cl. 31-30.
- Hannoosh, Mitchell M.: *See—*  
Schlansker, Kermit C., and Hannoosh. 2,892,157.
- Hannula, Fred W., to The Foxboro Co. Mechanically balanced servosystem. 2,876,404, 3-3-59, Cl. 318-22.
- Hannum, Albert K.: *See—*  
Hall, George V. B., Sampietro, and Hannum. 2,891,718.
- Hannum, Clair T., and H. W. Schramm, to Surface Combustion Corp. Heat treating furnace having double-ended chain conveyor. 2,898,101, 8-4-59, Cl. 266-4.
- Hannum, Frank W.: *See—*  
Smith, Ralph E., Hannum, and Booth. 2,905,194.
- Hanny, William F., to United Aircraft Corp. O-ring pressure seal. 2,898,000, 8-4-59, Cl. 220-46.
- Hanold, Paul A.: *See—*  
Foster, Jack V., and Hanold. 2,917,598.
- Hanomag Aktiengesellschaft: *See—*  
Nuebling, Otto. 2,899,937.
- Wessendorf, Hermann. 2,904,116.
- Hanover Associates, Inc.: *See—*  
Beck, Lawrence J. 2,893,017.
- Hanrahan, William I. Fluted coupler disc. 2,908,338, 10-13-59, Cl. 172-555.
- Hans, Edmund E., and D. F. Wuerfel, said Wuerfel assor. to said Hans. Fans. 2,906,349, 9-29-59, Cl. 170-173.
- Hans, Fritz: *See—*  
Lang, Kurt, Barthel, Ladewig, Hans, Reichelt, Klaus, and Schädlich. 2,916,771.
- Hansberg, Fritz. Clamping device for molding apparatus. 2,892,313, 6-30-59, Cl. 60-54.5.
- Hansburg, George B. Combined seat, table and walking unit for infants. 2,910,111, 10-27-59, Cl. 155-22.
- Hansburg, Milton: *See—*  
Potosky, Maurice, Davis, and Hansburg. 2,886,773.
- Hansburg, Milton. Delay circuit for "on-off" servo system. 2,877,401, 3-10-59, Cl. 318-400.
- Hansburg, Milton. Autopilot and circuit for converting a D.C. control signal voltage to an A.C. control signal voltage. 2,891,208, 6-16-59, Cl. 318-489.
- Hanscom, Floyd C. Safety valve. 2,906,286, 9-29-59, Cl. 137-460.
- Hansel, Otto, and H. Lesch. Stacking apparatus. 2,872,020, 2-3-59, Cl. 198-35.
- Hansel, Paul G., to Servo Corp. of America. Frequency control means. 2,891,157, 6-16-59, Cl. 250-36.
- Hansell, Clarence W., to Radio Corp. of America. Radio transmitter with fixed tune amplifier stages. 2,894,123, 7-7-59, Cl. 250-17.
- Hansell, Grant E., to Radio Corp. of America. Diversity reception. 2,888,554, 5-26-59, Cl. 250-8.
- Hansell, Paul D.: *See—*  
O'Maler, John B., Barnes, and Hansell. 2,905,828.



- Hanselmann, Karl, to J. M. Voith G.m.b.H. Maschinenfabrik. Power transmitting arrangement in a locomotive. 2,902,946, 9-8-59, Cl. 105-62.
- Hansen, Bernard. Heat saving unit. 2,890,866, 6-16-59, Cl. 257-166.
- Hansen, Calvin: *See*—  
Salisbury, John D., Klein, and Hansen. 2,883,536.
- Hansen, Carl. Crab traps. 2,901,859, 9-1-59, Cl. 43-105.
- Hansen, Carl W., and J. F. Kozlow, to General Electric Co. Filter means for penetrating rays. 2,901,631, 8-25-59, Cl. 250-86.
- Hansen, Charles W.: *See*—  
Christensen, Donald J., Hansen, and Richardson. 2,892,571.
- Hansen, Charles W. Auger conveyor. 2,867,314, 1-6-59, Cl. 198-64.
- Hansen, Donald J. Dispensing valve mechanism. 2,877,798, 3-17-59, Cl. 137-627.5.
- Hansen, Edward J., to The Hansen Mfg. Co. Safety seal. 2,898,130, 8-4-59, Cl. 285-96.
- Hansen, Elmer K. Mixing and unloading device. 2,885,191, 5-5-59, Cl. 259-8.
- Hansen, Emil C.: *See*—  
Bergman, Carl A., and Hansen. 2,877,178.
- Hansen, Ernest W.: *See*—  
Dinnison, Arthur D., Wamsley, and Hansen. 2,902,935.
- Hansen, Floyd R., and B. Zaremsky, to Ferro Chemical Corp. Vinyl chloride resin stabilized with 2-ethyl hexyl aryl phosphites. 2,867,594, 1-6-59, Cl. 260-23.
- Hansen, Franklin A., and J. H. Boetjer, to Black, Sivalls & Bryson, Inc. Relief valve. 2,872,938, 2-10-59, Cl. 137-493.9.
- Hansen, Fred, and N. A. Plati. Clothesline equipment. 2,914,188, 11-24-59, Cl. 211-119.15.
- Hansen, George C. Disposable diaper. 2,916,037, 12-8-59, Cl. 128-284.
- Hansen, George E.: *See*—  
Carr, Edward W., and Hansen. 2,908,288.
- Hansen, George E., to Crane Co. Thermal control device for container. 2,896,851, 7-28-59, Cl. 236-93.
- Hansen, George E., and E. W. Carr, to Crane Co. Temperature and pressure relief valve assembly. 2,868,460, 1-13-59, Cl. 236-92.
- Hansen, George R., to The Carborundum Co. Refractory bodies and method of making the same. 2,897,572, 8-4-59, Cl. 25-156.
- Hansen, Gerhard, to C. Zeiss. Means for guiding and supporting members requiring precision movement, particularly microscope tables. 2,909,099, 10-20-59, Cl. 88-39.
- Hansen, Hans C. Record changing phonographs. 2,891,409, 6-23-59, Cl. 74-200.
- Hansen, Hans E., to Westinghouse Electric Corp. Handrail structure for moving stairways. 2,885,057, 5-5-59, Cl. 198-16.
- Hansen, Hans E., to Westinghouse Electric Corp. Moving stairway. 2,905,308, 9-22-59, Cl. 198-16.
- Hansen, Hans H.: *See*—  
Seeloff, Melvin M., and Hansen. 2,913,568.
- Hansen, Hans R. A.: *See*—  
Bradburn, William J., Jr., Conger, and Hansen. 2,884,578.
- Bradburn, William J., Jr., and Hansen. 2,882,480.
- Norman, Horace M., and Hansen. 2,899,617.
- Hansen, Harding B., W. C. Sealey, S. S. Stenersen, and K. P. Wiederkehr, to Allis-Chalmers Mfg. Co. Method of transformer assembly using divided tank and banding plate. 2,870,525, 1-27-59, Cl. 29-155.58.
- Hansen, Harold, Jr., 50% to S. Hansen, and 50% to A. E. Utsler. Emergency brake. 2,878,902, 3-24-59, Cl. 188-77.
- Hansen, Harold V.: *See*—  
Oehler, William P., and Hansen. 2,906,436.
- Oehler, William P., and Hansen. 2,919,078.
- Hansen, Harry. Slide fasteners. 2,878,541, 3-24-59, Cl. 24-205.13.
- Hansen, Harry. Machine for shaping a string or band into serpentine-like configuration. 2,903,745, 9-15-59, Cl. 18-19.
- Hansen, Harry. Slide fasteners. 2,907,088, 10-6-59, Cl. 24-205.13.
- Hansen, Harry. Slide fasteners. 2,910,755, 11-3-59, Cl. 24-205.1.
- Hansen, Harry A., W. F. Paterson, and C. L. Peters, to Radio Corp. of America. Variable capacitor. 2,913,645, 11-17-59, Cl. 317-249.
- Hansen, Herman E., to Congoleum-Nairn Inc. Counter construction. 2,890,919, 6-16-59, Cl. 311-106.
- Hansen, Howard J., to The Hansen Mfg. Co. Bayonet lock coupling. 2,896,977, 7-28-59, Cl. 285-277.
- Hansen, James F.: *See*—  
Schaffert, Roland M., and Hansen. 2,901,349.
- Hansen, Johannes H. Extension slide for tables and desks. 2,891,350, 6-23-59, Cl. 45-81.
- Hansen, Johannes P., to Southern States Equipment Corp. Fiber handling device. 2,876,502, 3-10-59, Cl. 19-159.
- Hansen, John G., R. H. Rugaber, and J. P. Welsh, to General Dynamics Corp. Mechanical character display device for electronic means. 2,896,845, 7-28-59, Cl. 235-132.
- Hansen, Julian E., to General Dynamics Corp. Electrical contacting device. 2,905,774, 9-22-59, Cl. 200-11.
- Hansen, Kai H.: *See*—  
Bertsch, Joseph F., Hansen, and Schilling. 2,916,284.
- Hansen, Lewis C., to W. A. Sheaffer Pen Co. Operating mechanism for a writing instrument. 2,898,885, 8-11-59, Cl. 120-42.3.
- Hansen, Lloyd D., and T. L. Hordosi, to Western Electric Co., Inc. Test set. 2,895,104, 7-14-59, Cl. 324-51.
- Hansen-Lynn Co., Inc.: *See*—  
Curtin, John M. 2,917,945.
- Huelden, Heinrich. 2,870,967.
- Huelden, Heinrich. 2,870,968.
- Hansen Mfg. Co., The: *See*—  
Hansen, Howard J. 2,896,977.
- Hansen, Howard J. 2,898,130.
- Hansen, Melvin O., to Owens-Illinois Glass Co. Surface decorating apparatus. 2,885,957, 5-12-59, Cl. 101-124.
- Hansen, Oliver H. Means and method for fastening wood members together. 2,883,720, 4-28-59, Cl. 20-92.
- Hansen, Oscar A. Process and apparatus for separating the foremost one of a stack of nested cup-shaped caps from the remainder of the stack and conveying it to a position at a distance from the stack. 2,914,894, 12-1-59, Cl. 53-38.
- Hansen, Quinton A., to Fuller Mfg. Co. Synchronizer utilizing coil spring engaging member. 2,884,106, 4-28-59, Cl. 192-81.
- Hansen, Ralph D. Window locking mechanism. 2,885,238, 5-5-59, Cl. 292-87.
- Hansen, Robert L.: *See*—  
Childers, Spencer L., and Hansen. 2,890,813.
- Hansen, Siegfried, to Litton Industries, Inc. Analog-to-difunction converters. 2,885,662, 5-5-59, Cl. 340-347.
- Hansen, Siegfried, to Litton Industries of California. Bellows units for flexible pressurized conduits. 2,886,066, 5-12-59, Cl. 138-49.
- Hansen, Siegfried, to Litton Industries of California. Flexible pressurized conduit. 2,894,535, 7-14-59, Cl. 138-49.
- Hansen, Siegfried. Feedback circuits for storage tubes. 2,896,110, 7-21-59, Cl. 315-12.
- Hansen, Siegfried, and A. D. Le Vantine, to Litton Industries of California. Hose communication system. 2,917,987, 12-22-59, Cl. 98-1.
- Hansen, Stella: *See*—  
Hansen, Harold, Jr. 2,878,902.
- Hansen, Theodore A., to Teletype Corp. Transistor oscillatory control circuit. 2,912,654, 11-10-59, Cl. 331-117.
- Hansen, Wilbur W., to United States of America, Navy. Position indicator. 2,906,883, 9-29-59, Cl. 250-203.
- Hansen, Woodrow C. Cam actuated clutch. 2,901,070, 8-25-59, Cl. 192-34.
- Hanser, Charles A.: *See*—  
Kuhn, Robert A., and Hanser. 2,887,799.
- Hansford, Rowland C., to Union Oil Co. of California. Hydrocracking process. 2,885,349, 5-5-59, Cl. 208-109.
- Hansford, Rowland C., to Union Oil Co. of California. Desulfurization process and catalyst. 2,911,359, 11-3-59, Cl. 208-213.
- Hansford, Rowland C., to Union Oil Co. of California. Production of high activity alumina. 2,917,366, 12-15-59, Cl. 23-143.
- Hansford, Rowland C., and D. A. Young, to Union Oil Co. of California. Hydrocracking catalyst and process. 2,873,246, 2-10-59, Cl. 208-68.
- Hansley, Virgil L.: *See*—  
Schott, Stuart, and Hansley. 2,880,084.
- Hansley, Virgil L., and S. Schott, to National Distillers and Chemical Corp. Reduction of fatty acid esters to produce alcohols. 2,915,564, 12-1-59, Cl. 260-638.
- Hansley, Virgil L., H. Greenberg, and S. Schott, to National Distillers and Chemical Corp. Metal halide production. 2,916,351, 12-8-59, Cl. 23-87.
- Hanson, Alan R.: *See*—  
Congdon, George L., Barta, and Hanson. 2,879,509.
- Hanson, Alden W.: *See*—  
Donaldson, Walter E., and Hanson. 2,899,708.
- Hanson, Alfred H. Combination bar tool. 2,886,994, 5-19-59, Cl. 81-3.35.
- Hanson, Arthur F., to United States Steel Corp. Auxiliary support for cable hoist suspended apparatus. 2,917,195, 12-15-59, Cl. 214-658.
- Hanson, Austin M.: *See*—  
Malzahn, Ronald C., Phillips, and Hanson. 2,876,169.
- Hanson, Clark L., to International Harvester Co. Baffle plates for fertilizer distributor. 2,881,957, 4-14-59, Cl. 222-233.
- Hanson, Clifford O. Outrigger assembly. 2,918,181, 12-22-59, Cl. 212-145.
- Hanson, Einar H., and K. G. Strom, to Prime Mfg. Co. Adjustable sole gauge for rib applying machine. 2,903,723, 9-15-59, Cl. 12-20.
- Hanson, Ellis P., R. A. Higonnet, L. M. Moyroud, and A. Manevitz, to Graphic Arts Research Foundation, Inc. Type composing apparatus. 2,910,163, 10-27-59, Cl. 197-19.
- Hanson, Elwood W., J. Drew, and L. Cagnolatti, to Crosby Chemicals, Inc. Tall oil fractionating process. 2,886,492, 5-12-59, Cl. 202-52.
- Hanson Equipment Co.: *See*—  
Hegstad, Lester O. 2,893,416.
- Hanson, Estyle D., to Western Electric Co., Inc. Article-assembling apparatus. 2,888,735, 6-2-59, Cl. 29-25.3.
- Hanson, Estyle D., to Western Electric Co., Inc. Variable speed distributor. 2,900,145, 8-18-59, Cl. 242-158.2.
- Hanson, Eugene O., to Radio Corp. of America. Electrode assembly. 2,877,370, 3-10-59, Cl. 313-82.



- Hanson, Eugene O., and J. L. Shrontz, to Radio Corp. of America. Beading fixture. 2,871,621, 2-3-59, Cl. 49-1.
- Hanson, Frances H. Packaging means for butter and butter substitutes. 2,884,155, 4-28-59, Cl. 220-23.4.
- Hanson, Harry I., to Good Roads Machinery Corp. Suction road cleaning machine. 2,887,714, 5-26-59, Cl. 15-340.
- Hanson, Herbert G., and R. E. Poethig, to The Bastian-Blessing Co. Pressure filler control. 2,916,060, 12-8-59, Cl. 141-225.
- Hanson, James S., and A. L. Naylor, to The Fairbanks Co. Adjustable spring-loaded caster. 2,915,776, 12-8-59, Cl. 16-44.
- Hanson, Lars, and K. M. Gerteis, to Carrier Corp. Capacity control for reciprocating compressors. 2,917,225, 12-15-59, Cl. 230-2.
- Hanson, Oliver M. Pleat forming curtain hanger. 2,895,194, 7-21-59, Cl. 24-84.
- Hanson, Reuben J., and C. E. Buros. Hat storage rack. 2,884,297, 4-28-59, Cl. 312-304.
- Hanson, Ross A., to Union Oil Co. of California. Hydrocracking of hydrocarbons with reaction conditions dependent on nitrogen content of feed. 2,911,356, 11-3-59, Cl. 208-110.
- Hanson, Ross A., to Union Oil Co. of California. Coking process. 2,913,395, 11-17-59, Cl. 208-87.
- Hanson, Theodore L.: *See—*
- Gore, Le Roy D., Hanson, and McBride. 2,907,547.
- Hanson, Theodore L., and L. D. Gore, to The Vendo Co. Empty indicating device and gas purging system for drink vending machines. 2,880,910, 4-7-59, Cl. 222-65.
- Hanson, Theodore L., and D. W. McBride, to The Vendo Co. Dispensing trap having flexible walls. 2,903,165, 9-8-59, Cl. 222-447.
- Hanson, Thomas P. Debarking-drum construction. 2,897,858, 8-4-59, Cl. 144-208.
- Hanson-Van Winkle-Munning Co.: *See—*
- Brown, Oliver J., Jr., and Miller. 2,918,069.
- Foulke, Donald G., Kardos, and Koretzky. 2,881,121.
- Foulke, Donald G., Kardos, and Koretzky. 2,881,122.
- Hauck, Paul A. 2,885,055.
- Hauck, Paul A. 2,902,181.
- Kardos, Otto, and Neumann. 2,879,211.
- Hanson, Victor F.: *See—*
- Bugbee, Stuart J., Hanson, and Babcock. 2,872,400.
- Hanson, Victor G., to International Cigar Machinery Co. Cigar mouthpiece feed. 2,891,557, 6-23-59, Cl. 131-88.
- Hanson, Walter J.: *See—*
- Strother, John A., Hanson, and Beytes. 2,887,951.
- Hanssen, Oktor M., to A/S Ardal og Sunddal Verk. Method and arrangement for regulating the electrical effect to electrolysis furnaces coupled in series, particularly for the production of aluminium. 2,904,490, 9-15-59, Cl. 204-225.
- Hanstein, Walter: *See—*
- Misbin, Ted J., Hanstein, and Frederick. 2,887,315.
- Hanthorn, Horace F., and W. M. Stobbe, to Radio Corp. of America. Variable voltage switching device. 2,884,587, 4-28-59, Cl. 323-47.
- Hanthorn, Horace F., to Radio Corp. of America. Punched card operated apparatus. 2,903,529, 9-8-59, Cl. 200-46.
- Hantscho, George. Printing press rollers. 2,900,904, 8-25-59, Cl. 101-415.1.
- Hanus, John, and S. N. Parker. Air mixing and flow control device. 2,905,375, 9-22-59, Cl. 230-114.
- Hanyasz, Eugene A., to General Motors Corp. Ultrasonic testing. 2,885,887, 5-12-59, Cl. 73-67.6.
- Hanyasz, Eugene A., to General Motors Corp. Ultrasonic transmission testing method. 2,912,853, 11-17-59, Cl. 73-67.6.
- Hanyasz, Eugene A., and N. W. Schubring, to General Motors Corp. Material thickness and defect testing device. 2,889,705, 6-9-59, Cl. 73-67.8.
- Hanyasz, Eugene A., and R. L. Saur, to General Motors Corp. Coating thickness gage. 2,916,694, 12-8-59, Cl. 324-34.
- Hanze, Arthur R., to The Upjohn Co. 11-oxygenated-17 $\alpha$ ,21-dihydroxy-4-pregnen-20-ones and the 21-esters thereof. 2,868,783, 1-13-59, Cl. 260-239.55.
- Hanze, Arthur R., to The Upjohn Co. Novel process for steroidal oxidation products. 2,889,343, 6-2-59, Cl. 260-397.45.
- Hanze, Arthur R., to The Upjohn Co. Method of making 4,22-stigmastadien-3-one. 2,890,226, 6-9-59, Cl. 260-397.2.
- Happ, Hermann, and H. Hartz. Resilient rotary connections for drive shafts. 2,910,843, 11-3-59, Cl. 64-11.
- Happe, Reynold, to The Singer Mfg. Co. Portable tools with selective means for locking spindle. 2,872,197, 2-3-59, Cl. 279-1.
- Happel, John: *See—*
- Marsel, Charles J., and Happel. 2,902,457.
- Happell, John J., to The Babcock & Wilcox Co. Liquid-vapor separating drum. 2,877,747, 3-17-59, Cl. 122-435.
- Hara, Yujiro: *See—*
- Miki, Takuichi, and Hara. 2,891,068.
- Miki, Takuichi, and Hara. 2,891,081.
- Haracz, Edward F. Belts for conveying and supporting flat plates in grinding and polishing machines. 2,877,607, 3-17-59, Cl. 51-235.
- Harbaugh, Max L., and G. A. Peirce, to E. I. du Pont de Nemours and Co. Process for manufacture of sulfamic acid. 2,880,064, 3-31-59, Cl. 23-166.
- Harbaugh, Philip W., to The Morse Instrument Co. Positive gear drive control mechanism. 2,875,636, 3-3-59, Cl. 74-472.
- Harbec, Rene: *See—*
- Wilson, James R., and Harbec. 2,898,003.
- Harben, William C. Fender cover. 2,880,015, 3-31-59, Cl. 280-150.
- Harbers, Henry C., and D. R. Merchant, to Cook Bros. Equipment Co. Dump truck. 2,868,583, 1-13-59, Cl. 298-15.
- Harbes, John F., and R. A. Swan. Base for Christmas trees. 2,904,291, 9-15-59, Cl. 248-44.
- Harbin, Raymond H.: *See—*
- Arnold, Orlan M., and Harbin. 2,916,459.
- Harbison, George C., to General Electric Co. Sealing gasket. 2,889,593, 6-9-59, Cl. 20-69.
- Harbison-Walker Refractories Co.: *See—*
- Britner, Richard B., and Liscac. 2,893,101.
- McGill, Lincoln A., and Moore. 2,885,976.
- Schob, Fred O. 2,908,062.
- Harbor Plywood Corp.: *See—*
- Markwell, Harry D. 2,871,896.
- Harbor, William H., to The National Cash Register Co. Item counter control mechanism for accounting machines. 2,868,446, 1-13-59, Cl. 235-60.
- Harbottle, John R., to Jonas Woodhead & Sons Ltd. Spring rollers or idlers for conveyor belts. 2,901,092, 8-25-59, Cl. 198-192.
- Harbottle, John R., to Jonas Woodhead & Sons Ltd. Resilient conveyor rollers. 2,901,093, 8-25-59, Cl. 198-192.
- Harbour, George L.: *See—*
- Slover, Archy F., and Harbour. 2,894,861.
- Harchikov, Konstantin F. Drawing device. 2,900,725, 8-25-59, Cl. 33-41.
- Harclerode, John R., to Clipper Mfg. Co. Movement limiting guard for the saw on the cutting head of masonry saws. 2,874,687, 2-24-59, Cl. 125-13.
- Harclerode, John R., to Eveready Briksaw Co. Masonry saw. 2,893,372, 7-7-59, Cl. 125-13.
- Harcolinski, Antoni: *See—*
- Finlayson, Donald, Harcolinski, and Krzesinski. 2,888,711.
- Harcum, William M., to Tactair Inc. Inner gimbal pickoff. 2,871,704, 2-3-59, Cl. 74-5.6.
- Hard af Segerstad, Goran J. F. Tobacco pipe. 2,873,748, 2-17-59, Cl. 131-194.
- Hard af Segerstad, Carl G. Fluid-operated motor of the reciprocating type. 2,889,817, 6-9-59, Cl. 121-48.
- Hardbergh, George A.: *See—*
- Burrell, Warren F., Cohen, and Hardenbergh. 2,901,168.
- Hardenberg, Jan J. C.: *See—*
- Van Alphen, Pieter M., van der Wal, and Hardenberg. 2,874,300.
- Harder, Alvin E., to A. O. Smith Corp. Brake beam of welded construction. 2,887,189, 5-19-59, Cl. 188-223.1.
- Harder, Alvin E., and R. C. Roderick, to A. O. Smith Corp. Railway car grating. 2,878,761, 3-24-59, Cl. 105-457.
- Harder, Karl M., to Patent-und Versuchs-Anstalt. Device for the tolerance testing and grading into tolerance categories of objects and workpieces. 2,901,105, 8-25-59, Cl. 209-88.
- Harders, Fritz, to Dortmund-Hörder Hüttenunion Akt. Methods of reducing iron ores and carburizing under vacuum. 2,895,820, 7-21-59, Cl. 75-48.
- Harders, Fritz, to Dortmund-Hörder Hüttenunion Akt. Sealing means for vacuum vessels. 2,906,521, 9-29-59, Cl. 266-34.
- Harders, Fritz, H. Knuppel, and K. Brotzmann, to Dortmund-Hörder Hüttenunion Akt. Equipment for degassing metals in particular steel melts. 2,893,715, 7-7-59, Cl. 266-34.
- Hardesty, Edwin C., and W. E. Stalhuth. Tomato peeling machine. 2,888,969, 6-2-59, Cl. 146-43.
- Hardesty, Ethridge E., to Fairchild Engine and Airplane Corp. Resistance welding methods and apparatus. 2,892,922, 6-30-59, Cl. 219-87.
- Hardesty, Frederick L. Portable power megaphone apparatus. 2,915,587, 12-1-59, Cl. 179-1.
- Hardesty, George K. C. Duo-panel edge illumination system. 2,886,911, 5-19-59, Cl. 40-130.
- Hardfield Corp.: *See—*
- Haskins, Lewis S. 2,899,097.
- Hardgrove, Basil E., and R. M. Haisfield, to United States of America, Navy. Helical range recorder. 2,910,666, 10-27-59, Cl. 340-5.
- Hardgrove, Ralph M.: *See—*
- Bailey, Ervin G., Hardgrove, and Hamilton. 2,879,717.
- Hardgrove, Ralph M., to The Babcock & Wilcox Co. Apparatus for generating and superheating steam. 2,869,521, 1-20-59, Cl. 122-481.
- Hardgrove, Ralph M., to The Babcock & Wilcox Co. Slag tank design for pressure furnaces. 2,913,697, 12-29-59, Cl. 18-2.4.
- Hardie, George C. Scaffolding. 2,879,110, 3-24-59, Cl. 304-40.
- Hardie, Harry. Garment band. 2,912,699, 11-17-59, Cl. 2-237.
- Hardin, Carl L. Wire cutter. 2,894,324, 7-14-59, Cl. 30-240.
- Hardin, Clyde D., and J. Salerno, to United States of America, Army. Generation of very short microwave pulses. 2,908,870, 10-13-59, Cl. 331-87.
- Hardin, William J. Vending machine head. 2,917,203, 12-15-59, Cl. 221-195.



- Harding, Duncan V.: *See*—  
Muramatsu, James S., and Harding. 2,917,289.
- Harding, John H., to C. H. Masland & Sons. Uncut floats over cutting wire, and wire construction. 2,915,091, 12-1-59, Cl. 139—44.
- Harding, John K., and D. G. A. Thomas, to Dowty Nucleonics Ltd. Valve for use with gases contaminated with nuclear fission products. 2,906,290, 9-29-59, Cl. 137—597.
- Harding, Robert: *See*—  
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- Harding, William R., and C. J. McDowall, to General Motors Corp. Heated pressure probe. 2,870,633, 1-27-59, Cl. 73—212.
- Hardinge Brothers, Inc.: *See*—  
Parsons, Hubert J., and Peterson. 2,895,740.  
Strom, David W. 2,897,578.
- Hardinge, Harlowe. Method and apparatus for concentrating and classifying material. 2,899,139, 8-11-59, Cl. 241—19.
- Hardinge, Harlowe. Pulverizing mill and process of pulverizing material. 2,909,330, 10-20-59, Cl. 241—19.
- Hardison, Wilbur T.: *See*—  
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Bourns, Marlan E., Hardison, and Hulbert. 2,882,375.  
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- Hardman, Albert F., to The Goodyear Tire & Rubber Co. Thiocarbamyl amine disulfide accelerators. 2,888,445, 5-26-59, Cl. 260—79.5.
- Hardman, Carl C., to Diamond Alkali Co. Method of impregnating a carbon electrode with a drying oil. 2,881,100, 4-7-59, Cl. 117—228.
- Hardman, Carl C., to Diamond Alkali Co. Carbon electrode oil impregnation method. 2,902,386, 9-1-59, Cl. 117—61.
- Hardman, H. V., Co., Inc.: *See*—  
Hardman, Kenneth V., Lang, and Doane. 2,913,751.  
Pande, Henry. 2,895,644.
- Hardman, Harley F., to The Standard Oil Co. Paving asphalt composition and a process of making it. 2,877,128, 3-10-59, Cl. 106—279.
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- Hardman, Harley F., and R. W. Foreman, to The Standard Oil Co. Rapid method for the isolation of petroleums from asphalt. 2,894,904, 7-14-59, Cl. 208—337.
- Hardman, James A.: *See*—  
France, Edward L., and Hardman. 2,878,883.  
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- Hårdmark, Ragnar M., to Svenska Aeroplan Aktiebolaget. Hermetically sealed electric cable connector. 2,896,186, 7-21-59, Cl. 339—100.
- Hardouin, Yvane: *See*—  
Bizouard, Paul, and Hardouin. 2,896,164.
- Hardt Foundation: *See*—  
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- Hardtmuth, L. & C., Inc.: *See*—  
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- Hardway, Edward V., Jr., to Robertshaw-Fulton Controls Co. Well logging methods and apparatus. 2,887,172, 5-19-59, Cl. 181—5.
- Hardwicke, James E.: *See*—  
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- Hardwicke, James E., J. King, and R. C. Terrell, to Shulton, Inc. Synthesis of sesamol acetate and sesamol. 2,885,407, 5-5-59, Cl. 260—340.5.
- Hardy, Alex., to General Motors Corp. Automatic transmission pump. 2,875,700, 3-3-59, Cl. 103—126.
- Hardy, Edgar E., to Monsanto Chemical Co. Elastomer having dispersed therein an organo clay. 2,883,357, 4-21-59, Cl. 260—37.
- Hardy, Elizabeth M.: *See*—  
Lecher, Hans Z., and Hardy. 2,872,484.  
Lecher, Hans Z., and Hardy. 2,878,272.
- Hardy, Elizabeth M., J. F. Hosler, and G. Lamb, to American Cyanamid Co. Trichloromethyl benzenethiosulfonates. 2,879,198, 3-24-59, Cl. 167—30.
- Hardy, Francis H.: *See*—  
Schmidt, Stanley A., and Hardy. 2,880,380.
- Hardy, Gordon W. Fluid-energy translating device. 2,911,917, 11-10-59, Cl. 103—46.
- Hardy, Henry, to International Vulcanizing Corp. Method of making rubber shoes. 2,878,523, 3-24-59, Cl. 18—59.
- Hardy, Henry G.: *See*—  
Royston, Robert. 2,883,192.
- Hardy, James A., to Schwitzer Corp. Torque transmitting fluid coupling. 2,902,127, 9-1-59, Cl. 192—58.
- Hardy, James W., to Goodman Mfg. Co. Tension mechanism for an extensible conveyor. 2,897,564, 8-4-59, Cl. 23—134.
- Hardy, Maurice E., to Zenith Radio Corp. Retractable phonograph spindle. 2,918,289, 12-22-59, Cl. 274—10.
- Hardy, Paul W., to American Can Co. Nitric acid treatment of steel. 2,915,420, 12-1-59, Cl. 134—3.
- Hardy, Rene J. Electronic spotting device, applicable in particular, for the guiding of rockets and other high speed appliances. 2,892,949, 6-30-59, Cl. 250—214.
- Hardy, Robert L., to Esso Research and Engineering Co. Catalytic hydroforming in the presence of controlled amounts of water. 2,876,194, 3-3-59, Cl. 208—136.
- Hardy, Robert L., H. A. Richards, Jr., S. W. Downer, III, and R. E. Olsen, to Esso Research and Engineering Co. Vapor sampler. 2,880,615, 4-7-59, Cl. 73—422.
- Hardy, William B.: *See*—  
Naylor, Ralph A., and Hardy. 2,919,259.  
Scalera, Mario, Tomcufick, and Hardy. 2,879,274.  
Thomas, Walter M., Sullivan, and Hardy. 2,883,371.
- Hardy, William B., to American Cyanamid Co. Polyester resinous compositions light-stabilized with a dibenzoyl alkyl phenol. 2,890,193, 6-9-59, Cl. 260—45.4.
- Hardy, William B., to American Cyanamid Co. Vinyl chloride resinous compositions light-stabilized with a dibenzoyl alkyl phenol. 2,890,201, 6-9-59, Cl. 260—45.95.
- Hardy, William B., J. F. Hosler, and G. Lamb, to American Cyanamid Co. Aliphatic trichloromethylthiosulfonates. 2,877,258, 3-10-59, Cl. 260—453.
- Hardy, William B., J. H. Thelin, and F. M. Furman, to American Cyanamid Co. Process for naphthalene thioglycolic acids. 2,877,261, 3-10-59, Cl. 260—470.
- Hardy, William B., J. H. Thelin, and F. M. Furman, to American Cyanamid Co. Process for naphthalene thioglycolic acids. 2,884,449, 4-28-59, Cl. 260—516.
- Hardy, William B., and E. Klingsberg, to American Cyanamid Co. Ferrocene derivatives. 2,900,401, 8-18-59, Cl. 260—439.
- Hardy, William B., J. H. Thelin, and F. Furman, to American Cyanamid Co. Reaction of naphthols with hydrogen sulfide. 2,903,484, 9-8-59, Cl. 260—609.
- Hardy, William B., and F. H. Adams, to American Cyanamid Co. Process for blowing an organo-plastic material with an organo sulfamoyl azide. 2,912,391, 11-10-59, Cl. 260—2.5.
- Hardy, William B., and J. F. Hosler, to American Cyanamid Co. Novel 3-acylamino triazoles. 2,914,536, 11-24-59, Cl. 260—308.
- Hare, Donald G. C., to United States of America, Navy. Selective signalling device. 2,902,673, 9-1-59, Cl. 340—171.
- Hare, Donald G. C., and H. R. Skifter, to United States of America, Navy. Repeater station having reduced self oscillation. 2,875,328, 2-24-59, Cl. 250—15.
- Hare, George H.: *See*—  
Toomim, Hershel, and Hare. 2,903,523.
- Hare, George H., and D. R. Margetts, to Beckman Instruments, Inc. Radio frequency mass spectrometer. 2,896,083, 7-21-59, Cl. 250—41.9.
- Hare, Robert G., to Hartford Gun Choke Co., Inc. Automatic choke device for shotguns. 2,894,349, 7-14-59, Cl. 42—79.
- Hare, Terence G., to Miller Mfg. Co. Faucet with ball bearing mounted seal. 2,879,025, 3-24-59, Cl. 251—88.
- Hare, Terence G. Valve with ball bearing mounted sealing member. 2,888,235, 5-26-59, Cl. 251—88.
- Hare, Terence G. Valve seal. 2,888,236, 5-26-59, Cl. 251—88.
- Hare, Weston A., to E. I. du Pont de Nemours and Co. Process for shrinking and setting polyacrylonitrile textile filaments with specific chemical shrinking agents. 2,869,975, 1-20-59, Cl. 8—130.1.
- Hares, George B., to Corning Glass Works. Image orthicon target. 2,879,420, 3-24-59, Cl. 313—68.
- Harfenist, Morton: *See*—  
Bavley, Abraham, and Harfenist. 2,882,200.
- Harfenist, Morton. Piperazine quaternary salts having parasitic activity and method of making. 2,880,209, 3-31-59, Cl. 260—268.
- Harford, Arthur D., and H. W. Vernon. Pest combating compositions. 2,897,112, 7-28-59, Cl. 167—30.
- Harger, Rolla N., to Indiana University Foundation. Apparatus for measuring alcohol content of gases. 2,867,511, 1-6-59, Cl. 23—254.
- Hargis, Sam H. Furrow opener. 2,885,014, 5-5-59, Cl. 172—719.
- Hargrave, Delbert A., to Schaefer Inc. Frozen food display cabinet and cover therefor. 2,888,811, 6-2-59, Cl. 62—255.
- Hargraves, Woodrow J. Dispenser and receptacle mounting. 2,887,216, 5-19-59, Cl. 206—19.5.
- Hargreaves, Robert, to Whitin Machine Works. Yarn stretching apparatus. 2,884,679, 5-5-59, Cl. 28—71.3.
- Hargreaves, Thomas S.: *See*—  
Dubitzky, Michael, Hargreaves, and Keyt. 2,879,943.
- Hargreaves, William V., Jr., to Allen B. Du Mont Laboratories, Inc. Frequency modulation receiver hiss-responsive squelch circuit made ineffective by excess deviation audio peaks. 2,878,377, 3-17-59, Cl. 250—20.
- Hargrove, Frank L., and L. P. Grobel, to General Electric Co. Friction shaft-coupling assembly. 2,879,092, 3-24-59, Cl. 287—129.
- Hargrove, Stone L. Disposable self feeder for rodents. 2,912,788, 11-17-59, Cl. 43—131.
- Harke, LeRoy J., to Moloney Electric Co. Three-phase cores for electrical induction apparatus. 2,911,603, 11-3-59, Cl. 336—5.
- Harke, Raymond J. Liquid level signaling device. 2,907,994, 10-6-59, Cl. 340—245.
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- Harkema, Pieter, to North American Phillips Co., Inc. Circuit for triggering one of a plurality of common cathode coupled control circuits. 2,897,357, 7-28-59, Cl. 250—27.
- Harkenrider, Robert J.: *See*—  
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- Harkenrider, Robert J. Induction heating in injection and extrusion processes. 2,875,311, 2-24-59, Cl. 219-10.49.
- Harkenrider, Robert J., to Multiple Extrusions, Inc. Making multiple tube structures by extrusion. 2,908,037, 10-13-59, Cl. 18-12.
- Harkenrider, Robert J., to Miller Lubricator Co. Journal box packing. 2,910,330, 10-27-59, Cl. 308-243.
- Harker, Charles B., to Bartelt Engineering Co. Machine for forming, filling and closing bags. 2,885,846, 5-12-59, Cl. 53-124.
- Harker, Charles B., to Bartele Engineering Co. Bag opening mechanism for packaging machine. 2,899,786, 8-18-59, Cl. 53-187.
- Harker, John M., and J. J. Lynott, to International Business Machines Corp. Positioning device. 2,913,922, 11-24-59, Cl. 74-501.
- Harker, Robert J., to Commercial Solvents Corp. Method of repelling rodents by treating with a composition comprising an aryl nitroolefin. 2,889,246, 6-2-59, Cl. 167-46.
- Harkess, William L.: See—  
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- Harkins, Edison A., Jr. Contact shoe for conductor rail. 2,894,078, 7-7-59, Cl. 191-45.
- Harkins, Elza E., and D. H. Young, to Royal McBee Corp. Feed for web press. 2,872,188, 2-3-59, Cl. 271-2.2.
- Harkins, Jack, to Professional Golf Co. Steel power-center golf ball. 2,914,328, 11-24-59, Cl. 273-230.
- Harkleroad, Conway C. Power control mechanism. 2,883,866, 4-28-59, Cl. 74-11.
- Harkness, Joseph R., to Briggs & Stratton Corp. Piezoelectric igniter unit for internal combustion engines. 2,871,280, 1-27-59, Cl. 123-148.
- Harkness, Leslie M., E. D. Cornwell, and G. P. Goetz, to Armour and Co. Manufacture of bone glue. 2,881,158, 4-7-59, Cl. 260-118.
- Harkness, Reed B., and E. E. Lacey, to The C. Dewitt Lukens Surgical Mfg. Co. Ligature package. 2,870,906, 1-27-59, Cl. 206-63.3.
- Harkness, Tom S. Building structure. 2,869,561, 1-20-59, Cl. 135-1.
- Harlan, Avery S.: See—  
Crane, Buren C., Honan, and Harlan. 2,904,652.
- Harlan, Avery S., and P. R. Honan, to Indiana Commercial Filters Corp. Liquid filter device. 2,887,228, 5-19-59, Cl. 210-108.
- Harlan, Kenneth G., to United States of America, Navy. Transition fuel cells. 2,900,289, 8-18-59, Cl. 154-43.5.
- Harland, Philip W.: See—  
Le Van, Ambrose E., Harland, and Waite. 2,906,232.
- Harland, Philip W., and J. N. Storms, to American Machine and Metals, Inc. Rotatable pressure gauges. 2,874,572, 2-24-59, Cl. 73-407.
- Harland, William G.: See—  
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- Harle, Harold P., to General Electric Co. Ice maker. 2,912,836, 11-17-59, Cl. 62-353.
- Harle, Oliver L., and J. R. Thomas, to California Research Corp. Oxidation resistant lubricant compositions. 2,892,784, 6-30-59, Cl. 252-47.5.
- Harle, Oliver L., and J. R. Thomas, to California Research Corp. Oxidation resistant lubricant compositions. 2,892,785, 6-30-59, Cl. 252-49.6.
- Harleigh Holmes 4-Wheel Drive Co.: See—  
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- Harless, Charles A., to R. Hoe & Co., Inc. Rotary shaft clutch. 2,894,775, 7-14-59, Cl. 287-108.
- Harless, Charles A., to R. Hoe & Co., Inc. Inking mechanism for printing machines. 2,900,900, 8-25-59, Cl. 101-366.
- Harless, Charles A., and B. C. Polglase, Jr., to R. Hoe & Co., Inc. Inking mechanism for printing machines. 2,915,008, 12-1-59, Cl. 101-349.
- Harley, Earl K.: See—  
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- Harley, Frank B. Buckles. 2,903,774, 9-15-59, Cl. 24-170.
- Harley, Joseph J., and J. B. Cunningham, to General Steel Castings Corp. Railway vehicle truck. 2,877,720, 3-17-59, Cl. 105-197.
- Harley, William B., J. A. Harmon, and J. Sutherland, to The Dow Chemical Co. Method of shutting off water in petroleum wells. 2,887,159, 5-19-59, Cl. 166-29.
- Harling, Donald W., to McGraw-Edison Co. Latch. 2,869,909, 1-20-59, Cl. 292-256.
- Harling, Donald W., to McGraw-Edison Co. Outdoor lighting luminaire. 2,875,323, 2-24-59, Cl. 240-25.
- Harling, Donald W., to McGraw-Edison Co. Fluorescent luminaire. 2,886,699, 5-12-59, Cl. 240-25.
- Harling, Donald W., to McGraw-Edison Co. Fluorescent luminaire and mounting arrangement therefor. 2,907,544, 10-6-59, Cl. 248-230.
- Harlow, Walter F., to International Combustion (Holdings) Ltd. Centrifuging machines. 2,867,378, 1-6-59, Cl. 233-7.
- Harm, Alison R.: See—  
Cameron, Frank L., and Harm. 2,911,499.
- Harman, Cameron G.: See—  
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- Harman, Cameron G., to Horizons Inc. Production of boric acid. 2,898,192, 8-4-59, Cl. 23-149.
- Harman, Cameron G., and R. D. Fenety, to The Star Porcelain Co. Low loss ceramic insulators. 2,878,130, 3-17-59, Cl. 106-46.
- Harman, Emil I., and T. Pschick, to Philco Corp. Television receivers. 2,917,577, 12-15-59, Cl. 178-7.5.
- Harman, Jack, to Weaver Mfg. Co. Lifting jack for automotive vehicles and the like. 2,911,191, 11-3-59, Cl. 254-122.
- Harman, Julius, to Wilmot-Breeden Ltd. Door fasteners. 2,892,653, 6-30-59, Cl. 292-216.
- Harman, Marion W.: See—  
Tomlin, Andrew, Harman, Zerbe, and Sibley. 2,892,805.
- Harman, Marion W., to Monsanto Chemical Co. Nematocide. 2,905,586, 9-22-59, Cl. 167-22.
- Harman, Marion W., and J. J. D'Amico, to Monsanto Chemical Co. Polyhaloalkenyldithiocarbamates. 2,876,243, 3-3-59, Cl. 260-455.
- Harman, Marion W., and H. W. Kilbourne, to Monsanto Chemical Co. Haloalkenyl esters of mono-substituted dithiocarbamic acids. 2,882,291, 4-14-59, Cl. 260-455.
- Harman, Marion W., and H. W. Kilbourne, to Monsanto Chemical Co. Allyl esters of mono-substituted dithiocarbamic acids. 2,895,980, 7-21-59, Cl. 260-455.
- Harman, Marion W., and J. J. D'Amico, to Monsanto Chemical Co. Aminoethylthiazoles. 2,900,299, 8-18-59, Cl. 167-33.
- Harman, Marion W., and J. J. D'Amico, to Monsanto Chemical Co. Aminoalkylthiazoles. 2,912,357, 11-10-59, Cl. 167-33.
- Harman, Marion W., and J. J. D'Amico, to Monsanto Chemical Co. Method of controlling vegetation. 2,919,182, 12-29-59, Cl. 71-2.7.
- Harmon, Alton O., to St. Francis Valley Farms Co. Land leveler. 2,874,490, 2-24-59, Cl. 37-169.
- Harmon, Arthur R.: See—  
Woods, Charles W., and Harmon. 2,891,661.
- Harmon, Bernard R.: See—  
Ray, Anatoly B., and Harmon. 2,890,434.
- Harmon, Bill G., to Engineered Grouting Service. Liner set tool. 2,913,052, 11-17-59, Cl. 166-144.
- Harmon, Carlyle, H. W. Griswold, and J. H. Smith, to Chicopee Mfg. Corp. Process of forming a dispersion of particles of controlled size. 2,909,491, 10-20-59, Cl. 252-305.
- Harmon, Esther, to S. and C. D. Scram, d. b. a. Scram Bros. Child's garment. 2,876,455, 3-10-59, Cl. 2-80.
- Harmon, George H., and A. E. Rockwood, Jr., to Western Electric Co., Inc. Impedance calibrator. 2,899,141, 8-11-59, Cl. 242-9.
- Harmon, Henry D.: See—  
Armstrong, Lorne D., Harmon, and Meisel. 2,878,432.
- Harmon, James A.: See—  
Harley, William B., Harmon, and Sutherland. 2,887,159.
- Harmon, William C., to Republic Steel Corp. Method of and apparatus for inspecting work pieces. 2,914,726, 11-24-59, Cl. 324-37.
- Harms, Arthur M., to Harms Hosiery Co., Inc. Garment and method of making. 2,898,754, 8-11-59, Cl. 66-177.
- Harms Hosiery Co., Inc.: See—  
Harms, Arthur M. 2,898,754.
- Harmuth, Henning, to United States of America, Army. Electronic squaring circuit. 2,887,576, 5-19-59, Cl. 250-27.
- Harned, John L., R. F. Knudsen, and F. M. Ward, to General Motors Corp. Simulated inertia weight system. 2,882,721, 4-21-59, Cl. 73-116.
- Harned, Roger L.: See—  
Hidy, Phil H., Phillips, and Harned. 2,902,480.
- Harner, Robert H., to S & C Electric Co. Circuit interrupter construction. 2,877,322, 3-10-59, Cl. 200-120.
- Harness, James C., to Bendix Aviation Corp. Conveyor mechanism. 2,885,062, 5-5-59, Cl. 198-155.
- Harnish, Don P., and R. W. Brukardt, to Crown Zellerbach Corp. Nestable berry tray. 2,893,621, 7-7-59, Cl. 229-34.
- Harnish, James R., to Borg-Warner Corp. Air conditioning systems. 2,893,218, 7-7-59, Cl. 62-180.
- Harnish, Kenneth A., to General Motors Corp. Counter-top construction. 2,876,460, 3-10-59, Cl. 4-187.
- Haroldson, Arthur H., and H. L. Cox, to Continental-Diamond Fibre Corp. Refusable fuseholder. 2,870,295, 1-20-59, Cl. 200-131.
- Haroldson, Arthur H., E. A. Mulrooney, Jr., and W. P. Hogan, to Continental-Diamond Fibre Corp. Method for making coherent unsintered plastic tape. 2,915,786, 12-8-59, Cl. 18-55.
- Haropoulos, John T. Capacitive step level indicator for conductive liquids. 2,868,015, 1-13-59, Cl. 73-304.
- Harowitz, Charles L., to Virginia-Carolina Chemical Corp. Production of esters of phosphonous and phosphinous acids. 2,903,475, 9-8-59, Cl. 260-461.
- Harp, Thomas H., Jr.: See—  
Sparks, Marshall S., Jr., and Harp. 2,900,511.
- Harper, Billy G., J. H. Brown, Jr., and J. C. Moore, to The Dow Chemical Co. Method of making permselective membranes. 2,894,289, 7-14-59, Cl. 18-57.
- Harper, Chester H.: See—  
Allen, Kenneth M., and Harper. 2,899,044.
- Harper, Duane C.: See—  
Peck, George R. 2,899,336.
- Harper, Katherine M. Garment clasp. 2,918,713, 12-29-59, Cl. 24-259.
- Harper, Kenneth A., to Phillips Petroleum Co. Process and apparatus for disengaging particulate solid contact material. 2,875,000, 2-24-59, Cl. 302-59.



- Harper, Kenneth A., to Phillips Petroleum Co. Fluidized solids process and apparatus. 2,895,906, 7-21-59, Cl. 208-147.
- Harper, Kenneth A., to Phillips Petroleum Co. Fluidized solids transfer with a valve erosion reduction method and apparatus. 2,905,635, 9-22-59, Cl. 208-164.
- Harper, Kenneth A., to Phillips Petroleum Co. Catalyst regenerator. 2,906,609, 9-29-59, Cl. 23-288.
- Harper, Kenneth A., to Phillips Petroleum Co. Metal contaminant removal from catalytic cracking feedstock. 2,914,458, 11-24-59, Cl. 208-88.
- Harper, Kenneth A., to Phillips Petroleum Co. Moving bed catalytic system to upgrade gasoline. 2,915,456, 12-1-59, Cl. 208-70.
- Harper, Laffie. Clip forming machine and method. 2,912,038, 11-10-59, Cl. 153-28.
- Harper, Leonard L., to Crane Packing Co. Press with enclosed toggles. 2,897,784, 8-4-59, Cl. 121-38.
- Harper, Leonard R., to International Business Machines Corp. Calculator program system. 2,910,236, 10-27-59, Cl. 235-157.
- Harper, Lyndus E.: *See*—
- Birtwell, William C., and Harper. 2,872,074.
- Coffman, Paul A., Jr., and Harper. 2,886,302.
- Coffman, Paul A., Jr., and Harper. 2,900,110.
- Harper, Lyndus E., to B-I-F Industries, Inc. Feed measuring and controlling apparatus. 2,872,073, 2-3-59, Cl. 222-55.
- Harper, Robert: *See*—
- Unger, Robert M., and Harper. 2,882,587.
- Harper, Robert, to Raytheon Mfg. Co. Traveling wave tubes. 2,916,655, 12-8-59, Cl. 315-3.5.
- Harper, Stanley A., to Radio Corp. of America. Zinc sulfide-coated phosphor particles, phosphor screen, and method of making screen. 2,908,588, 10-13-59, Cl. 117-33.5.
- Harper, Toby B. Automatic liquid delivery shut-off device. 2,870,800, 1-27-59, Cl. 141-209.
- Harper, Willard J.: *See*—
- Hobbs, William M., Harper, and Meess. 2,916,252.
- Harper, William D. Vehicle body support for absorbing horizontal component of loads. 2,867,472, 1-6-59, Cl. 296-35.
- Harper, William W., and J. W. Saylor, to Automotive Safety Associates. Safety belt buckle. 2,893,088, 7-7-59, Cl. 24-75.
- Harper-Wyman Co.: *See*—
- Brodbeck, Almer H. 2,912,837.
- Lamar, Charles C. 2,886,050.
- Lamar, Charles C. 2,909,217.
- Wiberg, Raymond F., and Silhavy. 2,892,349.
- Harpfer, Donald E., to The Goodyear Tire & Rubber Co. Hydraulic brake hose. 2,899,982, 8-18-59, Cl. 138-55.
- Harpham, John A., to Hercules Powder Co. Paper manufacture. 2,916,413, 12-8-59, Cl. 162-157.
- Harpole, Murray J.: *See*—
- Coon, Kenneth C., Harpole, and Van Krevelen. 2,893,236.
- Harr, Jesse. Metal coolant dispenser. 2,895,684, 7-21-59, Cl. 239-341.
- Harralson, George G., Jr., to Marvel Specialty Co. Automatic hosiery inspection and turning apparatus. 2,890,818, 6-16-59, Cl. 223-43.
- Harrell, Aubrey. Pilot controlled flush valves. 2,914,293, 11-24-59, Cl. 251-36.
- Harrell, Bob R., and G. A. Forester, to The Dow Chemical Co. Removal of impurities from caustic soda solutions. 2,887,364, 5-19-59, Cl. 23-184.
- Harrell, Rufus L. Minnow box. 2,884,736, 5-5-59, Cl. 43-56.
- Harrer, Paul H., to Allis-Chalmers Mfg. Co. Automatic belt clutch for conveyor drive. 2,868,113, 1-13-59, Cl. 100-5.
- Harriss, John H. O., to General Electric Co. Thermoionic valves. 2,883,576, 4-21-59, Cl. 313-257.
- Harries, William H., and H. E. Pickens. Continuous film feeder. 2,880,993, 4-7-59, Cl. 271-2.18.
- Harriman, Arthur J.: *See*—
- Seltzer, Edward, Harriman, and Henderson. 2,891,865.
- Harriman, Herbert A.: *See*—
- Wright James H., Briggs, Billings, and Harriman. 2,903,645.
- Harrington, Allan L., and T. C. Hall, to Pacific Semiconductors, Inc. Method for forming passivation films on semiconductor bodies and articles resulting therefrom. 2,913,358, 11-17-59, Cl. 117-200.
- Harrington, Charles D., to United States of America, Atomic Energy Commission. Uranium solvent extraction process. 2,903,331, 9-8-59, Cl. 23-14.5.
- Harrington Co., The: *See*—
- Harrington, John A. 2,894,610.
- Harrington, Daniel B., to Bendix Aviation Corp. Electron multiplier. 2,889,461, 6-2-59, Cl. 250-41.9.
- Harrington, Daniel B., to Bendix Aviation Corp. Anode structure. 2,908,837, 10-13-59, Cl. 313-79.
- Harrington, Florian P. Ventilating panels. 2,870,700, 1-27-59, Cl. 98-96.
- Harrington, Gerald D.: *See*—
- Underwood, Harold B., and Harrington. 2,913,193.
- Underwood, Harold B., and Harrington. 2,919,077.
- Harrington, John A., to The Harrington Co. Chain hoist. 2,894,610, 7-14-59, Cl. 192-16.
- Harrington, Joseph, Jr., to United Shoe Machinery Corp. Article handling machines. 2,875,884, 3-3-59, Cl. 198-33.
- Harrington, Richard H.: *See*—
- Demer, Frederick M., and Harrington. 2,895,411.
- Malmros, Gustav V. A., and Harrington. 2,897,752.
- Harrington & Richardson, Inc.: *See*—
- Mulno, Lester F. 2,876,576.
- Harrington, Robert C., Jr.: *See*—
- Smith, James L., and Harrington. 2,891,962.
- Harrington, Robert D., G. E. Heveran, and P. D. Kolar, to Shurhit Products, Inc. Breaker point assembly. 2,896,035, 7-21-59, Cl. 200-30.
- Harrington, Robert L. Advertising sign for the interior of a vehicle. 2,876,566, 3-10-59, Cl. 40-10.
- Harrington, Susie. Expandable containers. 2,907,487, 10-6-59, Cl. 220-8.
- Harriott, Billie L., to Deere & Co. Flail-type manure spreader. 2,900,193, 8-18-59, Cl. 275-3.
- Harriott, Lloyd C.: *See*—
- Hodgers, Robert W., Harriott, and Ogle. 2,907,938.
- Harris, Aaron M.: *See*—
- Levine, Bernard, Harris, and Brod. 2,872,723.
- Harris, Aaron M., to United Aircraft Corp. Servosystem angular motion transmitting apparatus. 2,885,614, 5-5-59, Cl. 318-30.
- Harris, Albert F.: *See*—
- Patchin, Paul E., and Harris. 2,878,801.
- Harris, Arnold H. Planetarium novelty lamp. 2,878,591, 3-24-59, Cl. 35-45.
- Harris, Asa J. Combined sea anchor and boat stabilizer. 2,911,934, 11-10-59, Cl. 114-126.
- Harris, Ben A.: *See*—
- Blashfield, William H., Callender, and Harris. 2,905,764.
- Morris, Frank A., Clement, and Harris. 2,894,068.
- Harris, Ben A., to General Dynamics Corp. Discriminating circuit. 2,876,290, 3-3-59, Cl. 179-18.
- Harris, Ben A., to General Dynamics Corp. Playback system for toll ticketing. 2,886,643, 5-12-59, Cl. 179-7.1.
- Harris, Ben A., to General Dynamics Corp. Automatic toll ticketing system incorporating artificial supervision. 2,889,405, 6-2-59, Cl. 179-7.1.
- Harris, Ben A., to General Dynamics Corp. Station identifying circuit. 2,892,036, 6-23-59, Cl. 179-17.
- Harris, Ben A., to General Dynamics Corp. Magnetic core data storage and readout device. 2,895,124, 7-14-59, Cl. 340-174.
- Harris, Ben A., to General Dynamics Corp. Line finder and allotter system. 2,901,546, 8-25-59, Cl. 179-18.
- Harris, Ben A., to General Dynamics Corp. Busy marking means for automatic toll ticketing system. 2,916,551, 12-8-59, Cl. 179-8.
- Harris, Benjamin R. Frozen egg products. 2,902,372, 9-1-59, Cl. 99-196.
- Harris, Benjamin R. Egg products. 2,902,373, 9-1-59, Cl. 99-196.
- Harris, Benjamin R. Egg products. 2,902,374, 9-1-59, Cl. 99-210.
- Harris, Benjamin R. Egg products. 2,902,375, 9-1-59, Cl. 99-210.
- Harris, Bernard, and A. Macovski, to Radio Corp. of America. Phase comparison system. 2,868,975, 1-13-59, Cl. 250-36.
- Harris, Carl H. Screw driver with a swiveled finger member. 2,884,972, 5-5-59, Cl. 145-76.
- Harris, Cecil C.: *See*—
- Bell, Persa R., and Harris. 2,880,262.
- Harris, Clare S., and C. J. Huffman, to The Dow Chemical Co. Extrusion die assembly with flow-correcting baffle plate. 2,894,625, 7-14-59, Cl. 207-17.
- Harris, Clare W., and L. M. Nelson, to North American Aviation, Inc. High pressure flexible hose. 2,867,242, 1-6-59, Cl. 138-56.
- Harris, Clarence J. Electrical test system. 2,908,846, 10-13-59, Cl. 315-230.
- Harris, Clinton H., and E. O. Zill, to Sylvania Electric Products Inc. Camera. 2,892,392, 6-30-59, Cl. 95-31.
- Harris, Clyde C.: *See*—
- Streed, William R. 2,917,090.
- Harris, Darrel M., to Monsanto Chemical Co. Modified carbon black product and process. 2,867,540, 1-6-59, Cl. 106-307.
- Harris, Donald A., to Hyster Co. Wide spread load clamp. 2,886,197, 5-12-59, Cl. 214-653.
- Harris, Dwight L., to American Chrome Co. Chemical upgrading of chromium bearing materials. 2,905,546, 9-22-59, Cl. 75-1.
- Harris, Edward C. Emergency warning sign. 2,881,662, 4-14-59, Cl. 88-79.
- Harris, Edward H., Jr.: *See*—
- Filachione, Edward M., and Harris. 2,869,970.
- Harris, Edward J.: *See*—
- Fröhlich, Adolf, and Harris. 2,904,832.
- Fröhlich, Adolf, and Harris. 2,913,765.
- Fröhlich, Adolf H., and Harris. 2,873,802.
- Fröhlich, Adolf H., and Harris. 2,880,458.
- Fröhlich, Adolf H., and Harris. 2,895,169.
- Fröhlich, Adolf H., and Harris. 2,901,771.
- Fröhlich, Adolf H., and Harris. 2,901,772.
- Fröhlich, Adolf H., and Harris. 2,904,833.
- Fröhlich, Adolf H., and Harris. 2,904,834.
- Fröhlich, Adolf H., and Harris. 2,910,109.
- Harris, Edward J., to The Cleveland Trust Co. Servicing machine for pneumatic tire building machinery. 2,918,105, 12-22-59, Cl. 154-10.
- Harris, Edward P., and J. R. Wall, to General Motors Corp. Plural coated spongy sealing strip. 2,884,668, 5-5-59, Cl. 20-69.



- Harris, Edward P., and J. R. Wall, to General Motors Corp. Flexible tubing. 2,884,957, 5-5-59, Cl. 138-55.
- Harris, Edward P., to General Motors Corp. Safety rear vision mirror. 2,910,915, 11-3-59, Cl. 88-77.
- Harris, Floyd E., to The Dow Furnace Co. Heat treating furnace. 2,910,285, 10-27-59, Cl. 263-15.
- Harris, Frank L.: See—
- Wreford, John S., and Harris. 2,906,807.
- Harris, Frederic R., deceased; by M. S. Lobenthal, M. P. Bloch, and F. B. Downs, executors, to Frederic R. Harris, Inc. Piles for marine structures. 2,897,654, 8-4-59, Cl. 61-53.
- Harris, Frederic R., Inc.: See—
- Harris, Frederic R. 2,897,654.
- Harris, Garrett H. Electric steering and power control system for outboard motors. 2,877,733, 3-17-59, Cl. 115-18.
- Harris, Geoffrey T., and H. C. Child. Titanium base alloys. 2,893,864, 7-7-59, Cl. 75-175.5.
- Harris, Geoffrey T., and H. C. Child, to The Birmingham Small Arms Co. Ltd. Creep resistant chromium steel. 2,905,577, 9-22-59, Cl. 148-31.
- Harris, George N. Button contact. 2,892,178, 6-23-59, Cl. 339-221.
- Harris, George V., to Lindberg Engineering Co. Salt bath furnace. 2,888,506, 5-26-59, Cl. 13-26.
- Harris, Glenn M.: See—
- Harris, Ralph L. and G. M. 2,912,253.
- Harris, Guy H.: See—
- Taplin, William H., and Harris. 2,906,775.
- Harris, Harry M., to Deere Mfg. Co. Flail-type material unloader. 2,886,333, 5-12-59, Cl. 275-3.
- Harris, Herbert, Jr., E. B. Hammond, Jr., W. T. White, and R. M. Giulianelli, to Sperry Rand Corp. Flight control system. 2,873,074, 2-10-59, Cl. 244-14.
- Harris, Herbert, to The Babcock & Wilcox Co. Welding methods and apparatus. 2,912,550, 11-10-59, Cl. 219-9.5.
- Harris, Herbert W., to Racine Industrial Plant, Inc. Method of securing needle bearings in nylon gears. 2,906,005, 9-29-59, Cl. 29-149.5.
- Harris-Intertype Corp.: See—
- Gnandt, John A., and Kay. 2,869,681.
- Gulick, Kenneth H. 2,912,243.
- Johnson, Thomas H. 2,878,502.
- Johnson, Thomas H. 2,911,908.
- Johnson, Thomas H., Mueller, and Crittenden. 2,885,958.
- Lindemann, Robert E. 2,913,980.
- Mueller, Anthony J. 2,887,049.
- Mulcahy, Raymond W. 2,902,770.
- O'Brien, Richard C. 2,889,109.
- Royer, Arthur G., and Thompson. 2,874,636.
- Spiller, William R., and Johnson. 2,897,754.
- Tansel, Cecil L. 2,896,523.
- Harris, James R.: See—
- Blair, Royer R., and Harris. 2,887,542.
- Harris, James R., to Bell Telephone Laboratories, Inc. Binary counter. 2,906,894, 9-29-59, Cl. 307-88.5.
- Harris, James S., to Radio Corp. of America. Pulse comparison display system. 2,870,372, 1-20-59, Cl. 315-26.
- Harris, Jessie J. Combination automatic creeping light switch. 2,892,905, 6-30-59, Cl. 200-34.
- Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Herbicidal composition and a method for killing undesired vegetation therewith. 2,884,317, 4-28-59, Cl. 71-2.6.
- Harris, John L. Control device. 2,917,933, 12-22-59, Cl. 74-125.
- Harris, John L. Control device. 2,917,939, 12-22-59, Cl. 74-435.
- Harris, John L. Control device. 2,917,988, 12-22-59, Cl. 99-327.
- Harris, Kenneth J., and C. H. Hess, to Deere & Co. Multiple-function implement control system for agricultural tractor. 2,871,963, 2-3-59, Cl. 172-465.
- Harris, Kenneth J., and M. L. Miller, to Deere & Co. Tractor transmission-deluxe. 2,890,603, 6-16-59, Cl. 74-740.
- Harris, Lawrence: See—
- Brackmann, William J., Schlesinger, and Harris. 2,910,233.
- Harris, Leon S. Telephone attachment. 2,911,485, 11-3-59, Cl. 179-146.
- Harris, Lewis J., and J. J. Carroll. Water hammer relief device. 2,898,935, 8-11-59, Cl. 137-599.2.
- Harris, Lionel R. F., to Her Majesty's Postmaster General. Control units for switching systems. 2,876,284, 3-3-59, Cl. 179-15.
- Harris, Lionel R. F., to Her Majesty's Postmaster General. Time division multiplex communication systems. 2,910,541, 10-27-59, Cl. 179-15.
- Harris, Lionel R. F., to Her Majesty's Postmaster General. Time division multiplex communication systems. 2,910,542, 10-27-59, Cl. 179-15.
- Harris, Louis H., to Sperry Rand Corp. Wire stripping machine. 2,880,635, 4-7-59, Cl. 81-9.51.
- Harris, Loyes C. Magnetic flush valve. 2,907,050, 10-6-59, Cl. 4-56.
- Harris, Manville S., and C. Clutz. Fitting. 2,907,587, 10-6-59, Cl. 284-17.
- Harris, Michael G., and S. J. Walker, to Morris Motors Ltd. Brazed light alloy heat exchanger and method of making same. 2,899,177, 8-11-59, Cl. 257-245.
- Harris, Michael J., and G. H. Townend. Spark machining apparatus. 2,886,693, 5-12-59, Cl. 219-69.
- Harris, Milton, and A. E. Brown, to Harris Research Laboratories, Inc. Bleaching of keratinous fibrous material. 2,914,374, 11-24-59, Cl. 8-111.
- Harris, Norman, and M. Bryer, to Juno Machinery Ltd. Spirit duplicating machines. 2,903,963, 9-15-59, Cl. 101-132.5.
- Harris, Ralph F., to E. I. du Pont de Nemours and Co. Cellular polyurethane reaction product containing polysiloxane and method of preparing same. 2,901,445, 8-25-59, Cl. 260-2.5.
- Harris, Ralph L. and G. M. Automotive trailers. 2,912,253, 11-10-59, Cl. 280-106.
- Harris, Raymond C.: See—
- Straley, James M., and Harris. 2,882,176.
- Harris, Raymond G. Fishing rod holder. 2,905,413, 9-22-59, Cl. 248-42.
- Harris Research Laboratories, Inc.: See—
- Harris, Milton, and Brown. 2,914,374.
- Harris, Robert L.: See—
- Cosby, John N., Harris, and Rissmiller. 2,902,347.
- Cosby, John N., Harris, Spooner, and Tuttle. 2,909,532.
- Harris, Robert L., to Yuba Consolidated Industries, Inc. Cut-off regulating and steering system for steam vehicles. 2,887,171, 5-19-59, Cl. 180-6.48.
- Harris, Robert V., to Branson Instruments, Inc. Piezoelectric transducer. 2,875,354, 2-24-59, Cl. 310-8.2.
- Harris, Samuel. Dental flasks. 2,896,259, 7-28-59, Cl. 18-33.
- Harris, Samuel A. Warp beam and method of assembling. 2,880,944, 4-7-59, Cl. 242-118.62.
- Harris, Sterling G., to The Blue Channel Corp. Machine for recovering meat from animal carcasses. 2,895,162, 7-21-59, Cl. 17-1.
- Harris, Thomas R., to Malco Tool & Mfg. Co. Chain of combined terminal and support members for electrical elements. 2,871,551, 2-3-59, Cl. 29-193.5.
- Harris Transducer Corp., The: See—
- Harris, Wilbur T. 2,876,427.
- Harris, Wilbur T. 2,880,404.
- Harris, Wilbur T. 2,888,583.
- Harris, Wilbur T. 2,897,475.
- Harris, Wilbur T. 2,903,673.
- Harris, Wilbur T. 2,905,915.
- Harris, Victoria P. Hand mixer for food. 2,906,510, 9-29-59, Cl. 259-144.
- Harris, Wilbur T., to The Harris Transducer Corp. Transducer. 2,876,427, 3-3-59, Cl. 340-11.
- Harris, Wilbur T., to The Harris Transducer Corp. Compact resonant sonar transducer. 2,880,404, 3-31-59, Cl. 340-11.
- Harris, Wilbur T., to The Harris Transducer Corp. Circuit element transducer. 2,888,583, 5-26-59, Cl. 310-26.
- Harris, Wilbur T., to The Harris Transducer Corp. Movable actuating coil transducer array. 2,897,475, 7-28-59, Cl. 340-9.
- Harris, Wilbur T., to The Harris Transducer Corp. Acoustical impedance-matching transducer. 2,903,673, 9-8-59, Cl. 340-8.
- Harris, Wilbur T., to The Harris Transducer Corp. Compensated transformer. 2,905,915, 9-22-59, Cl. 336-181.
- Harris, William C.: See—
- Anderson, John J., Harris, and Harrison. 2,887,273.
- Harris, William H., to Scovill Mfg. Co. Lipstick container. 2,872,034, 2-3-59, Cl. 206-56.
- Harris, William H. Mechanically operable cover and rack for trucks and similar vehicles. 2,901,286, 8-25-59, Cl. 296-100.
- Harrison, Benjamin M., and E. E. Mulkey, to The American Oil Co. Drip free distillation receiver. 2,898,762, 8-11-59, Cl. 73-426.
- Harrison, Bertram M., to Raytheon Mfg. Co. Signalling apparatus. 2,869,027, 1-13-59, Cl. 315-24.
- Harrison, Charles C.: See—
- Nieuwenhuis, Garnt J., and Harrison. 2,872,973.
- Nieuwenhuis, Garnt J., and Harrison. 2,873,026.
- Harrison, Charles H. Outboard motor tilt lock. 2,905,130, 9-22-59, Cl. 115-17.
- Harrison, Charles W., to Harrison Laboratories, Inc. Direct-voltage regulating circuit. 2,867,764, 1-6-59, Cl. 323-22.
- Harrison, Charles W. Regulated voltage supply. 2,915,693, 12-1-59, Cl. 323-9.
- Harrison, Clarence L. Clapboard support. 2,901,203, 8-25-59, Cl. 248-226.
- Harrison, Clarence L., and W. F. Sage, said Harrison assor. to said Sage. Shingle positioning gauge. 2,891,318, 6-23-59, Cl. 33-188.
- Harrison, Edward S.: See—
- Robinson, Melvin B., and Harrison. 2,880,018.
- Harrison, Ernest, Jr. Electromagnetic beam scanning and reflection. 2,886,811, 5-12-59, Cl. 343-11.
- Harrison, Floyd O., and H. Nelson. Advertising device. 2,917,852, 12-22-59, Cl. 40-106.22.
- Harrison, Frank M. Stapling and punching machine. 2,885,680, 5-12-59, Cl. 1-2.
- Harrison, Geoffrey B., and A. P. Jenkins, to Ilford Ltd. Photographic projection. 2,905,051, 9-22-59, Cl. 88-24.
- Harrison, Geoffrey L., to Dowty Equipment of Canada Ltd. Harrison, Homer S., to Allied Steel and Conveyors, Inc. Television tube setting conveyor. 2,868,352, 1-13-59, Cl. 198-137.
- Harrison, Harvey T.: See—
- Furman, Walter F., and Harrison. 2,892,703.



- Harrison, Henry: *See*—  
Harrison, Henry C. and Henry. 2,889,902.
- Harrison, Henry and Henry C., to Ingersoll-Rand Co. Paving breaker steel. 2,900,178, 8-18-59, Cl. 262—33.
- Harrison, Henry C.: *See*—  
Gustafson, Walter G., and Harrison. 2,911,500.
- Harrison, Henry and Henry C. 2,900,178.
- Harrison, Henry C. and Henry, to Ingersoll-Rand Co. Deceleration torque limiter for impact tools. 2,889,902, 6-9-59, Cl. 192—02.
- Harrison, Homer S., to Allied Steel and Conveyors, Inc. Trolley conveyor incorporating automatic load transfer. 2,868,354, 1-13-59, Cl. 198—177.
- Harrison, Homer S., to Allied Steel and Conveyors, Inc. Automatic tubeless tire bead seating and inflating machine. 2,900,015, 8-18-59, Cl. 157—1.1.
- Harrison, Homer S., to Allied Steel and Conveyors, Division of the Sparks-Withington Co. Conveyor mounted automatically adjusting universal tire mounting machine. 2,900,018, 8-18-59, Cl. 157—1.24.
- Harrison, Homer S., to Allied Steel and Conveyors, Inc. Automatic valve stem inserter. 2,900,709, 8-25-59, Cl. 29—211.
- Harrison, Homer S., to Allied Steel and Conveyors, Inc. Ingot stacking apparatus. 2,919,041, 12-29-59, Cl. 214—6.
- Harrison, Geoffrey L., to Dowty Equipment of Canada Ltd. Hydraulic pumps. 2,913,985, 11-24-59, Cl. 103—37.
- Harrison, George C., to Minnesota Mining and Mfg. Co. Underground fluid storage containers. 2,914,923, 12-1-59, Cl. 61—5.
- Harrison, James M., and A. E. Somers, to Gulf Research & Development Co. Separation of binary mixtures of isomers of organic compounds. 2,884,470, 4-28-59, Cl. 260—674.
- Harrison, James W.: *See*—  
Houdry, Eugene J., and Harrison. 2,889,288.
- Harrison, John: *See*—  
Page, George J., and Harrison. 2,879,180.
- Harrison, John R., to E. I. du Pont de Nemours and Co. Oxidation of 1,3 butadiene to furan. 2,900,396, 8-18-59, Cl. 260—346.1.
- Harrison, John W.: *See*—  
Carleton, Granville E., Harrison, Heitman, and Dantowitz. 2,894,521.
- Harrison, John W., and J. R. L. Middleton. Gas regulators for gas engines. 2,894,829, 7-14-59, Cl. 48—184.
- Harrison, Joseph W., and R. W. Asay, to Thermoid Co. Apparatus for making corrugated flexible rubber tubes. 2,903,744, 9-15-59, Cl. 18—19.
- Harrison Laboratories, Inc.: *See*—  
Harrison, Charles W. 2,867,764.
- Harrison, Lawrence F.: *See*—  
Gehring, Arthur J., Jr., Harrison, and Stowe. 2,915,967.
- Harrison, Lee, III. Mounting of playground appliance. 2,879,995, 3-31-59, Cl. 272—30.
- Harrison, Lester E. Automatic throttle control mechanisms for automotive vehicles. 2,916,946, 12-15-59, Cl. 74—513.
- Harrison, Marvin E.: *See*—  
Bourns, Marlan E., Harrison, Goepfinger, and Gaa. 2,870,302.
- Bourns, Marlan E., Harrison, and Hardison. 2,873,337.
- Bourns, Marlan E., Harrison, Gaa, and Barrett. 2,886,681.
- Bourns, Marlan E., Harrison, and Stewart. 2,886,676.
- Harrison, Marvin E., R. C. Tyson, and R. H. Mellor, to Bourns Laboratories, Inc. Variable resistor constructions. 2,877,325, 3-10-59, Cl. 201—48.
- Harrison, Maurice. Church collection bag. 2,870,811, 1-27-59, Cl. 150—1.
- Harrison, Milo A., and J. C. Kovarik, to Great Lakes Carbon Corp. Rotary seal valve. 2,888,175, 5-26-59, Cl. 222—368.
- Harrison, Norman A.: *See*—  
L'Hommedieu, Paige D., and Harrison. 2,918,065.
- Harrison, Peter F.: *See*—  
Gaspar, Emeric, Munns, and Harrison. 2,880,461.
- Gaspar, Emeric, Munns, and Harrison. 2,894,286.
- Harrison, Richard L., to Sylvania Electric Products, Inc. Improved traveling wave tube amplifier. 2,919,374, 12-29-59, Cl. 315—3.5.
- Harrison, Richard L., and L. McKee, to Sylvania Electric Products Inc. Microwave transition elements. 2,869,082, 1-13-59, Cl. 333—21.
- Harrison, Robert D.: *See*—  
Frazier, Raymond L., and Harrison. 2,892,769.
- Harrison, Schuyler G. Plural-parts molded shoe structures. 2,912,771, 11-17-59, Cl. 36—2.5.
- Harrison, Schuyler G. Shoe structure having molded basic units. 2,912,772, 11-17-59, Cl. 36—2.5.
- Harrison-Simpson Co.: *See*—  
Fitzpatrick, William B. 2,872,981.
- Harrison, Stuart A., to General Mills, Inc. Epoxy resins including diimidazoline curing agents. 2,878,233, 3-17-59, Cl. 260—47.
- Harrison, Thomas S.: *See*—  
Anderson, John J., Harris, and Harrison. 2,887,273.
- Harrison, Thomas R., to Minneapolis-Honeywell Regulator Co. Air-pressure-operated proportional band adjustment. 2,915,079, 12-1-59, Cl. 137—86.
- Harrison, Walter D.: *See*—  
Dyer, John B., and Harrison. 2,880,621.
- Harrison, Wayne E.: *See*—  
Atchley, Raymond D., and Harrison. 2,873,429.
- Harrison, William F.: *See*—  
Sigler, Howard R., Myers, and Harrison. 2,872,727.
- Harrison, William J., to Potter & Blomfield, Inc. Contact structures for relays. 2,905,788, 9-22-59, Cl. 200—104.
- Harrison, Joseph W. E.: *See*—  
Scanlan, James J., and Harrison. 2,894,876.
- Harrop, Clifford B., to International Harvester Co. Cultivator clamp. 2,869,657, 1-20-59, Cl. 172—710.
- Harruff, Robert B., to General Motors Corp. Induction coil. 2,904,763, 9-15-59, Cl. 336—182.
- Harry, Gordon W., to General Motors Corp. Oscillatable diaphragm pumps. 2,873,686, 2-17-59, Cl. 103—150.
- Harry, Gordon W., to General Motors Corp. Air suspension system with automatic low pressure circuit cutoff. 2,912,254, 11-10-59, Cl. 280—124.
- Harry, Robert J.: *See*—  
Frownfelter, Charles R., Harry, Hassard, and Shearer. 2,912,716.
- Harry, William R., to Bell Telephone Laboratories, Inc. Object locating systems. 2,867,788, 1-6-59, Cl. 340—6.
- Harry, William R., to McGraw-Edison Co. Method and apparatus for the manufacture of ceramic ware. 2,898,658, 8-11-59, Cl. 25—22.
- Harry, William R., to McGraw-Edison Co. Circuit interrupter. 2,904,656, 9-15-59, Cl. 200—89.
- Harry, William R., to McGraw-Edison Co. Apparatus for forming plastic clay bodies. 2,915,801, 12-8-59, Cl. 26—27.
- Harsco Corp.: *See*—  
Heckett, Eric H. 2,887,225.
- Harshaw Chemical Co., The: *See*—  
Armstrong, Leonard J., and Mudrak. 2,875,083.
- Canarios, Chrysosthenis M. 2,868,745.
- Duro, George D. 2,875,081.
- Ford, Harry E., and Shenk. 2,891,979.
- Giordano, Anthony, and Straka. 2,881,097.
- Morris, William C., and Tesar. 2,875,085.
- Teller, Aaron J. 2,867,425.
- West, Charles P. 2,901,452.
- Weyl, Woldemar A. 2,875,086.
- Harshbarger, Walter J.: *See*—  
Cole, Rex, and Harshbarger. 2,902,592.
- Harshberger, Norman P. Method of forming reinforced pulp sheets. 2,913,363, 11-17-59, Cl. 162—105.
- Harshberger, Russell P. Drive mechanism for power driven tool. 2,892,353, 6-30-59, Cl. 74—61.
- Harshman, Daniel L., to Curtiss-Wright Corp. Automatic buzz control. 2,880,579, 4-7-59, Cl. 60—39.28.
- Harshman, Richard C., to Olin Mathieson Chemical Corp. Antiskinning compositions containing unsymmetrical dimethyl-hydrazine. 2,872,426, 2-3-59, Cl. 260—19.
- Harshman, Richard C., and B. M. Nicolaisen, to Olin Mathieson Chemical Corp. Extraction process utilizing modified alkyl hydrazine solvent. 2,914,472, 11-24-59, Cl. 208—330.
- Hart, Arthur A. Apparatus for producing concrete stair steps. 2,869,212, 1-20-59, Cl. 25—118.
- Hart, Andrew P. Portable road and turn-around. 2,912,909, 11-17-59, Cl. 94—11.
- Hart, Charles W. Seat device. 2,888,976, 6-2-59, Cl. 155—88.
- Hart & Cooley Mfg. Co.: *See*—  
Waalkes, Robert J., and Kietzmann. 2,902,919.
- Hart, Donald P., to Pittsburgh Plate Glass Co. Interpolymer of epoxy resin, polyamide resin and polysulfide resin. 2,919,255, 12-29-59, Cl. 260—23.
- Hart, Edgar L., Jr., B. R. Whaley, and R. W. Turnage, to Sonoco Products Co. Paper tube for forming concrete columns and the like having an overlapped inner ply with a coating material thereon. 2,914,833, 12-1-59, Cl. 25—118.
- Hart, Eugene J. Longitudinally adjustable telescopic brace. 2,907,598, 10-6-59, Cl. 287—58.
- Hart, Frank M., to Gates and Sons, Inc. Wire-cutting tool. 2,912,756, 11-17-59, Cl. 30—168.
- Hart, Frank W., to Hudson Engineering Corp. Securing apparatus. 2,875,867, 3-3-59, Cl. 189—35.
- Hart, Fred V., and E. S. Kant, to United Shoe Machinery Corp. Leveling machines. 2,879,526, 3-31-59, Cl. 12—34.5.
- Hart, Gene E., and H. F. Metcalf, to Carolina Knitting Machine Corp. Circular multi-feed hosiery knitting machine and method of knitting. Re. 24,616, 3-10-59, Cl. 66—42.
- Hart, George H., to The Hart Mfg. Co. Fastener for retaining casings in panels. 2,889,125, 6-2-59, Cl. 248—27.
- Hart, Harold P. Dual front axle suspension means and steering mechanism therefor. 2,901,264, 8-25-59, Cl. 280—91.
- Hart, Irwin M. Time-controlled activated vehicular speed limit signal. 2,902,672, 9-1-59, Cl. 340—74.
- Hart, Jack, to Radio Corp. of America. Grid and filament damper bar assembly. 2,880,352, 3-31-59, Cl. 313—279.
- Hart Mfg. Co., The: *See*—  
Bengtsson, Bartil S. 2,907,848.
- Hart, George H. 2,889,125.
- Hart, Oliver M. Improved welding unit. 2,871,440, 1-27-59, Cl. 323—74.
- Hart, Oliver M. Reciprocating switches. 2,883,495, 4-21-59, Cl. 200—163.



- Hart, Peter McB., and A. C. Hollerbach, to General Motors Corp. Pivoted arm rest assembly for vehicle body. 2,897,000, 7-28-59, Cl. 296-44.
- Hart, Porter, and H. C. Behrens, to The Dow Chemical Co. Determination of conductivity of liquids. 2,895,102, 7-14-59, Cl. 324-30.
- Hart, Robert T., to S. D. Warren Co. Process for finishing coated paper. 2,919,205, 12-29-59, Cl. 117-64.
- Hart, Robert W. High frequency integrating signal detector. 2,872,577, 2-3-59, Cl. 250-31.
- Hart, Vincent E.: *See*—  
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- Hart, William C.: *See*—  
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- Hart, William F., to American Cyanamid Co. Styrenated oil-modified alkyd resins modified with divinyl benzene and the process of preparing same. 2,919,253, 12-29-59, Cl. 260-22.
- Hart, William J.: *See*—  
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- Hart, William T.: *See*—  
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- Hartbauer, Ellsworth A.: *See*—  
Sramek, Elmer D., and Hartbauer. 2,885,844.
- Hartbauer, Ellsworth A., to F. B. Kedington Co. Tucking mechanism for packaging machine. 2,900,778, 8-25-59, Cl. 53-376.
- Hartek, Paul, and S. Dondes, to United States of America, Atomic Energy Commission. Method of fixing nitrogen for producing oxides of nitrogen. 2,898,277, 8-4-59, Cl. 204-154.
- Hartel, Erwin H., to Cleveland Pneumatic Industries, Inc. Self charging air-oil shock absorber. 2,892,625, 6-30-59, Cl. 267-64.
- Hartenstine, Charles R. Truck front wheel steering and suspension arrangement. 2,918,302, 12-22-59, Cl. 280-97.
- Hartenstein, Raymond G., to Westinghouse Electric Corp. Vibration and shock isolation mount. 2,917,264, 12-15-59, Cl. 248-358.
- Hartenstein, Raymond G., and J. J. Kerley, Jr., to Westinghouse Electric Corp. Vibration isolating mounts. 2,873,109, 2-10-59, Cl. 267-1.
- Harter, Artur, K.G.: *See*—  
Zach, Wilhelm. 2,867,039.
- Harter, Clair M., to C. I. Hull. Venetian blind stabilizer. 2,871,934, 2-3-59, Cl. 160-173.
- Harter, Donald G., to American Motors Corp. Refrigerating apparatus. 2,883,100, 4-21-59, Cl. 230-187.
- Harter, Isaac, Jr., T. W. Ratcliffe, and W. G. Wilson, to The Babcock & Wilcox Co. Continuous casting mold. 2,867,018, 1-6-59, Cl. 22-57.2.
- Harter, James R. R. Photographic reproduction method and apparatus. 2,871,287, 1-27-59, Cl. 178-6.7.
- Harter, Leslie H. Skewer for bolting cloth. 2,910,176, 10-27-59, Cl. 206-50.
- Harter, Paul G., and E. E. Staudt, to Eastman Kodak Co. Single-lens reflex camera. 2,916,978, 12-15-59, Cl. 95-42.
- Harter, William R.: *See*—  
Bruck, George, Harter, and Vandoch. 2,883,539.
- Harter, William R., to Arco Mfg. Corp. Stable oscillator. 2,908,869, 10-13-59, Cl. 331-72.
- Hartwig, Heinrich, A. Steding, and P. Eldel, to Didier-Kogag-Hinselmann, Koksofenbau und Gasverwertung, A. G. Apparatus for the regulable charging of regenerators. 2,872,385, 2-3-59, Cl. 202-141.
- Hartfield, Robert G., to Motorola, Inc. Remote oscillator trunk receiver. 2,876,345, 3-3-59, Cl. 250-20.
- Hartford Gun Choke Co., Inc.: *See*—  
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- Hartford Special Machinery Co., The: *See*—  
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- Storrs, William H. 2,876,746.
- Hartford, Willis G., J. W. Holt, and E. Jellinek, to Champion International Co. Apparatus for detecting defects in sheet materials. 2,896,196, 7-21-59, Cl. 340-259.
- Hartig, Rufus G., and J. R. Archer, to International Minerals & Chemical Corp. Method of recovering chemical mists from gases. 2,901,061, 8-25-59, Cl. 183-115.
- Harting, Glen R., to Borg-Warner Corp. Electromagnetic clutch or brake. 2,914,156, 11-24-59, Cl. 192-84.
- Hartke, Dexter C., to Hewlett-Packard Co. Pulsed crystal oscillator and method. 2,881,317, 4-7-59, Cl. 250-36.
- Hartkopf, Donald L. Scraper. 2,914,787, 12-1-59, Cl. 15-236.
- Hartlapp, Gerhard: *See*—  
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- Hartle, Robert B., to United States of America, Navy. Liner material for structural elements. 2,913,074, 11-17-59, Cl. 189-34.
- Hartle, Robert J., and H. I. Thayer, to Gulf Research & Development Co. 4 or 5-indanyl N-methyl carbamate. 2,870,057, 1-20-59, Cl. 167-30.
- Hartley Co., The: *See*—  
Sears, Hartley M. 2,914,027.
- Hartley, Cyril J. Apparatus for removing sludge from sludge drying beds. 2,917,177, 12-15-59, Cl. 210-272.
- Hartley, Emmett C., to Parker-Hannifin Corp. Method of and apparatus for molding rubber and rubber-like articles. 2,883,705, 4-28-59, Cl. 18-17.
- Hartley, Fred L., and T. V. Inwood, to Union Oil Co. of California. Process for hydrodesulfurizing hydrocarbons employing an impure hydrogen stream. 2,883,337, 4-21-59, Cl. 208-216.
- Hartley, George C.: *See*—  
Bray, Frederick H., King, and Hartley. 2,913,530.
- Hartley, Gilbert S., to Fisons Pest Control Ltd. Apparatus for the separation of solutes by partition. 2,895,808, 7-21-58, Cl. 23-267.
- Hartley, Gilbert S., and M. J. Mechanical distributors for applying artificial manures and other granular materials to land. 2,893,610, 7-7-59, Cl. 222-410.
- Hartley, Gilbert S., and P. O. Park, to Fisons Pest Control Ltd. Fungicidal preparations. 2,907,691, 10-6-59, Cl. 167-42.
- Hartley, Henry J., and C. S. Rankin, to Pacific Foundry Co., Ltd. Sulphur recovery. 2,877,100, 3-10-59, Cl. 23-294.
- Hartley, Marian J.: *See*—  
Hartley, Gilbert S. and M. J. 2,893,610.
- Hartley, Newell D. Syringe. 2,902,035, 9-1-59, Cl. 128-234.
- Hartley, Robert L., and M. B. Houck, to Harper J. Ransburg Co., Inc. Container. 2,916,184, 12-8-59, Cl. 220-69.
- Hartman, Carl D., to Bailey Meter Co. Moisture control in gas generators. 2,871,107, 1-27-59, Cl. 23-281.
- Hartman, Clinton W., A. M. Daily, and W. A. Barden, to Chicago Telephone Supply Corp. Variable resistor. 2,916,717, 12-8-59, Cl. 338-144.
- Hartman, Curtis A.: *See*—  
Woodward, Stephen G., and Hartman. 2,883,976.
- Hartman, Edward J., and J. N. Janes, to Childers Mfg. Co. Free-standing roof structures. 2,873,698, 2-17-59, Cl. 108-1.
- Hartman, Elmer C., to Hartman Metal Fabricators, Inc. Loading dock. 2,904,802, 9-22-59, Cl. 14-71.
- Hartman, Frank M., Sr. Dozer attachment for tractors. 2,874,492, 2-24-59, Cl. 37-144.
- Hartman, Fred G., Jr. Flush tank valves. 2,883,675, 4-28-59, Cl. 4-57.
- Hartman, George M., and C. A. Williams, to Charles H. Bacon Co. Method for making a pocket. 2,890,461, 6-16-59, Cl. 2-247.
- Hartman, Grant H.: *See*—  
Huston, Charles R., and Hartman. 2,912,768.
- Hartman, Herbert L., to The General Industries Co. Variable speed phonograph drive mechanisms. 2,876,648, 3-10-59, Cl. 74-191.
- Hartman, Jacob J.: *See*—  
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- Hartman, Joseph G.: *See*—  
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- Hartman, Joseph H. Protector. 2,890,710, 6-16-59, Cl. 137-382.
- Hartman Metal Fabricators, Inc.: *See*—  
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- Hartman, Paul F.: *See*—  
Beckvold, Oscar E., Jr., and Hartman. 2,872,487.
- Hartman, Paul C., to G. B. Lewis Co. Container having an integral card holding structure. 2,908,985, 10-20-59, Cl. 40-2.
- Hartman, William E., to Latrobe Steel Co. Method of making iron and steel alloys. 2,910,355, 10-27-59, Cl. 75-133.
- Hartmann, Albert E. Cleaning implements. 2,870,472, 1-27-59, Cl. 15-209.
- Hartmann, Alfons: *See*—  
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- Hartmann & Braun Aktiengesellschaft: *See*—  
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- Keller, Alexander. 2,900,585.
- Hartmann, Carl E.: *See*—  
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- Hartmann, Frederick C.: *See*—  
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- Hartmann, Gilbert L., to Milwaukee Faucets, Inc. Rotary pump assemblage. 2,884,863, 5-5-59, Cl. 103-103.
- Hartmann, Hans, to Aktiengesellschaft Brown, Boveri & Cie. High current transformer. 2,901,713, 8-25-59, Cl. 336-82.
- Hartmann Mfg. Co.: *See*—  
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- Hartmann, Philip. 2,915,980.
- Hartmann, Philip, and Brand. 2,905,095.
- Hartmann, Philip, to Hartmann Mfg. Co. Fluid pump or motor. 2,869,472, 1-20-59, Cl. 103-123.
- Hartmann, Philip, to Hartmann Mfg. Co. Pump or motor. 2,915,980, 12-8-59, Cl. 103-125.
- Hartmann, Philip, and G. W. Brand, to Hartmann Mfg. Co. Fluid pump or motor with fluid pressure balancing means. 2,905,095, 9-22-59, Cl. 103-125.
- Hartmann, Rudolf: *See*—  
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- Hartmann, Waldemar. Method of aggregating carbonaceous material. 2,907,645, 10-6-59, Cl. 44-16.
- Hartmann, Werner. Spherical ball valve. 2,885,179, 5-5-59, Cl. 251-315.
- Hartmann, William A., Jr., to Bendix Aviation Corp. Motor control system. 2,867,761, 1-6-59, Cl. 318-230.
- Hartridge, Virginia M. Disappearing and slidable step-chair for kitchen cabinets and the like. 2,881,040, 4-7-59, Cl. 312-235.



- Hartfield, William L. Microphones. 2,910,539, 10-27-59, Cl. 179-111.
- Hartshorn, Earl D., deceased; J. Hartshorn, administrator of said E. D. Hartshorn. Flask charging device. 2,889,652, 6-9-59, Cl. 42-1.
- Hartshorn, Jim: See—  
Hartshorn, Earle D. 2,889,652.
- Hartung, George A.: See—  
Austin, Charles G., and Hartung. 2,908,503.
- Hartung, Raymond E. Method of pressing or stamping articles. 2,886,886, 5-19-59, Cl. 29-553.
- Hartung, Robert L., to B & H Instrument Co., Inc. Frequency responsive device. 2,902,647, 9-1-59, Cl. 324-78.
- Hartung, Robert L., to B & H Instrument Co., Inc. Adjustable resistance devices. 2,919,400, 12-29-59, Cl. 324-63.
- Hartupsee, Robert P.: See—  
Lundy, Alvin S., Hartupsee, and Panzica. 2,886,298.
- Hartwell Aviation Supply Co.: See—  
Henrichs, Bernard W. 2,874,986.  
Henrichs, Bernard W. 2,896,751.  
Henrichs, Bernard W. 2,904,141.  
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- Hartwell, Clark: See—  
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Henrichs, Bernard W. 2,896,751.  
Henrichs, Bernard W. 2,904,141.  
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- Hartwell, George E., and J. V. Mertes, to Pittsburgh Plate Glass Co. Rotary brush sections. 2,885,706, 5-12-59, Cl. 15-179.
- Hartwell, Ralf L., to Metal Textile Corp. Vibration and shock absorptive cushion element. 2,869,858, 1-20-59, Cl. 267-1.
- Hartwig, Albert F., to McDonnell Aircraft Corp. Controllable apparatus for radius cutters. 2,869,431, 1-20-59, Cl. 90-19.
- Hartwig, Arthur H.: See—  
Rothfuchs, Oscar E., and Hartwig. 2,906,012.
- Hartwig, Edward C.: See—  
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Large, William E., and Hartwig. 2,892,148.
- Hartwig, Edward C., R. W. Kuenning, and R. C. Acker, to United States of America, Atomic Energy Commission. Ultra-stabilized D. C. amplifier. 2,874,235, 2-17-59, Cl. 179-171.
- Hartwig, Frederick J., to The Babcock & Wilcox Co. Segmented casing for kaolin melting furnace. 2,874,201, 2-17-59, Cl. 13-23.
- Hartwig Inc.: See—  
Goff, Anthony B. 2,889,184.
- Hartwig, Karl: See—  
Erbe, Otto A. K., Hartwig, and Rakebrandt. 2,869,373.
- Hartwig, Walter J., to Allis-Chalmers Mfg. Co. Vibrating grinding mill having a means for preventing grinding media tracking and excessive mill wear. 2,911,160, 11-3-59, Cl. 241-175.
- Harty, Hershel A., J. N. Dallman, and V. G. Brunton, to United States Borax & Chemical Corp. Apparatus for removing adhering material from belt conveyors. 2,878,926, 3-24-59, Cl. 198-230.
- Harty, R. V., Co., Inc.: See—  
Harty, Ralph V. 2,872,183.  
Harty, Ralph V. 2,889,565.  
Harty, Ralph V. 2,903,854.  
Harty, Ralph V. 2,916,762.
- Harty, Ralph V., to R. V. Harty Co., Inc. Driving mechanisms. 2,872,183, 2-3-59, Cl. 268-53.
- Harty, Ralph V., to R. V. Harty Co., Inc. Lift bridge. 2,889,565, 6-9-59, Cl. 14-42.
- Harty, Ralph V., to R. V. Harty Co., Inc. Door controlling system. 2,903,854, 9-15-59, Cl. 60-54.5.
- Harty, Ralph V., to R. V. Harty Co., Inc. Door check. 2,916,762, 12-15-59, Cl. 16-55.
- Hartz, Harry J., to Minneapolis-Honeywell Regulator Co. Control apparatus with electro-magnetic rate and reset. 2,896,655, 7-28-59, Cl. 137-86.
- Hartz, Helmut: See—  
Happ, Hermann, and Hartz. 2,910,843.
- Hartz, William W., to Daystrom Inc. Printed circuit assembly. 2,896,033, 7-21-59, Cl. 200-11.
- Hartzband, Harry M., to Esso Research and Engineering Co. Motor fuel composition containing silica gel-extracted bright stock. 2,904,493, 9-15-59, Cl. 208-17.
- Hartzell, Blanche D.: See—  
Donehower, William P. 2,866,990.
- Hartzell, Herman L., D. C. Redick, and C. L. Julian, to General Motors Corp. Distributor structure. 2,872,537, 2-3-59, Cl. 200-31.
- Hartzell, Maurice H.: See—  
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- Harvard Mfg. Co.: See—  
Roche, Melvin E. 2,883,680.  
Roche, Melvin E., and Jackson. 2,911,656.  
Sands, Hillard J. 2,882,535.  
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- Harvel Research Corp.: See—  
Grasso, Flavio J., and Dow. 2,885,376.  
Harvey, Mortimer T., and Breznak. 2,872,431.  
Harvey, Mortimer T., and Rosamilia. 2,917,488.
- Harvestaire, Inc.: See—  
Rogers, Robert E. 2,913,110.  
Rogers, Robert E. 2,913,111.
- Harvester Plow Co., Inc.: See—  
Hayse, Paul F. 2,905,254.
- Harvey, Albert J. Jogger. 2,890,885, 6-16-59, Cl. 271-89.
- Harvey, Albert L. and E. E. Mowing machine shoe. 2,910,820, 11-3-59, Cl. 56-314.
- Harvey, Bernard A.: See—  
Peterson, Eric O., and Harvey. 2,878,841.
- Harvey, Bernhard C., Jr.: See—  
Cholvin, Robert L., Harvey, and Jensen. 2,909,323.
- Harvey, Clarence W. Rod and reel case. 2,902,790, 9-8-59, Cl. 43-26.
- Harvey, Douglass C.: See—  
Nerwin, Hubert, and Harvey. 2,869,748.
- Harvey, Earle M., to United States of America, Army. Gas-operated actuating system for firearms. 2,870,685, 1-27-59, Cl. 89-191.
- Harvey, Earle M., to United States of America, Army. Combination stabilizer, recoil break, flash hider, and grenade launcher for a firearm. 2,883,781, 4-28-59, Cl. 42-1.
- Harvey, Earle M., to United States of America, Army. Obturating means for a firearm. 2,889,748, 6-9-59, Cl. 89-26.
- Harvey, Edgar E.: See—  
Harvey, Albert L. and E. E. 2,910,820.
- Harvey, Edmund N., Jr., to Kee Lox Mfg. Co. Copying paper and method of manufacture. 2,893,890, 7-7-59, Cl. 117-36.
- Harvey, Frank G., to Canadian Lift Truck Co. Ltd. Overload warning device for fork lift trucks. 2,868,919, 1-13-59, Cl. 200-85.
- Harvey, Gilbert N., to The Sperry Gyroscope Co. Ltd. System for correction of magnetic compasses. 2,900,736, 8-25-59, Cl. 33-224.
- Harvey, Herbert A.: See—  
McLaughlin, George H., and Harvey. 2,919,396.
- Harvey, Herbert, and S. A. Stam, to United States of America, Army. Light weight T-20 shoulder stock for 3.5 inch rocket launcher. 2,913,960, 11-24-59, Cl. 89-17.
- Harvey, Homer M. Apparatus for making electrode sticks. 2,894,282, 7-14-59, Cl. 18-18.
- Harvey, Horace A., to I-T-E Circuit Breaker Co. Electric control circuit. 2,884,570, 4-28-59, Cl. 317-60.
- Harvey, Ione A. Educational device for use in teaching arithmetic. 2,892,267, 6-30-59, Cl. 35-31.
- Harvey, Jack B.: See—  
Adams, Robert T., and Harvey. 2,894,233.  
Adams, Robert T., and Harvey. 2,916,618.
- Harvey, John F., to The Babcock & Wilcox Co. Pressure vessel flange with anti-rotation rings. 2,919,048, 12-29-59, Cl. 220-39.
- Harvey, Joseph S., Jr., to Sylvania Electric Products Inc. Electron tube. 2,912,794, 11-17-59, Cl. 49-92.5.
- Harvey Machine Co., Inc.: See—  
Bagdanovich, Michael P., and Wilson. 2,887,055.  
Loewenstein, Hirsch. 2,867,525.
- Harvey, Maurice S.: See—  
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- Harvey, Mortimer T., and E. Breznak, to Harvel Research Corp. Compositions comprising a rubber and a halogenated reaction product of furfural and butadiene. 2,872,431, 2-3-59, Cl. 260-45.5.
- Harvey, Mortimer T., and P. L. Rosamilia, to Harvel Research Corp. Vacuum dehydration of the residue from the furfural extraction of butadiene. 2,917,488, 12-15-59, Cl. 260-67.
- Harvey, Robert P.: See—  
Smith, Brenner E., and Harvey. 2,905,423.
- Harvey, Sid, Inc.: See—  
Harvey, Sidney W. 2,903,662.
- Harvey, Sidney W., to Sid Harvey, Inc. Transformer box for universal application as replacement equipment. 2,903,662, 9-8-59, Cl. 336-96.
- Harvey, Stefan J. Shock absorber. 2,868,537, 1-13-59, Cl. 267-64.
- Harvey, Thabus R.: See—  
Gulley, Ronald A., Harvey, and Schreiber. 2,868,130.
- Harvey, Valentine P., and F. Parry, to Molins Machine Co., Ltd. Fuse setter combined with loading mechanism. 2,887,011, 5-19-59, Cl. 89-6.5.
- Harvey, Wildon T., and S. W. Ferris, to Sun Oil Co. Wax compositions. 2,906,443, 9-29-59, Cl. 229-3.1.
- Harvey, William H., to United Products Corp. Luggage construction. 2,903,105, 9-8-59, Cl. 190-54.
- Harwood, Edgar H., to R. J. Reynolds Tobacco Co. Cigarette paper. 2,886,041, 5-12-59, Cl. 131-15.
- Harwood, Floyd E., to Parsons Corp. Solenoid construction. 2,904,729, 9-15-59, Cl. 317-191.
- Harwood, Gordon M.: See—  
Berry, Raymond T., and Harwood. 2,868,332.
- Harwood, James, to Armour and Co. Growth promotant substances. 2,881,074, 4-7-59, Cl. 99-2.
- Harwood, James, R. G. Brault, and R. A. Reck, to Armour and Co. Water insoluble plant hormone carboxylic acid salts of higher alkyl amines. 2,900,411, 8-18-59, Cl. 260-501.
- Harwood, James, R. A. Reck, and W. W. Abramitis, to Armour and Co. Fungicidal compositions. 2,902,401, 9-1-59, Cl. 167-22.



- Harwood, Kenneth J. *See*—  
Hirschy, Harlan W., Rowe, and Harwood. 2,902,395.
- Harwood, Kenneth J., to Kimberly-Clark Corp. Sanitary napkin. 2,896,627, 7-28-59, Cl. 128—290.
- Harwood, Kenneth J., to Kimberly-Clark Corp. Disposable absorbent pad. 2,897,108, 7-28-59, Cl. 154—50.
- Harwood, Kenneth J., to Kimberly-Clark Corp. Cellulosic product. 2,900,980, 8-25-59, Cl. 128—290.
- Harwood, Kenneth J., H. A. Mayo, and J. C. Bletzinger, to Kimberly-Clark Corp. Sanitary napkin. 2,902,037, 9-1-59, Cl. 128—290.
- Harwood, Oliver P., to Douglas Aircraft Co., Inc. Diaphragm valve. 2,875,976, 3-3-59, Cl. 251—321.
- Harwood, Robert H.: *See*—  
Nye, Robert G., McCown, and Harwood. 2,903,626.
- Harwood, Robert H., Z. D. Reynolds, and E. G. Hedger, to United States of America, Navy. Sonar signal simulator. 2,881,535, 4-14-59, Cl. 35—10.4.
- Harwood, Stanley G.: *See*—  
Kenney, Robert W. 2,907,340.
- Harwood, William J.: *See*—  
Scarrott, Gordon G., Harwood, and Johnson. 2,883,534.
- Harz, Hermann: *See*—  
Gärtner, Günter, Schwab, and Harz. 2,900,540.
- Hasbrook, Arthur F., to O. S. Petty. Radiolocation method and apparatus. 2,913,719, 11-17-59, Cl. 343—103.
- Hasbrouck, Harold J.: *See*—  
Farrand, Clair L., and Hasbrouck. 2,907,246.
- Hasbrouck, Harold J., Jr. Clamp for securing end of tape or film to a reel. 2,891,737, 6-23-59, Cl. 242—74.2.
- Hasche, Blanche K.: *See*—  
Hasche, Rudolph L. 2,909,904.
- Hasche, Rudolph L., deceased; B. K. Hasche, executrix, to Carbonic Development Corp. Treatment of natural gas in distribution systems. 2,909,904, 10-27-59, Cl. 62—23.
- Haschek, Leo. Map assembly including location director. 2,891,314, 6-23-59, Cl. 33—1.
- Haschke, Fred. Plastic webbing for steamer deck chairs. 2,871,926, 2-3-59, Cl. 155—187.
- Hasek, Robert H.: *See*—  
Elam, Edward U., and Hasek. 2,875,252.
- Hasek, Robert H., and J. E. Hardwicke, to Eastman Kodak Co. Divinyl-1,4-dioxanes and cross-linked polymers thereof. 2,912,439, 11-10-59, Cl. 260—340.6.
- Hasek, Robert H., and M. B. Knowles, to Eastman Kodak Co. Preparation of trans-1,4-cyclohexanedimethanol. 2,917,549, 12-15-59, Cl. 260—617.
- Haselden, Alfred J.: *See*—  
Young, Franklin A., and Haselden. 2,896,270.
- Haselden, Geoffrey G. Fractionating apparatus. 2,885,195, 5-5-59, Cl. 261—112.
- Hassell, Henry P.: *See*—  
Summers, William J., and Hassell. 2,882,214.
- Hassell, Henry P., H. S. Fox, and E. Zilahy, to Westinghouse Electric Corp. Automatic mount making machine for projector lamps and lead wire detector and bead feeding device therefor. 2,876,589, 3-10-59, Cl. 49—2.
- Hassell, Henry P., H. S. Fox, and E. Zilahy, to Westinghouse Electric Corp. Automatic mount making machine for projector lamps. 2,876,590, 3-10-59, Cl. 49—2.
- Hassell, Henry P., H. S. Fox, and E. Zilahy, to Westinghouse Electric Corp. Automatic mount making machine for projector lamps and lead wire detector and lead wire removal device therefor. 2,876,900, 3-10-59, Cl. 209—72.
- Hasselton, Merton L.: *See*—  
Cornwell, John W., Hasselton, and Schmidt. 2,883,106.
- Haseman, Joseph F., to International Minerals & Chemical Corp. Phosphate mineral beneficiation process. 2,914,174, 11-24-59, Cl. 209—166.
- Haser, Donald G.: *See*—  
Knighton, Daniel J., Haser, and Fiedler. 2,874,921.
- Hashimoto, Edward Y. Jalousie window having gang connector plates. 2,892,221, 6-30-59, Cl. 20—62.
- Haske, John R.: *See*—  
Blake, James C., Deady, and Haske. 2,910,077.
- Haskel Engineering Associates: *See*—  
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- Hill, David C. 2,903,310.
- Haskelite Mfg. Corp.: *See*—  
Kloote, George E., Meier, and Potchen. 2,896,271.
- Kloote, George E., Potchen, and Meier. 2,887,732.
- Kloote, George E., Potchen, and Meier. 2,907,383.
- Meier, George D., Kloote, and Potchen. 2,898,258.
- Potchen, Joseph A. 2,887,740.
- Potchen, Joseph A. 2,890,868.
- Potchen, Joseph A., and Kloote. 2,893,075.
- Potchen, Joseph A., Kloote, and Meier. 2,875,117.
- Haskell, Edward C., and H. Burrell, to Interchemical Corp. Coatings for food containers. 2,885,293, 5-5-59, Cl. 99—187.
- Haskell Mfg. Co., Inc.: *See*—  
Jarvi, Carl W. 2,882,112.
- Haskell, Philip R.: *See*—  
Crittendon, Lexie R., Hailston, Haskell, Kelly, and Leek. 2,891,341.
- Haskell, Philip R., P. A. Ketchpel, Jr., and F. P. Knapik, to Remington Arms Co., Inc. Cartridge-powered impact tool. 2,893,279, 7-7-59, Cl. 81—52.35.
- Haskell, Philip R., R. E. Evans, P. A. Ketchpel, Jr., and L. B. Connor, to Remington Arms Co., Inc. Cartridge-powered piston type tool. 2,890,685, 6-16-59, Cl. 123—24.
- Haskell, Theodore H.: *See*—  
Prohardt, Roger P., Haskell, Ehrlich, and Knudsen. 2,916,485.
- Haskett, Herbert L. Controller for water systems. 2,899,900, 8-18-59, Cl. 103—6.
- Haskey, Richard R.: *See*—  
Mazur, Nicholas, and Haskey. 2,916,297.
- Haskin, Lawrence H., Jr., to Champlain Co., Inc. Stamp printing apparatus. 2,912,926, 11-17-59, Cl. 101—76.
- Haskins, Fred J.: *See*—  
Jones, Augustus, and Haskins. 2,886,420.
- Haskins, Lewis S., to Hardfield Corp. Containers of capsule like form. 2,899,097, 8-11-59, Cl. 220—4.
- Haskins, Reginald H., and J. F. T. Spencer, to National Research Council. Production of lysine arginine and glutamic acids. 2,902,409, 9-1-59, Cl. 195—36.
- Haskin, John H., to E. I. du Pont de Nemours and Co. Production of titanium esters. 2,880,221, 3-31-59, Cl. 260—429.5.
- Haslam, John H., to E. I. du Pont de Nemours and Co. Fungicide. 2,913,369, 11-17-59, Cl. 167—30.
- Haslam, Robert, and S. H. Davidson, to Imperial Chemical Industries Ltd. Reutilisable blasting assemblies. 2,871,786, 2-3-59, Cl. 102—25.
- Haslam-Jones, Frank H., to John Jardine, Ltd. Jacquard machines. 2,896,497, 7-28-59, Cl. 87—14.
- Hasleau, William S. Non-choking plow roller. 2,871,955, 2-3-59, Cl. 172—63.
- Hasler, Arthur D., and W. J. Wisby, to United States of America, Navy. Method of repelling fish comprising treating with potassium phenyl acetate. 2,880,133, 3-31-59, Cl. 167—46.
- Hasler, Maurice F., to Applied Research Laboratories, Inc. Spectroscopy. 2,897,371, 7-28-59, Cl. 250—83.3.
- Haslett, Elmer. Method of making artificial flowers. 2,908,095, 10-13-59, Cl. 41—13.
- Hasley, Andrew D., to Bell Telephone Laboratories Inc. Hard tube modulator pulse transformer. 2,903,583, 9-8-59, Cl. 250—27.
- Hass, David P., to Chrysler Corp. Constant ratio clutch lever system. 2,880,835, 4-7-59, Cl. 192—99.
- Hass, Edward C. Photo-electric sighting device. 2,882,520, 4-14-59, Cl. 340—190.
- Hassard, Richard S.: *See*—  
Frownfelter, Charles R., Harry, Hassard, and Shearer. 2,912,716.
- Hassel, Lloyd V.: *See*—  
Feigley, David A., Jr., and Hassel. 2,905,583.
- Hassel, Lloyd V., to Armstrong Cork Co. Method of fabricating unbacked surface coverings. 2,913,773, 11-24-59, Cl. 18—59.2.
- Hasselbaum, Oscar H., to Joseph Pollak Corp. Rotary switch assembly with a signal lamp. 2,902,646, 9-1-59, Cl. 324—73.
- Hasselbohm, Sune S. S., to Telefonaktiebolaget L M Ericsson. Method for fastening a connection terminal in an insulating block. 2,869,106, 1-13-59, Cl. 339—198.
- Hasselman, Herbert P., and C. B. Marshall, to Sylvania Electric Products Inc. Tilting grid loader. 2,885,059, 5-5-59, Cl. 198—26.
- Hasselstrom, Torsten: *See*—  
Pomerantz, Reuben, Degering, and Hasselstrom. 2,904,392.
- Hasselstrom, Torsten, and M. C. Henry. Process for synthesizing oxalic acid by irradiation. 2,886,501, 5-12-59, Cl. 204—154.
- Hasser, George L.: *See*—  
Cox, John E., and Hasser. 2,917,585.
- Horwitz, Henry L., and Hasser. 2,871,300.
- Horwitz, Henry L., Homan, and Hasser. 2,876,287.
- Hassett, Frederick W., to American Window Glass Co. Laminated product and manufacture thereof. 2,887,806, 5-26-59, Cl. 41—21.
- Hassett, Thomas G. Interlocking building assembly. 2,869,692, 1-20-59, Cl. 189—34.
- Hassler, Gerald L., W. Warren, and J. S. Egan, to Burton Mfg. Co. Apparatus for measuring and controlling the composition of vapor. 2,909,058, 10-20-59, Cl. 73—17.
- Hassler, John W., O. A. Westley, and J. G. Filicky, to West Virginia Pulp and Paper Co. Manufacture of active carbon from anthracite coal. 2,894,914, 7-14-59, Cl. 252—445.
- Hassler, Winfield S., to Morton Salt Co. Dispensing apparatus. 2,891,703, 6-23-59, Cl. 222—480.
- Hassloch, Hugo O., Jr. Floral vase attaching device. 2,879,968, 3-31-59, Cl. 248—318.
- Hast, Nils B. Ascertaining stresses and deformations in solid loaded materials. 2,898,761, 8-11-59, Cl. 73—88.
- Hastings, Clark L., to Rochester Mfg. Co., Inc. Mechanical tachometer. 2,910,037, 10-27-59, Cl. 116—57.
- Hastings, Homer R., to General Motors Corp. Variable resistor sending unit for gages. 2,877,327, 3-10-59, Cl. 201—48.
- Hastings, Homer R., and C. A. Haut, to General Motors Corp. Electromagnetic indicating instruments. 2,883,623, 4-21-59, Cl. 324—140.
- Hastings, Homer R., and B. L. Stevens, to General Motors Corp. Liquid level signal arrangements. 2,899,517, 8-11-59, Cl. 200—84.
- Hastings Mfg. Co.: *See*—  
Phillips, Harold P. 2,887,180.
- Phillips, Harold P., and Cook. 2,869,200.
- Phillips, Harold P., and Johnson. 2,880,788.



- Hastings, Norman R. Combination ashtray and lighted cigarette support. 2,883,992, 4-28-59, Cl. 131-235.
- Hastings, Otis H. Vehicle cover-all assembly. 2,871,931, 2-3-59, Cl. 160-21.
- Hastings, Paul F.: *See—*  
Merry, Albert B., and Hastings. 2,871,585.
- Hastings, Russell, Jr., to Clark Equipment Co. Latch linkage means. 2,898,872, 8-11-59, Cl. 105-366.
- Hastings, Russell, Jr., to Clark Equipment Co. Materials handling device. 2,917,196, 12-15-59, Cl. 214-701.
- Hastings, Russell, Jr., and E. R. Backofen, to Clark Equipment Co. Extensible upright for lift trucks. 2,906,373, 9-29-59, Cl. 187-9.
- Hastings, Russell, Jr., H. A. Mackie, and J. M. Squier, to Clark Equipment Co. Overhead guard for industrial lift truck. 2,911,232, 11-3-59, Cl. 280-150.
- Hastings, Warren W., to Rochester Mfg. Co., Inc. Gauge movement. 2,914,949, 12-1-59, Cl. 73-406.
- Hastrup, Herman and R. C. Surface contactor for blast cleaning machine. 2,878,624, 3-24-59, Cl. 51-11.
- Hastrup, Rolf C.: *See—*  
Hastrup, Herman and R. C. 2,878,624.
- Hastrup, Rolf C. Dust bag assembly. 2,987,915, 8-4-59, Cl. 183-51.
- Haszeldine, Robert N. 1,1 diethoxy-3,3,3-trifluoropropane. 2,883,429, 4-21-59, Cl. 260-615.
- Haszeldine, Robert N., and H. Iserson, to Pennsalt Chemicals Corp. Preparation of tetrahalomethanes. 2,907,798, 10-6-59, Cl. 260-653.
- Hat Corp. of America: *See—*  
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- Hata, Ikuzo: *See—*  
Suyama, Hidenari, Kobayashi, Sakata, Hata, Uzumaki, Ishii, Kiyota, and Hakioka. 2,890,927.
- Hatch, Albert M., to Borg-Warner Corp. Servo valve. 2,917,080, 12-15-59, Cl. 137-624.
- Hatch, Charles H. Door holding device. 2,908,032, 10-13-59, Cl. 16-80.
- Hatch, Edmond K.: *See—*  
Miller, Leon F., and Hatch. 2,908,950.
- Hatch, Herman R. Steel mail box support for steel post. 2,868,488, 1-13-59, Cl. 248-149.
- Hatch, Howard E., to A. P. Saris. Rust eradicant and method of using same. 2,873,256, 2-10-59, Cl. 252-136.
- Hatch, James F.: *See—*  
Jolliffe, Sidney A. W., Byatt, Watson, Hatch, and French. 2,917,741.
- Hatch, James W., to Monarch Engineering Corp. Multiple-section pump barrel. 2,883,246, 4-21-59, Cl. 309-2.
- Hatch, James W., to Monarch Engineering Corp. Method for assembling multiple-section cylinders. 2,897,586, 8-4-59, Cl. 29-467.
- Hatch, Loranus P., to United States of America, Atomic Energy Commission. Radioactive concentrator and radiation source. 2,918,700, 12-29-59, Cl. 18-475.
- Hatch, Loranus P., F. T. Miles, T. V. Sheehan, R. W. Wiswall, and R. J. Heus, to United States of America, Atomic Energy Commission. Process for continuously separating irradiation products of thorium. 2,893,936, 7-7-59, Cl. 204-154.2.
- Hatch, Robert L.: *See—*  
Hammesfahr, Frederic W., and Hatch. 2,914,450.
- Hatch, Walter H., to Esso Research and Engineering Co. Integrated process for production of improved asphalt. 2,913,391, 11-17-59, Cl. 208-40.
- Hatcher, Glenn B., to Bloomer Bros. Co. Carton erecting machine. 2,894,432, 7-14-59, Cl. 93-37.
- Hatcher, Joseph H.: *See—*  
Bannister, Constance, and Hatcher. 2,870,930.
- Hatcher, Robert D.: *See—*  
Spencer, Edward G., Reggia, Tompkins, and Hatcher. 2,905,940.
- Hatcher, Robert L., to Noll Mfg. Co. Roof ventilator. 2,909,113, 10-20-59, Cl. 98-46.
- Hatcher, Roy A. Process for sizing garments. 2,907,676, 10-6-59, Cl. 117-66.
- Hatchett, George L., to Northrop Corp. Printed circuit relay. 2,917,601, 12-15-59, Cl. 200-104.
- Hatchett, Horace N. Motor vehicle speed setting device. 2,890,596, 6-16-59, Cl. 74-531.
- Hatfield Electric Co.: *See—*  
Leblang, William M. 2,899,159.
- Hatfield, John A.: *See—*  
Adolfson, George, and Hatfield. 2,883,241.
- Hatfield, Lester N., to Fairchild Camera and Instrument Corp. Mechanical stop for potentiometers. 2,872,553, 2-3-59, Cl. 201-48.
- Hatfield, Marcus R., to Union Carbide Corp. Primary galvanic cells. 2,904,613, 9-15-59, Cl. 136-146.
- Hatfield, Robert L., and R. C. Webster, to W. E. Anderson, Inc. High pressure, explosion proof, fluid flow controlled electrical switch. 2,887,546, 5-19-59, Cl. 200-81.9.
- Hathaway, Jarrett L., to Radio Corp. of America. Audience survey system. 2,903,508, 9-8-59, Cl. 178-6.
- Hathaway, Robert J., to Miles Laboratories, Inc. Method of preparing methyl 2-ketogluconate. 2,918,492, 12-22-59, Cl. 260-483.
- Hathorn, William R., Jr. Portable barbecue pits. 2,902,026, 9-1-59, Cl. 126-25.
- Hathorn, William R., Jr. Barbecue apparatus. 2,909,170, 10-20-59, Cl. 126-25.
- Hathway, David E.: *See—*  
Jones, Ewart R. H., Hembest, Woods, Hathway, and Thomas. 2,897,213.
- Hatkin, Leonard, to United States of America, Army. High gain omniazimuth antenna. 2,871,477, 1-27-59, Cl. 343-728.
- Hatkin, Leonard, to United States of America, Army. Conical scanning antenna. 2,881,432, 4-7-59, Cl. 343-756.
- Hatsopoulos, George N., and J. Kaye, to Thermo Electron Engineering Corp. Conversion of thermal energy into electrical energy. 2,915,652, 12-1-59, Cl. 310-4.
- Hatt, Lawrence R.: *See—*  
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- Hattan, Mark: *See—*  
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- Hattan, Mark, 1/4 to W. P. Green. Rotary transmissions. 2,899,844, 8-18-59, Cl. 74-688.
- Hattersley, Thomas E., to General Dynamics Corp. Micro-strip filters. 2,915,716, 12-1-59, Cl. 333-73.
- Hatton, J. B.: *See—*  
Ushakoff, Alexis E. 2,868,614.  
Ushakoff, Alexis E. 2,906,591.
- Hatton, William, to International Telephone and Telegraph Corp. Party line identification system. 2,889,410, 6-2-59, Cl. 179-17.
- Hauch, John. Arrowhead construction. 2,873,973, 2-17-59, Cl. 273-106.5.
- Hauck, Edwin J., and S. Suda, to The Babcock & Wilcox Co. Apparatus for the recovery of heat and chemicals. 2,867,195, 1-6-59, Cl. 122-240.
- Hauck, Frederick P.: *See—*  
Dickey, Robert C., Hauck, and Archer. 2,869,511.
- Hauck, Julius J.: *See—*  
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- Hauck Mfg. Co.: *See—*  
Schreier, Robert E., and Turpin. 2,905,543.
- Hauck, Paul A., to Hanson-Van Winkle-Munning Co. Processing machines and controls therefor. 2,885,055, 5-5-59, Cl. 198-19.
- Hauck, Paul A., to Hanson-Van Winkle-Munning Co. Apparatus for performing treatment operations on workpieces. 2,902,181, 9-1-59, Cl. 214-89.
- Hauck, Theodore, to General Bronze Corp. Window scupper arrangement. 2,891,290, 6-23-59, Cl. 20-70.
- Hauck, Theodore, to General Bronze Corp. Awning type window structure. 2,901,065, 8-25-59, Cl. 189-67.
- Hauck, Wilhelm C. Sheet transfer devices for the reciprocating table of a printing machine. 2,893,732, 7-7-59, Cl. 271-54.
- Hauel, Anna P.: *See—*  
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- Hauenstein, George C.: *See—*  
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- Hauer, Erwin F. Trellis. 2,891,397, 6-23-59, Cl. 72-41.
- Hauer, Gerald E., to The American Well Works. Diffuser. 2,917,295, 12-15-59, Cl. 261-124.
- Hauf, George F., to Chicago Metal Mfg. Co. Roller shaft bearing for cold roll forming machine. 2,895,531, 7-21-59, Cl. 153-65.
- Hauf, George F., to Chicago Metal Mfg. Co. Prefabricated sealed building construction. 2,915,791, 12-8-59, Cl. 20-2.
- Haug, Albert, to F. Kruckenberg. Resilient couplings for train cars. 2,884,869, 5-5-59, Cl. 105-4.
- Haug, Richard J. Portable tool with back carried engine. 2,909,068, 10-20-59, Cl. 74-16.
- Haug, Samuel E., to Forney Generators, Inc. Pulley. 2,917,935, 12-22-59, Cl. 74-230.01.
- Hauge, Edward J., to Motorola, Inc. Color television receiver. 2,880,360, 3-31-59, Cl. 315-13.
- Haugen, Glenn L.: *See—*  
Gryder, William L., and Haugen. 2,867,200.
- Haugen, Glenn L., to Bendix Aviation Corp. Reduction of multivibrator recovery time. 2,898,478, 8-4-59, Cl. 307-88.5.
- Haugh, Eugene F., to E. I. du Pont de Nemours and Co. Preparation of oriented polymer films. 2,904,841, 9-22-59, Cl. 18-48.
- Haugwitz, Otto, to Société Anonyme dite: Geoffroy-Delore. Coiling apparatus. 2,886,258, 5-12-59, Cl. 242-82.
- Haugwitz, Otto, to Sie. Anonyme Geoffroy-Delore. Wire tin-veyer system for heat treatment. 2,894,737, 7-14-59, Cl. 263-6.
- Haugwitz, Otto, to Société Anonyme Geoffroy-Delore. Con-jing systems. 2,896,869, 7-28-59, Cl. 242-25.
- Haugwitz, Otto, to Société Anonyme Geoffroy-Delore. System for continuously reeling wire from drum containers. 2,911,166, 11-3-59, Cl. 242-128.
- Haugwitz, Otto, to Société Anonyme Geoffroy Delare. Machine for the production of packed coils of wire and the like. 2,914,897, 12-1-59, Cl. 53-118.
- Haumann, George, to Irvington Machine Works, Inc. Trimmer saw machine and selective control therefor. 2,881,811, 4-14-59, Cl. 143-41.
- Haumann, George, to Irvington Machine Works, Inc. Shock absorbing mechanism. 2,882,039, 4-14-59, Cl. 267-1.
- Haumann, George, to Irvington Machine Works, Inc. Control mechanism for lumber processing. 2,918,951, 12-29-59, Cl. 144-3.
- Haumann, Wilfried, to Union Carbide Corp. Apparatus for dispensing gas material. 2,908,145, 10-13-59, Cl. 62-61.



- Hauni-Werke Korber & Co. K.G.: See—  
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- Haunschild, Robert L.: See—  
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- Haupt, Eugene J.: See—  
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- Haupt, George J., to The Jefferson Medical College of Philadelphia. Lung ventilating apparatus. 2,904,034, 9-15-59, Cl. 128-29.
- Haupt, Wilhelm, to Kienzle Apparate G.m.b.H. Multiple sign arrangement for use with taximeters or the like. 2,897,617, 8-4-59, Cl. 40-52.
- Haupt, Wilhelm, to Firma Kiensle Apparate G.m.b.H. Adjustable transmissions. 2,907,221, 10-6-59, Cl. 74-352.
- Hauptschein, Murray, to Pennsalt Chemicals Corp. 4-trifluoromethyl salicylic acids and their preparation. 2,894,984, 7-14-59, Cl. 260-519.
- Hauptschein, Murray, M. Braid, and F. E. Lawlor, to Pennsalt Chemical Corp. Manufacture of fluorinated organic compounds. 2,884,466, 4-28-59, Cl. 260-653.
- Hauptschein, Murray, M. Braid, and F. E. Lawlor, to Pennsalt Chemicals Corp. Organic fluorine compounds. 2,914,566, 11-24-59, Cl. 260-608.
- Haury, Vernon E.,  $\frac{1}{2}$  to Simco Inc. Manufacture of levulinic acid and its esters. 2,917,537, 12-15-59, Cl. 260-483.
- Haus, Joachim: See—  
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- Haus, Joseph: See—  
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- Haus, Rudolf, and L. Ensing, to North American Philips Co., Inc. Circuit arrangement for supplying a load. 2,881,381, 4-7-59, Cl. 321-14.
- Hausmann, Werner. Turborunner. 2,918,254, 12-22-59, Cl. 253-65.
- Hausch, Walter R.: See—  
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- Hause, Charles R.: See—  
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- Hause, Gerald F., to General Motors Corp. Combination ignition coil and ignition distributor. 2,885,458, 5-5-59, Cl. 123-148.
- Hause, Gilbert K.: See—  
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- Hause, Gilbert K., to General Motors Corp. Quick take-up master cylinder. 2,886,950, 5-19-59, Cl. 60-54.6.
- Hause, Gilbert K., to General Motors Corp. Brake actuator. 2,890,769, 6-16-59, Cl. 188-72.
- Hause, Gilbert K., to General Motors Corp. Transmission control. 2,896,471, 7-28-59, Cl. 74-484.
- Hause, Gilbert K., to General Motors Corp. Transmission. 2,908,190, 10-13-59, Cl. 74-688.
- Hause, Norman L., to E. I. du Pont de Nemours and Co. Purification of lysine. 2,878,282, 3-17-59, Cl. 260-534.
- Hause, Norman L., W. R. Schmitz, M. A. Stevens, and W. L. Sutor, to E. I. du Pont de Nemours & Co. Purification of lysine. 2,894,026, 7-7-59, Cl. 260-534.
- Hause, Ralph R. Machine tool spindle mounting means. 2,887,344, 5-19-59, Cl. 308-6.
- Hause, Ralph R. Hydro-pneumatic actuator for a motor-driven pump. 2,896,587, 7-28-59, Cl. 121-45.
- Hausen, Gerard E. Dispensing unit. 2,881,962, 4-14-59, Cl. 222-473.
- Hauser, Florence E. Coffee filter. 2,889,049, 6-2-59, Cl. 210-476.
- Hauser, Helmut. Infinitely variable gears. 2,874,581, 2-24-59, Cl. 74-143.
- Hauser, John H., and E. J. Lorenz, to International Business Machines Corp. Method of making plated hole printed wiring boards. 2,872,391, 2-3-59, Cl. 204-15.
- Hauserman, E. F. Co., The: See—  
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- Hauserman, Frank B., to E. I. du Pont de Nemours and Co. Improved process for treating glass fibers with a Werner type chrome complex. 2,910,378, 10-27-59, Cl. 117-54.
- Hausermann, Heinrich, to J. R. Geigy, A-G. New derivatives of 7-aminocoumarin. 2,881,186, 4-7-59, Cl. 260-343.2.
- Haushalter, Fred L. Vibration damper with cooling element. 2,882,747, 4-21-59, Cl. 74-574.
- Haushalter, Thomas L., and E. L. Bergeron, to The Frank-Dewey Co., Inc. Separable and readily portable refrigeration display cabinet. 2,915,884, 12-8-59, Cl. 62-254.
- Hausman, Albert F., and J. F. Butler, to Diamond Chain Co., Inc. Parts feeding hopper and method. 2,888,169, 5-26-59, Cl. 221-167.
- Hausman, Arthur H. Code translator. 2,894,067, 7-7-59, Cl. 178-26.
- Hausmann, George F., to United Aircraft Corp. Low-drag exhaust silencer. 2,882,992, 4-21-59, Cl. 181-60.
- Hausmann, George J.: See—  
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- Hausmann, Joseph A., to International Harvester Co. Clutch control mechanism. 2,897,661, 8-4-59, Cl. 64-10.
- Hausmann, Werner, to VEB Schlepperwerk Nordhausen. Stereable wheel suspension. 2,902,290, 9-1-59, Cl. 280-96.2.
- Hausmann, Werner, to VEB Schlepperwerk Nordhausen. Hydraulic transmission. 2,918,907, 12-29-59, Cl. 121-70.
- Hausser, O. & M.: See—  
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- Hausser, Rolf, and H. L. Schirneker, to O. & M. Hausser. Flying toys. 2,887,819, 5-26-59, Cl. 46-83.
- Hausser, Friedrich, to Svenska Rotor Maskiner Aktiebolag. Rotary regenerative preheater for air flows of different pressure connected in parallel. 2,899,179, 8-11-59, Cl. 257-267.
- Haustrup, Niels J. Bail ear for container. 2,901,144, 8-25-59, Cl. 220-91.
- Haut, Clarence A.: See—  
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- Hautau, Charles F.: See—  
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- Hautau, Charles F. Rolling mill. 2,894,422, 7-14-59, Cl. 80-16.
- Hautau, Charles F., to Inland Steel Co. Manufacture of splice bars. 2,911,117, 11-3-59, Cl. 214-18.
- Hautau, Llewellyn A.,  $\frac{1}{2}$  to C. F. Hautau. Indexing machine. Re. 24,700, 9-15-59, Cl. 74-822.
- Hautau, Llewellyn A. and C. F. Loading and unloading mechanism for production machines. 2,919,010, 12-29-59, Cl. 198-25.
- Hautly, Rudolph F., to W. F. Sprengnether Instrument Co., Inc. Seismological instruments. 2,873,103, 2-10-59, Cl. 264-1.
- Havel, Edward V.: See—  
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- Havemeyer, George E., to Gregory Industries, Inc. Tracing weld metal. 2,898,443, 8-4-59, Cl. 219-99.
- Haven, Alfred C., Jr., to E. I. du Pont de Nemours and Co. Organophosphorus polymers. 2,900,365, 8-18-59, Cl. 260-47.
- Haven, Malcolm D.: See—  
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- Havens, Byron L., to International Business Machines Corp. Pulse delay apparatus. 2,903,579, 9-8-59, Cl. 250-27.
- Havens, Byron L., to International Business Machines Corp. Electronic accumulator. 2,907,526, 10-6-59, Cl. 235-174.
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- Havens, Carl B.: See—  
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- Havens, Carl B., to The Dow Chemical Co. Bis(salicyloyl) benzene derivatives and compositions containing the same. 2,879,258, 3-24-59, Cl. 260-45.95.
- Havens, Carl B., to The Dow Chemical Co. Dibenzoyl resorcinol light stabilizer. 2,900,361, 8-18-59, Cl. 260-45.95.
- Havens, Carl B., and G. A. Clark, to The Dow Chemical Co. Diesters of aliphatic dicarboxylic acids and hydroxy benzo-phenones. 2,894,022, 7-7-59, Cl. 260-479.
- Havens, Elwood L., to Silver Seal Products Co. Valve spring spacer. 2,868,188, 1-13-59, Cl. 123-188.
- Haver, Fritz, A. Bruder, and W. Bahr. Valve bag packing machine. 2,888,961, 6-2-59, Cl. 141-71.
- Haver-Lockhart Laboratories, Inc.: See—  
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- Haverland, Frank J. Machine mechanism. 2,899,831, 8-18-59, Cl. 74-63.
- Haverland, William H., to J. J. Monaghan Co., Inc. Respirator control systems. 2,881,757, 4-14-59, Cl. 128-29.
- Haverly, LeRoy N., and L. E. Mortenson. Trailer hitch. 2,885,050, 5-5-59, Cl. 194-9.
- Haverstick, Merral P., to National Rejectors, Inc. Coin separators. 2,891,806, 6-23-59, Cl. 280-511.
- Havican, Raymond V., to Seovill Mfg. Co. Buckle holder for threading strap. 2,872,087, 2-3-59, Cl. 223-49.
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- Havlik, Jaroslav. Process and apparatus for forging metals. 2,890,324, 6-9-59, Cl. 219-149.
- Havlik, Jaroslav. Process for producing metal forgings. 2,890,325, 6-9-59, Cl. 219-152.
- Havstad, Harald, to International Telephone and Telegraph Corp. Resonant circuit. 2,875,376, 2-24-59, Cl. 315-43.
- Havstad, James W., to Ampex Corp. Magnetic transducing apparatus. 2,900,451, 8-18-59, Cl. 179-100.2.
- Hawaiian Pineapple Co., Ltd.: See—  
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- Hawes, Turner C. Method for coining blanks for deep drawn cylinders, and product thereof. 2,875,511, 3-3-59, Cl. 29-190.
- Hawes, Walter J., to Betts and Co. Ltd. Apparatus for locating capsules on the necks of bottles. 2,906,071, 9-29-59, Cl. 53-67.
- Hawie, Frederick, to The Hawie Mfg. Co. Hose or the like supporter. 2,870,505, 1-27-59, Cl. 24-79.
- Hawie Mfg. Co., The: See—  
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- Hawk, Carson E.: *See*—  
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- Hawk, Dale W., to Allis-Chalmers Mfg. Co. Hub locking device. 2,886,357, 5-12-59, Cl. 287—52.08.
- Hawk, James H.: Oscillating bed. 2,869,538, 1-20-59, Cl. 128—29.
- Hawk, James P.: *See*—  
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- Hawk, Le Roy R., E. G. Magnus, and D. A. Manion to W. J. Fitzpatrick Co. Apparatus for processing food and the like. 2,873,663, 2-17-59, Cl. 99—234.
- Hawk, Le Roy R., D. Eolkin, R. P. Smith, and R. L. Tambini, to Gerber Products Co. Process for treating meats. 2,908,577, 10-13-59, Cl. 99—187.
- Hawk, Le Roy R., E. G. Magnus, and D. A. Manion, to W. J. Fitzpatrick Co. Method of treating fruits, vegetables and meats. 2,912,330, 11-10-59, Cl. 99—1.
- Hawke, Earle G. Three-wheeled motorcycle with rockable rear wheel assembly. 2,878,032, 3-17-59, Cl. 280—282.
- Hawkes, Charles T.: *See*—  
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- Hawkins, Donald B. Latch control mechanism. 2,912,270, 11-10-59, Cl. 292—336.3.
- Hawkins, Donald E., R. S., and F. R. Control device for dispensing nozzles. 2,869,758, 1-20-59, Cl. 222—29.
- Hawkins, Edwin G. E., to The Distillers Co. Ltd. Dehydrochlorination of trichlorobutane. 2,879,311, 3-24-59, Cl. 260—654.
- Hawkins, Edwin G. E., and I. M. Watt, to The Distillers Co. Ltd. Chemical process. 2,903,469, 9-8-59, Cl. 260—448.
- Hawkins, Fred R.: *See*—  
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- Hawkins, George K.: *See*—  
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- Hawkins, George V.: *See*—  
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- Hawkins, Harold F., and C. S. McChesney, to Dunlop Tire and Rubber Corp. Method for molding tennis balls. 2,899,711, 8-18-59, Cl. 18—55.
- Hawkins, Harold V., C. H. Davis, E. T. Mahar, and B. M. Vinicky. Aircraft control apparatus. 2,892,601, 6-30-59, Cl. 244—77.
- Hawkins, Jack S.: *See*—  
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- Steward, Lewis B., and Hawkins. 2,886,671.
- Hawkins, Jacob W. Actuator for pressurized dispensers. 2,893,606, 7-7-59, Cl. 222—174.
- Hawkins, James E., to Seismograph Service Corp. Radio location system. 2,890,451, 6-9-59, Cl. 343—105.
- Hawkins, James E., to Seismograph Service Corp. Radio acoustic ranging system. 2,910,665, 10-27-59, Cl. 340—2.
- Hawkins, James E., and L. E. Garrett. Seismograph Service Corp. Radio location system. 2,871,473, 1-27-59, Cl. 343—105.
- Hawkins, Jean, to Jennings Radio Mfg. Corp. Stepping relay. 2,912,543, 11-10-59, Cl. 200—105.
- Hawkins, John C., to National Research Development Corp. Devices for use in the conveyance of root crops. 2,881,905, 4-14-59, Cl. 198—211.
- Hawkins, John C., to The National Research Development Corp. Ditching machine. 2,885,800, 5-12-59, Cl. 37—91.
- Hawkins, John C., to National Research Development Corp. Apparatus for removing soil from harvested plants. 2,907,393, 10-6-59, Cl. 171—61.
- Hawkins, John C., J. F. McCloy, and R. J. Ofield, to National Research Development Corp. Peanut stripper. 2,902,997, 9-8-59, Cl. 130—30.
- Hawkins, John G., to Whiffen and Sons Ltd. Process for producing rigid expanded polyvinyl chloride. 2,901,446, 8-25-59, Cl. 260—2.5.
- Hawkins, Robert L., Jr., and E. G. Bobalek, to The Empire Varnish Co. Storage-stable pastes, paints, inks and similar products containing aluminous pigments. 2,904,523, 9-15-59, Cl. 260—8.
- Hawkins, Ronald S.: *See*—  
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- Hawkins, Royal R., to Minneapolis-Honeywell Regulator Co. Electronic integrator. 2,891,174, 6-16-59, Cl. 307—88.5.
- Hawkins, Thane E., to Talon, Inc. Automatic lock slider for slide fasteners. 2,913,796, 11-24-59, Cl. 24—205.14.
- Hawkins, Walter L., V. L. Lanza, and F. H. Winslow, to Bell Telephone Laboratories, Inc. Stabilized straight chain hydrocarbons. 2,889,306, 6-2-59, Cl. 260—41.
- Hawkinson, Alfred T., to E. I. du Pont de Nemours and Co. Bleaching a paper web with peroxide. 2,893,819, 7-7-59, Cl. 8—111.
- Hawkinson, Alfred T., and W. R. Schmitz, to E. I. du Pont de Nemours and Co. Preparation of aliphatic peracids. 2,910,504, 10-27-59, Cl. 260—502.
- Hawkinson, Donald E., K. O. Kolnes, and J. A. Jannenga, to Greenlee Bros. & Co. Multiple station machine tool. 2,895,354, 7-21-59, Cl. 77—64.
- Hawkinson, Donald R.: *See*—  
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- Taber, Robert E., and Hawkinson. 2,894,732.
- Hawkinson, Paul E., Co.: *See*—  
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- Hawkinson, Raymond P. 2,905,436.
- Hawkinson, Raymond P., to Paul E. Hawkinson Co. Attachment for tire spreaders. 2,905,435, 9-22-59, Cl. 254—50.3.
- Hawkinson, Raymond P., to Paul E. Hawkinson Co. Tire spreader construction. 2,905,436, 9-22-59, Cl. 254—50.3.
- Hawks, Orris D.: *See*—  
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- Hawks, William L., and E. G. Patrick, to The Delron Co., Inc. Intervalometer. 2,868,901, 1-13-59, Cl. 200—8.
- Hawley, Gail E.: *See*—  
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- Hawley, Jack S., to Shand and Jurs Co. Remote selecting system and apparatus. 2,877,444, 3-10-59, Cl. 340—147.
- Hawley, Jack S., to Shand and Jurs Co. Selecting, routing and receiving system and apparatus. 2,919,435, 12-29-59, Cl. 340—182.
- Hawley, Jesse G., to The Goodyear Tire & Rubber Co. Pump for water cooled brakes. 2,887,961, 5-26-59, Cl. 103—187.
- Hawley Products Co.: *See*—  
Haerther, William W., Jr., and Noren. 2,873,813.
- Hawley, Richard A., to Meat Packers Equipment Co. Food mold loader. 2,917,888, 12-22-59, Cl. 53—392.
- Hawley, Roger S., to Esso Research and Engineering Co. Butyl rubber light colored vulcanizate, process of preparing same, and tire sidewall made therefrom. 2,873,784, 2-17-59, Cl. 152—357.
- Hawley, William J.: *See*—  
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- Haworth, Lionel, to Rolls-Royce Ltd. Turbine rotor disc structure. 2,918,252, 12-22-59, Cl. 253—39.
- Haworth, Lionel, R. J. Shire, and F. Moss, to Rolls-Royce Ltd. Lubricating arrangements for rotating machinery. 2,870,870, 1-27-59, Cl. 184—6.
- Haworth, Lionel, D. McLean, K. A. Basford, and E. Page, to Rolls Royce Ltd. Rotational speed sensitive device. 2,886,300, 5-12-59, Cl. 264—20.
- Haworth, Lionel, and J. A. Petrie, to Rolls-Royce Ltd. Axial-flow fluid machines. 2,910,269, 10-27-59, Cl. 253—69.
- Haworth, Russell G., W. M. Fleming, F. J. Priesnitz, and A. L. McLaughlin, to Potash Co. of America. Mining machine having an arcuate cutter feed. 2,916,274, 12-8-59, Cl. 262—19.
- Haws, Gordon W. Marble game structure. 2,873,975, 2-17-59, Cl. 273—134.
- Hawthorne, Burl C.: *See*—  
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- Hawthorne, Edward P., to C. A. Parsons & Co. Ltd. Combustion turbines. 2,895,212, 7-21-59, Cl. 29—156.8.
- Hawthorne, Harry E. Building structure. 2,897,926, 8-4-59, Cl. 189—3.
- Hawthorne, Herbert J., and E. M. Weaver. Removable blade drag bits. 2,890,020, 6-9-59, Cl. 255—61.
- Hawthorne, James M. Maneuvering propeller means for ships. 2,885,990, 5-12-59, Cl. 115—35.
- Hawthorne, John O., and M. H. Wilt, to United States Steel Corp. Method of protecting material against the effects of light. 2,905,570, 9-22-59, Cl. 117—33.3.
- Hawthorne, Mollo M., to Dresser Industries, Inc. Earth well casing discontinuity detector. 2,897,440, 7-28-59, Cl. 324—37.
- Hawthorne, Nathaniel F.: *See*—  
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- Hawthorne, Nathaniel F., to Friden, Inc. Tens-transfer mechanism for a duplex calculating machine. 2,908,441, 10-13-59, Cl. 235—138.
- Hawtin, Laurence R., to Imperial Chemical Industries Ltd. Method of extruding successive but distinct articles. 2,879,887, 3-31-59, Cl. 207—10.
- Hawtin, Selwyn G.: *See*—  
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- Groombridge, Denis W., Hawtin, and Downing. 2,904,953.
- Hawtin, Selwyn G., and J. Downing, to British Celanese Ltd. Manufacture of textile and other materials having a basis of cellulose triacetate. 2,880,106, 3-31-59, Cl. 106—193.
- Hawtin, Selwyn G., and D. W. Groombridge, to British Celanese Ltd. Yarn feeding and collecting device. 2,889,034, 6-2-59, Cl. 222—355.
- Hawxhurst, Stephen, to Crane Packing Co. Gasket and method of making same. 2,868,575, 1-13-59, Cl. 288—16.
- Haxo, Henry E., Jr.: *See*—  
Mills, George S., and Haxo. 2,906,718.
- Haxo, Henry E., Jr., and G. S. Mills, to United States Rubber Co. Heat treatment of rubber-lignin coprecipitates containing certain aldehydes or aldehyde homopolymers. 2,890,183, 6-9-59, Cl. 260—17.5.
- Hay, David W. Corn buttering and serving dish. 2,903,997, 9-15-59, Cl. 118—23.
- Hay, Russell G.: *See*—  
Gilbert, William I., Hay, and McNulty. 2,872,486.
- Hay, Wayne W., to Air Reduction Co., Inc. Signal device. 2,892,436, 6-30-59, Cl. 116—70.
- Hay, Wayne W., to Air Reduction Co., Inc. Apparatus for producing artificial respiration during anesthesia. 2,907,322, 10-6-59, Cl. 128—29.
- Hay, Wayne W., to Air Reduction Co., Inc. Transparent, conductive absorber canister. 2,918,356, 12-22-59, Cl. 23—284.
- Hayano, Kyoji, to Gohei Tanabe & Co., Ltd. Novel complex salt of 4-aminosalicylic acid and processes for producing the same. 2,874,177, 2-17-59, Cl. 260—448.



- Hayasaka, Toshio, K. Masuzawa, and S. Nagai, to Nippon Telegraph & Telephone Public Corp. Acoustical titanium diaphragm and method for heat treating same. 2,879,193, 3-24-59, Cl. 148-21.9.
- Hayashi, Shigeki: *See—*  
Terayama, Denzaburo, Matsubara, Hayashi, and Hirakawa. 2,874,665.
- Hayashi, Takeo: *See—*  
Nishigori, Kimpei, and Hayashi. 2,899,891.
- Haydel, Chester H.: *See—*  
Greathouse, Lucien H., Smith, Robinson, and Haydel. 2,882,022.
- Hayden, Albert P., to United States Steel Corp. Device for paying off material and applying back tension. 2,877,963, 3-17-59, Cl. 242-156.
- Hayden, Boyd. Turnbuckle for loom harness. 2,900,203, 8-18-59, Cl. 287-60.
- Hayden, Boyd. Adjustable hook for loom harness. 2,910,095, 10-27-59, Cl. 139-88.
- Hayden, David H., to Beach & Shore, Inc. Water front retaining wall and method of construction. 2,879,647, 3-31-59, Cl. 61-49.
- Hayden, Edward F. Aerator filter for fish and plant aquarium. 2,871,820, 2-3-59, Cl. 119-5.
- Hayden, Howard L.: *See—*  
Lee, Lyman S., and Hayden. 2,905,289.
- Hayden, Irby I.: *See—*  
Hayden, Thomas J. 2,869,729.
- Hayden, J. Page: *See—*  
Behm, Harold J., and Hecox. 2,878,396.  
Engelmann, Richard H. 2,917,663.  
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- Hayden, James F., to Eastman Kodak Co. Spool and spindle assembly. 2,889,123, 6-2-59, Cl. 242-68.3.
- Hayden, John R.: *See—*  
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- Hayden Mfg. Co.: *See—*  
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- Hayden-Nilos Ltd.: *See—*  
Potter, John J. 2,879,511.  
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Potter, John J. 2,908,009.
- Hayden, Robert B. Method of forming a harness cord end terminal. 2,901,822, 9-1-59, Cl. 29-517.
- Hayden, Rosamond E. Washing and polishing mitten. 2,880,436, 4-7-59, Cl. 15-118.
- Hayden, Sydney J., to General Fittings Co. Fuel oil pre-heater. 2,916,598, 12-8-59, Cl. 219-39.
- Hayden, Thomas J., 1/2 to I. I. Hayden. Gun rack. 2,869,729, 1-20-59, Cl. 211-64.
- Haydon, Arthur W., to Consolidated Electronics Industries Corp. Motor speed governor. 2,869,062, 1-13-59, Cl. 318-311.
- Haydon, Arthur W., and T. Y. Korsgren, Sr., to Haydon Switch, Inc. Sealed switch and actuator assembly. 2,878,348, 3-17-59, Cl. 200-168.
- Haydon Switch, Inc.: *See—*  
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- Haydu, Bartley A. Disposable child's bib. 2,900,640, 8-25-59, Cl. 2-49.
- Hayes, Alfred G., to The General Electric Co. Ltd. Electrical attenuators. 2,898,561, 8-4-59, Cl. 333-81.
- Hayes, C. I., Inc.: *See—*  
Westerner, Herbert W. 2,891,659.
- Hayes, Charles P. Mechanical and electrical wire connector. 2,894,243, 7-7-59, Cl. 339-206.
- Hayes, Cletus T., to Oxy-Catalyst, Inc. Gas treating apparatus. 2,898,201, 8-4-59, Cl. 23-288.
- Hayes, Cletus T.: *See—*  
Houdry, Eugene J., and Hayes. 2,905,523.
- Hayes, Dale I., to American Zinc. Lead and Smelting Co. Runway forming and load receiving multiple car assembly. 2,906,212, 9-29-59, Cl. 104-137.
- Hayes, Dale I., to American Zinc. Lead and Smelting Co. Self loading transport with front unloading. 2,906,418, 9-29-59, Cl. 214-78.
- Hayes, Donald W.: *See—*  
Roberts, Harold P., and Hayes. 2,888,444.
- Hayes, Donald W., to The Goodyear Tire & Rubber Co. Method of making mercaptobenzothiazothiazyl disulfide agglomerates. 2,900,371, 8-18-59, Cl. 260-79.5.
- Hayes, Donald W., and H. P. Roberts, to The Goodyear Tire & Rubber Co. Method for the production of dry agglomerated rubber accelerators and product produced thereby. 2,888,443, 5-26-59, Cl. 260-79.5.
- Hayes, Dudley W.: *See—*  
Anderson, Gerald R., Hayes, Kerr, and Newburn. 2,872,017.
- Hayes, Dudley W., to Food Machinery and Chemical Corp. Strainer. 2,910,183, 10-27-59, Cl. 210-315.
- Hayes, Harry T., and G. B. Crane, to Gilfillan Bros. Inc. Modulation method and system. 2,918,665, 12-22-59, Cl. 340-184.
- Hayes, Jack D., to Hercules Powder Co. Priming device. 2,913,982, 11-24-59, Cl. 102-24.
- Hayes, John D., and L. M. Hudson, to Bausch & Lomb Optical Co. Wide angle attachment for objective lenses. 2,889,745, 6-9-59, Cl. 88-57.
- Hayes, Lester P., and H. Wolff, to A. E. Staley Mfg. Co. Refining vegetable oils. 2,881,195, 4-7-59, Cl. 260-424.
- Hayes, Martin E.: *See—*  
Collins, Zane L., Hayes, and Kiesel. 2,913,582.
- Hayes, Mary B., to American Viscose Corp. Process of producing all skin rayon. 2,890,133, 6-9-59, Cl. 106-165.
- Hayes, Monson H.: *See—*  
Stephens, Richard G., and Hayes. 2,881,418.
- Hayes, Monson H., to Link Aviation, Inc. Velocity measuring method and apparatus. 2,912,671, 11-10-59, Cl. 340-3.
- Hayes, Norman J., and W. C. Ross, to W. R. Grace & Co. Process of treating latex impregnated paper with an isocyanate and resultant article. 2,897,094, 7-28-59, Cl. 117-62.
- Hayes, Robert A., to The Firestone Tire & Rubber Co. Oriented products from graft copolymers of vinyl ester on acrylonitrile polymer. 2,905,653, 9-22-59, Cl. 260-45.5.
- Hayes, Stanley L., Jr.: *See—*  
Putnam, Robert C., and Hayes. 2,872,278.
- Hayes, Stanley W., to Hayes Track Appliance Co. Wheel retainer with screw actuated clamps. 2,900,923, 8-25-59, Cl. 104-258.
- Hayes Track Appliance Co.: *See—*  
Hayes, Stanley W. 2,900,923.
- Hayes, William J.: *See—*  
Sorensen, Egon, Gott, and Hayes. 2,914,252.
- Hayford, Richard E., to Haloid Xerox Inc. Xerographic development. 2,880,699, 4-7-59, Cl. 118-637.
- Hayford, Richard E., to Haloid Xerox Inc. Process of developing electrostatic image with charcoal. 2,899,331, 8-11-59, Cl. 117-17.5.
- Hayford, Richard E., and C. B. Kaiser, to Haloid Xerox Inc. Electrophotographic method. 2,868,642, 1-13-59, Cl. 96-1.
- Hayford, Richard E., and H. E. Crumrine, to Haloid Xerox Inc. Xerographic development apparatus. 2,911,944, 11-10-59, Cl. 118-637.
- Hayhow, Cyril D.: *See—*  
Cross, Carroll N., and Hayhow. 2,916,236.  
Cross, Carroll N., and Hayhow. 2,916,242.
- Hayhurst, Thomas S., to United States of America, Army. Gearing. 2,895,342, 7-21-59, Cl. 74-409.
- Hayman, Dennis J., to Blackhawk Mfg. Co. Fluid seal. 2,914,369, 11-24-59, Cl. 309-34.
- Hayman, George C. Weather-strip. 2,903,758, 9-15-59, Cl. 20-68.
- Hayman, Richard L.: *See—*  
Driskel, Don W., and Hayman. 2,887,991.
- Hayner, Paul F., to Sanders Associates, Inc. Gyroscope. Re. 24,741, 12-1-59, Cl. 74-5.5.
- Hayner, Paul F., to Sanders Associates, Inc. Balanced pressure-regulating hydraulic servo valve. 2,880,708, 4-7-59, Cl. 121-46.5.
- Hayner, Paul F., and Z. Olsen, to Sanders Associates, Inc. Electro-hydraulic servo valve. 2,896,588, 7-28-59, Cl. 121-46.5.
- Haynes, Alex L., A. M. Kurz, and W. A. Van Wicklin, Jr., to Ford Motor Co. Motor vehicle hydraulic system. 2,881,706, 4-14-59, Cl. 103-51.
- Haynes, Clyde H., to Gregory Industries, Inc. Welding stud. 2,893,762, 7-7-59, Cl. 287-20.2.
- Haynes, Clyde H., to Svenska Aktiebolaget Gasaccumulator. Metal member fusing device. 2,897,338, 7-28-59, Cl. 219-98.
- Haynes, George P., and S. Letvin, to Thermo Projects Inc. Vortex fog generators. 2,889,284, 6-2-59, Cl. 252-359.
- Haynes, Harry L., to Union Carbide Corp. Insecticidal compositions containing cyclothrin. 2,891,889, 6-23-59, Cl. 167-30.
- Haynes, Harry L., A. A. Sousa, and B. B. Lampert, to Union Carbide Corp. Insecticidal compositions containing 9,9-bifluorylidene. 2,872,367, 2-3-59, Cl. 167-30.
- Haynes, Joseph E. Bearing and tightener for window sash. 2,883,226, 4-21-59, Cl. 292-76.
- Haynes, Munro K.: *See—*  
Bauer, Edwin W., and Haynes. 2,889,540.  
Bauer, Edwin W., and Haynes. 2,910,594.
- Haynes, Munro K., to International Business Machines Corp. Magnetic core logical circuits. Re. 24,614, 3-3-59, Cl. 340-174.
- Haynes, Munro K., to International Business Machines Corp. Resistor bias ring transfer circuit. 2,881,413, 4-7-59, Cl. 340-174.
- Haynes, Munro K., to International Business Machines Corp. Magnetic memory system. 2,881,414, 4-7-59, Cl. 340-174.
- Haynes, Nathan M. Sound recorders. 2,872,531, 2-3-59, Cl. 179-100.2.
- Haynes, Richard D., to Monsanto Chemical Co. Composition of matter and process therefor. 2,868,654, 1-13-59, Cl. 99-143.
- Haynes, Robert C.: *See—*  
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- Haynes, Robert E.: *See—*  
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- Haynes, Stephen S.: *See—*  
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- Haynes, William J. Combination foldable table and bench. 2,900,009, 8-18-59, Cl. 155-43.
- Haynie, Robert N., to Federal-Mogul-Bower Bearings, Inc. Bearing shaft seal. 2,873,153, 2-10-59, Cl. 308-187.2.
- Haynie, Robert N., to Federal-Mogul-Bower Bearings, Inc. Apparatus for manufacturing fibrous fluid sealing elements. 2,883,845, 4-28-59, Cl. 69-8.



- Haynie, Robert N., to Federal-Mogul-Bower Bearings, Inc. Method for manufacturing fibrous fluid sealing elements. 2,883,846, 4-28-59, Cl. 69-21.
- Haynie, Steven K. Fishhook setter. 2,918,745, 12-29-59, Cl. 43-15.
- Haynman, Alexandre, to International Resistance Co. Resistor. 2,879,361, 3-24-59, Cl. 201-63.
- Haynman, Alexandre, to International Resistance Co. Variable electrical resistor. 2,894,237, 7-7-59, Cl. 338-150.
- Hayos, Robert, and R. L. Raymond, to Northrop Aircraft, Inc. Closed loop servo system with magnetic feedback means. 2,886,010, 5-12-59, Cl. 121-41.
- Hays, Herbert G., and R. L. Wentz, to Armstrong Furnace Co. Burners for gaseous fuel. 2,918,967, 12-29-59, Cl. 158-116.
- Hays, Leonard A.: *See*—  
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- Hays Mfg. Co.: *See*—  
Windsor, Richard T. 2,888,233.
- Hays, Stephen A., to North American Aviation, Inc. Chemical nickel and cobalt plating process. 2,871,142, 1-27-59, Cl. 117-102.
- Hays, Stephen A., to North American Aviation, Inc. Continuous chemical milling process. 2,890,944, 6-16-59, Cl. 41-42.
- Hays, Thomas W.: *See*—  
Bettison, David C., and Hays. 2,887,571.
- Hayse, Paul F., to Harvester Plow Co., Inc. Wheel mounted tandem disk harrow. 2,905,254, 9-22-59, Cl. 172-413.
- Hayse, Paul F., to Power Steering Co. Power steering mechanism and control valve therefor. 2,917,027, 12-15-59, Cl. 121-41.
- Hayssen Mfg. Co.: *See*—  
Hayssen, William A. 2,890,555.
- Hayssen, William A., to Hayssen Mfg. Co. Wrapping machine film material supports. 2,890,555, 6-16-59, Cl. 53-228.
- Hayter, Walter R., Jr., to Westinghouse Electric Corp. Ultra-high frequency cavity resonator. 2,911,602, 11-3-59, Cl. 333-83.
- Hayward, Charles E., to The Lobdell-Emery Mfg. Co. Transfer mechanism. 2,867,185, 1-6-59, Cl. 113-50.
- Hayward, Claude E.: *See*—  
Gorton, Edward S., and Hayward. 2,904,241.
- Hayward, George W. Game apparatus including projectors. 2,912,246, 11-10-59, Cl. 273-101.
- Hayward, Henry M. Machine for printing flexible plastic containers. 2,883,928, 4-28-59, Cl. 101-35.
- Hayward, John T. Method and apparatus for stabilizing subsurface vessels. 2,895,300, 7-21-59, Cl. 61-46.5.
- Hayward-Tyler and Co. Ltd.: *See*—  
Ivanoff, Alexander. 2,885,963.
- Haywood, John W.: *See*—  
Derham, Leslie J., and Haywood. 2,871,007.
- Hazak, John T., to Raymond International Inc. Automatic drop mechanism for boring. 2,869,823, 1-20-59, Cl. 255-1.
- Hazak, John T., to Raymond International Inc. Automatic drop weight for boring. 2,869,824, 1-20-59, Cl. 255-1.
- Hazak, John T., to Raymond International Inc. Marine platform. 2,873,581, 2-17-59, Cl. 61-46.5.
- Hazard, Charles S., to Neptune Meter Co. Operating mechanism for rotatable plug valve. 2,872,155, 2-3-59, Cl. 251-165.
- Hazard, Charles S., and J. F. Coles, to Neptune Meter Co. Automatic resetting predetermined register. 2,904,251, 9-15-59, Cl. 235-132.
- Hazel, Ernest, Jr., Inc.: *See*—  
Hazel, Ernest, Jr. 2,893,163.
- Hazel, Ernest, Jr., to Ernest Hazel, Jr., Inc. Coaster. 2,893,163, 7-7-59, Cl. 45-68.4.
- Hazel, Herbert K.: *See*—  
Vossen, Bernd, and Hazel. 2,911,646.
- Lawson, Axel A., Hazel, Gary, and Gittler. 2,904,785.
- Hazel, Herbert K., to International Business Machines Corp. Article forming and inserting tool. 2,901,127, 8-25-59, Cl. 214-1.
- Hazel, Herbert K., and B. Vossen, to Melpar, Inc. Stapling machines. 2,904,786, 9-22-59, Cl. 1-2.
- Hazel, John G.: *See*—  
Conrad, Lawrence P., and Hazel. 2,882,126.
- Hazelett, Clarence W., deceased; S. R. Hazelett and B. Blackford, Jr., executors of the estate of C. W. Hazelett, to Hazelett Strip-Casting Corp. Metal casting method and apparatus. 2,904,860, 9-22-59, Cl. 22-57.4.
- Hazelett, Samuel R.: *See*—  
Hazelett, Clarence W. 2,904,860.
- Hazelett Strip-Casting Corp.: *See*—  
Hazelett, Clarence W. 2,904,860.
- Hazeltine Research, Inc.: *See*—  
Aitken, Robert K. 2,868,970.
- Bailey, William F. 2,875,273.
- Brunn, Robert B. J. 2,881,410.
- Burr, Robert P., and Keogh. 2,874,211.
- Curtis, Richard C., and Nosal. 2,917,578.
- De Clerck, Charles E. 2,905,307.
- Espenlaub, Walter C., and Loughlin. 2,868,872.
- Herring, Frederick G. 2,888,648.
- La Rosa, Richard. 2,885,678.
- La Rosa, Richard. 2,897,460.
- La Rosa, Richard. 2,915,717.
- Loughlin, Bernard D. 2,877,295.
- Loughlin, Bernard D. 2,885,464.
- Hazeltine Research, Inc.: *See*—Continued  
Loughlin, Bernard D. 2,885,465.
- Loughlin, Bernard D. 2,890,273.
- Loughlin, Bernard D. 2,892,021.
- Loughlin, Bernard D. 2,896,014.
- Loughlin, Bernard D. 2,898,454.
- Loughlin, Bernard D. 2,905,749.
- Loughlin, Bernard D. 2,905,752.
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- Loughlin, Bernard D. 2,913,522.
- Loughlin, Bernard D. 2,914,606.
- Loughlin, Arthur V. 2,877,293.
- McIlwain, Knox, Re. 24,720.
- Press, Meyer. 2,910,658.
- Rado, John A. 2,900,440.
- Rado, John A. 2,905,854.
- Richman, Donald. 2,890,270.
- Richman, Donald. 2,897,266.
- Richman, Donald. 2,898,397.
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- Richman, Donald. 2,910,581.
- Sinnott, John. 2,890,381.
- Stenning, Luis C. 2,877,305.
- Turnage, Rodger E., Jr. 2,874,311.
- Vetter, William F., and Wanty. 2,881,422.
- White, John R. 2,876,372.
- White, John R. 2,882,336.
- Wilhelmsen, Carl R. 2,912,572.
- Hazelwood, James W., to Newth-Morris Box Corp. of Florida. Folded liquid containing box. 2,914,234, 11-24-59, Cl. 229-31.
- Hazen, David C., and F. O. Ringleb, to Research Corp. Boundary layer control system. 2,894,703, 7-14-59, Cl. 244-42.
- Hazen, Edward J., to Bendix Aviation Corp. Pressure responsive force-ratio balance apparatus. 2,895,333, 7-21-59, Cl. 73-182.
- Hazen, Lloyd D., and G. R. Kennitz, 25% to R. Brown and 25% to G. W. Lamprecht. Liquid organic producing and dispensing plant or apparatus. 2,908,111, 10-13-59, Cl. 47-1.
- Hazen, Lysle L., to Enterprise Machine Parts Corp. Fluid power rotary transmitter. 2,904,012, 9-15-59, Cl. 121-90.
- Hazen, Marlin E.: *See*—  
Frank, Bernard E., Hazen, and Stroud. 2,885,914.
- Hazleton, Lloyd W., and W. H. Dolben. Methods for destroying animal parasites using indandione derivatives. 2,884,357, 4-28-59, Cl. 167-53.
- Hazlring, John. Double end forming, drilling, etc., machine. 2,875,650, 3-3-59, Cl. 77-21.
- Hazzard, Harry I., to McCulloch Corp. Saw chain with alternating long and short pitch. 2,913,023, 11-17-59, Cl. 143-135.
- Hazzard, Lillian. Hair cleaning device. 2,889,835, 6-9-59, Cl. 132-109.
- Hazzard, Lillian. Hair and scalp cleaner. 2,895,487, 7-21-59, Cl. 132-110.
- Heacock, Roy C.: *See*—  
Barber, Harry A., Sauer, and Heacock. 2,893,602.
- Heacock, Ward J., to Link-Belt Co. Drive for water intake screens. 2,899,062, 8-11-59, Cl. 210-97.
- Head, James D.: *See*—  
Ivins, Owen D., and Head. 2,871,256.
- Head, William I., to Eastman Kodak Co. Apparatus and method for producing bulk yarn. 2,884,756, 5-5-59, Cl. 57-34.
- Head, William I., H. R. Kirk, and C. B. Mather, to Eastman Kodak Co. Method of treating yarns and filaments and products produced thereby. 2,869,972, 1-20-59, Cl. 8-130.1.
- Head Wrightson Processes Ltd.: *See*—  
Fisher, Raoul C. 2,885,356.
- Headings, William W., to Borg-Warner Corp. Hydraulic power tools. 2,884,902, 5-5-59, Cl. 121-33.
- Headington, George E. Folding anchor for boats. 2,906,231, 9-29-59, Cl. 114-208.
- Headrick, John F., to Phillips Petroleum Co. Prestressed joint between bottoms and shells of large tanks. 2,899,820, 8-18-59, Cl. 72-13.
- Heal, Jesse F. Automatic fire alarm. 2,870,296, 1-20-59, Cl. 200-140.
- Heald, Delbert N. Sizing machine. 2,917,171, 12-15-59, Cl. 209-107.
- Heald Machine Co., The: *See*—  
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- Blood, Harold L. 2,909,006.
- Hahn, Robert S. 2,873,121.
- Hahn, Robert S., and Johnson. 2,881,568.
- Jessup, Wilbur F., and Hohler. 2,903,116.
- Schmidt, William D., and Townsend. 2,909,009.
- Yingst, Cyrus S. 2,904,010.
- Healey, Howard: *See*—  
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- Health-Mor, Inc.: *See*—  
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- Martinez, Eugene F. 2,908,088.
- Martinez, Eugene F. 2,918,692.
- Healy, Elton F. Foam rubber mattress. 2,878,494, 3-24-59, Cl. 5-345.



- Healy, Elton F. Furniture leg. 2,884,995, 5-5-59, Cl. 155—196.
- Healy, Eugene A. Tie draper. 2,881,448, 4-14-59, Cl. 2—157.
- Healy, John J., Jr., to Monsanto Chemical Co. Spinnable textile fibers treated with colloidal silica. 2,885,308, 5-5-59, Cl. 117—139.5.
- Healy, Joseph E., to Harvey Hubbell, Inc. Locking connector. 2,871,456, 1-27-59, Cl. 339—42.
- Healy, Leland R. Portable sun and wind shield. 2,886,047, 5-12-59, Cl. 135—5.
- Healy, Wesley P.: *See*—  
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- Heaps, Stanley N., to United States of America, Navy. Dynamometers. 2,876,858, 3-10-59, Cl. 181—26.
- Heard, Kenneth F. Mail box construction. 2,872,103, 2-3-59, Cl. 232—35.
- Heard, Llewellyn: *See*—  
Coley, John R., and Heard. 2,911,375.
- Heard, William L., to Orenda Engines Ltd. Elements for labyrinth seals. 2,886,351, 5-12-59, Cl. 286—10.
- Heard, William L. Centrifugal projection spray gun head. 2,904,259, 9-15-59, Cl. 239—120.
- Hearn, Norval K. Automobile headlight aduster. 2,887,779, 5-26-59, Cl. 33—180.
- Hearne, George W., D. S. La France, and H. D. Finch, to Shell Development Co. Production of epoxyaldehydes. 2,887,498, 5-19-59, Cl. 260—348.5.
- Hearon, William M.: *See*—  
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Goheen, David W., Hearon, Cisney, and Wethern. 2,914,568.
- Heartz, Robert A., to Minneapolis-Honeywell Regulator Co. Magnetic modulator. 2,870,416, 1-20-59, Cl. 332—51.
- Heasley, Raymond E. Concrete block machine. 2,885,759, 5-12-59, Cl. 25—41.
- Heath, Arthur N., Electrofilm, Inc. Heating element containing a conductive mesh. 2,884,509, 4-28-59, Cl. 201—63.
- Heath, Clarence W., to United-Carr Fastener Corp. Electric lamp sockets. 2,890,435, 6-9-59, Cl. 339—255.
- Heath, Clarence W., to United-Carr Fastener Corp. Electrical component and attaching means therefor. 2,897,474, 7-28-59, Cl. 339—128.
- Heath, Donald L., to The Ohio Brass Co. Valve block for lightning arresters. 2,914,742, 11-24-59, Cl. 338—21.
- Heath, Dudley E., to Whirlpool Corp. Ice making machine. Re. 24,628, 4-7-59, Cl. 62—135.
- Heath, Merle A.: *See*—  
Rogers, Linwood N., Heath, Gutlioph, and Hielt. 2,878,118.
- Heath, Roy F., to North American Aviation, Inc. Adjustable pallet. 2,903,126, 9-8-59, Cl. 206—46.
- Heath, Roy T., and D. L. Burdorf, to Consolidated Electrodynamics Corp. Gimbal roller. 2,894,702, 7-14-59, Cl. 242—76.
- Heath, Thomas A.: *See*—  
Anderson, Charles C., Eder, Zimmerman, Heath, and McLaughlin. 2,898,442.
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- Heilman, Russell H.: See—
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- Hein, Frederick H., to AHMCO, Inc. Grain bin unloading device. 2,914,198, 11-24-59, Cl. 214-17.
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- Payne, George B., and Hein. 2,904,584.
- Hein, Kurt: See—
- Schneider, Kurt R., K. and W. C. Hein. 2,907,567.
- Hein, Lawrence B.: See—
- Hignett, Travis P., Hein, Phillips, and Young. 2,875,245.
- Hein, Lehmann & Co., Akt.: See—
- Heymann, Hans G. 2,901,187.
- Hein, Morris: See—
- Peterson, Willard D., and Hein. 2,880,226.
- Hein, Walter C.: See—
- Schneider, Kurt R., K. and W. C. Hein. 2,907,567.
- Heinard, Whilden G., to United States of America, Army. Reverse direction waveguide coupler. 2,883,628, 4-21-59, Cl. 333-10.
- Heinard, Whilden G., and H. S. Jones, Jr., to United States of America, Army. Variable waveguide coupler. 2,898,559, 8-4-59, Cl. 333-10.
- Heine, Henry W. Method and machine for molding delicate materials. 2,877,531, 3-17-59, Cl. 25-45.
- Heine, Henry W. Manufacture of acoustic fireproof tiles. 2,877,532, 3-17-59, Cl. 25-156.
- Heinemann, Bernard, and I. R. Hooper, to Bristol Laboratories, Inc. Tetracycline recovery. 2,886,595, 5-12-59, Cl. 260-559.
- Heinemann, Bernard, and I. R. Hooper, to Bristol Laboratories Inc. Antibiotic purification. 2,897,234, 7-28-59, Cl. 260-559.
- Heinemann, Heinz, and H. Shalit, to Houdry Process Corp. Process for production of a catalyst of the platinum-alumina type. 2,882,245, 4-14-59, Cl. 252-455.
- Heinemann, Heinz, T. H. Milliken, Jr., and D. H. Stevenson, to Houdry Process Corp. Preparation of isoprene. 2,900,429, 8-18-59, Cl. 260-680.
- Heinemann, Heinz, and A. G. Oblad, to Houdry Process Corp. Multistage hydrogenative reforming with platinum containing catalysts. 2,902,426, 9-1-59, Cl. 208-65.
- Heinemann, Heinz, and H. Shalit, to Houdry Process Corp. Method of preparing a hydrogenation-dehydrogenation catalyst. 2,908,654, 10-13-59, Cl. 252-441.
- Heinen, Severin: See—
- Jansen, Hermann, and Heinen. 2,879,799.
- Heinenberg, Fritz, to Mannesmann Akt. Process for deep-hardening of long tubes or the like. 2,888,374, 5-26-59, Cl. 148-21.55.
- Heininger, Samuel A.: See—
- Birum, Gail H., and Heininger. 2,893,910.
- Heininger, Samuel A., to Monsanto Chemical Co. Quaternaries of pyridyl and quinolyl propionitriles. 2,870,153, 1-20-59, Cl. 260-286.
- Heininger, Samuel A., to Monsanto Chemical Co. Electrical devices containing alkyl  $\beta$ -alkoxypropionates. 2,870,236, 1-20-59, Cl. 174-17.
- Heininger, Samuel A., to Monsanto Chemical Co. Dielectric composition containing a phenoxypropionitrile. 2,900,345, 8-18-59, Cl. 252-63.7.
- Heininger, Samuel A., to Monsanto Chemical Co. Hydrazides. 2,909,556, 10-20-59, Cl. 260-461.
- Heininger, Samuel A., to Monsanto Chemical Co. Organic complexes of mercury. 2,913,470, 11-17-59, Cl. 260-433.
- Heininger, Samuel A., and M. Kosmin, to Monsanto Chemical Co. Alkyl beta-alkoxypropionates. 2,870,195, 1-20-59, Cl. 260-484.
- Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Ketone products. 2,870,209, 1-20-59, Cl. 260-590.
- Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Ether products. 2,875,250, 2-24-59, Cl. 260-609.
- Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Addition products of  $\alpha,\beta$ -unsaturated carboxylic acid and esters with haloalkyl sulfonyl halides. 2,883,317, 4-21-59, Cl. 167-22.
- Heininger, Samuel A., and E. L. Ringwald, to Monsanto Chemical Co. Miticidal nitriles. 2,900,409, 8-18-59, Cl. 260-465.
- Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Haloalkanesulfonyl halide reaction product. 2,913,479, 11-17-59, Cl. 260-465.7.
- Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Acrylonitrile reaction product. 2,913,480, 11-17-59, Cl. 260-465.7.
- Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Aromatic toxic nitriles. 2,919,224, 12-29-59, Cl. 167-30.
- Heininger, Samuel A., and G. H. Birum, to Monsanto Chemical Co. Toxic nitriles. 2,919,225, 12-29-59, Cl. 167-30.



- Heinisch, Jean: *See*—  
Hanlet, Jacques M. N., Heinisch, and Loyer. 2,919,402.
- Heinisch, George. Feeding device for rotary well drill. 2,907,550, 10-6-59, Cl. 255-22.
- Heinle, Lawrence A. Toilet paper roll core. 2,889,121, 6-2-59, Cl. 242-55.2.
- Heinmiller, Percival M.: *See*—  
Barker, Stephen, and Heinmiller. 2,867,432.  
Bennett, Walter, and Heinmiller. 2,872,208.
- Heinn Co., The: *See*—  
Panfil, Conrad J. 2,878,816.
- Heinr. Auer Mühlenwerke Kommodit-Gesellschaft auf Aktien: *See*—  
Ritter, Kurt. 2,893,870.
- Heinrich, Gerhard, and A. Slibar. Gas-lubricated radial journal bearings. 2,879,111, 3-24-59, Cl. 308-9.
- Heinrich, Henry A., and N. S. Waterman, to Royal McBee Corp. Ribbon spool construction. 2,880,841, 4-7-59, Cl. 197-175.
- Heinrich, John M.: *See*—  
Williams, Alfred L. W., and Heinrich. 2,889,796.
- Heinrich, Ludwig K., to The Celotex Corp. Fiberboard apparatus. 2,890,748, 6-16-59, Cl. 162-358.
- Heinrich, Ludwig K., to The Celotex Corp. Automatic precision clutch. 2,890,775, 6-16-59, Cl. 192-33.
- Heinrich, Ludwig K., to The Celotex Corp. Severing apparatus. 2,903,545, 9-8-59, Cl. 219-19.
- Heinrich, Raymond L., to Esso Research and Engineering Co. Removal of metal contaminants from high boiling oils. 2,891,005, 6-16-59, Cl. 208-253.
- Heinrich, Raymond L., and M. T. Waddell, to Esso Research and Engineering Co. Method for testing the concentration of sulfuric acid used for catalyzing reactions. 2,891,401, 6-23-59, Cl. 73-190.
- Heinrich, Raymond L., J. A. Anderson, Jr., and N. P. Peet, to Esso Research and Engineering Co. Motor fuel composition. 2,916,366, 12-8-59, Cl. 44-56.
- Heinrichs, Charles E., to Virginia-Carolina Chemical Corp. Process for the beneficiation of phosphate ores. 2,903,131, 9-8-59, Cl. 209-3.
- Heintz, James C., Co., The: *See*—  
Eriksen, Merrill K. 2,870,482.  
Holmes, Jack H. 2,892,916.
- Heintz, Milton L., to General Electric Co. Operating mechanism for an electric switch. 2,905,787, 9-22-59, Cl. 200-92.
- Heintz, Ralph M. Internal combustion engine. 2,884,913, 5-5-59, Cl. 123-28.
- Heintzelman, Leo A. Centrifugally actuated variable size propeller. 2,885,012, 5-5-59, Cl. 170-160.11.
- Heintzelman, Leo A.  $\frac{1}{2}$  to J. J. Jingles. Paint roller. 2,887,707, 5-26-59, Cl. 15-132.5.
- Heinz, Alfred, to Western Electric Co., Inc. D.C. voltage ratio measuring system. 2,881,392, 4-7-59, Cl. 324-98.
- Heinz, Howard H. Offset wrench handle with tri-point box end and detachable socket. 2,895,364, 7-21-59, Cl. 81-177.
- Heinz, Richard. Advertising device. 2,878,603, 3-24-59, Cl. 40-53.
- Heinz, William V. Lubricators. 2,893,789, 7-7-59, Cl. 308-5.
- Heinze, Herbert, to Ing. C. Olivetti & C., S.p.A. Justifying mechanism for typewriters and the like. 2,893,532, 7-7-59, Cl. 197-84.
- Heinze, Richard, and K. Altmann. Key heads for typewriters, calculating machines and the like. 2,892,529, 6-30-59, Cl. 197-102.
- Heinze, Robert V., to Submerged Combustion Co. of America, Inc. Process and apparatus for utilizing submerged combustion. 2,890,166, 6-9-59, Cl. 203-102.
- Heinzelman, Earl E., to Armstrong Cork Co. Rotary molding device. 2,891,281, 6-23-59, Cl. 18-20.
- Heinzelman, John A. Ice rink construction. 2,878,651, 3-24-59, Cl. 62-235.
- Heinzelman, Richard V.: *See*—  
Holysz, Roman P., and Heinzelman. 2,917,536.  
Szmszkowicz, Jacob, and Heinzelman. 2,883,386.
- Heinzen, Ruth W., to McGraw-Edison Co. Support for a pendant type luminaire. 2,907,543, 10-6-59, Cl. 248-221.
- Heinzerling, August. Beating device for household purposes. 2,867,419, 1-6-59, Cl. 259-64.
- Heinzmann, Fritz. Centrifugal governor construction. 2,873,961, 2-17-59, Cl. 264-15.
- Heise, Otto W. Pressure gage. 2,895,334, 7-21-59, Cl. 73-388.
- Heiser, Joachim, to Robert Bosch G.m.b.H. Device for adjusting the timing of an injection pump. 2,910,696, 10-27-59, Cl. 123-139.
- Heisig, Charles G., to Union Carbide Corp. Apparatus for measuring viscosity. 2,869,358, 1-20-59, Cl. 73-60.
- Heisig, Garth J., to Motorola, Inc. Television receiver. 2,872,511, 2-3-59, Cl. 178-7.3.
- Heising, Raymond A. Internal combustion engines. 2,883,974, 4-28-59, Cl. 123-48.
- Heising, Robert A., to Deere & Co. Discharge control for harvester. 2,905,343, 9-22-59, Cl. 214-42.
- Heiskell, Raymond H. Composition for tracer unit. 2,899,291, 8-11-59, Cl. 52-24.
- Heisler, Harold, to Midwest Folding Products Mfg. Corp. Table stacker plate. 2,889,185, 6-2-59, Cl. 311-1.
- Heisler, Robert Y.: *See*—  
Alpert, Norman, Newman, and Heisler. 2,887,452.  
Newman, Stanley R., and Heisler. 2,897,070.  
Newman, Stanley R., Heisler, Dille, and Alpert. 2,879,230.  
Sweendy, William M., and Heisler. 2,910,352.
- Heisler, Robert Y., to The Texas Co. Process for ester production by carbonylation. 2,868,813, 1-13-59, Cl. 260-410.9.
- Heisler, Robert Y., N. Alpert, and S. R. Newman, to The Texas Co. Motor fuel composition. 2,885,274, 5-5-59, Cl. 44-71.
- Heisler, Robert Y., and A. J. Millendorf, to Texaco Inc. Synthesis of substituted succinyl compounds. 2,898,345, 8-4-59, Cl. 260-326.5.
- Heiss, John P., to Thompson Products, Inc. Adjustable self-pumping leveling system. 2,879,057, 3-24-59, Cl. 267-64.
- Heiss, John P., to Thompson Ramo Wooldridge Inc. Leveling strut. 2,915,307, 12-1-59, Cl. 267-64.
- Heithaus, Joseph J., Jr., to Shell Development Co. Paving asphalt compositions. 2,913,359, 11-17-59, Cl. 208-23.
- Heitler, Emmett H., to Shwayder Bros., Inc. Luggage case. 2,912,079, 11-10-59, Cl. 190-41.
- Heitman, Arnold M.: *See*—  
Carleton, Granville E., Harrison, Heitman, and Dantowitz. 2,894,521.
- Heitman, Clarence H. Rebuilt wooden shoe lasts. 2,874,394, 2-24-59, Cl. 12-136.
- Heitman, Joseph B., to Pennsalt Chemicals Corp. Improved process for bleaching cellulose pulp using chlorate. 2,903,326, 9-8-59, Cl. 8-105.
- Heitshu, Daniel C., to Deere & Co. Levelling mechanism for hillside operating vehicles. 2,904,341, 9-15-59, Cl. 280-6.11.
- Heitshu, Daniel C., B. F. Vogelaar, and G. W. Rohweder, to Deere & Co. Hillside combine. 2,871,646, 2-3-59, Cl. 56-209.
- Heitshu, Daniel C., and B. F. Vogelaar, to Deere & Co. Hydraulically operated hitch device. 2,887,165, 5-19-59, Cl. 172-9.
- Heitshu, Daniel C., and B. F. Vogelaar, to Deere & Co. Hitch device. 2,887,167, 5-19-59, Cl. 172-9.
- Heitzer, Erich: *See*—  
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- Heitzer, Erich, A. G. M. Gumboldt, G. Messwarb, and G. Bier, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing halogen-containing polyolefins. 2,906,743, 9-29-59, Cl. 260-94.9.
- Hekelaar, Johannes P., to N.V. Ontwerp- & Exploitatiebureau "Shunt". Ventilating system for a building, e.g. a building divided into flats. 2,895,398, 7-21-59, Cl. 98-32.
- Helberg, Burton E.: *See*—  
Davenport, Charles H., and Helberg. 2,882,147.
- Helbig, Walter A., to Radio Corp. of America. Sawtooth wave generator. 2,891,173, 6-16-59, Cl. 307-88.5.
- Helbing, Clarence H., to Pittsburgh Plate Glass Co. Reduction of dihydric alcohol losses in preparation of polyesters of said alcohols and dicarboxylic acids. 2,892,812, 6-30-59, Cl. 260-75.
- Helbing, Clarence H., and M. Barlowe, to Pittsburgh Plate Glass Co. Level control. 2,868,396, 1-13-59, Cl. 214-18.2.
- Helble, Dean R., to North American Aviation, Inc. Mount for rotatable multiple-barrel-gun. 2,898,811, 8-11-59, Cl. 89-37.
- Helbush, H. H.: *See*—  
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- Held, Fritz: *See*—  
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- Held, Fritz, R. Petermann, and W. Maag. Apparatus for epilaminizing surfaces. 2,897,778, 8-4-59, Cl. 118-48.
- Held, Hans J., and J. Weits, to Ducon Co., Inc. Apparatus for fluid catalytic reactions. 2,901,331, 8-25-59, Cl. 23-288.
- Held, Joseph, to Textile Machine Work. Sinker operating mechanism for knitting machines. 2,907,192, 10-6-59, Cl. 66-86.
- Held, Joseph, and F. P. Trumpio, to Textile Machine Works. Yarn control means for textile machines. 2,910,850, 11-3-59, Cl. 66-86.
- Held, Robert O. Voltage divider. 2,876,319, 3-3-59, Cl. 201-48.
- Held, Serge. Electrically maintained balance wheel. 2,916,641, 12-8-59, Cl. 310-39.
- Held, Serge S., A. A. Mieville, and P. G. Woog, to AESUP. Electrically controlled tooth-brush. 2,917,758, 12-22-59, Cl. 15-22.
- Heldenbrand, Arthur P. Method of straightening and testing tubular elements. 2,884,986, 5-5-59, Cl. 153-35.
- Heldenbrand, Leslie C. Massage machine. 2,909,174, 10-20-59, Cl. 128-57.
- Helders, Bartholomeus J.: *See*—  
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- Heldt, Walter Z.: *See*—  
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- Helfaer, Bertram M., and F. L. Sievenpiper, to Allied Chemical Corp. Process for producing finely divided vat dye pigments. 2,893,994, 7-7-59, Cl. 260-281.
- Helferich, Burkhardt, to Schenley Industries, Inc. Preparation of sultams. 2,917,512, 12-15-59, Cl. 260-243.



- Helferich, Burckhardt, and R. Behnisch, to Schenley Industries, Inc. Sultames. 2,916,489, 12-8-59, Cl. 260-243.
- Helferich, Friedrich: *See—*
- Haagen, Karl, and Helferich. 2,882,247.
- Helgeby, Ralph O., to General Motors Corp. Speedometer apparatus. 2,909,365, 10-20-59, Cl. 264-13.
- Helgeson, Andrew A., and C. M. Hegna, to Gadget-Of-The-Month Club, Inc. Theft-proof hub cap assembly. 2,907,604, 10-6-59, Cl. 301-37.
- Helgren, Fred J., to Abbott Laboratories. Calcium pantothenate composition. 2,918,370, 12-22-59, Cl. 99-2.
- Hell-Coil Corp.: *See—*
- Brancato, Leo J. 2,874,741.
- Brancato, Leo J. 2,886,088.
- Brancato, Leo J., and Muenzen. 2,889,960.
- Forster, John O. 2,869,224.
- Hellin, Elis E. V., and E. Magnusson, to Elektriska Svetsningsaktiebolaget. Flux composition and its method of production. 2,876,151, 3-3-59, Cl. 148-26.
- Hellin, Elis E. W.: *See—*
- Johansson, Erik, and Hellin. 2,893,085.
- Heliogen Products, Inc.: *See—*
- Carroll, Benjamin, and Kitter. 2,902,405.
- Helliot, Maurice. Hosiery shaping apparatus. 2,874,884, 2-24-59, Cl. 223-76.
- Hell, Rudolf, to Dr.-Ing. Rudolf Hell. Apparatus for producing printing forms with variable reproduction scale. 2,877,298, 3-10-59, Cl. 178-6.6.
- Hell, Rudolf, to Dr.-Ing. Rudolf Hell Kommanditgesellschaft. Method of and apparatus for electromechanically producing printing forms from line-originals. 2,880,270, 3-31-59, Cl. 178-6.6.
- Hell, Rudolf, to Kommanditgesellschaft Dr. Ing. Rudolf Hell. Apparatus for producing screened printing forms with automatic correction of tone values. 2,892,887, 6-30-59, Cl. 178-6.6.
- Hellander, Thomas A. Mechanically adjustable boom type pull shovel attachment for cranes. 2,876,920, 3-10-59, Cl. 214-134.
- Hellberg, Gustav S., to Aktiebolaget Produktions-Service. Method and means for the perforation of paper and the like. 2,908,201, 10-13-59, Cl. 90-11.
- Hellen, James S.: *See—*
- Wilcox, Frederick P., Welanetz, Autere, and Hellen. 2,875,275.
- Hellenkamp, Henry, Jr.: *See—*
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- Heller, Anton H., to RO-AN Heat Reclaimer Corp. Apparatus for cleaning tubes of heat exchanger. 2,890,862, 6-16-59, Cl. 257-1.
- Heller, Austin N., to Allied Chemical Corp. Process for production of high grade naphthalene and preparation of  $\beta$ -naphthol from acidic waters therefrom. 2,884,463, 4-28-59, Cl. 260-628.
- Heller, B., & Co.: *See—*
- Zick, William J. 2,899,311.
- Heller, Elmer W., to Hughes Aircraft Co. Compensating tracing stylus. 2,877,692, 3-17-59, Cl. 90-62.
- Heller, Fred: *See—*
- Rosner, Saul, and Heller. 2,901,003.
- Heller, George L.: *See—*
- Braendle, Harold A., and Heller. 2,908,586.
- Heller, George L., to Columbian Carbon Co. Carbon black. 2,890,839, 6-16-59, Cl. 241-3.
- Heller, George L., to Columbian Carbon Co. Manufacture of carbon black. 2,895,804, 7-21-59, Cl. 23-209.4.
- Heller, George L., to Columbian Carbon Co. Method of case hardening carbon black pellets. 2,900,737, 8-25-59, Cl. 34-12.
- Heller, George L., to Columbian Carbon Co. Process and apparatus for manufacture of carbon black. 2,918,353, 12-22-59, Cl. 23-209.4.
- Heller, Gustav & Wilhelm: *See—*
- Rosenheim, Julius. 2,876,103.
- Heller, Herbert E., R. E. Kelto, C. W. Kuhn, and T. F. Rosing, to Cutler-Hammer, Inc. Electric control device. 2,889,426, 6-2-59, Cl. 200-104.
- Heller, Herbert H.: *See—*
- Bird, James R., Calderhead, and Heller. 2,891,221.
- Heller, John K. Pilot operated valve. 2,918,080, 12-22-59, Cl. 137-490.
- Heller, Karl. Can piercing and delivery device. 2,873,885, 2-17-59, Cl. 222-81.
- Heller, Kenneth G.: *See—*
- Hulett, Henry R., and Heller. 2,884,996.
- Heller, László, to Licencia Talalmanyokart Ertekesito Vallalat. Apparatus for filling and emptying air-cooled condensers. 2,891,773, 6-23-59, Cl. 257-2.
- Heller, László, to Licencia Talalmanyokart Ertekesito Vallalat. Cooling tower. 2,907,554, 10-6-59, Cl. 217-137.
- Heller, Lewis W., and Smith. 2,896,592.
- MacKusick, Meredith H. 2,897,341.
- McLaren, Donald M. 2,897,006.
- Heller, Lewis W., to The Babcock & Wilcox Co. Method of operating a vapor generating, superheating and reheating unit. 2,884,910, 5-5-59, Cl. 122-479.
- Heller, Lewis W., and C. S. Smith, to The Babcock & Wilcox Co. Method of vapor generation, superheating and reheating, and multiple furnace apparatus therefor including gas recirculation. 2,896,592, 7-28-59, Cl. 122-240.
- Heller, Paul: *See—*
- Travis, Lawrence R., Heller, and Petrick. 2,917,735.
- Heller, Philip: *See—*
- Clarke, William W., Stevens, Bauer, Jarvis, and Heller. 2,912,186.
- Heller, Robert M., to Watts Electric & Mfg. Co. Nut and washer assembly including a resilient plastic pad to provide a seal and lock. 2,870,812, 1-27-59, Cl. 151-38.
- Heller, Robert M., to Watts Electric & Mfg. Co. Booted electrical receptacle. 2,897,473, 7-28-59, Cl. 339-101.
- Heller, Robert M., to Watts Electric & Mfg. Co. Machine for applying a sealant to articles. 2,916,765, 12-15-59, Cl. 18-4.
- Hellerbach, Joseph: *See—*
- Grüssner, André, Hellerbach, and Schnider. 2,885,401.
- Hellier, Edward G., to National Research Corp. Apparatus with rotating element for metal production. 2,879,984, 3-31-59, Cl. 266-34.
- Hellier, Edward G., N. Beecher, and P. L. Raymond, to National Research Corp. Production of metals. 2,915,382, 12-1-59, Cl. 75-63.
- Helliwell, Merle M. Harvester reel. 2,910,819, 11-3-59, Cl. 56-202.
- Hellman, Nison N.: *See—*
- Hehre, Edward J., Tsuchiya, Hellman, and Senti. 2,906,669.
- Hellman, Nison N., to United States of America, Atomic Energy Commission. Separation of uranium from thorium. 2,893,823, 7-7-59, Cl. 23-14.5.
- Hellmann, Carl S. Adjustable cam mechanism. 2,888,837, 6-2-59, Cl. 74-568.
- Hellstrom, Axel G., to Aktiebolaget Elektrolux. Heat transfer system of the vaporization-condensation type. 2,881,598, 4-14-59, Cl. 62-141.
- Hellstrom, Douglas R., to Smith and Wesson Inc. Guard for ejection opening in breech slide of firearm. 2,916,844, 12-15-59, Cl. 42-16.
- Hellwig, Harold. Dies for power press and the like. 2,908,315, 10-13-59, Cl. 153-21.
- Hellyer, John T., to Cribben and Sexton Co. Selective drive assembly. 2,913,930, 11-24-59, Cl. 74-722.
- Hellyer, John T., to R. S. Strom. Ice crusher directly driven by electric motor. 2,899,140, 8-11-59, Cl. 241-190.
- Helm, Edward J.: *See—*
- Bell, Leo A., and Helm. 2,905,437.
- Van Ackeren, Joseph, and Helm. 2,913,374.
- Helm, Homer E. Drive shaft lock system. 2,873,832, 2-17-59, Cl. 192-8.
- Helm, Tony W. Universal joint. 2,895,314, 7-21-59, Cl. 64-7.
- Helmer, Norman D., and F. H. Easton. Syringe structure. 2,869,541, 1-20-59, Cl. 128-218.
- Helmer, Norman D., and F. H. Easton. Multiple dosage syringe. 2,875,761, 3-3-59, Cl. 128-218.
- Helmer, Norman D., and F. H. Easton; said Easton assor. to said Helmer. License plate frame. 2,910,793, 11-3-59, Cl. 40-209.
- Helmers, Carl J., to Phillips Petroleum Co. Process and apparatus for distilling petroleum hydrocarbons. 2,904,509, 9-15-59, Cl. 208-357.
- Helmerson, Knut H., to Casius Corp. Ltd. Fixing device for molding reinforcing rods in a casting mold. 2,901,807, 9-1-59, Cl. 25-118.
- Helmick, Charles G., Jr.: *See—*
- Fox, Edgar C., Jr., Helmick, and Campbell. 2,871,430.
- Helmig, Willem H. T.: *See—*
- Reumerman, Theodoros, and Hamelink. 2,886,239.
- Reumerman, Theodoros, and Helmig. 2,888,199.
- Helms, James D. H. Collapsible and adjustable steering column. 2,910,887, 11-3-59, Cl. 74-493.
- Helpap, Ferdinand, to North American Philips Co., Inc. Circuit-arrangement for use in magnetic recorders. 2,897,270, 7-28-59, Cl. 179-1.
- Helsdon, Peter B., to Marconi's Wireless Telegraph Co. Ltd. Television apparatus. 2,907,821, 10-6-59, Cl. 178-7.1.
- Helsel, Joseph C., Sr. Track tension adjuster. 2,887,342, 5-19-59, Cl. 305-9.
- Helser, Ray B., to Florez, Inc. Display device. 2,868,364, 1-13-59, Cl. 206-45.2.
- Helsing, Jacob L. Water faucet valve. 2,885,177, 5-5-59, Cl. 251-187.
- Helsing, Knud J., to Westinghouse Electric Corp. Vending apparatus. 2,904,152, 9-15-59, Cl. 194-10.
- Helt, Herbert M., to National Aluminum Products Co. Knockdown adjustable railing. 2,870,996, 1-27-59, Cl. 256-22.
- Helton, James T. Cuff shaper. 2,868,424, 1-13-59, Cl. 223-63.
- Helversen, Frederick D.: *See—*
- Burton, John A., Helversen, and Hyde. 2,905,405.
- Helverson, Helen I. Hospital bed bell cord anchor. 2,876,464, 3-10-59, Cl. 5-317.
- Helwig, Ralph W.: *See—*
- Crowley, Edgar I., Franke, and Helwig. 2,878,276.
- Helwig, William J.: *See—*
- Lynar, William E., and Helwig. 2,884,554.
- Rose, George M., Jr., and Helwig. 2,918,598.
- Hemb, Harald B. Apparatus for molding tongue and groove concrete slabs. 2,896,299, 7-28-59, Cl. 25-121.
- Hemborg, Vincent E.: *See—*
- Carter, Newell A., and Hemborg. 2,874,818.



- Hemel, Albert: *See*—  
Leonard, Edward J., Hemel, Karow, Gibson, Liston, and Tarschisch. 2,918,533.
- Hemery, Jack L., and J. G. Farrell, to Continental Freezers of Illinois, Inc. Method of treating meat products. 2,876,109, 3-3-59, Cl. 99-169.
- Hemfort, Heinrich, and H. Zurbruggen, to Westfalia Separator A.G. Centrifuge drive spindle arrangement. 2,916,201, 12-8-59, Cl. 233-23.
- Hemlock, Walter F., to United States of America, Air Force. Afterburner igniter. 2,885,857, 5-12-59, Cl. 60-39.28.
- Hemmerich, Rolf H., to Shell Development Co. Method of minimizing styrene polymerization during storage. 2,867,672, 1-6-59, Cl. 260-666.5.
- Hemmers, Everhardus J. H.: *See*—  
Van Gelder, Gozewijn, and Hemmers. 2,886,635.
- Hemminger, Charles E.: *See*—  
Bleich, Leon, Codet, and Hemminger. 2,909,582.  
Luckenbach, Edward C., Metralier, and Hemminger. 2,874,112.  
Rex, Walter A., and Hemminger. 2,913,403.  
Tate, Roger W., Rex, and Hemminger. 2,873,248.
- Hemminger, Charles E., to Esso Research and Engineering Co. High pressure thermal cracking and fluid coking. 2,873,244, 2-10-59, Cl. 208-50.
- Hemminger, Charles E., to Esso Research and Engineering Co. Hydroforming in presence of recycled pentane and heart cut fractions. 2,885,347, 5-5-59, Cl. 208-102.
- Hemminger, Charles E., to Esso Research and Engineering Co. Hydroforming process using improved silica-alumina catalyst base. 2,894,900, 7-14-59, Cl. 208-135.
- Hemminger, Charles E., to Esso Research and Engineering Co. Process for hydrofining and hydroforming hydrocarbons. 2,908,627, 10-13-59, Cl. 208-64.
- Hemminger, Charles E., to Esso Research and Engineering Co. Upgrading of crude petroleum oil. 2,909,476, 10-20-59, Cl. 208-59.
- Hemminger, Charles E., to Esso Research and Engineering Co. Slurry liquid phase hydrogenation. 2,914,462, 11-24-59, Cl. 208-112.
- Hemminger, Charles E., R. H. Dudley, and R. B. Long, to Esso Research and Engineering Co. Hydroforming of a naphtha with the addition of chlorine in the second stage of a two stage hydroforming process, with the use of a platinum containing catalyst. 2,885,345, 5-5-59, Cl. 208-65.
- Hemminger, Charles E., and D. D. Dunlop, to Esso Research and Engineering Co. Hydroforming with hydrocracking of recycle paraffins. 2,889,263, 6-2-59, Cl. 208-66.
- Hemminger, Charles E., A. B. Welty, Jr., W. O. Taff, and R. W. Sage, to Esso Research and Engineering Co. Hydroforming with preliminary hydrodesulfurization. 2,901,415, 8-25-59, Cl. 208-65.
- Hemmings, Bernard D.: *See*—  
Hirsch, Andre, Gibbs, and Hemmings. 2,919,192.
- Hemness, Milton O. Idler pulley clutch for combine header belt. 2,878,634, 3-24-59, Cl. 56-122.
- Hempe, Harold H. Adjustable miter box. 2,912,019, 11-10-59, Cl. 143-89.
- Hempel, Gustav A.: *See*—  
Wacker, Wilhelm, Guillot, and Hempel. 2,889,583.
- Hempel, Gustav A., to McDowell Mfg. Co. Roller expanding and peening tool. 2,898,971, 8-11-59, Cl. 153-82.
- Hempel, Herbert W., to Marsh Stencil Machine Co. Stencil machine table alignment construction. 2,904,155, 9-15-59, Cl. 197-67.
- Hempel, Herbert W., to Marsh Stencil Machine Co. Marker. 2,913,747, 11-24-59, Cl. 15-136.
- Hempel, Rudolph M., to Borg-Warner Corp. Bearing seals for universal joints. 2,896,432, 7-28-59, Cl. 64-17.
- Hempel, Rudolph M., to Borg-Warner Corp. Bearing seals for universal joints. 2,896,433, 7-28-59, Cl. 64-17.
- Hempel, William C.: *See*—  
Wright, Kenneth A., Solum, and Hempel. 2,881,839.
- Hemphill, Adley W., to W. R. Grace & Co. Silica extrusions. 2,879,546, 3-31-59, Cl. 18-47.5.
- Hemphill, Alfred A., and J. M. Tewksbury, to Bendix Aviation Corp. Selective bridge amplifiers. 2,890,290, 6-9-59, Cl. 179-171.
- Hemphill, Alfred A., and J. M. Tewksbury, to Bendix Aviation Corp. Radio compass employing loop sensing device. 2,917,742, 12-15-59, Cl. 343-117.
- Hemphill, Carl A., to North American Aviation, Inc. Rotary actuator. 2,870,748, 1-27-59, Cl. 121-97.
- Hemphill Co.: *See*—  
Brown, Charles F., and Green. 2,886,959.  
St. Pierre, Eugene. 2,881,607.  
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St. Pierre, Eugene. 2,898,752.
- Hemphill, Frederick A.: *See*—  
Broadbent, Bernard G., and Hemphill. 2,879,421.
- Hemphill, Rayburn W., Jr. Apparatus for producing roughened surface glove forms or the like. 2,895,206, 7-21-59, Cl. 25-129.
- Hemphill, Stanley R., to Safety Automatic Brake Corp. Brake control system. 2,871,999, 2-3-59, Cl. 192-3.
- Hemphill, William C., to Traffic Safety Equipment Co. Warning barricade construction. 2,879,378, 3-24-59, Cl. 240-2.
- Hemstreet, Harold S.: *See*—  
Smith, Robert L., and Hemstreet. 2,890,528.
- Hemstreet, Harold S., to Link Aviation, Inc. Grounded aviation trainer for rotary wing aircraft. 2,885,792, 5-12-59, Cl. 35-12.
- Hemstreet, Harold S., and H. D. Eckhardt, to Link Aviation, Inc. Decimal to binary translator. 2,868,450, 1-13-59, Cl. 235-61.
- Henahan, John F.: *See*—  
Willard, Joe R., and Henahan. 2,873,228.  
Willard, Joe R., and Henahan. 2,877,152.  
Willard, Joe R., and Henahan. 2,882,198.  
Willard, Joe R., and Henahan. 2,916,415.
- Henatch, Reynold. Typewriters. 2,919,004, 12-29-59, Cl. 197-19.
- Henault, André M. E.: *See*—  
Robert, Roger A., and Henault. 2,886,261.
- Henbest, Harold B.: *See*—  
Jones, Ewart R. H., and Henbest. 2,910,471.  
Jones, Ewart R. H., Henbest, Woods, Hathway and Thomas. 2,897,213.
- Henchert, John, to Continental Can Co., Inc. Paint can and cover. 2,868,410, 1-13-59, Cl. 220-60.
- Henchert, John, to Continental Can Co., Inc. Metallic receptacle spout or nozzle mounting and method of forming same. 2,889,968, 6-9-59, Cl. 222-574.
- Henchert, John, to Continental Can Co., Inc. Container closure and method of forming same. 2,901,161, 8-25-59, Cl. 229-43.
- Henchert, John, to Continental Can Co., Inc. Method of attaching a bail ear. 2,905,124, 9-22-59, Cl. 113-120.
- Henchert, John, to Continental Can Co., Inc. Method of attaching a bail ear. 2,905,125, 9-22-59, Cl. 113-120.
- Henchert, John, to Continental Can Co., Inc. Spray can and snap-on cap assembly and manufacture thereof. 2,906,430, 9-29-59, Cl. 220-60.
- Henchert, John, and H. E. Frankenberg, to Continental Can Co., Inc. Dual compartment container structure. 2,899,096, 8-11-59, Cl. 220-4.
- Henches, Eugene W., and I. R. Sheldon, to American Telephone and Telegraph Co. "Wake up" or "morning call" system for automatically signaling private branch exchange extension stations. 2,901,542, 8-25-59, Cl. 179-6.
- Hencken, Harold G., to American Felt Co. Glass channel run. 2,917,340, 12-15-59, Cl. 296-44.5.
- Hendal, Willem P.: *See*—  
Auer, Willem U., Groothuis, Hendal, and Vink. 2,894,371.  
Doorn, Johannes, Mondria, De Rijk, and Hendal. 2,915,449.
- Hendal, Willem P., to Shell Development Co. Process for cooling a gas. 2,870,611, 1-27-59, Cl. 62-5.
- Hendal, Willem P., to Shell Development Co. Generation of cold by expansion of a gas in a vortex tube. 2,893,214, 7-7-59, Cl. 62-5.
- Hendal, Willem P., to Shell Development Co. Vortex tube with divergent hot end. 2,893,215, 7-7-59, Cl. 62-5.
- Hendal, Willem P., to Shell Development Co. Vortex tube and method of operating a vortex tube. 2,907,174, 10-6-59, Cl. 62-5.
- Hendee, Alfred W. Fastener for boxes and the like. 2,879,097, 3-24-59, Cl. 292-256.
- Hendee, Charles F., S. Fine, and W. B. Brown, to North American Philips Co., Inc. Device for charting X-ray spectra. 2,881,325, 4-7-59, Cl. 250-83.3.
- Hendee, Charles F., and S. Fine, to North American Philips Co., Inc. Method and apparatus for making X-ray measurements. 2,881,327, 4-7-59, Cl. 250-83.3.
- Hendee, Charles F., and S. Fine, to North American Philips Co., Inc. Method and apparatus for detecting radiation. 2,881,328, 4-7-59, Cl. 250-83.6.
- Hendee, Charles F., and S. Fine, to North American Philips Co., Inc. Analysis of unknown substances. 2,882,418, 4-14-59, Cl. 250-83.6.
- Hendel, Frank J., to The Distillers Co. Ltd. Purification of aqueous ethyl alcohol for use in beverages. 2,879,165, 3-24-59, Cl. 99-48.
- Hendershot, Alfred E. Brush holder for paint cans. 2,903,154, 9-8-59, Cl. 220-90.
- Hendershot, Harold F.: *See*—  
Leaberry, Ernest F., Hendershot, and Edwards. 2,882,568.
- Henderson, Albert. Apparatus for making concrete building segments. 2,870,517, 1-27-59, Cl. 25-131.
- Henderson, Albert, to The Cementstone Corp. Apparatus for making concrete structural shapes. 2,874,442, 2-24-59, Cl. 25-118.
- Henderson, Albert. Apparatus for molding reinforced concrete building slabs, columns and girders. 2,916,795, 12-15-59, Cl. 25-121.
- Henderson, Albert. Assembly table for welding reinforcing steel cages for concrete structural shapes. 2,917,015, 12-15-59, Cl. 113-99.
- Henderson, Annie L.: *See*—  
Henderson, Elmer A. L. 2,894,448.
- Henderson, Ashland S., C. D. Cross, and J. R. Riede, to Reserve Mining Co. Automatic material proportioning system. 2,888,026, 5-26-59, Cl. 137-88.
- Henderson, Ashland S., C. D. Cross, and J. R. Riede, to Reserve Mining Co. Ratio control of binder to concentrate. 2,909,303, 10-20-59, Cl. 222-57.
- Henderson, David E., and V. W. Kiser. Hydraulic screw brake. 2,905,276, 9-22-59, Cl. 188-90.



- Henderson, Edward. Hypodermic needle mount. 2,870,765, 1-27-59. Cl. 128-215.
- Henderson, Eldon C. Cord fastener. 2,911,697, 11-10-59, Cl. 24-117.
- Henderson, Eldon C. Cord fastener. 2,911,698, 11-10-59, Cl. 24-117.
- Henderson, Elmer and A. L. Combination smoke oven and all purpose cooker. 2,894,448, 7-14-59, Cl. 99-444.
- Henderson, Frank D.: *See—*  
Jamison, Robin R., and Henderson. 2,882,680.
- Henderson, Frank J., and A. J. Schenk, to Jervis B. Webb Co. Drive unit constructions for conveyor chains. 2,918,020, 12-22-59, Cl. 104-172.
- Henderson, George F., to General Motors Corp. Motor vehicle construction. 2,875,841, 3-3-59, Cl. 180-64.
- Henderson, Homer I. Drilling bit. 2,894,727, 7-14-59, Cl. 255-72.
- Henderson, Howard F.: *See—*  
Hutchens, Morris L., Lenert, and Henderson. 2,900,849.
- Henderson, J. Alvin, to International Telephone and Telegraph Corp. Information location circuit. 2,875,372, 2-24-59, Cl. 315-12.
- Henderson, J. Alvin, to International Telephone and Telegraph Corp. Charge storage device. 2,908,836, 10-13-59, Cl. 313-68.
- Henderson, J. Alvin, and N. E. Hoag, to International Telephone and Telegraph Corp. Photoemissive tube. 2,913,610, 11-17-59, Cl. 313-65.
- Henderson, James H., and J. J. Taber, to Gulf Research & Development Co. Process for increasing permeability of oil bearing formation. 2,889,884, 6-9-59, Cl. 166-38.
- Henderson, John, to Atkinson's Agricultural Appliances Ltd. Endless bands. 2,903,304, 9-8-59, Cl. 305-57.
- Henderson, John C. Apparatus for extracting naturally occurring difficultly flowable petroleum oil from a naturally located subterranean body. 2,911,047, 11-3-59, Cl. 166-61.
- Henderson, Joseph E., to United States of America, Navy. Fuze. 2,892,093, 6-23-59, Cl. 250-209.
- Henderson, Lloyd F., and F. E. Carroll, to Lever Bros. Co. Process of making nonsap detergent bars and product. 2,868,731, 1-13-59, Cl. 252-117.
- Henderson, Lloyd F., and C. H. Schramm, to Lever Brothers Co. Detergent containing  $\beta,\beta'$ -decylaminobisethanolpropionamide. 2,877,187, 3-10-59, Cl. 252-153.
- Henderson, Loran A., to E. I. du Pont de Nemours and Co. Method for applying and metal coating composition of a butadiene resin and organic derivative of titanium. 2,875,919, 3-3-59, Cl. 220-64.
- Henderson, Loran A., to E. I. du Pont de Nemours and Co. Stabilized liquid coating composition containing butadiene 1-3 and method of preparing same. 2,876,207, 3-3-59, Cl. 260-33.4.
- Henderson, Ralph L. Repeating rubber band gun. 2,917,037, 12-15-59, Cl. 124-19.
- Henderson, Ray M. Refrigeration system and apparatus having a heating cycle and a cooling cycle and method of controlling the heating cycle. 2,904,967, 9-22-59, Cl. 62-81.
- Henderson, Richard W.: *See—*  
Seltzer, Edward, Harriman, and Henderson. 2,891,865.
- Henderson, Robert: *See—*  
Weinstein, Abraham J. 2,880,525.
- Henderson, Robert D. Wheel balancing device. 2,879,667, 3-31-59, Cl. 73-483.
- Henderson, Robert M., to Fairbanks, Morse & Co. Multiple unit hump control. 2,908,852, 10-13-59, Cl. 318-158.
- Henderson, Robert R., to Burroughs Corp. Floating spring construction for type magazine and the like. 2,903,962, 9-15-59, Cl. 101-109.
- Henderson, Robert S. Baseball games. 2,886,319, 5-12-59, Cl. 273-93.
- Henderson, Shelby F., Jr.: *See—*  
Ginsburg, Charles P., and Henderson. 2,916,547.
- Henderson, Stanley D., Jr., to Westinghouse Electric Corp. Electromagnetic contactor. 2,905,870, 9-22-59, Cl. 317-157.
- Henderson, Thomas W., to United Steel Fabricators, Inc. Metal door frame. 2,874,420, 2-24-59, Cl. 20-11.
- Henderson, Wayne L. R.: *See—*  
Brooks, Wesley W., Dochterman, and Henderson. 2,882,506.
- Dierstein, Roy H., and Henderson. 2,878,301.
- Henderson, Wayne L. R., to General Electric Co. Coaxial inductive device and enclosing case therefor. 2,889,523, 6-2-59, Cl. 336-90.
- Henderson, Wayne L. R., to General Electric Co. Coil insulating and lead anchoring means for transformers. 2,902,661, 9-1-59, Cl. 336-196.
- Henderson, William E., to Union Carbide Corp. Method of packaging. 2,890,552, 6-16-59, Cl. 53-30.
- Hendley, James A., to Talon, Inc. Tape for slide fasteners. 2,907,355, 10-6-59, Cl. 139-384.
- Hendley, Joel J., and A. A. Alexander. Hose rack. 2,872,143, 2-3-59, Cl. 248-81.
- Hendricks, James and E. H. Lass. Pipe bevelers. 2,909,011, 10-20-59, Cl. 51-102.
- Hendricks, John G., and A. R. Pitrot, to National Lead Co. Vinyl resin compositions stabilized with lead chloride-lead silicate complexes. 2,874,145, 2-17-59, Cl. 260-45.75.
- Hendrickson, Charles C. Tractor hitch. 2,890,896, 6-16-59, Cl. 280-467.
- Hendrickson, Charles C. Caster wheel assembly for a disc tiller. 2,918,300, 12-22-59, Cl. 280-80.
- Hendrickson, Ellis C., and H. J. Kirschner, to Pacific Car and Foundry Co. Vertical axis propellers. 2,916,093, 12-8-59, Cl. 170-147.
- Hendrickson, Fritz E.,  $\frac{1}{2}$  to M. Ireland. Pleated buffing wheel. 2,867,062, 1-6-59, Cl. 51-193.
- Hendrickson, Joe G., to The American Oil Co. Production of duren and pseudocumene. 2,906,786, 9-29-59, Cl. 260-668.
- Hendrickson, Joe G., and F. T. Wadsworth, to The American Oil Co. Production of duren. 2,906,785, 9-29-59, Cl. 260-668.
- Hendrickson Mfg. Co.: *See—*  
Small, Charles L. 2,914,349.
- Hendrickson, Severin B., to Heywood-Wakefield Co. Folding chair. 2,918,114, 12-22-59, Cl. 155-142.
- Hendrickson, Severin B., and H. W. Wickman, to Heywood-Wakefield Co. Safety hinge limiting apparatus. 2,895,632, 7-21-59, Cl. 217-60.
- Hendriks, Herbert E. Strike-dip measuring aid. 2,914,862, 12-1-59, Cl. 33-204.
- Hendrix, Alfred L. Instant releasing C-clamp. 2,916,789, 12-15-59, Cl. 24-243.
- Hendrix, Hurshel V., and E. S. Miles, to Phillips Petroleum Co. Hydraulic fracturing to develop underground storage caverns. 2,880,587, 4-7-59, Cl. 61-5.
- Hendrix, Sylvan G., and D. W. Miller, to General Motors Corp. Propeller control system. 2,887,164, 5-19-59, Cl. 170-160.21.
- Hendrix, Sylvan G., R. A. Hirsch, and E. H. McDonald, to General Motors Corp. Propeller mechanical low pitch stop. 2,888,992, 6-2-59, Cl. 170-160.31.
- Hendry, Adolph R. Spur guard. 2,870,947, 1-27-59, Cl. 227-27.
- Hendry, Adolph R. Air bulb for atomizers and method of making same. 2,896,840, 7-28-59, Cl. 230-169.
- Hendry, Charles M., to The B. F. Goodrich Co. Method of preparing alpha-sulfo acrylic acid. 2,895,987, 7-21-59, Cl. 260-513.
- Hendry, Elmer, to Richmond-Chase Co. Can marking device. 2,875,685, 3-3-59, Cl. 101-40.
- Hendry, Eric D.: *See—*  
Turk, Walter E., and Hendry. 2,909,687.
- Hendry, Hubert M. Fertilizer and irrigation system. 2,909,002, 10-20-59, Cl. 47-1.
- Hendry, James W., to Tube Turns Plastics, Inc. Injection molding process for unplasticized polyvinyl chloride. 2,890,491, 6-16-59, Cl. 18-55.
- Hendry, James W., to Tube Turns Plastics, Inc. Process for molding polytetrafluoroethylene. 2,899,710, 8-18-59, Cl. 18-55.
- Hendry, Thomas A., to The Exello Paper Products Co. Paper-board drum or container. 2,888,184, 5-26-59, Cl. 229-5.5.
- Henebry, John P.: *See—*  
Barrett, Edward L. 2,904,272.
- Henecka, Hans, F. Ziegler, and W. Ruggeberg, to Schenley Industries, Inc. Production of anhydrous sterile preparations of alkali barbiturates and alkali thiobarbiturates. 2,887,487, 5-19-59, Cl. 260-257.
- Henecka, Hans, F. Timmler, and R. Lorenz, to Farbenfabriken Bayer A.G. 3-aryazo derivatives of piperid-2-one-3-carboxylic acid esters and process for producing the same. 2,888,451, 5-26-59, Cl. 260-156.
- Henegar, Harold E.: *See—*  
Holder, Roy B. 2,911,017.
- Heney, John F.: *See—*  
White, Alan D., and Heney. 2,906,954.
- Hengel, Mathew C., to American Cyanamid Co. Method for assembling ceramic plug to lead wires for electric blasting caps. 2,915,012, 12-1-59, Cl. 102-28.
- Hengsen, Bernard T., E. Bonami, and O. A. Clemens, to Swift & Co. Method and machine for use in packaging of bacon or the like. 2,907,152, 10-6-59, Cl. 53-35.
- Hengstebeck, Robert J.: *See—*  
Coley, John R., and Hengstebeck. 2,892,770.
- Hengstebeck, Robert J., to Standard Oil Co. Reaction-regeneration system for hydroforming naphtha with platinum-alumina catalyst. 2,873,176, 2-10-59, Cl. 23-288.
- Hengstebeck, Robert J., to Standard Oil Co. Fluidized solid catalyst regeneration-rejuvenation system. 2,881,132, 4-7-59, Cl. 208-140.
- Hengstebeck, Robert J., to Standard Oil Co. Reaction-regeneration system for hydroforming naphtha with supported platinum catalyst. 2,908,653, 10-13-59, Cl. 252-416.
- Hengstebeck, Robert J., to Standard Oil Co. Platinum catalyst reforming process. 2,914,465, 11-24-59, Cl. 208-140.
- Hengstebeck, Robert J., to Standard Oil Co. Petroleum refining. 2,917,450, 12-15-59, Cl. 208-66.
- Hengstebeck, Robert J., and J. E. Wolf, to Standard Oil Co. Process for separation of gasoline fractions of different octane number by cyclic adsorption. 2,893,944, 7-7-59, Cl. 208-95.
- Henisch, Heinz K., to Sylvania Electric Products Inc. Hall effect amplifier. 2,877,309, 3-10-59, Cl. 179-171.
- Henjum, James E.: *See—*  
Milenkovich, Joseph A., and Henjum. 2,895,916.



- Henke, Alfred M.: *See*—  
Beuther, Harold, and Henke. 2,902,440.  
Beuther, Harold, Henke, and Peterson. 2,917,448.  
McKinley, Joseph B., and Henke. 2,903,618.
- Henke, Alfred M., to Gulf Research & Development Co. Hydroforming process. 2,909,480, 10-20-59, Cl. 208-138.
- Henke, Alfred M., and H. C. Stauffer, to Gulf Research & Development Co. Process for the removal of straight chain acetylenes from isoprene. 2,900,430, 8-18-59, Cl. 260-681.5.
- Henke, Alfred M., and W. A. Horne, to Gulf Research & Development Co. Diffusion process and apparatus. 2,902,111, 9-1-59, Cl. 183-2.
- Henke, Robert H.: *See*—  
Crede, John H., Henke, Pulaski, and Stroble. 2,867,557.
- Henkel & Cie. A.G.: *See*—  
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- Henkel & Cie. G.m.b.H.: *See*—  
Blaser, Bruno, and Kaiser. 2,900,408.  
Blaser, Bruno, and Kaiser. 2,912,457.  
Blaser, Bruno, Stein, and Schütt. 2,913,488.  
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Köhler, Rudolf, and Dierichs. 2,919,198.  
Köhler, Rudolf, and Pietsch. 2,915,484.  
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Schütt, Hartwig. 2,893,344.  
Schütt, Hartwig. 2,919,273.  
Schütt, Hartwig. 2,919,280.  
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Stein, Werner. 2,913,490.
- Henkel, Hans, and H. Achtnick. Apparatus for the removal of water and foreign bodies from fluids. 2,875,900, 3-3-59, Cl. 210-301.
- Henkel, Harvey L., and R. G. Blauvelt, to Herring-Hall-Marvin Safe Co. Security file. 2,887,965, 5-26-59, Cl. 109-59.
- Henkel, Heinrich: *See*—  
Salzer, Albert, and Henkel. 2,910,557.
- Henkel, Joseph F., to Cameraflex Corp. Moving picture camera for photographing two objects simultaneously. 2,868,064, 1-13-59, Cl. 88-16.
- Henkin, Hyman, to Colgate-Palmolive Co. Shampoo compositions. 2,871,193, 1-27-59, Cl. 252-152.
- Henle, Robert A.: *See*—  
Bruce, George D., and Henle. 2,891,172.  
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Emery, Raymond W., and Henle. 2,906,889.  
Emery, Raymond W., Henle, and Logue. 2,884,546.
- Henle, Robert A., to International Business Machines Corp. Logical circuits employing junction transistors. 2,872,593, 2-3-59, Cl. 307-88.5.
- Henle, Robert A., to International Business Machines Corp. Multistable circuit. 2,903,604, 9-8-59, Cl. 307-88.5.
- Henley, Grayce L. Concept building device for teaching mathematical and other relationships. 2,876,560, 3-10-59, Cl. 35-32.
- Henn-Collins, Christopher A. Mechanical selective positioning mechanism. 2,900,848, 8-25-59, Cl. 74-768.
- Henn-Collins, Christopher A. Selective positioning mechanisms. 2,901,727, 8-25-59, Cl. 340-324.
- Henneberg, Frank J.: *See*—  
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- Hennecke, Hermann: *See*—  
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Sifrin, Andreas, and Hennecke. 2,905,116.
- Hennefer, Fred L. Eraser cleaner. 2,896,234, 7-28-59, Cl. 15-89.
- Hennemann, Georg, to American Enka Corp. Process for treating polyamide fibers. 2,909,445, 10-20-59, Cl. 117-76.
- Hennemann, Raymond G., to ACF Industries, Inc. Drain plug and float release for carburetor bowls. 2,881,791, 4-14-59, Cl. 137-409.
- Hennessey, Frank L., to United States of America, Navy. Ring source omnidirectional antenna. 2,881,431, 4-7-59, Cl. 343-753.
- Hennessey, Richard G., to International Harvester Co. Steering by driving with differential lock-out bull gear coupling. 2,874,790, 2-24-59, Cl. 180-6.2.
- Hennessey, Russell J., to Waldorf Paper Products Co. Can carrying carton. 2,874,869, 2-24-59, Cl. 220-112.
- Hennessey, Russell J., and R. M. Dunning, to Waldorf Paper Products Co. Tape roll holder. 2,879,022, 3-24-59, Cl. 248-174.
- Hennessey, Russell J., and R. M. Dunning, to Waldorf Paper Products Co. Pan carton. 2,904,170, 9-15-59, Cl. 206-46.
- Hennessey, Russell J., and R. M. Dunning, to Waldorf Paper Products Co. Can carriers. 2,912,103, 11-10-59, Cl. 206-65.
- Hennessey, Douglas J., and E. E. Kupstas, to American Lecithin Co., Inc. Combined solvent treatment of phosphatide emulsion to break said emulsion and remove non-lipid substances. 2,882,285, 4-14-59, Cl. 260-403.
- Hennessy, James J., to Hennessy Lubricator Co., Inc. Railway axle journal lubricator structure. 2,919,166, 12-29-59, Cl. 308-84.
- Hennessy Lubricator Co., Inc.: *See*—  
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- Hennies, August F., Jr., to Cochran Continental Container Corp. Press apparatus for engaging a container with a cover. 2,886,933, 5-19-59, Cl. 53-341.
- Hennig, Arnold J.: *See*—  
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- Hennig, Fritz: *See*—  
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- Hennig, Fritz, to Siemens & Halske Aktiengesellschaft. Apparatus for correcting the effects of disturbances in telegraphic communication. 2,900,447, 8-18-59, Cl. 178-23.
- Hennig, Harvey: *See*—  
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- Hennig, Harvey, to The Pure Oil Co. Manufacture of aliphatic alcohols. 2,868,848, 1-13-59, Cl. 260-639.
- Hennig, Harvey, to The Pure Oil Co. Process for selective hydrogenation of petroleum stocks. 2,878,179, 3-17-59, Cl. 208-144.
- Hennig, Harvey, to The Pure Oil Co. Process for chemical pyrolysis. 2,885,455, 5-5-59, Cl. 260-677.
- Hennig, Harvey, to The Pure Oil Co. Method of recovering bitumen. 2,906,337, 9-29-59, Cl. 166-11.
- Hennig, Ingeborg: *See*—  
Ehrhart, Gustav, Hennig, Lindner, and Ott. 2,876,262.
- Hennig, Paul W., to VEB Zeiss Ikon. Attachable rollfilm changing magazines. 2,894,437, 7-14-59, Cl. 95-34.
- Hennig, Walter, A. Scheinert, K. Taubert, and H. Strehle. Reflex cameras. 2,911,894, 11-10-59, Cl. 95-11.
- Hennig, Walter, H. Strehle, and A. Mende, to VEB Zeiss Ikon Dresden. Gear assembly, in particular for cameras and the like. 2,906,184, 9-29-59, Cl. 95-31.
- Hennigan, Henry W.: *See*—  
Hall, Dick S., and Hennigan. 2,875,146.
- Hennigan, Henry W., to Phillips Petroleum Co. Hydrocarbon conversion apparatus. 2,899,283, 8-11-59, Cl. 23-284.
- Henning, Alfred H., to The General Tire & Rubber Co. Plastic tank liners. 2,876,927, 3-10-59, Cl. 220-63.
- Henning, Donald S., to Curtis Lighting, Inc. Fixture and mounting bracket for same. 2,914,287, 11-24-59, Cl. 248-343.
- Henning, Frederick W.: *See*—  
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- Henning, George E., to Western Electric Co., Inc. Plastics extruding apparatus. 2,882,555, 4-21-59, Cl. 18-13.
- Henning, George E., to Western Electric Co., Inc. Methods of absorbing and retaining expanding media in plastic materials. 2,885,738, 5-12-59, Cl. 18-59.
- Henning, George E., to Western Electric Co., Inc. Apparatus for extruding plastic material. 2,893,056, 7-7-59, Cl. 18-13.
- Henning, George E., to Western Electric Co., Inc. Apparatus for extruding plastic material. 2,911,676, 11-10-59, Cl. 18-13.
- Henning, Harley A., and O. J. Murphy, to Bell Telephone Laboratories, Inc. Timing pulse generator circuit for magnetic drum. 2,886,802, 5-12-59, Cl. 340-174.
- Henning, Otto, to ACF Industries, Inc. Fuel supply chamber for multi-barrel carburetor. Re. 2,742, 12-1-59, Cl. 261-23.
- Henning, Otto A., to ACF Industries, Inc. Carburetor constant level chamber. 2,882,029, 4-14-59, Cl. 261-72.
- Henning, Robert W.: *See*—  
Pfaff, Elmer F., and Henning. 2,893,005.
- Henning, Rudolf E.: *See*—  
Witten, Arthur L., Jr., Marion, and Henning. 2,876,447.
- Henning, William W.: *See*—  
Donner, Verne P., Henning, and Allin. 2,917,125.
- Henning, William W., and G. J. Storatz, to International Harvester Co. Low-bed vehicle with swing-under retractable wheels. 2,867,444, 1-6-59, Cl. 280-9.
- Henninger, Friedrich: *See*—  
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- Hennings, Werner: *See*—  
Zimmermann, Ehrenfried, and Hennings. 2,884,149.
- Hennings, Werner, to Bunder-Glas G.m.b.H. Bottle closures. 2,889,951, 6-9-59, Cl. 215-47.
- Hennion, George F., to Olin Mathieson Chemical Corp. Production of trisubstituted boranes. 2,880,242, 3-31-59, Cl. 260-606.5.
- Hennion, George F., to Olin Mathieson Chemical Corp. Manufacture of trisubstituted boranes. 2,880,243, 3-31-59, Cl. 260-606.5.
- Hennion, Joseph B., to Tyler Refrigeration Corp. Telescoping shopping cart having movable lower package support. 2,903,269, 9-8-59, Cl. 280-33.99.
- Hennion, Joseph B., to Tyler Refrigeration Corp. Shopping cart; improved wheel arrangement. 2,903,273, 9-8-59, Cl. 280-124.
- Hennion, Joseph B., to Tyler Refrigeration Corp. Telescoping shopping cart; checkout signal. 2,918,294, 12-22-59, Cl. 280-33.99.
- Henny, Victor E., to Universal Oil Products Co. Hydrocarbon conversion process in the presence of hydrogen produced in the process. 2,888,395, 5-26-59, Cl. 208-111.
- Henny, Willi. Container closure and pouring attachment. 2,912,146, 11-10-59, Cl. 222-531.
- Henquet, Andre J.: *See*—  
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- Henquet, Andre J., and J. J. Perrot, to International Standard Electric Corp. Group selection system. 2,882,344, 4-14-59, Cl. 179-18.
- Henquet, Andre J., and J. J. Perrot, to International Standard Electric Corp. Switching system applicable particularly to automatic telephone system. 2,913,534, 11-17-59, Cl. 179-22.
- Henri, Rene: *See*—
- Matis, Ernest, Demolon, Nobecourt, and Henri. 2,899,189.
- Henrichs, Bernard W., to C. Hartwell, d. b. a. Hartwell Aviation Supply Co. Flush latch construction. 2,874,986, 2-24-59, Cl. 292-167.
- Henrichs, Bernard W., to C. Hartwell, d. b. a. Hartwell Aviation Supply Co. Toggle bolt latch. 2,896,751, 7-28-59, Cl. 189-35.
- Henrichs, Bernard W., to C. Hartwell, d. b. a. Hartwell Aviation Supply Co. Adjustable hook latch. 2,904,141, 9-15-59, Cl. 189-35.
- Henrichsen, Knut, to North American Aviation, Inc. Hydraulic unit with improved piston assembly. 2,901,979, 9-1-59, Cl. 103-162.
- Henricks, Jack L.: *See*—
- Schleyer, Victor, Henricks, and Baxter. 2,872,415.
- Henricks, John A., to Devex Corp. Process of lubrication. 2,868,671, 1-13-59, Cl. 117-97.
- Henricks, John A., to Devex Corp. Method of pickling and coating stainless steel in the same bath. 2,868,680, 1-13-59, Cl. 148-6.14.
- Henricks, John A. Refractory binder for metal casting molds. 2,881,081, 4-7-59, Cl. 106-38.3.
- Henrickson, Angus V.: *See*—
- Price, Thomas D., and Henrickson. 2,886,409.
- Henrickson, Henry G., to Gateway Engineering Co. Anchor slot channel structure. 2,898,758, 8-11-59, Cl. 72-101.
- Henriksen, Arthur L., to Norsk Hydro-Elektrisk Kvaestof-aktieselskab. Machine for packing bags with powdered or granulated material. 2,900,774, 8-25-59, Cl. 53-126.
- Henrikson, Oscar W., and F. E. Wood, to General Telephone Laboratories, Inc. Handset electrical terminals. 2,907,836, 10-6-59, Cl. 179-103.
- Henrikson, Thor O., to Pacific Car and Foundry Co. Hydraulic draft gears. 2,909,292, 10-20-59, Cl. 213-43.
- Henrikson, Thor O., and N. H. Smedberg. Logging bunks. 2,909,130, 10-20-59, Cl. 105-282.
- Henrite Products Corp.: *See*—
- Loftis, Homer J. 2,908,457.
- Henry, Albert R. Pavement breaking drill. 2,905,168, 9-22-59, Cl. 125-33.
- Henry, Beulah L. Copying attachment for typewriters. 2,897,944, 8-4-59, Cl. 197-153.
- Henry, Beulah L. Method of forming lock stitch. 2,906,224, 9-29-59, Cl. 112-262.
- Henry, Edwin B., Jr., to United States Steel Corp. Apparatus for testing bodies of magnetic material. 2,870,401, 1-20-59, Cl. 324-34.
- Henry, Elbert A., Jr., to Riegel Paper Corp. Consistency regulating system. 2,880,654, 4-7-59, Cl. 92-46.
- Henry, Elliott A., to Sperry Products, Inc. Automatic ultrasonic inspection. 2,883,860, 4-28-59, Cl. 73-67.9.
- Henry, Elliott A., to Sperry Products, Inc. Ultrasonic thickness gauge. 2,888,824, 6-2-59, Cl. 73-67.9.
- Henry, Frank B.: *See*—
- Cole, John M., and Henry. 2,918,307.
- Henry, Glenn C. Collapsible boats. 2,880,429, 4-7-59, Cl. 9-2.
- Henry, Hubert H.: *See*—
- Stroburg, Clark E., and Henry. 2,909,886.
- Henry, J. T. Mfg. Co., Inc.: *See*—
- Townsend, Henry H., Jr. 2,870,538.
- Henry, James J., to Constock International Methane Ltd. Means for the transportation and storage of cold boiling liquefied hydrocarbon gas. 2,896,416, 7-28-59, Cl. 62-45.
- Henry, James J., to Constock International Methane Ltd. Storage tank and means for support of same. 2,905,352, 9-22-59, Cl. 220-15.
- Henry, James P., to United States of America, Air Force. Partial pressure suit. 2,886,027, 5-12-59, Cl. 128-1.
- Henry, James W.: *See*—
- Akin, George A., and Henry. 2,887,271.
- Henry, John F.: *See*—
- Larrison, Millard S., and Henry. 2,895,990.
- Henry, Joseph P., to Union Carbide Corp. Production of 2,2-bis(oxyaryl)propane compounds. 2,884,462, 4-28-59, Cl. 260-613.
- Henry, Kenneth M., and H. B. Vincent, to Owens-Illinois Glass Co. Prevention of fracture in glass cathode-ray tubes. 2,874,017, 2-17-59, Cl. 316-19.
- Henry, Louis, to Forges de Strasbourg (Societe Anonyme). Metal cabinet structures. 2,907,471, 10-6-59, Cl. 211-136.
- Henry, Malcolm C.: *See*—
- Hasselstrom, Torsten, and Henry. 2,886,501.
- Henry, Maurice. Improvement of the tensile strength of metal products. 2,881,822, 4-14-59, Cl. 153-78.
- Henry, Nelson B. Potato slicing machine. 2,917,093, 12-15-59, Cl. 146-165.
- Henry, Nelson B., to Aldrich Machine Works. Evener mechanism stop. 2,918,704, 12-29-59, Cl. 19-70.
- Henry, Nelson R., to The Woodman Co., Inc. Vibrator for bag filling apparatus. 2,891,776, 6-23-59, Cl. 259-54.
- Henry, Noah. Cinch connector. 2,895,201, 7-21-59, Cl. 24-232.
- Henry, Patrick F.: *See*—
- Watts, Clarence R. 2,895,125.
- Henry, Robert L.: *See*—
- Rave, Joseph A., Jr., and Henry. 2,902,904.
- Rayburn, Charles C., and Henry. 2,887,622.
- Henry, Robert L., to The Cincinnati Milling Machine Co. Apparatus for reproducing a pattern outline. 2,868,993, 1-13-59, Cl. 250-202.
- Henry, Robert L., Jr., to United States of America, Navy. Electronic module mounting device. 2,892,129, 6-23-59, Cl. 317-101.
- Henry, Robert R., to Link-Belt Co. Apparatus for washing oil well drilling cuttings. 2,873,032, 2-10-59, Cl. 210-524.
- Henry, Robert S. Air-operated razor. 2,912,753, 11-17-59, Cl. 30-43.
- Henry Valve Co., Inc.: *See*—
- Jones, Evan. 2,872,154.
- Jones, Evan. 2,873,856.
- Jones, Evan. 2,895,497.
- Jones, Evan, and Palcer. 2,897,642.
- Henry, Wesley D.: *See*—
- Grotelueschen, Oliver H., Henry, and Brinkruff. 2,868,925.
- Henry, William A.: *See*—
- Alexander, Douglas S., and Henry. 2,887,521.
- Henry, William F.: *See*—
- Gehrke, August F., Marmor, Henry, and Greenberg. 2,882,167.
- Henry, William V. Separating potatoes. 2,877,475, 3-17-59, Cl. 15-3.11.
- Henry, William V., to American Enka Corp. Method of preparing freshly spun cakes of rayon for aftertreatment. 2,877,345, 3-17-59, Cl. 29-428.
- Henry, William V., to American Enka Corp. Blow box. 2,886,848, 5-19-59, Cl. 18-8.
- Hensch, Earl J., and L. H. Terlecki, to The General Fireproofing Co. Filling cabinet with double-acting drawers. 2,914,370, 11-24-59, Cl. 312-286.
- Henschel, Joseph W. Cap packaging inserts. 2,915,231, 12-1-59, Cl. 223-84.
- Henschel, Wilfred. Illumination apparatus. 2,907,868, 10-6-59, Cl. 240-1.2.
- Henschen, Edgar, and F. Lyman, to Crown Cork & Steel Co., Inc. Container feeding arrangement. 2,868,243, 1-13-59, Cl. 141-168.
- Hense, Theo, to Olympia Werke AG. Printing apparatus. 2,874,634, 2-24-59, Cl. 101-93.
- Hensel, Bernhard, to Loewe Opta Aktiengesellschaft. Static electronic lens for electron beam valves. 2,919,378, 12-29-59, Cl. 315-16.
- Hensgen, Bernard T., to Swift & Co. Ice cream sandwich machine. 2,875,708, 3-3-59, Cl. 107-1.
- Hensgen, Bernard T., to Swift & Co. Bag sealing machine and method. 2,881,573, 4-14-59, Cl. 53-22.
- Hensgen, Bernard T., to Swift & Co. Machine for use in the packaging of product. 2,898,722, 8-11-59, Cl. 53-247.
- Hensgen, Bernard T., O. A. Clemens, and W. M. Urbain, to Swift & Co. Continuous sausage manufacture and apparatus therefor. 2,877,118, 3-10-59, Cl. 99-109.
- Hensgen, Bernard T., and C. E. Evanson. Method and apparatus for preparing slabs of food product. 2,899,317, 8-11-59, Cl. 99-178.
- Hensgen, Bernard T., and H. G. Reichel, to Swift & Co. Sausage forming machine. 2,905,967, 9-29-59, Cl. 17-41.
- Henshaw, James N., to United Shoe Machinery Corp. Actuating mechanism for metal-working machines. 2,916,921, 12-15-59, Cl. 74-55.
- Henshel, Harry B. Wrist watch and band coupling. 2,901,806, 9-1-59, Cl. 24-265.
- Hensley, James L., to Ty-Sa-Man Machine Co. Plate positioning tables. 2,901,245, 8-25-59, Cl. 269-109.
- Hensley, Robert K., Jr. Shower attachment. 2,900,139, 8-18-59, Cl. 239-499.
- Hensley, Robert K., Jr. Cleaning depository. 2,911,083, 11-3-59, Cl. 194-4.
- Hensley, William H.: *See*—
- Lambrecht, Joseph A., Hensley, Kent, and Lynch. 2,902,402.
- Hensley, William L., A. J. Kirsch, and R. E. Layman, Jr., to American Cyanamid Co. Mixture of certain oil-modified alkyd resins blended with a resinous reaction product of certain acids with an adduct of an alkylene oxide with certain polyhydric alcohols. 2,889,293, 6-2-59, Cl. 260-22.
- Henson, Kenneth L.: *See*—
- Weber, Carl, and Henson. 2,875,953.
- Henson, Roy O., to General Motors Corp. Electroplating rack. 2,898,285, 8-4-59, Cl. 204-297.
- Henss, Paul: *See*—
- Mattern, Johannes, and Henss. 2,912,034.
- Mattern, Johannes, and Henss. 2,917,302.
- Henstrom, Sten A., and K. S. R. Hultgren, to Aktiebolaget Bofors. Feeding installation for feeding rounds of ammunition from a magazine to a hoist. 2,891,448, 6-23-59, Cl. 89-46.
- Henszey, Robert T., to Lear, Inc. Line frequency doubler. 2,867,731, 1-6-59, Cl. 307-11.
- Hentschel, Herbert, and O. Sussenguth, to Rutgerswerke-Akt. Process for the preparation of nitrogenous condensation products of phenols and aldehydes. 2,880,195, 3-31-59, Cl. 260-54.



- Hentz, Karl J. Devices for use in making permanent layout impressions. 2,900,726, 8-25-59, Cl. 33-42.
- Henwood, Gerald A.: *See—*  
Herrmann, Karl L., Barr, and Henwood. 2,884,288.
- Henwood, Russell H. Matchbook with windbreak. 2,887,217, 5-19-59, Cl. 206-35.
- Henzel, George L., to Cobehn, Inc. Automatic high velocity spray cleaning apparatus. 2,904,053, 9-15-59, Cl. 134-58.
- Heotis, James P.: *See—*  
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- Hepburn, Robert, to Morton Machine Co. Ltd. Mixing apparatus. 2,901,988, 9-1-59, Cl. 107-30.
- Hepler, Donald L., to Sharon Steel Corp. Strap stretching tool construction. 2,893,689, 7-7-59, Cl. 254-51.
- Hepler, John M., Jr.: *See—*  
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- Hepp, Carlos A., and P. J. Schoenster, to Alfred Hofmann & Co. Selvage draw-off means. 2,916,899, 12-15-59, Cl. 66-149.
- Hepp, Harold J.: *See—*  
Ray, Gardner C., and Hepp. 2,894,049.
- Hepp, Rudolf. Apparatus for placing and assembling folded sheets of paper on a conveying means. 2,891,790, 6-23-59, Cl. 270-55.
- Heppe, Karl R. W., to Hager & Meisinger G.m.b.H. Dental finishing tool, especially for interproximal work. 2,902,763, 9-8-59, Cl. 32-40.
- Heppenstall Co.: *See—*  
Janoff, Daniel L. 2,874,990.  
Kendall, Edgar H. 2,897,990.
- Heppenstall, Samuel B., Jr., to American Forge and Mfg. Co. Tong apparatus. 2,906,555, 9-29-59, Cl. 294-88.
- Hepworth Machine Co., Inc.: *See—*  
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- Heraeus Quarzschmelze G.m.b.H.: *See—*  
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- Heraeus, W. C., G.m.b.H.: *See—*  
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Schwindt, Johannes. 2,885,997.
- Heraeus, Wilhelm H., and H. Mohn, to Heraeus Quarzschmelze G.m.b.H. Casings for gas discharge tubes and lamps and process. 2,904,713, 9-15-59, Cl. 313-112.
- Herb, John R., to R. K. Laros Co. Dextran-iron complex and process for making same. 2,885,393, 5-5-59, Cl. 260-209.
- Herb, Raymond G., to Wisconsin Alumni Research Foundation. Vacuum pump. 2,888,189, 5-26-59, Cl. 230-69.
- Herb, Raymond G., to Wisconsin Alumni Research Foundation. Pump. 2,894,679, 7-14-59, Cl. 230-69.
- Herb, Raymond G., to Wisconsin Alumni Research Foundation. Vacuum pump. 2,913,167, 11-17-59, Cl. 230-69.
- Herbage, Bernard S., to Allis-Chalmers Mfg. Co. Relief valve. 2,905,358, 9-22-59, Cl. 220-89.
- Herbenar, Edward J., to Thompson Products, Inc. Plastic lined ball joint with integral seal. 2,868,572, 1-13-59, Cl. 287-90.
- Herbenar, Edward J., to Thompson Products, Inc. Hydraulic type vehicle power steering device. 2,885,020, 5-5-59, Cl. 180-79.2.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Self-leveling suspension assembly for vehicles. 2,904,346, 9-15-59, Cl. 280-124.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Integral power steering system. 2,909,939, 10-27-59, Cl. 74-388.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Self-adjusting pivot bushing for vehicle suspension. 2,913,251, 11-17-59, Cl. 280-96.1.
- Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Coupling. 2,917,910, 12-22-59, Cl. 64-15.
- Herbenar, Edward J., and S. S. Mazur, to Thompson Products, Inc. Ball and socket joint assembly. 2,880,025, 3-31-59, Cl. 287-85.
- Herbener, Henry M. Body encircling garment. 2,900,981, 8-25-59, Cl. 128-465.
- Herbert, Alfred, Ltd.: *See—*  
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- Herbert, Charles N. and T. W. Knitted hosiery. 2,910,852, 11-3-59, Cl. 66-180.
- Herbert, Edward V., to California Research Corp. Strata-plotter. 2,900,724, 8-25-59, Cl. 33-1.
- Herbert George Co.: *See—*  
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- Herbert, Raymond E. Filter baffles. 2,888,140, 5-26-59, Cl. 210-275.
- Herbert, Robert E. Game carrier. 2,873,449, 2-17-59, Cl. 2-94.
- Herbert, Theodore W.: *See—*  
Herbert, Charles N. and T. W. 2,910,852.
- Herbert, Thomas M., to The Budd Co. Multi-fluid brake operating motor. 2,904,961, 9-22-59, Cl. 60-97.
- Herbert, Wilhelm, C. Bratzler, O. Dorschner K.-H. Eisenlohr, and H. W. Gross, to Metallgesellschaft Aktiengesellschaft. Process for the hydrogenation of hydrocarbons. 2,901,423, 8-25-59, Cl. 208-264.
- Herbert, Wilhelm, K. Grob, and K. H. Eisenlohr, to Metallgesellschaft Akt. Separation of phenols from their mixtures with neutral oils. 2,888,491, 5-26-59, Cl. 260-627.
- Herbes, William F.: *See—*  
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- Herbes, William F., and R. Polansky, to American Cyanamid Co. Stable thiourea and urea mixed resins and their preparation. 2,881,153, 4-7-59, Cl. 260-70.
- Herbolsheimer, Bruce E.: *See—*  
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- Herbruck, Robert A. Storage container. 2,899,884, 8-18-59, Cl. 99-235.
- Herbruggen, Heinrich J. B., to Pettibone Mulliken Corp. Mold blowing apparatus. 2,877,522, 3-17-59, Cl. 22-36.
- Herbruggen, Heinrich J. B., to Pettibone Mulliken Corp. Foundry plant. 2,918,711, 12-29-59, Cl. 22-20.
- Herbst, Edward J., to The Singer Mfg. Co. Needle threaders for sewing machines. 2,910,029, 10-27-59, Cl. 112-225.
- Herbst, Ralph L.: *See—*  
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- Herbst, Ralph L., Jr.: *See—*  
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- Herchelroth, Joseph B.: *See—*  
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- Hercik, Lad L. Simultaneously adjustable pinch rolls for feeding endless strips. 2,871,011, 1-27-59, Cl. 271-2.3.
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- Hercules Powder Co.: *See—*  
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Cartwright, Charles R. 2,916,514.  
Christman, Donald L. 2,884,353.  
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Klug, Eugene D. 2,895,931.  
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Matlack, Albert S. 2,891,041.  
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McAndrew, John F. 2,915,520.  
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Price, Charles C. 2,895,921.  
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Thomas, Walter W. 2,909,510.  
Thomas, Walter W. 2,909,511.  
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- Herlach, Heinrich, R. Stadelmann, and W. Rossmanith, to Machine Tool Works Oerlikon, Administration Co. Drum magazine for automatic fire arms. 2,910,917, 11-3-59, Cl. 89-33.
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- Hermann, Joseph A., and R. W. Lorence, Sr. Portable knife sharpener. 2,897,640, 8-4-59, Cl. 51-173.
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- Hermelin, Victor M. Monohydroxy magnesium aluminum salt of an amino aliphatic acid and method of preparing same. 2,907,781, 10-6-59, Cl. 260-448.
- Hermeling, Gilbert C., Jr.: See—
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- Eisler, Paul. 2,886,880.
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- Hermesen, Johannes, and P. J. Kraayeveld, to North American Philips Co., Inc. Geiger-Muller detector. 2,899,582, 8-11-59, Cl. 313-93.
- Hern, Howard D., to Collins Radio Co. Frequency modulation means including pulse position modulation. 2,870,412, 1-20-59, Cl. 332-16.
- Herndon, Arthur J. Necktie display device. 2,870,946, 1-27-59, Cl. 223-85.
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- Herner, Ray H., to Petch Mfg. Co. Pressure biased actuator rod for hydraulic piston and cylinder assemblies. 2,918,908, 12-29-59, Cl. 121-148.
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- Hernqvist, Karl G., to Radio Corp. of America. Pulse width modulation system. 2,874,355, 2-17-59, Cl. 332-8.
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- Herr, Donald L. Arbitrary function generators. 2,872,602, 2-3-59, Cl. 310-111.
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- Herr Equipment Corp., The: See—
- Herr, Richard F. 2,868,540.
- Herr, Richard F. 2,870,818.
- Herr, Frederick W.: See—
- Schoepel, John F., Varner, and Herr. 2,899,393.
- Herr and Futtly: See—
- Herr, John L. 2,877,914.
- Herr and Futtly, Inc.: See—
- Herr, John L. 2,883,164.
- Herr, Gerhard, and W. O. Treber, to Gebrüder-Happich-Gesellschaft mit beschränkter Haftung. Sun visor. 2,901,038, 8-25-59, Cl. 160-354.
- Herr, John L., to Herr and Futtly. Feed mixing apparatus. 2,877,914, 3-17-59, Cl. 214-522.
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- Herr Mfg. Co., Inc.: See—
- Atwood, Hyatt B. 2,867,076.
- Fillinger, Charles. 2,871,651.
- Herr, Milton E.: See—
- Pederson, Raymond L., Herr, Babcock, Campbell, and Hogg. 2,867,630.
- Herr, Milton E., to The Upjohn Co. 17 $\beta$ -hydroxy-17 $\alpha$ -methyl-androstane-3,11-dione. 2,881,191, 4-7-59, Cl. 260-397.45.



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- Herren, Alfred B., to Boeing Airplane Co. Means for measuring bulk modulus. 2,880,611, 4-7-59, Cl. 73-53.
- Herrera, Juan H. Coffee makers. 2,893,306, 7-7-59, Cl. 99-302.
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- Herring, Ardis D., and W. H. Du Shane, to Deere & Co. Adjustable seat. 2,892,486, 6-30-59, Cl. 155-115.
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- Herrmann, Alvin G. Apparatus for making stencils. 2,867,155, 1-6-59, Cl. 93-1.
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- Herrmann, John A., and G. H. Farnsworth, to I-T-E Circuit Breaker Co. Narrow panelboard having suspended main lugs. 2,880,263, 3-31-59, Cl. 174-60.
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- Herrmann, William C., Jr., to Texas Instruments Inc. Mirror coating alloy. 2,881,089, 4-7-59, Cl. 117-35.
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- Herron, De Witt A., to Colorado Dry Concentrator Co. (a Trust), L. B. Davis, executive trustee. Dry separators. 2,885,077, 5-5-59, Cl. 209-133.
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- Hershinger, Lincoln W., to Philco Corp. Indexing system for color television receivers. 2,888,512, 5-26-59, Cl. 178-5.4.
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- Hertl, Robert, to Westinghouse Electric Corp. Turbine apparatus. 2,905,434, 9-22-59, Cl. 253-78.
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- Herwig, Otto, to Maschinenfabrik Augsburg-Nürnberg, A.G. Synthesis gas production. 2,909,416, 10-20-59, Cl. 48-196.
- Hery, Vincent D., to The American Tool Works Co. Pan spraying machine. 2,892,438, 6-30-59, Cl. 118-2.
- Herz, Friedrich. Process for television transmission. 2,899,496, 8-11-59, Cl. 178-75.
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- Herz, William H., to Borolite Corp. Sintered Ni-Al-Zr compositions. 2,884,688, 5-5-59, Cl. 29-112.
- Herzberger, Maximilian J., to Eastman Kodak Co. High resolution lenses for microphotography. 2,878,723, 3-24-59, Cl. 88-57.
- Herzfeld, Maura L.: See—  
Offermann, Alfredo M. 2,869,359.
- Herzig, Albert M.: See—  
McIntosh, Harold A., Mouron, Stell, and Herzig. 2,870,885.
- Herzog, August G. Bobbin carrier for braiding machines. 2,895,371, 7-21-59, Cl. 87-56.
- Herzog, Gerhard, to The Texas Co. Radiation detector. 2,875,364, 2-24-59, Cl. 313-93.
- Herzog, Gerhard, to Texaco Inc. Method of treating a petroleum producing formation. 2,906,340, 9-29-59, Cl. 166-39.
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- Herzog, Hershel L.: See—  
Gould, David H., Herzog, and Hershberg. 2,899,447.
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- Herzog, Levonna: See—  
Gold, Marvin H., and Herzog. 2,918,489.
- Heselow, Simon: See—  
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- Heseltine, Donald W.: See—  
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Webster, Frank G., Heseltine, and Brooker. 2,887,480.
- Heseltine, Donald W., to Eastman Kodak Co. Heterocyclic quaternary salts containing a cyclohexenyldienemethyl substituent. 2,887,479, 5-19-59, Cl. 260-240.
- Heseltine, Donald W., and L. G. S. Brooker, to Eastman Kodak Co. Tricarboycyanine infrared absorbing dyes. 2,895,955, 7-21-59, Cl. 260-240.5.
- Heselow, James C., to Radio Condenser Co. Radio tuners. 2,875,620, 3-3-59, Cl. 74-10.7.
- Heselow, James C., to Bethlehem Steel Co. Controllable function potentiometer. 2,913,694, 11-17-59, Cl. 338-48.
- Heslet, Charles G.: See—  
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- Heslin, Lawrence J., and E. W. McLaren. Collet indexing device. 2,909,374, 10-20-59, Cl. 279-5.
- Heslop, Elliott G.: See—  
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- Heslop, Robert N.: See—  
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- Heslop, Robert N., to Imperial Chemical Industries Ltd. New anthraquinonoid dyestuffs. 2,907,762, 10-6-59, Cl. 260-249.
- Hess, Adele: See—  
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- Hess, Christian H.: See—  
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- Hess, Francis M.: See—  
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- Hess, Frank. Multiple instrument playing device. 2,912,894, 11-17-59, Cl. 84-171.
- Hess, Frederic O., to Selas Corp. of America. Metal heating. 2,867,431, 1-6-59, Cl. 263-52.
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- Hess, Frederic O., to Selas Corp. of America. Food cooking apparatus. 2,908,267, 10-13-59, Cl. 126-299.
- Hess, Frederic O., to Selas Corp. of America. Heating apparatus. 2,916,277, 12-8-59, Cl. 263-8.
- Hess, Frederic O., to Selas Corp. of America. Apparatus for convection heating. 2,917,299, 12-15-59, Cl. 263-40.
- Hess, George R. Safety support for ladders. 2,868,427, 1-13-59, Cl. 228-64.
- Hess, Hans: See—  
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- Hess, Hans, to Olympia Werke A. G. Braking device for paper carriage of office writing machines. 2,873,016, 2-10-59, Cl. 197-183.
- Hess, Hans, to Olympia Werke A. G. Power-operated office machine. 2,904,158, 9-15-59, Cl. 197-66.
- Hess, Hans, and G. Lüder, to Olympia Werke A. G. Control for power-operated office machines. 2,919,006, 12-29-59, Cl. 197-66.
- Hess, Harry C. Apparatus for routing wing skin panels for aircraft and the like. 2,891,451, 6-23-59, Cl. 90-13.
- Hess, Heinrich: See—  
Hoyden, Adolf, and Hess. 2,914,783.
- Hess, Howard V.: See—  
Carter, Norman D., and Hess. 2,918,511.  
Carter, Norman D., Hess, and Riordan. 2,908,639.  
Christensen, Edward R., and Hess. 2,886,509.  
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- Hess, Howard V., and W. A. Ray, to The Texas Co. Stabilized mineral sorbents and process therefor. 2,885,368, 5-5-59, Cl. 252-428.
- Hess, Howard V., and E. R. Christensen, to The Texas Co. Method of treating a petroleum fraction using molecular sieve aluminosilicate selective adsorbents. 2,886,508, 5-12-59, Cl. 208-79.
- Hess, Howard V., and E. R. Christensen, to The Texas Co. Adsorption separation process. 2,889,893, 6-9-59, Cl. 183-114.2.
- Hess, Howard V., and E. R. Christensen, to Texaco Inc. Method of treating a petroleum fraction using selective solid adsorbents. 2,891,902, 6-23-59, Cl. 208-65.
- Hess, Howard V., and E. B. Christensen, to The Texas Co. Method of treating  $AC_4$  hydrocarbon stream. 2,894,998, 7-14-59, Cl. 260-680.
- Hess, Howard V., J. Ryer, and M. Fontaine, to Texaco Inc. Process for removing trace metals with hydrogen and an inert packing material. 2,910,434, 10-27-59, Cl. 208-251.
- Hess, James L., Jr., to Westinghouse Electric Corp. Socket support. 2,916,718, 12-8-59, Cl. 339-17.
- Hess, John J., Jr., to Sperry Rand Corp. Control systems for dirigible craft. 2,869,063, 1-13-59, Cl. 318-489.
- Hess, Joseph W.: See—  
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- Hess, Karl W., to North American Philips Co., Inc. Voltage regulating system. 2,905,880, 9-22-59, Cl. 321-7.
- Hess, Kurt: See—  
Wegner, Christian, Holschmidt, and Hess. 2,916,519.
- Hess, Lawrence G., and H. W. Schulz, to Union Carbide Corp. Synthesis of esters of lower aliphatic alcohols. 2,898,366, 8-4-59, Cl. 260-488.
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- Hess, Lawrence G., and N. R. Cox, to Union Carbide Corp. Hydroformylation of conjugated dienes. 2,912,464, 11-10-59, Cl. 260-604.
- Hess, Lester J.: See—  
Long, Jasper, and Hess. 2,907,852.
- Hess, Norman E.: See—  
Kendall, George A., and Hess. 2,918,180.
- Hess, Paul D., to Allis-Chalmers Mfg. Co. Arrangement for improving operation of hydraulic turbine. 2,914,301, 11-24-59, Cl. 253-117.
- Hess, Paul S.: See—  
Nelson, Melvin C., and Hess. 2,894,560.
- Hess, Ray H. Fishing tackle. 2,895,253, 7-21-59, Cl. 43-42.15.
- Hess, Relza J., and C. G. A. Swanson, to Lake Erie Machinery Corp. Billet loader. 2,919,039, 12-29-59, Cl. 214-1.
- Hess, Richard C., to Westinghouse Air Brake Co. Armature holddown latch for electrical relays. 2,916,677, 12-8-59, Cl. 317-187.
- Hess, Thomas D., to American Bosch Arma Corp. Fuel injection pump. 2,895,420, 7-21-59, Cl. 103-2.
- Hess, Walter R. Wall structure. 2,875,866, 3-3-59, Cl. 189-34.
- Hess, William F. Chain having a one piece folded tubular link. 2,870,598, 1-27-59, Cl. 59-80.
- Hess, Werner G., to Dana Corp. Machine for locating and clamping a pair of telescoped channel rail elements into unit relationship. 2,878,555, 3-24-59, Cl. 29-200.
- Hesse, Arno, E. W. Heden, Jr., and J. B. Sola, to Remington Arms Co., Inc. Power plane. 2,871,897, 2-3-59, Cl. 145-4.
- Hesse, Paul, and H. Imme, to Aktiebolaget Svenska Kullagerfabriken. Display device. 2,886,909, 5-19-59, Cl. 40-106.25.
- Hessel, Frederick A.: See—  
Martin, James W., Hessel, Hammer, and Rust. 2,875,831.  
Martin, James W., Hessel, Hammer, and Rust. 2,875,832.  
Steckler, Robert, Hessel, and Werner. 2,893,973.
- Hessel, Frederick A., and G. Robinson, to General Aniline & Film Corp. Polyester film of 2-butene-1,4-diol and methyl vinyl ether-maleic anhydride copolymer crosslinked with N-vinyl-2-pyrrolidone and process for preparing same. 2,882,257, 4-14-59, Cl. 260-45.4.
- Hesselink, Frans, to American Enka Corp. Method and apparatus for the manufacture of yarn. 2,908,937, 10-20-59, Cl. 18-8.



- Hessinger, Philip S., to Mycalex Corp. of America. Ceramoplastic and method of manufacturing same. 2,897,573, 8-4-59, Cl. 25-156.
- Hessler, John, Jr., to International Telephone and Telegraph Corp. Twin probe waveguide transition. 2,909,735, 10-20-59, Cl. 333-33.
- Hesson, James C., to Cardox Corp. Method of and apparatus for storing and dispensing liquid carbon dioxide. 2,880,594, 4-7-59, Cl. 62-54.
- Hesston Mfg. Co., Inc.: *See*—  
White, Allen A. 2,883,217.
- Hester Plow Co., Inc.: *See*—  
Smith, Donald G. 2,908,336.
- Hester, William H., Jr., to A. E. Warnberg. Self-righting container. 2,913,153, 11-17-59, Cl. 222-463.
- Hesterman, Francis C., to Flexonics Corp. Fluid-operated apparatus for forming flexible tubing. 2,887,146, 5-19-59, Cl. 153-73.
- Hestvik, Ole A., F. R. Olin, A. L. Salmén, and B. A. Söderberg, to Aktiebolaget Cellico. Apparatus for disintegration of wood materials. 2,914,259, 11-24-59, Cl. 241-46.
- Hetchler, Lester F.: *See*—  
Welker, Oscar L., and Hetchler. 2,873,368.
- Heteji, Paul S., to Worthington Corp. Dust seal for an industrial mixer. 2,869,900, 1-20-59, Cl. 285-9.
- Heth, Sherman C.: *See*—  
Krause, Norman R., Heth, and Naery. 2,887,761.
- Heth, Sherman C., to J. I. Case Co. Method of manufacture of slide for spreaders. 2,892,245, 6-30-59, Cl. 29-148.3.
- Hetherington, Sidney W. Fluid flow control valve with modulating orifice. 2,884,009, 4-28-59, Cl. 138-46.
- Hetrick, George L., to Westinghouse Electric Corp. Washing apparatus. 2,899,815, 8-18-59, Cl. 68-17.
- Hettche, Hans O., to Forschungsgesellschaft der Wabag Wasserreinigungsbau m.B.H. Removal of urochrome from otherwise potable water by adsorption. 2,884,378, 4-28-59, Cl. 210-37.
- Hettche, Otto, and K. Schultze, to Bran & Lubbe. Process and an apparatus for measuring impurities of water. 2,895,329, 7-21-59, Cl. 73-53.
- Hettick, George R., to Phillips Petroleum Co. Removal of sulfur dioxide from oils. 2,905,638, 9-22-59, Cl. 208-338.
- Hettinger, William P., Jr., to Engelhard Industries, Inc. High temperature activation of a palladium-alumina reforming catalyst. 2,893,948, 7-7-59, Cl. 208-138.
- Hettrick, Carl R. Line connector for fishing appliances. 2,874,511, 2-24-59, Cl. 43-44.87.
- Hetzl, Max, to Bulova Watch Co., Inc. Tuning fork oscillator. 2,888,582, 5-26-59, Cl. 310-25.
- Hetzl, Max, to Bulova Watch Co., Inc. Timepiece arrangement. 2,900,786, 8-25-59, Cl. 58-23.
- Hetzl, Max, to Bulova Watch Co., Inc. Motion transformer. 2,908,174, 10-13-59, Cl. 74-128.
- Hetzl, Stanford J., to Sun Oil Co. Separation process. 2,881,127, 4-7-59, Cl. 208-26.
- Hetzl, Wayne D., and J. T. Simons. Pop-up cooker. 2,915,000, 12-1-59, Cl. 99-327.
- Hetzler, Johannes J. H. M. Apparatus for extracting liquid from liquid-containing material. 2,915,005, 12-1-59, Cl. 100-121.
- Hetzler, Lewis R.: *See*—  
Short, Brooks H., Hetzler, and Falge. 2,879,352.
- Hetzler, Lewis R., to General Motors Corp. Magnetic amplifier voltage regulator. 2,886,765, 5-12-59, Cl. 322-28.
- Heuboski, Walter J., and H. T. Milgrom. Pessary. 2,875,755, 3-3-59, Cl. 128-127.
- Heuchert, Erwin: *See*—  
Gipsis, Peter. 2,902,849.
- Heuer, Charles H., to Zenith Radio Corp. Combined color burst separator and blanking pulse amplifier. 2,917,575, 12-15-59, Cl. 178-54.
- Heuer, Charles H., and J. L. Rennick, to Zenith Radio Corp. Color-killer system. 2,908,750, 10-13-59, Cl. 178-54.
- Heuer, Kurt: *See*—  
Elling, Hugo, Ellsner, and Heuer. 2,893,821.
- Heuer, Russell P., to General Refractories Co. Process of molding refractory brick. 2,902,721, 9-8-59, Cl. 18-59.
- Heuer, Russell P., to General Refractories Co. Refractory lining for rotary kilns. 2,903,254, 9-8-59, Cl. 263-33.
- Heumann, Eberhard, to Firma Krauss-Maffei Akt. Bogle mountings for rail vehicles. 2,885,970, 5-12-59, Cl. 105-199.
- Heurtier, Antoine, to Etablissements Heurtier & Cie. Sound reading device for cinematographic projectors. 2,867,439, 1-6-59, Cl. 274-4.
- Heus, Raymond J.: *See*—  
Hatch, Loranus P., Miles, Sheehan, Wiswall, and Heus. 2,893,936.
- Heuse, Otto L., to Max-Planck-Institut für Biophysik. X-ray tube. 2,900,543, 8-18-59, Cl. 313-60.
- Heuser, Leon J.: *See*—  
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Dutcher, James D., Donovick, Heuser, Pagano, and Perlman. 2,916,484.  
Pagano, Joseph F., Donovick, Dutcher, and Heuser. 2,902,412.
- Heuser, Paul F.: *See*—  
Chandler, Wesley M., and Heuser. 2,884,901.
- Heusi, Hans, to Christen & Co. S.A. Machine for sharpening drills. 2,907,150, 10-6-59, Cl. 51-219.
- Heusler, Karl: *See*—  
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,904,545.  
Wettstein, Albert, and Heusler. 2,918,480.
- Heusner, Wilhelm L. G., to Herman Schwarz K.G. Mine prop. 2,912,211, 11-10-59, Cl. 248-354.
- Heusser, Hans: *See*—  
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- Heuvel, Johan G. F. Electric shaver having built-in cooling means. 2,899,743, 8-18-59, Cl. 30-34.
- Hevener, Osborn F. Weather indicator. 2,874,571, 2-24-59, Cl. 73-336.
- Heveran, Glenn E.: *See*—  
Harrington, Robert D., Heveran, and Kolar. 2,896,035.
- Heveran, Glenn E., to Shurhit Products, Inc. Ignition breaker assembly. 2,914,625, 11-24-59, Cl. 200-31.
- Heverly, Lancy F. Pipe support. 2,891,749, 7-23-59, Cl. 248-49.
- Hevi Duty Electric Co.: *See*—  
Monday, John C. 2,907,857.
- Hewett, William A., R. C. Jones, and L. E. Lorensen, to Shell Development Co. Polymeric pour point depressant compositions. 2,895,915, 7-21-59, Cl. 252-59.
- Hewitt, Chester H., Jr. Tab lock for slide-fasteners. 2,915,798, 12-8-59, Cl. 24-205.11.
- Hewitt, Ellis E., R. J. Bush, and W. B. Jeffrey, to Westinghouse Air Brake Co. Hose clamp applying machine. Re. 24,636, 4-21-59, Cl. 81-9.3.
- Hewitt, Ernest W., to The Western Union Telegraph Co. Sprocket feed paper synchronizer. 2,908,370, 10-13-59, Cl. 197-133.
- Hewitt, Ernest W., to The Western Union Telegraph Co. Message paper cutter. 2,912,501, 11-10-59, Cl. 178-42.
- Hewitt, Ernest W., and J. J. Krakusky, to The Western Union Telegraph Co. Message accumulator and stacker. 2,868,874, 1-13-59, Cl. 178-42.
- Hewitt, John E., L. F. Schmidt, and D. G. Gardner, to Abrams Instrument Corp. Time base mechanism. 2,868,924, 1-13-59, Cl. 200-90.
- Hewitt, Redginal I.: *See*—  
Bach, Frederick L., Jr., and Hewitt. 2,868,692.
- Hewitt, Redginal I., and L. H. Taylor, Jr., to American Cyanamid Co. Anthelmintic compositions containing chlorine substituted amides and methods for using same. 2,877,154, 3-10-59, Cl. 167-53.
- Hewitt, William H., Jr., to Bell Telephone Laboratories, Inc. Wave guide components controlled by ferro-magnetically resonant elements. 2,870,418, 1-20-59, Cl. 333-7.
- Hewitt, Woodrow W., to Parks-Cramer Co. Creel for twisting and similar machines. 2,869,903, 1-20-59, Cl. 287-54.
- Hewitt, Woodrow W., to Parks-Cramer Co. Adjustable creel assembly. 2,880,024, 3-31-59, Cl. 287-54.
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Arms, Richard A. 2,896,689.  
Chesebrough, James A., Scott, and Elliott. 2,894,178.  
Hartke, Dexter C. 2,881,317.  
Hewlett, William R. 2,871,452.  
Lacy, Peter D. 2,881,393.  
Reis, Charles S. 2,900,522.  
Schrock, Norman B., Clement, and Herremann. 2,894,205.  
Scott, David R., Chesebrough, and Elliott. 2,877,657.  
Tepper, Gene S., and Clement. 2,875,905.  
Watkins, Dean A. 2,900,558.  
Wunderman, Irwin. 2,896,086.
- Hewlett, William R., to Hewlett-Packard Co. Broad band waveguide directional coupler. 2,871,452, 1-27-59, Cl. 333-10.
- Hewson, John E. Valve manifold. 2,871,881, 2-3-59, Cl. 137-597.
- Hewton, John T.: *See*—  
Cass, Samuel, and Hewton. 2,908,891.
- Hexcel Products Inc.: *See*—  
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Holland, Kenneth M. 2,887,425.  
Steele, Roger C., and Tast. 2,870,693.
- Hey, Peter: *See*—  
Willey, George L., and Hey. 2,895,995.
- Heyd, Josef W., to United States of America, Atomic Energy Commission. Timing circuit. 2,895,047, 7-14-59, Cl. 250-27.
- Heyden, Herbert F., to Baby World Co., Inc. Diaper pin. 2,887,748, 5-26-59, Cl. 24-156.
- Heyden Newport Chemical Corp.: *See*—  
Girard, Theodore A., and Klein. 2,899,465.  
Klein, David X. 2,874,090.  
Kraft, William M. 2,870,121.  
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Kraft, William M., and Metz. 2,915,488.  
Leach, Harry S., and Eldred. 2,868,849.  
Sisson, Edmond F., Cole, and Krumbein. 2,894,880.  
Steinhardt, David, Klein, and Barth. 2,915,560.
- Heyden, Rudi, to Bohme Fettchemie G.m.b.H. Organic complex salts of polyvalent metals and methods of producing the same. 2,885,417, 5-5-59, Cl. 260-429.7.
- Heyden, Rudi, to Bohme Fettchemie G.m.b.H. Dispersing agents and dispersions produced therewith. 2,910,441, 10-27-59, Cl. 252-312.
- Heyden, Rudi, J. Plapper, and F. Schmitt, to Bohme Fettchemie G.m.b.H. Tanning process for hides and furs. 2,890,096, 6-9-59, Cl. 8-94.24.



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- Heyden, Rudi, and J. Plapper, to Böhme Fettchemie G.m.b.H. Process for tanning skins and furs. 2,913,304, 11-17-59, Cl. 8-94.33.
- Heydenreich, Friederike. Artificial dentures. 2,876,540, 3-10-59, Cl. 32-4.
- Heydt, Gerald B.: See—  
Kegerise, Wesley R., and Heydt. 2,875,042.
- Heyer, Clyde C.: See—  
Mahon, Joseph E., Walter, and Heyer. 2,885,538.
- Heyer, Don, to International Research Corp. Door catch. 2,885,237, 5-5-59, Cl. 292-70.
- Heyer, Don. Clutch means for power feed mechanism. 2,887,903, 5-26-59, Cl. 74-625.
- Heyer, Don. Clutch controlled drive mechanism for machine tools. 2,901,916, 9-1-59, Cl. 74-422.
- Heyer, Don. Power operated feed device. 2,901,928, 9-1-59, Cl. 77-33.5.
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St. John, John H. 2,875,402.  
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- Heyer, Norbert A., to J. J. Wanner. Ore beneficiating apparatus. 2,874,837, 2-24-59, Cl. 209-12.
- Heyl & Co. Chemisch-Pharmazeutische Fabrik: See—  
Biechl, Hermann. 2,909,518.
- Heyl, Edgar G., and J. J. Hitov, to W. R. Grace & Co. Pre-formed shrinkable closures for containers. 2,885,105, 5-5-59, Cl. 215-38.
- Heyl, Russell G., Jr., to American Metal Products Co. Longitudinally adjustable seat track. 2,886,095, 5-12-59, Cl. 155-14.
- Heyl & Patterson, Inc.: See—  
Osojnak, Boris M., and Gray. 2,896,935.
- Heym, Lothar S. Constant velocity coupling. 2,867,998, 1-13-59, Cl. 64-7.
- Heyman, Albert A., to The Maryland Baking Co. Pastry cups. 2,877,117, 3-10-59, Cl. 99-89.
- Heyman, Moses D. Apparatus and method for forming a sheet of integrated mica. 2,870,819, 1-27-59, Cl. 154-2.5.
- Heymann, Hans: See—  
De Stevens, George, Heymann, and Mayer. 2,910,484.
- Heymann, Hans G., to Hein, Lehmann & Co., Akt. Methods and apparatus for crushing materials. 2,901,187, 8-25-59, Cl. 241-263.
- Heymann, Sol R. Faucet or valve. 2,913,006, 11-17-59, Cl. 137-625.31.
- Heymès, Pierre R., to ST Anonyme des Manufactures des Glaces et Produits Chimiques de ST-Gobain Chauny et Cirey. Apparatus for surfacing glass. 2,875,557, 3-3-59, Cl. 51-119.
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- Heymons, Albrecht, to Riedel-de Haen Akt. Magnesium nicotinate-magnesium dehydrocholate compositions for peripheral vascular disorders. 2,883,326, 4-21-59, Cl. 167-68.
- Heyns, Kurt F., to Corn Products Co. Preparation of a glucosamine. 2,884,411, 4-28-59, Cl. 260-211.
- Heyser, Carl W.: See—  
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- Heyser, Lewis S., and D. H. Mooney, Jr., to Westinghouse Electric Corp. Pulse doppler radar. 2,905,939, 9-22-59, Cl. 343-7.7.
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- Heywood, Donald L.: See—  
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- Heywood-Wakefield Co.: See—  
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- Hiatt, Melvin A., L. P. Bonifaci, and F. C. Reed, to Boeing Airplane Co. V-gutter thrust-reversers. 2,879,642, 3-31-59, Cl. 60-35.6.
- Hibbard, Billy B., to The Dow Chemical Co. High molecular weight vinylaromatic hydrocarbon maleic anhydride copolymers and process for their preparation. 2,872,436, 2-3-59, Cl. 260-78.
- Hibbard, Gerald O.: See—  
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- Hibben, John, Jr., and B. B. Kunkel, to Kunkel Industries, Inc. Collapsible golf bag cart. 2,914,336, 11-24-59, Cl. 280-42.
- Hibbitts, Charles H., and F. L. Kelly, to Allied Chemical Corp. Production of melamine. 2,918,467, 12-22-59, Cl. 260-249.7.
- Hibner, De Los E., Jr., and J. W. Humphrey, to Blaw-Knox Co. Soot blower. 2,883,694, 4-28-59, Cl. 15-317.
- Hibshman, Henry J.: See—  
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- Hickerson, John E.: See—  
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- Hickerson, John E., to International Business Machines Corp. Type selection mechanism. 2,905,083, 9-22-59, Cl. 101-93.
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- Hickey, John J. Games. 2,906,535, 9-29-59, Cl. 273-148.
- Hickey, John L., and W. G. Wallace, to General Motors Corp. Transmission control systems. 2,868,036, 1-13-59, Cl. 74-75.4.
- Hickey, John S., Jr., to General Electric Co. Liquid-cooled electrode. 2,888,554, 5-26-59, Cl. 313-17.
- Hickey, William W.: See—  
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- Hickley, Thomas J., C. A. Burmister, and R. R. Ross, to United States of America, Commerce. Electronic position indicator. 2,911,642, 11-3-59, Cl. 343-15.
- Hickman, Albert F.: See—  
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- Hickman, Albert F., Rubber torsion spring. 2,915,306, 12-1-59, Cl. 267-57.1.
- Hickman, Charles E., and A. L. Goldsmith. Apparatus for manufacturing tubing. 2,870,522, 1-27-59, Cl. 29-33.
- Hickman, Emmett W. Semiautomatic signal attachment for a mailbox. 2,874,896, 2-24-59, Cl. 232-35.
- Hickman, Herbert H. Auxiliary engine control device. 2,908,827, 10-13-59, Cl. 307-10.
- Hickman Industries, Inc.: See—  
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- Hickman, John P.: See—  
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- Hickman, Kenneth C. D. Multiple effect distillation. 2,894,879, 7-14-59, Cl. 202-45.
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- Hickok Electrical Instrument Co., The: See—  
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- Hickok Mfg. Co., Inc.: See—  
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Meeker, William H. 2,885,756.  
Salter, Douglas R. 2,876,980.  
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- Hickok, Robert D., Jr., to Cleveland Patents, Inc. Tube tester. 2,870,400, 1-20-59, Cl. 324-22.
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McClure, Arthur W. 2,903,830.  
Whitcomb, John O. 2,887,156.
- Hickok, Willard H., to Chemetron Corp. Electronic arc-suppressor. 2,868,941, 1-13-59, Cl. 219-10.77.
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- Hicks, Drury F., Jr. In-line coupler. 2,900,688, 8-25-59, Cl. 24-125.
- Hicks, Harold C., to G. Miller. Magazine paper roll dispensing device. 2,904,274, 9-15-59, Cl. 242-55.3.
- Hicks, Harold H., to International Steel Co. Welded type striker and draft lug with coupler height adjustment. 2,894,646, 7-14-59, Cl. 213-21.
- Hicks, J. Bryon. Device for improving the operation of internal combustion engines. 2,899,949, 8-18-59, Cl. 123-119.
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- Hicks, John W., Jr., and P. N. Smith, to Deering Milliken Research Corp. Control system and method. 2,873,636, 3-24-59, Cl. 57-38.3.
- Hicks, Melvin E. Means for conditioning and supplying air to an internal combustion engine. 2,890,029, 6-9-59, Cl. 261-18.



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- Hicks, Thomas E.: *See—*  
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- Hicks, Walter R., to Centaur Products Corp. Sound recovering attachment for motion picture cameras. 2,911,882, 11-10-59, Cl. 88-16.2.
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- Hicks, William L. Vehicle tire ballast. 2,884,039, 4-28-59, Cl. 152-330.
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- Hidalgo, Albert, Sr. Device for holding boards while being nailed. 2,877,983, 3-17-59, Cl. 254-17.
- Hidalgo, John, A. R. Williams, and I. F. Halverstadt, to Cutter Laboratories, Inc. Branched chain diammonio esters. 2,871,258, 1-27-59, Cl. 260-482.
- Hide Nijland, Hendrik A., to N.V. COQ. Gas-blast circuit breakers. 2,887,550, 5-19-59, Cl. 200-148.
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- Hidding, Walter E. Tube clamp. 2,908,476, 10-13-59, Cl. 251-8.
- Hidy, Phil H., W. F. Phillips, and R. L. Harned, to Commercial Solvents Corp. Process for recovery of antibiotic ampicillin. 2,902,480, 9-1-59, Cl. 260-211.5.
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- Hieber, Georg: *See—*  
Schenk, Karl. 2,876,099.
- Hiebert, Abraham G. Automatic cut-off stop for power saws. 2,892,474, 6-30-59, Cl. 143-168.
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- Hiering, William A., to Ortley Co., Ltd. Trolling device. 2,884,213, 4-28-59, Cl. 248-42.
- Hieronimus, John W., to The Johnson Corp. Rotary joint syphon pipe assembly. 2,911,234, 11-3-59, Cl. 285-53.
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- Hiers, Victor H., to Hamilton Mfg. Co. Cabinet door construction or the like. 2,881,482, 4-14-59, Cl. 20-16.
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- Hiesinger, Leopold, to W. C. Heraeus, G.m.b.H. Diffusion pumps. 2,894,680, 7-14-59, Cl. 230-101.
- Hiett, Louis A.: *See—*  
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- Hiett, William S. Butt hinge and tenon mortiser. 2,870,804, 1-27-59, Cl. 144-27.
- Higbee, Wilmer L.: *See—*  
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- Higberg, Arthur L., to Yawman and Erbe Mfg. Co., Inc. Latch and lock mechanism for rocker type file cabinet. 2,875,011, 2-24-59, Cl. 312-218.
- Higberg, Arthur L., to Yawman and Erbe Mfg. Co., Inc. Rocking compartment file cabinet. 2,875,015, 2-24-59, Cl. 312-325.
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- Higer, Harry. Loading platform for garbage disposal machine. 2,869,795, 1-20-59, Cl. 241-301.
- Higer, Harry. Machine for cutting or disintegrating matter. 2,902,227, 9-1-59, Cl. 241-257.
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- Higgins, Edward F. End fittings for sucker rods having a flowable binder. 2,874,938, 2-24-59, Cl. 255-28.
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- Higgins, Henry G. Band clamp. 2,917,621, 12-15-59, Cl. 24-280.
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- Higgins, Jerree A. Anchor and skin protector for ileostomy bags. 2,877,768, 3-17-59, Cl. 128-283.
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- Higgins, Lyman F. Animated toy. 2,918,752, 12-29-59, Cl. 46-131.
- Higgins, Mark A.: *See—*  
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- Higgins, Raymond: *See—*  
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- Higgins, Thomas P.: *See—*  
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- Higgins, Walter A., and H. C. Lott. Warehouse pallets. 2,870,980, 1-27-59, Cl. 248-120.
- Higgs, Harold P., to General Instrument Corp. Transformer construction. 2,918,640, 12-22-59, Cl. 336-192.
- Higgs, Richard F., and C. J. Owen, to United States Steel Corp. Electrodeposition of tin and electrolyte therefor. 2,870,070, 1-20-59, Cl. 204-54.
- High, Carl F., to Borg-Warner Corp. Fuel injection system. 2,888,002, 5-26-59, Cl. 123-140.
- High, Le Roy B., to The Udyllite Research Corp. Lime buffing compositions and method for reducing slaking thereof. 2,899,289, 8-11-59, Cl. 51-304.
- High, Robert L.: *See—*  
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- High Vacuum Equipment Corp.: *See—*  
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- Highland Container Co., Inc.: *See—*  
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- Highland, Olaf, and L. A. Chelmo. Fluid pressure line locking mechanism. 2,886,060, 5-12-59, Cl. 137-512.1.
- Highley, Wenford E.: *See—*  
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- High Standard Mfg. Corp., The: *See—*  
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- Sefried, Harry H., II, and Gunnesson. 2,869,268.
- Hight, Henry A., Jr.: *See—*  
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- Hightower, Thomas H. Holder for hair trimming blade. 2,869,229, 1-20-59, Cl. 30-30.
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- Emanuelson, Roy M. 2,887,583.
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- Gale, Alfred J. 2,907,884.
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- Hahn, Frederick S. 2,887,294.
- Hand, Eugene E. 2,885,599.
- Nygard, John C. 2,887,584.
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- Van de Graaff, Robert J. 2,885,584.
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- Highway Trailer Co.: *See—*  
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- Hildebrandt, Gustav. 2,915,553.
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- Hildmann, William B., to Brock & Rankin, Inc. Continuous-flow rounding, jointing, and casing-in machinery. 2,895,148, 7-21-59, Cl. 11-1.
- Hildreth, Myrna D.: See—
- Hildreth, Wilmarth A. 2,870,855.
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- Earl, Howard E., and Hilgers. 2,918,761.
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- Hilgert, Adolph J., to Baso Inc. Control apparatus. 2,876,786, 3-10-59, Cl. 137-66.
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- Hill, Albert H. Metal awning. 2,883,719, 4-28-59, Cl. 20-57.5.
- Hill, Alfred B., to The American Oil Co. Corrosion inhibition in condensing exchangers. 2,911,351, 11-3-59, Cl. 208-47.
- Hill, Archie S., to The Western Union Telegraph Co. Facsimile phasing and repeating system. 2,914,607, 11-24-59, Cl. 178-6.6.
- Hill, Arlie D. Single pedal throttle and brake control for vehicles. 2,869,696, 1-20-59, Cl. 192-3.
- Hill, Arthur M., to Service Pipe Line Co. Scraper trap closure. 2,870,934, 1-27-59, Cl. 220-33.
- Hill, Charles H. Power driven work-engaging attachment for turret lathes. 2,892,386, 6-30-59, Cl. 90-11.
- Hill, Clarence W., and D. B. Hopkinson, to Saco-Lowell Shops. Roving frame builder mechanism. 2,870,597, 1-27-59, Cl. 57-96.
- Hill, Claude, to Harry Ferguson Research Ltd. Internal combustion engine. 2,914,045, 11-24-59, Cl. 123-41.72.
- Hill, Clifford W., and J. S. Kane, to Union Carbide Corp. Gas-shielded arc torches. 2,906,854, 9-29-59, Cl. 219-75.
- Hill Cross Co., Inc.: See—
- Wood, Donald. 2,869,693.
- Hill, Cyril T., to Texas Gulf Sulphur Co. Production of iron chloride and sulfur. 2,895,796, 7-21-59, Cl. 23-87.
- Hill, Cyril T., to Texas Gulf Sulphur Co. Recovery of germanium tetrachloride. 2,895,797, 7-21-59, Cl. 23-87.
- Hill, David C., to Haskel Engineering Associates. Packing gland for a movable piston. 2,903,310, 9-8-59, Cl. 309-23.
- Hill, Dennis W., to Hivac Ltd. Cold-cathode gas-discharge tubes. 2,883,584, 4-21-59, Cl. 315-335.
- Hill, Donald F.: See—
- Halik, Raymond R., and Hill. 2,898,292.
- Hill, Donald F., to Socony Mobil Oil Co., Inc. Method for increasing catalyst on-stream time in a hydrogenation process. 2,899,383, 8-11-59, Cl. 208-143.
- Hill, Edward G.: See—
- Ayers, David T., Jr., and Hill. 2,896,584.
- Hill, Edward G., to Kelsey-Hayes Co. Booster brake mechanism. 2,875,582, 3-3-59, Cl. 60-54.6.
- Hill, Edward G., to Kelsey-Hayes Co. Deceleration responsive controlled booster brake mechanism. 2,876,044, 3-3-59, Cl. 303-24.
- Hill, Edward G., to Kelsey-Hayes Co. Booster brake mechanism. 2,911,263, 11-3-59, Cl. 303-6.
- Hill, Edward H.: See—
- Caldwell, John R., and Hill. 2,899,412.
- Hill, Edward J. Pediatric urine collectors. 2,877,769, 3-17-59, Cl. 128-295.
- Hill, Erwin F.: See—
- Watts, John D., Lefevre, and Hill. 2,867,453.
- Hill, F. H., Co., Inc.: See—
- Overland, John S., Hill, and Seger. 2,869,216.
- Hill, Francis A., 2nd. Sliding bulkhead transmission. 2,909,033, 10-20-59, Cl. 60-53.
- Hill, Frank A., to Librascope, Inc. Apparatus for sensing radioactivity. 2,871,366, 1-27-59, Cl. 252-83.6.
- Hill, Frank A., and A. J. Pankratz, to Librascope, Inc. General purpose connector card. 2,914,706, 11-24-59, Cl. 317-101.
- Hill, Frank R. Individual condiment containers. 2,893,618, 7-7-59, Cl. 229-17.
- Hill, Fred N., to Union Carbide Corp. Stabilized poly(ethylene oxide). 2,897,178, 7-28-59, Cl. 260-45.9.
- Hill, Frederick J., to International Minerals & Chemical Corp. Heating apparatus employing submerged secondary combustion chamber. 2,902,029, 9-1-59, Cl. 126-360.
- Hill, Frederick T.: See—
- Cardell, James, and Hill. 2,916,652.
- Hill, George L. Fuse cutout. 2,877,320, 3-10-59, Cl. 200-114.
- Hill, George W., to Electric Steel Foundry Co. Tooth structure for trenchers and the like. 2,885,801, 5-12-59, Cl. 37-142.
- Hill, Gerald L. Traction device for vehicles. 2,912,035, 11-10-59, Cl. 152-216.
- Hill, Gideon D., S. S. Sharp, and D. E. Wolf, to E. I. du Pont de Nemours and Co. Process for controlling vegetation. 2,876,088, 3-3-59, Cl. 71-2.6.
- Hill, Gilman A., to Petroleum Research Corp. Oil recovery process. 2,896,719, 7-28-59, Cl. 166-42.
- Hill, H. H.: See—
- Weathersby, Fred E. 2,875,546.
- Hill, Harold, and A. J. Rudge, to Imperial Chemical Industries Ltd. Electrolytic fluorine manufacture. 2,879,212, 3-24-59, Cl. 204-60.
- Hill, Harvey J., to Roberts Mfg. Co. Carpet stretcher. 2,882,642, 4-21-59, Cl. 45-89.
- Hill, Henry C., to Boeing Airplane Co. Clutch-brake synchronizer mechanism for reversing gear. 2,883,021, 4-21-59, Cl. 192-18.



- Hill, Henry E., to Bell Telephone Laboratories, Inc. Call transmitter. 2,873,317, 2-10-59, Cl. 179-90.
- Hill, Henry H. Washing and sterilizing means for milking line valves. 2,888,028, 5-26-59, Cl. 137-240.
- Hill, Howard: *See*—  
Bennett, Herbert L., and Hill. 2,910,219.
- Hill, J. E.: *See*—  
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- Hill, James E.: *See*—  
Karsten, Fred H., and Hill. 2,883,863.
- Hill, James H., and W. C. Moser, to E. I. du Pont de Nemours & Co. Separation process using fly ash. 2,887,451, 5-19-59, Cl. 210-40.
- Hill, James M. Mobile curvable conveyors. 2,890,788, 6-16-59, Cl. 198-89.
- Hill, James S.: *See*—  
Green, Robert B., and Hill. 2,911,057.
- Hill, James T.: *See*—  
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- Hill, John A., to Olin Mathieson Chemical Corp. Pharmaceutical preparations. 2,918,411, 12-22-59, Cl. 167-82.
- Hill, John E.: *See*—  
Anderson, Clifford E. 2,908,883.
- Hill, John L. Tubular combined cartridge container and magazine unit. 2,882,635, 4-21-59, Cl. 42-17.
- Hill, John W., to The Globe Co. Filling machine horn. 2,871,508, 2-3-59, Cl. 17-41.
- Hill, John W., to The Globe Co. Apparatus for sealing containers. 2,886,816, 5-19-59, Cl. 1-177.
- Hill, John W., to The Globe Co. Grating material. 2,895,573, 7-21-59, Cl. 189-82.
- Hill, John W., to The Globe Co. Cable tray. 2,917,259, 12-15-59, Cl. 248-68.
- Hill, Joseph F., W. C. Whitcomb, and D. J. Van Horn, to Surface Combustion Corp. Take-up and latching device. 2,893,097, 7-7-59, Cl. 24-279.
- Hill, Joseph H. Fire escape device. 2,873,055, 2-10-59, Cl. 227-30.
- Hill, Kenneth M., and P. J. Lynskey, to Peter Spence & Sons Ltd. Continuous process for the manufacture of titanium metal. 2,890,953, 6-16-59, Cl. 75-84.5.
- Hill, Lester E., to Aladdin Industries, Inc. Magnetically enclosed coil. 2,867,894, 1-13-59, Cl. 29-155.56.
- Hill, Ludwig: *See*—  
Osswald, Philipp, Friedel, Arimont, and Hill. 2,919,184.
- Hill, Mark L., Jr.: *See*—  
Gottshall, Ralph I., and Hill. 2,905,541.  
Gottshall, Ralph I., and Hill. 2,905,542.
- Hill, Morton: *See*—  
Green, Martin, and Hill. 2,885,124.
- Hill, Oiva E., to Norton Co. Grinding machine. 2,895,265, 7-21-59, Cl. 51-165.
- Hill, Oiva E., to Norton Co. Grinding machine. 2,897,639, 8-4-59, Cl. 51-165.
- Hill, Oiva E., to Norton Co. Grinding machine-truing apparatus. 2,900,974, 8-25-59, Cl. 125-11.
- Hill, Oiva E., to Norton Co. Truing apparatus. 2,907,315, 10-6-59, Cl. 125-11.
- Hill, Philip: *See*—  
Fotis, Peter, Jr., Esmay, and Hill. 2,919,268.  
Wolff, William F., and Hill. 2,877,176.
- Hill, Ralph M., Jr.: *See*—  
Corbitt, Howard E., Hill, and Bozarth. 2,870,287.
- Hill, Richard F. H., to Williams & Hill Ltd. Film recorder. 2,877,684, 3-17-59, Cl. 88-16.2.
- Hill, Robert A.: *See*—  
Thomas, David F., and Hill. 2,894,531.  
Thomas, David F., and Hill. 2,900,918.  
Thomas, David F., and Hill. 2,905,096.
- Hill, Robert H., to Perfect Circle Corp. Brake means. 2,881,866, 4-14-59, Cl. 188-69.
- Hill, Robert L., to Morgan Packing Co., Inc. Machine for loading containers in a carton. 2,879,638, 3-31-59, Cl. 53-166.
- Hill, Robert W.: *See*—  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,399.  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,400.  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,401.
- Hill, Roy. Traller connections for vehicles. 2,888,275, 5-26-59, Cl. 280-420.
- Hill, Roy O., Jr.: *See*—  
Rouse, Benjamin P., Jr., and Hill. 2,899,316.
- Hill, Roy R., to Orendorff Mfg. Co. Two piece agricultural sweep. 8,882,983, 4-21-59, Cl. 172-730.
- Hill, Rutherford B., and D. B. Merrifield, to Monsanto Chemical Co. Butyl rubber and phosphorothioates. 2,906,731, 9-29-59, Cl. 260-45.75.
- Hill, Thomas J.: *See*—  
McBrayer, Manuel L., and Hill. 2,901,784.
- Hill, Walter P., to Aeroquip Corp. Tube bending machine having pressure and back up rams. 2,887,144, 5-19-59, Cl. 153-48.
- Hill, Wilbur G., General Aniline & Film Corp. Film tension control device. 2,886,257, 5-12-59, Cl. 242-75.5.
- Hill, William: *See*—  
Keyes, Clifford B., and Hill. 2,878,923.
- Hilliard, George O., Jr.: *See*—  
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- Hilliard, George O., Jr., and L. C. Kenyon, Jr., to Esso Research and Engineering Co. Vapor phase cracking of cyclopentadiene dimer. 2,913,504, 11-17-59, Cl. 260-666.
- Hillberg, Bror, to Superior Concrete Accessories, Inc. Concrete wall form. 2,904,870, 9-22-59, Cl. 25-131.
- Hillberg, Robert L.,  $\frac{1}{2}$  to The High Standard Mfg. Corp., and  $\frac{1}{2}$  to Sears, Roebuck and Co. Gas operated firearm with gas piston surrounding a tubular magazine. 2,909,101, 10-20-59, Cl. 89-191.
- Hillegass, Kenneth P., to The Goodyear Tire & Rubber Co. Cam roller self-energizing disc brake. 2,900,051, 8-18-59, Cl. 188-72.
- Hilleman, Maurice R., and R. O. Taylor, to United States of America, Army. Mechanical tissue culture washer. 2,884,936, 5-5-59, Cl. 134-148.
- Hillenbrand, George C., to The Batesville Casket Co., Inc. Burial casket body construction. 2,867,029, 1-6-59, Cl. 27-6.
- Hillenbrand, George C., to The Batesville Casket Co., Inc. Burial casket construction. 2,867,030, 1-6-59, Cl. 27-14.
- Hiller, Stanley, to Stanley Products Co. Method of dehydrating fish. 2,877,122, 3-10-59, Cl. 99-209.
- Hiller, Stanley. Apparatus for slicing solid materials. 2,909,201, 10-20-59, Cl. 146-108.
- Hiller, Stanley, and Q. R. Stauffer; said Stauffer assor. to said Hiller. Apparatus for contacting solids with gases. 2,880,524, 4-7-59, Cl. 34-102.
- Hilliard, Alfred, to Societe Le Carbone-Lorraine. Heat exchangers. 2,887,304, 5-19-59, Cl. 257-241.
- Hilliard, Perley A. Machine for coating candy centers. 2,868,158, 1-13-59, Cl. 118-24.
- Hilliard, William A.: *See*—  
Lucian, Arsene N., and Hilliard. 2,909,892.
- Hillier, Stanley K., to W. F. Hall Printing Co. Method of preregistering printing plates in multicolor printing. 2,894,454, 7-14-59, Cl. 101-211.
- Hillig, John E., to Reading Co. Remote stop-start system for diesel engine. 2,915,644, 12-1-59, Cl. 290-2.
- Hilligoss, Alfred A. Portable car port. 2,896,651, 7-28-59, Cl. 135-7.1.
- Hilliker, Frank T., to The Brunswick-Balke-Collender Co. Food service carts. 2,919,339, 12-29-59, Cl. 219-35.
- Hillis, Clinton D.: *See*—  
Blazek, William J., and Hillis. 2,875,005.
- Hillis, John H.: *See*—  
Stephenson, John O., and Hillis. 2,908,472.
- Hillix, Foster F.: *See*—  
Lowe, Donald J., and Hillix. 2,883,037.
- Hillix, Foster F., and S. L. Phillips, to Wedge Protectors, Inc. Method for producing composite cup-shaped articles. 2,876,724, 3-10-59, Cl. 113-116.
- Hillman, Conway D.: *See*—  
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- Hillman, Erwin: *See*—  
Rusch, Kenneth A., and Hillman. 2,897,875.
- Hillman, John, to Ingersoll-Rand Co. Air operated water valve for rock drills. 2,882,861, 4-21-59, Cl. 121-10.
- Hillman, Malcolm E.,  $\frac{1}{2}$  to A. G. Montgomery and  $\frac{1}{2}$  to H. E. Lloyd. Constant tension system. 2,889,502, 6-2-59, Cl. 318-6.
- Hillman, Murray J.: *See*—  
Hegarty, James M., and Hillman. 2,894,176.
- Hillman, Murray J., to Hycon Mfg. Co. On-and-off velocity servosystem. 2,905,876, 9-22-59, Cl. 318-327.
- Hillman, Murray J., and J. M. Hegarty, to Hoffman Electronics Corp. Pulse pair encoder circuits or the like. 2,890,025, 6-9-59, Cl. 250-27.
- Hillmann, Edmund J. Prefabricated miterless corner moulding. 2,915,794, 12-8-59, Cl. 20-74.
- Hillmann, Gunther. Process for making iodo derivatives of thyronine. 2,886,592, 5-12-59, Cl. 260-519.
- Hillmann, Paul, to VEB Zeiss Ikon Dresden. Shutter blade for photographic apparatus. 2,882,808, 4-21-59, Cl. 95-63.
- Hill-Rom Co., Inc.: *See*—  
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Darnell, Victor L., and Burst. 2,913,300.
- Hills, Bertha H. Writing paper support. 2,887,790, 5-26-59, Cl. 35-38.
- Hills Bros. Coffee, Inc.: *See*—  
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- Hills, Donald W., and O. K. Grimm, to Hipp Welding Works. Attachment for scraper. 2,897,615, 8-4-59, Cl. 37-145.
- Hills, Elmer G.,  $\frac{1}{2}$  to Radion Corp. Double conversion multi-band tuning unit. 2,902,598, 9-1-59, Cl. 250-20.
- Hills, Fielding B., to Radio Corp. of America. Control means. 2,917,944, 12-22-59, Cl. 74-526.
- Hills, Joseph A. Perimeter measuring device. 2,888,750, 6-2-59, Cl. 33-141.
- Hills McCanna Co.: *See*—  
Benurline, Clyde F. 2,913,234.  
McFarland, Rolland, Jr. 2,918,089.  
Sandenburgh, George R. 2,895,191.
- Hills (West Bromwich) Ltd.: *See*—  
Hinchliffe, Ernest D., and Woolley. 2,901,785.
- Hillside Laboratory: *See*—  
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- Hillson, Frank. Inside corner insert for steel moulding. 2,884,669, 5-5-59, Cl. 20-74.
- Hillwick, Stanley L., and W. M. Cooper, to Economy Pest Control. Airborne seeder. 2,898,008, 8-4-59, Cl. 222-303.



- Hillyer, Curtis, to Stromberg Time Corp. Automatic information transmission. 2,918,654, 12-22-59, Cl. 340-150.
- Hillyer, John C., and L. O. Edmonds, to Phillips Petroleum Co. Process of hydroxylating 2,3,4,5-bis( $\Delta^2$ -butenylene) tetrahydrofurfural compounds, resulting product, and a resin formed therefrom. 2,886,556, 5-12-59, Cl. 260-67.
- Hillyer, John C., and J. T. Edmonds, Jr., to Phillips Petroleum Co. Process for reacting a diolefin and a furfural. 2,898,347, 8-4-59, Cl. 260-346.2.
- Hillyer, John C., and J. F. Wilson, to Phillips Petroleum Co. Removal of fluorides from industrial waste waters. 2,914,474, 11-24-59, Cl. 210-53.
- Hi-Lo TV Antenna Corp.: See—
- Klancnik, Frank J., Jr. 2,885,674.
- Klancnik, Frank J., Jr. 2,895,130.
- Klancnik, Frank J., Jr. 2,903,694.
- Hilpert, Conrad R., to Twin Disc Clutch Co. Speed ratio governor. 2,913,931, 11-24-59, Cl. 74-731.
- Hilpman, Paul, to Mergenthaler Linotype Co. Matrix and assembling method for typographical composing machines. 2,917,159, 12-15-59, Cl. 199-32.
- Hilpman, Paul, and W. A. Milanese, Jr., to Mergenthaler Linotype Co. Teletypesetter controlled mixer for typographical machine. 2,908,380, 10-13-59, Cl. 199-21.
- Hils, Karl, and H. J. Schwerdhofer, to The Firma Fichtel & Sachs A.G. Bicycle hub dynamo. 2,882,427, 4-14-59, Cl. 310-67.
- Hilt, Martin, to Anstalt fur Montage-Technik. Setting devices for use in the driving of nails or other pins. 2,895,135, 7-21-59, Cl. 1-47.
- Hilt, Martin. Stud driving device. 2,896,209, 7-28-59, Cl. 1-47.
- Hiltmann, Rudolf, F. Mietzsch, and K. Kaemmerer, to Schenley Industries, Inc. 2-diloweralkylamino-alkoxy-3-methyl-benzoic acid esters. 2,914,552, 11-24-59, Cl. 260-471.
- Hilton, George H.: See—
- Cameron, Fred M., Jr., and Hilton. 2,907,921.
- Hilton, Harry H., and A. F. Torrisi, to General Electric Co. Electrolytic capacitors with increased available capacitance. 2,871,426, 1-27-59, Cl. 317-230.
- Hilton, Laurence L.: See—
- Biedeback, William F., Jr., and Hilton. 2,915,425.
- Hilton, John L., to The Plessey Co. Ltd. Hydraulic flow control valve devices. 2,911,007, 11-3-59, Cl. 137-622.5.
- Hilton, Ralph. Paint brush. 2,912,711, 11-17-59, Cl. 15-244.
- Hilty, Donald C., to Union Carbide Corp. Refining molten pig iron. 2,915,380, 12-1-59, Cl. 75-52.
- Hiltz, Arnold A., and E. G. Lendrat, to American Viscose Corp. Photopolymerization process. 2,880,152, 3-31-59, Cl. 204-158.
- Hiltz, Arnold A., and E. G. Lendrat, to American Viscose Corp. Photopolymerization process. 2,880,153, 3-31-59, Cl. 204-158.
- Hiltz, John P., Jr.: See—
- Geier, Bernard, and Hiltz. 2,887,296.
- Hilzinger, Paul, III. Surgical control device for controlling operating means inserted into a body cavity. 2,905,178, 9-22-59, Cl. 128-303.
- Himel, Chester M.: See—
- Nutting, Lee, Silverstein, and Himel. 2,905,701.
- Himel, Edmond E., Jr. Releasing grip trip. 2,903,292, 9-8-59, Cl. 294-75.
- Himelick, Robert E.: See—
- Pleyte, Jerry, Himelick, and Dale. 2,888,382.
- Himka, John, and F. C. Walther, to General Motors Corp. Vehicle folding top. 2,895,764, 7-21-59, Cl. 296-117.
- Himmel, Leon: See—
- Fischer, Laurin G., Himmel, and Whittle. 2,903,680.
- Himmel, Leon, and H. F. Kuras, to International Telephone and Telegraph Corp. Broad band omni-polarized multiple antenna system with each antenna having individual detector and low frequency coupling network. 2,894,124, 7-7-59, Cl. 250-20.
- Himmelstein, Paul: See—
- Boettcher, Alfred, and Himmelstein. 2,870,007.
- Himmelweit, Freddy: See—
- Everett, Samuel J., and Himmelweit. 2,915,064.
- Himmeler, Wesley. Refrigerator safety device. 2,892,425, 6-30-59, Cl. 109-63.5.
- Hinchliffe, Theodore H. Conveyor belt cleats. 2,875,887, 3-3-59, Cl. 198-199.
- Hinchliffe, Ernest D., and A. B. Woolley, to Hills (West Bromwich) Ltd. Glazed structures and glazing bars for use in such structures. 2,901,785, 9-1-59, Cl. 20-56.
- Hinchliffe, Winfred D. Supports. 2,917,257, 12-15-59, Cl. 248-40.
- Hinckley, Alfred A., and F. P. Del Guidice, to Metal Hydrides Inc. Method for preparing sodium aluminum hydride. 2,900,224, 8-18-59, Cl. 23-14.
- Hinckley, John N. Pumps having rotors and swinging arms. 2,882,828, 4-21-59, Cl. 103-42.
- Hindenburt, Eugene D., to Ideal Industries, Inc. Wire stripper. 2,889,728, 6-9-59, Cl. 81-9.5.
- Hindermann, Peter, H. P. Kölliker, and P. Trautzi, to J. R. Geigy, A.-G. Anthraquinone dyestuffs. 2,870,173, 1-20-59, Cl. 260-373.
- Hinders, Henry R., and W. C. and E. J. Byers. Tractor operated rock remover. 2,908,409, 10-13-59, Cl. 214-147.
- Hindes, Lawrence W., H. S. Curtis, and J. R. Siemoneit, to Diamond Alkali Co. Preparation of easily friable crystalline substances by a melt casting process. 2,902,719, 9-8-59, Cl. 18-47.5.
- Hindin, Saul G., and H. Shalit, to Houdry Process Corp. Pretreatment of noble metal catalysts. 2,908,656, 10-13-59, Cl. 252-466.
- Hindle, Thomas. Flexible hinges. 2,879,580, 3-31-59, Cl. 28-78.
- Hindle, Thomas, and E. H. Hall. Long wearing papermakers' dryer-felt. 2,882,933, 4-21-59, Cl. 139-426.
- Hindle, Walter H., to The Chemstrand Corp. Process of bleaching polyacrylonitrile textiles with strong mineral acid pretreatment and then acidified sodium chlorite. 2,873,164, 2-10-59, Cl. 8-108.
- Hindley, Oswald: See—
- Fletcher, Frederick L., Hindley, and Nichols. 2,890,840.
- Hindmarch, Thomas. Torsionally resilient mounting. 2,868,037, 1-13-59, Cl. 74-785.
- Hindmarch, Thomas. Fluid pressure operated friction clutch. 2,869,702, 1-20-59, Cl. 192-85.
- Hindmarch, Thomas. Fluid pressure operated brake structure. 2,885,031, 5-5-59, Cl. 188-72.
- Hindmarch, Thomas. Safety coupling for power transmission mechanisms. 2,891,645, 6-23-59, Cl. 192-87.
- Hindmarch, Thomas. Fluid pressure operated friction clutches. 2,916,122, 12-8-59, Cl. 192-85.
- Hinds, George E.: See—
- Eaton, John L., and Hinds. 2,872,304.
- Hine, Edwin W., II: See—
- Powischill, John W., Hine, and Howard. 2,868,400.
- Hiner, Henry E. Speed governor. 2,870,892, 1-27-59, Cl. 192-90.
- Hines, Claude M., to Westinghouse Air Brake Co. Air supply arrangement for air spring suspension system of railway cars. 2,918,332, 12-22-59, Cl. 303-22.
- Hines Flask Co.: See—
- Hines, Russell J. 2,867,870.
- Hines, Russell J. 2,870,500.
- Hines, Russell J. 2,874,425.
- Hines, Russell J. 2,900,686.
- Hines, Russell J. 2,915,796.
- Hines, Frank F., to Baldwin-Lima-Hamilton Corp. Temperature compensated gage. 2,913,691, 11-17-59, Cl. 338-3.
- Hines, Frank F., and J. F. McGrath, Jr., to Baldwin-Lima-Hamilton Corp. Low-friction load-transmitting flexible joint. 2,868,570, 1-13-59, Cl. 287-85.
- Hines, John E., Jr.: See—
- Berg, Clyde H. O., Clark, Hines, and Switzer. 2,907,342.
- Berg, Clyde H. O., Hines, Hunt, Reeg, and Ballard. 2,881,117.
- Hines, John K., and J. E., Jr. 2,897,602.
- Hines, John K., and J. E., Jr. Portable grain dryer. 2,897,602, 8-4-59, Cl. 34-63.
- Hines, Marion E.: See—
- Cooper, Howard G., Jr., and Hines. 2,884,559.
- Hines, Paul, to Raytheon Mfg. Co. Microwave antennas. 2,870,441, 1-20-59, Cl. 343-781.
- Hines, Robert S. Fishing sinker. 2,917,861, 12-22-59, Cl. 43-44.96.
- Hines, Russell J., to The Hines Flask Co. Method and apparatus for making sand molds for castings. 2,867,870, 1-13-59, Cl. 22-129.
- Hines, Russell J., to The Hines Flask Co. Molding apparatus. 2,870,500, 1-27-59, Cl. 22-110.
- Hines, Russell J., to The Hines Flask Co. Foundry flask with resilient for retaining band member. 2,874,425, 2-24-59, Cl. 22-106.
- Hines, Russell J., to The Hines Flask Co. Method for making sand molds for castings. 2,900,686, 8-25-59, Cl. 22-197.
- Hines, Russell J., to The Hines Flask Co. Foundry flask. 2,915,796, 12-8-59, Cl. 22-107.
- Hines, William D. Suckling and farrowing crate. 2,881,734, 4-14-59, Cl. 119-20.
- Hines, William R. Wheel traction device. 2,886,091, 5-12-59, Cl. 152-228.
- Hings, Donald L. Directional antenna array. 2,875,438, 2-24-59, Cl. 343-733.
- Hings, Donald L. Directional antenna. 2,886,813, 5-12-59, Cl. 343-819.
- Hinkamp, James B., and H. R. Dittmar, to Ethyl Corp. Diesel fuel. 2,912,313, 11-10-59, Cl. 44-57.
- Hinkel, Artur: See—
- Kocks, Friedrich, and Hinkel. 2,873,344.
- Hinkle, Barton L.: See—
- Orr, Clyde, Jr., and Hinkle. 2,909,960.
- Hinkley, David F., 1/2 to M. Solotorovskiy. Self-dissolving instant coffee tablets. 2,889,226, 6-2-59, Cl. 99-66.
- Hinks, William L. Static load bearings. 2,900,182, 8-18-59, Cl. 267-57.1.
- Hinlicky, John A.: See—
- Kirshenbaum, Isidor, and Hinlicky. 2,903,418.
- Hinman, Jack W.: See—
- De Boer, Clarence, and Hinman. 2,909,463.
- De Boer, Clarence, and Hinman. 2,909,464.
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- Hinman, Wilbur S., Jr., to United States of America, Army. Sequential filled reserve battery. 2,886,621, 5-12-59, Cl. 136-90.



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- Hinsdale, Edwin M., Jr., to Radio Corp. of America. Color television. 2,877,294, 3-10-59, Cl. 178-5.4.
- Hinsdale, Edwin M., Jr., and F. B. Smith, Jr., to Radio Corp. of America. Color television receivers. 2,898,399, 8-4-59, Cl. 178-5.4.
- Hinsdale, James G., to Lear, Inc. Transistor phase discriminator. 2,897,379, 7-28-59, Cl. 307-88.5.
- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 2,872,830, 2-10-59, Cl. 74-540.
- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 2,881,637, 4-14-59, Cl. 74-531.
- Hinsey, Robert S., to The Bingham-Herbrand Corp. Mechanism control. 2,897,686, 8-4-59, Cl. 74-540.
- Hinsey, Robert S., and N. B. Dzula, to The Bingham-Herbrand Corp. Foot actuated mechanism control. 2,915,916, 12-8-59, Cl. 74-531.
- Hinson, Jay B. Cigarette extinguisher and ash receptacle unit. 2,868,213, 1-13-59, Cl. 131-237.
- Hinton, Alan V. Bird cage. 2,914,022, 11-24-59, Cl. 119-17.
- Hinton, Maitland J. G., to Nagard Ltd. Astable multivibrators. 2,904,756, 9-15-59, Cl. 331-144.
- Hinton, Raymond C. P., and F. W. Warden, to International Standard Electric Corp. Party line electrical communication systems. 2,868,869, 1-13-59, Cl. 178-2.
- Hinton, Raymond C. P., and B. Dzula, to International Telephone and Telegraph Corp. Calling station identification. 2,894,069, 7-7-59, Cl. 179-8.5.
- Hinton, Robert H.: See—  
Ogles, Ethridge F. and J. C. 2,896,544.
- Hinton, W. H.: See—  
Ogles, Ethridge F. and J. C. 2,896,544.
- Hintze, Alma J., and M. C. Klaus, to Philipps Petroleum Co. Shot hole protective device. 2,871,785, 2-3-59, Cl. 102-22.
- Hintze, Rudolf, to Stempel-Hermetik G.m.b.H. Motor-compressor. 2,883,099, 4-21-59, Cl. 230-58.
- Hintze, Rudolf, to Stempel-Hermetik G.m.b.H. Vibration reducing supporting arrangement. 2,894,678, 7-14-59, Cl. 230-38.
- Hintzman, John L., J. C. Hoagland, and E. Prono, to North American Aviation, Inc. Butterfly valve and seal. 2,893,682, 7-7-59, Cl. 251-173.
- Hintzmann, Karl: See—  
Schnell, Hermann, Nentwig, Hintzmann, Raichle, and Biedermann. 2,917,468.
- Hintzmann, Karl, and M. Kramer, to Farbenfabriken Bayer Akt. Water-soluble organic copper compounds. 2,886,580, 5-12-59, Cl. 260-438.
- Hinz, Ronald W.: See—  
Young, George A., Jr., Underdahl, Hinz, and Silbernick. 2,881,733.
- Hinz, Otto C. Improved industrial woven wire belts. 2,908,065, 10-13-59, Cl. 28-78.
- Hinze, Otto. Upper chord locking device for falsework carriers. 2,905,284, 9-22-59, Cl. 189-37.
- Hinze, Otto. Adjustable girder. 2,909,253, 10-20-59, Cl. 189-37.
- Hipp, Augusta F. Clothes supporting attachment for ironing boards. 2,869,259, 1-20-59, Cl. 38-106.
- Hipp Welding Works: See—  
Hills, Donald W., and Grimm. 2,897,615.
- Hipple, George M., to American Brake Shoe Co. Control valve having constant volume output features. 2,888,943, 6-2-59, Cl. 137-106.
- Hirak, Joseph J. Floor washing machines. 2,874,397, 2-24-59, Cl. 15-51.
- Hirakawa, Yotaro: See—  
Terayama, Denzaburo, Matsubara, Hayashi, and Hirakawa. 2,874,665.
- Hirata, Yasuhiro. Bronchus seaming instrument. 2,891,250, 6-23-59, Cl. 1-50.
- Hiratsuka, Kizo, E. Yonemitsu, T. Itabashi, K. Ishikawa, S. Date, and K. Kelmatsu. Process for the acid decomposition of organic hydroperoxides. 2,889,368, 6-2-59, Cl. 260-593.
- Hirdler, Fairbanks C., Jr., to Turco Products, Inc. Method for removing metal from the surface of a metal object. 2,869,266, 1-20-59, Cl. 41-42.
- Hirdler, Fairbanks C., Jr., to Turco Products, Inc. Process of removing material from a work piece. 2,883,275, 4-21-59, Cl. 41-43.
- Hirose, Katsusaburo. Process for debittering soybeans. 2,901,353, 8-25-59, Cl. 99-98.
- Hirs, Gene. Filter apparatus. 2,867,324, 1-6-59, Cl. 210-97.
- Hirs, Gene. Filter apparatus. 2,867,325, 1-6-59, Cl. 210-97.
- Hirs, Gene. Filter apparatus. 2,867,326, 1-6-59, Cl. 210-104.
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- Hirsbrunner, Hans-Rudolf, to J. R. Geigy, A.G. Process for the dyeing of wool. 2,903,324, 9-8-59, Cl. 8-43.
- Hirsch, Andre, B. M. Gibbs, and B. D. Hemmings, to Lever Brothers Co. Protein food products and their preparation. 2,919,192, 12-29-59, Cl. 99-14.
- Hirsch, George, to Brevet Products Corp. Spit drive units. 2,908,831, 10-13-59, Cl. 310-68.
- Hirsch, George B. Vehicle curb parking device. 2,906,355, 9-29-59, Cl. 180-1.
- Hirsch, Homer C. Rigidized electrolytically formed metal sheets. 2,878,553, 3-24-59, Cl. 29-130.
- Hirsch, James C., and K. B. Block, to Klauber Games, Inc. Ping-pong table assembly. 2,911,217, 11-3-59, Cl. 273-30.
- Hirsch, Joel H., and J. McAfee, to Gulf Research & Development Co. Fluidized process and apparatus for the transfer of solids in a fluidized system. 2,892,773, 6-30-59, Cl. 208-213.
- Hirsch, Joseph, to Aerophysics Development Corp. Launching control device. 2,867,153, 1-6-59, Cl. 87-1.7.
- Hirsch, Joseph. Stiffener and stabilizer for supersonic vehicles. 2,899,899, 8-18-59, Cl. 102-49.
- Hirsch, Leopold. Disengaging device for glass-holding strips. 2,895,216, 7-21-59, Cl. 29-256.
- Hirsch, Marvin E.: See—  
Ollig, John L., Hirsch, Miller, and Westerholm. 2,909,781.
- Hirsch, Richard A.: See—  
Detamore, Harold H., and Hirsch. 2,876,848.  
Dittmer, Clyde A., and Hirsch. 2,891,627.  
Hendrix, Sylvan G., Hirsch, and McDonald. 2,888,992.
- Hirsch, Richard A., J. R. Mansfield, and H. N. Nelson, to General Motors Corp. Propeller mechanical pitch lock and low pitch stop assembly. 2,882,975, 4-21-59, Cl. 170-160.32.
- Hirsch, Robert L., C. F. Miller, and A. Bellin, to Aerojet-General Corp. Method of restricting the burning of a solid propellant charge. 2,917,424, 12-15-59, Cl. 154-117.
- Hirsch, Sylvan R.: See—  
Keir, Alexander J., and Hirsch. 2,867,376.
- Hirsch, Ursula: See—  
McCormick, Jerry R. D., Hirsch, Jensen, and Sjolander. 2,878,289.
- Hirsch, Wilbert. Cover for electric wiring and outlet. 2,916,733, 12-8-59, Cl. 340-280.
- Hirschberg, Theodore B., Jr.: See—  
Jagger, Hubert. 2,878,749.  
Little, Alfred E. 2,869,456.
- Hirschey, Malcolm: See—  
Gottscho, Ira S., and Hirschey. 2,874,499.  
Gottscho, Ira S., and Hirschey. 2,887,952.  
Gottscho, Ira S., Hirschey, and Alessi. 2,901,968.  
Gottscho, Ira S., Hirschey, and Alessi. 2,901,972.
- Hirschey, Malcolm, to Adolph Gottscho, Inc. Marking apparatus. 2,880,669, 4-7-59, Cl. 101-35.
- Hirschey, Malcolm, to Adolph Gottscho, Inc. Rotary marking apparatus. 2,910,937, 11-3-59, Cl. 101-228.
- Hirschey, Malcolm, to Adolph Gottscho, Inc. Marking apparatus. 2,915,964, 12-8-59, Cl. 101-44.
- Hirschey, Malcolm, I. S. Gottscho, and A. J. Alessi, Jr., to Adolph Gottscho, Inc. Marking apparatus. 2,879,711, 3-31-59, Cl. 101-44.
- Hirschey, Malcolm, and A. J. Alessi, Jr., to Adolph Gottscho, Inc. Marking apparatus. 2,889,767, 6-9-59, Cl. 101-35.
- Hirschhorn, Isidor S., to New Process Metals, Inc. Means for producing flint rods. 2,873,489, 2-17-59, Cl. 22-1.
- Hirschhorn, Isidor S., and T. H. Briggs, to New Process Metals, Inc. Getter material. 2,890,367, 6-9-59, Cl. 313-308.
- Hirschler, Alfred E., to Sun Oil Co. Cracking a hydrocarbon oil with a silica-alumina-chromium oxide-beryllium oxide catalyst composite. 2,867,578, 1-6-59, Cl. 208-120.
- Hirschler, Alfred E., to Sun Oil Co. Process for improving the quality of catalytic gasoline. 2,890,997, 6-16-59, Cl. 208-93.
- Hirschler, Alfred E., to Sun Oil Co. Treatment of oxidation products with solid adsorbents. 2,905,704, 9-22-59, Cl. 260-452.
- Hirschler, Alfred E., and E. J. Janoski, to Sun Oil Co. Catalyst and hydrocarbon conversion therewith. 2,887,450, 5-19-59, Cl. 208-120.
- Hirschler, Alfred E., and E. J. Janoski, to Sun Oil Co. Silica-alumina-chromium phosphate catalyst and hydrocarbon cracking therewith. 2,897,134, 7-28-59, Cl. 208-111.
- Hirschmann, Ralph F., to Merck & Co., Inc. Antihemorrhagic compounds and processes for preparing the same. 2,913,477, 11-17-59, Cl. 260-461.
- Hirschmann, Ralph F., and R. Miller, to Merck & Co., Inc. 9 $\alpha$ -fluoro- $\Delta^7$ -3,20-diketo-11,21-bis-oxygenated-17-hydroxy-allopregnenes and processes for preparing them. 2,885,412, 5-5-59, Cl. 260-397.45.
- Hirschmann, Ralph F., N. L. Wendler, and R. Miller, to Merck & Co., Inc. Production of dihydrovitamin K. 2,906,780, 9-29-59, Cl. 260-625.
- Hirshy, Harlan W., C. H. Rowe, and K. J. Harwood, to Kimberly-Clark Corp. Absorbent wiping sheet. 2,902,395, 9-1-59, Cl. 154-46.
- Hirsh, Donald H.: See—  
Montagna, Amelio E., and Hirsh. 2,905,722.
- Hirsh, S. A. Mfg. Co.: See—  
Bellon, Ralph J., and Ferdinand. 2,906,486.  
Ferdinand, Irwin J., and Bellon. 2,889,186.  
Ferdinand, Irwin J., and Handler. 2,895,241.
- Hirsh, Stanley A., to Bulova Research and Development Laboratories, Inc. Frequency adjustment plating control. 2,906,235, 9-29-59, Cl. 113-8.
- Hirshon, Jack M.: See—  
Rhodes, Harrison B., Pesold, and Hirshon. 2,890,099.



- Hirst, Archie J., to Metalastik Ltd. Spring suspension for multi-wheel road-vehicle bogies. 2,872,207, 2-3-59, Cl. 280-104.5.
- Hirst, Archie J., and K. J. B. Clark, to Metalastik Ltd. Resilient supports. 2,891,744, 6-23-59, Cl. 248-9.
- Hirst, Harry. Eaves vents. 2,885,942, 5-12-59, Cl. 98-37.
- Hirst, Sydney: See—
- Briggs, John C. 2,896,135.
- Hirsty, Sylvain M., to E. I. du Pont de Nemours and Co. Polychloroprene elastomers. 2,868,764, 1-13-59, Cl. 260-45.8.
- Hirt, Gerald E., and R. M. Strickland, Jr., to The Talco Engineering Co. Dispenser for volatile fluids. 2,878,965, 3-24-59, Cl. 222-5.
- Hirt, Gerald E., and E. A. Martino, to Talco Engineering Co., Inc. Ejection seat catapult. 2,900,150, 8-18-59, Cl. 244-122.
- Hirt, Otto: See—
- Westinger, Karl, Altenburger, and Hirt. 2,880,933.
- Westinger, Karl, Altenburger, and Hirt. 2,905,381.
- Hirtner, Paul J. Spring loaded terminal seal for sealed refrigeration compressors. 2,900,438, 8-18-59, Cl. 174-153.
- Hirtreiter, Walter J. Amplifier control apparatus. 2,886,657, 5-12-59, Cl. 179-171.
- Hirvonen, Eric J., to Leland-Gifford Co. Tool post. 2,878,705, 3-24-59, Cl. 82-36.
- Hirvonen, Eric J., to Leland-Gifford Co. Hydraulic tracing apparatus. 2,882,777, 4-21-59, Cl. 82-14.
- Hirzel, Edgar A., to The Goodyear Tire & Rubber Co. Brake having automatic torque controlling means. 2,917,135, 12-15-59, Cl. 188-181.
- Hiscock, Grace S. Method of making individualized dress forms, and dress form construction. 2,894,668, 7-14-59, Cl. 223-68.
- Hiser, Willard U.,  $\frac{1}{2}$  to H. A., and  $\frac{1}{2}$  to C. D. Anderson. Tractor hitch or the like. 2,906,546, 9-29-59, Cl. 280-482.
- Hiser, William H. Display stand for boats. 2,898,067, 8-4-59, Cl. 248-176.
- Hiserman, Russell L., Jr., to United States of America, Navy. Photographic processing machine. 2,912,915, 11-17-59, Cl. 95-94.
- Hi-Shear Rivet Tool Co.: See—
- Wing, George S. 2,882,773.
- Hiskey, Clarence F., to United States of America, Atomic Energy Commission. Dehydration of deuterium oxide slurries. 2,877,091, 3-10-59, Cl. 23-14.5.
- Hiskey, Clarence F., and J. A. Lamoureux, to Transition Metals & Chemicals, Inc. Continuous process for metal-thermic reactions. 2,889,218, 6-2-59, Cl. 75-27.
- Hislop, Theodore W.: See—
- Vaughan, James L. B., Hislop, and Hanna. 2,890,136.
- Vaughan, James L. B., Hislop, and Hanna. 2,890,137.
- Hi-Speed Checkweigher Co., Inc.: See—
- Del Rosso, Victor. 2,907,443.
- Hitachi Ltd.: See—
- Kurita, Kentaro. 2,905,911.
- Hitch, Paul E., and J. W. Walsh, to General Motors Corp. Cooling system for fluid operated brake. 2,899,026, 8-11-59, Cl. 188-264.
- Hitchcock, Forest B.: See—
- Preston, Neil D., and Hitchcock. 2,914,662.
- Hitchcock, Frederick J. Height gauging instrument. 2,882,606, 4-21-59, Cl. 33-172.
- Hitchcock, John H., to Morgan Construction Co. Shear. 2,868,292, 1-13-59, Cl. 164-66.
- Hitchcock, John H., to Morgan Construction Co. Continuous wire-drawing machine. 2,909,275, 10-20-59, Cl. 205-14.
- Hitchcock, Paul C.: See—
- Salzer, Erwin, and Hitchcock. 2,882,521.
- Hitchcock, Richard C., and E. V. Weir, to Syntron Co. Voltage and current battery charging and discharging control circuits. 2,869,065, 1-13-59, Cl. 320-18.
- Hitchcock, William J., to United States of America, Air Force. Salt crystal-to-glass seal. 2,915,153, 12-1-59, Cl. 189-36.5.
- Hitchens, Aaron L., and E. Czapek, to Olin Mathieson Chemical Corp. Ammunition. 2,915,972, 12-8-59, Cl. 102-42.
- Hitchings, George H., and G. B. Ellon. 2-amino-6-mercaptopyrimine. 2,884,667, 5-5-59, Cl. 260-252.
- Hitchings, George H., and B. Roth, to Burroughs Wellcome & Co. (U.S.A.) Inc. Dihydrotriazines with anthelmintic properties. 2,897,116, 7-28-59, Cl. 167-65.
- Hitchings, George H., and B. Roth, to Burroughs Wellcome & Co. (U.S.A.) Inc. Trialkoxybenzylpyrimidines and method. 2,909,522, 10-20-59, Cl. 260-256.4.
- Hitchner, Stephen B., to American Scientific Laboratories, Inc. Methods for administering vaccine to fowl. 2,910,407, 10-27-59, Cl. 167-78.
- Hitchner, William G., to Kimble Glass Co. Method and apparatus for inspecting glass spheres. 2,905,321, 9-22-59, Cl. 209-115.
- Hiteamp Wires, Inc.: See—
- Greyson, William L. 2,888,367.
- Hitov, Joseph J.: See—
- Heyl, Edgar G., and Hitov. 2,885,105.
- Rainer, William C., Redding, Hitov, Sloan, and Stewart. 2,877,500.
- Rainer, William C., Redding, Hitov, Sloan, and Stewart. 2,878,174.
- Rainer, William C., Redding, Hitov, Sloan, and Stewart. 2,904,480.
- Hitt, George F.: See—
- Cook, Chester K., and Hitt. 2,879,816.
- Hitt, George F. Self seating key. 2,894,772, 7-14-59, Cl. 287-52.05.
- Hitt, Otis D., and R. S. Short, to The Aero Equipment Corp. Pneumatic drill. 2,881,589, 4-14-59, Cl. 60-97.
- Hittell, John. Fuel injection. 2,914,053, 11-24-59, Cl. 123-139.
- Hittrich, Gabriel A., to The Dow Chemical Co. Assemblies of extended surface elements for gas-liquid contact apparatus. 2,917,292, 12-15-59, Cl. 261-7.
- Hitzelberger, Erwin, to Daimler-Benz Akt. Door lock. 2,896,988, 7-28-59, Cl. 292-83.
- Hitzeman, Roger L.: See—
- Roup, Roland R., Hitzeman, Taylor, and Beard. 2,905,564.
- Hitzman, Donald O., to Phillips Petroleum Co. Prospecting for petroleum deposits. 2,880,142, 3-31-59, Cl. 195-103.5.
- Hitzman, Donald O., to Phillips Petroleum Co. Recovery of oil from oil sands and the like. 2,907,389, 10-6-59, Cl. 166-8.
- Hitzman, Donald O., to Phillips Petroleum Co. Bactericidal composition comprising tetra alkyl quaternary ammonium halide and hydrogen peroxide. 2,917,428, 12-15-59, Cl. 167-22.
- Hivac Ltd.: See—
- Hill, Dennis W. 2,883,584.
- Hivert, André, and S. Tacvorian, to Office National d'Etudes et de Recherches Aéronautiques. Method of producing powder metals. 2,881,067, 4-7-59, Cl. 75-5.
- Hi-Voltage Equipment Co.: See—
- Luehring, Elmer L., and Poe. 2,915,611.
- Hi-Voltage Equipment Co., a division of Joslyn Mfg. and Supply Co.: See—
- Rittenhouse, Joseph W., and Luehring. 2,918,588.
- Hixon, George M., to Trego, Inc. Cable connector. 2,900,617, 8-18-59, Cl. 239-265.
- Hixon, Philip E., and E. E. White, to White-Hixon Laboratories Inc. Photographic print basket. 2,892,393, 6-30-59, Cl. 95-100.
- Hixon, Philip E., and E. E. White, to White-Hixon Laboratories Inc. Print basket. 2,892,394, 6-30-59, Cl. 95-100.
- Hixson, William F. Pipe pushing machine. 2,915,282, 12-1-59, Cl. 254-29.
- Hizsa, George, Jr. Friction-braked hinge assemblies. 2,872,697, 2-10-59, Cl. 16-142.
- Hjälsten, John A., to Sandvikens Jernverks Aktiebolag. Percussion drill bit for large holes. 2,884,227, 4-28-59, Cl. 255-64.
- Hjärpe, Eric G., to Aktiebolaget Svenska Kullagerfabriken. Pneumatic liquid pressure pump. 2,890,658, 6-18-59, Cl. 103-49.
- Hjelm, Arvid, and F. K. Knutsson-Hall. Device for filling matches into boxes. 2,871,637, 2-3-59, Cl. 53-26.
- Hjelstrom, Irving E., and J. B. Catlett, to Curtiss-Wright Corp. Belt abrading machines. 2,883,804, 4-28-59, Cl. 51-141.
- Hjermstad, Hans U., to Electro-Seal Corp. Lens for signal lights. 2,907,249, 10-6-59, Cl. 88-78.
- Hjulian, Julius A., to Crane Co. Aerator. 2,888,209, 5-26-59, Cl. 239-430.
- Hlavac, Emil F. Bracelet attaching device. 2,896,890, 7-28-59, Cl. 248-122.
- Hlavacek, Robert J., to Swift & Co. Color stabilizers for tallow. Re. 24,669, 7-21-59, Cl. 260-398.5.
- Hlinsky, Emil J., to Goodman Mfg. Co. Vibration damping gear. 2,880,599, 4-7-59, Cl. 64-27.
- Hlinsky, Emil J., to Goodman Mfg. Co. Boring type mining machine with adjustable boring head. 2,882,031, 4-14-59, Cl. 262-77.
- Hlinsky, Emil J., to Goodman Mfg. Co. Continuous miner for pitching seams having an angularly adjustable trimmer bar. 2,907,558, 10-6-59, Cl. 262-7.
- Hlynsky, William. Screw driver with screw holding means. 2,905,215, 9-22-59, Cl. 145-52.
- Hmiel, Stanley E., to Koppers Co., Inc. Stable polyethylene dispersion containing no emulsifying agent and method of coating therewith. 2,898,233, 8-4-59, Cl. 117-103.
- Hnat, Stephen: See—
- Davis, Roderic A., Gustafson, and Hnat. 2,880,932.
- Hnilicka, Milo P., Jr., and J. L. Vaughan, to National Research Corp. Production of metals. 2,880,987, 4-7-59, Cl. 266-9.
- Hoadley, Henry H., to United Aircraft Corp. Surface cooling means for aircraft. 2,908,455, 10-13-59, Cl. 244-117.
- Hoadley, James C., and D. O. McCoy. Unilateral transmission circuits. 2,874,287, 2-17-59, Cl. 250-27.
- Hoag, Nelson E.: See—
- Henderson, J. Alvin, and Hoag. 2,913,610.
- Hoag, Paul B. Seat construction. 2,875,819, 3-3-59, Cl. 155-180.
- Hoag, Roderick W. Commodity packets. 2,895,606, 7-21-59, Cl. 206-56.
- Hoag, William G., and R. C. Liem, to General Motors Corp. Window guide mechanism. 2,893,781, 7-7-59, Cl. 296-44.5.
- Hoagland, Jack C.: See—
- Hintzman, John L., Hoagland, and Prono. 2,893,682.
- Hoagland, Kenneth A., to Allen B. Du Mont Laboratories, Inc. Electrostatic electron lens. Re. 24,673, 7-28-59, Cl. 315-16.



- Hoaglin, Raymond I., W. J. Reid, and R. G. Kelso, to Union Carbide Corp. Vinyl chloride compositions containing alkyl-1,5-pentanediol polyesters. 2,909,499, 10-20-59, Cl. 260-31.6.
- Hoaglin, Raymond I., H. C. Schultze, and C. E. Hodges, to Union Carbide Corp. Process for the production of aliphatic nitriles. 2,910,502, 10-27-59, Cl. 260-465.2.
- Hoaglund, John R. Water-powered and water-cleansed garbage grinder. 2,902,225, 9-1-59, Cl. 241-42.
- Hoare, Michael F.: *See*—  
Fowler, Benjamin T., Hoare, and Krischaj. 2,911,368.
- Hoback, Dale: *See*—  
Hull, Maurice E., Lucasey, and Hoback. 2,897,083.
- Hoback, James E. Fuel distributor for internal combustion engines. 2,884,006, 4-28-59, Cl. 137-625.11.
- Hoban, Fairfield W., to N. Coghati, J. F. Hoban, and J. R. Callahan, as trustees. Vending machines. 2,875,877, 3-3-59, Cl. 194-10.
- Hoban, Fairfield W. Vending machines. 2,875,878, 3-3-59, Cl. 194-10.
- Hoban, John F.: *See*—  
Hoban, Fairfield W. 2,875,877.
- Hobart Brothers Co., The: *See*—  
Blankenbuehler, John H. 2,910,640.
- Hobert, Edward A., Schober, and Blankenbuehler. 2,882,478.
- Hobart, Edward A., W. R. Schober, and J. H. Blankenbuehler, to The Hobart Brothers Co. Method and apparatus for welding. 2,882,478, 4-14-59, Cl. 321-25.
- Hobart Mfg. Co., The: *See*—  
Allen, Kenneth C. 2,873,416.
- Allen, Kenneth C., and Reussenzehn. 2,880,643.
- Fox, Gerald B. 2,884,935.
- Fox, Gerald B., and Thomas. 2,880,941.
- Meeker, David A., and Geiger. 2,879,026.
- Reussenzehn, Ernest A., and Goldberg. 2,906,233.
- Hobbs, Charles A.: *See*—  
Glennon, James B., Park, Maltby, and Hobbs. 2,881,702.
- Hobbs, Charles A. Mine firing control system. 2,899,896, 8-18-59, Cl. 102-18.
- Hobbs, George W., and A. B. Levine, to General Electric Co. Radix converter. 2,907,525, 10-6-59, Cl. 235-155.
- Hobbs, Howard F., to Hobbs Transmission Ltd. Fluid pressure control apparatus for variable ratio power transmission apparatus. 2,879,796, 3-31-59, Cl. 137-622.
- Hobbs, Howard F., to Hobbs Transmission Ltd. Variable-ratio power transmission. 2,887,198, 5-19-59, Cl. 192-072.
- Hobbs, Howard H., to Food Machinery and Chemical Corp. Animal feeding apparatus. 2,914,024, 11-24-59, Cl. 119-54.
- Hobbs, James C., assor. of an undivided interest to United States of America, Atomic Energy Commission. Remote controlled switching device. 2,872,545, 2-3-59, Cl. 200-92.
- Hobbs, James C. Safe-weld pipe joint. 2,878,040, 3-17-59, Cl. 285-286.
- Hobbs, James C. Clamped flange joint with means for maintaining a fluid seal under varying temperature conditions. 2,878,041, 3-17-59, Cl. 285-367.
- Hobbs, Kenneth C., to Corn Products Co. Starch and process therefor. 2,884,347, 4-28-59, Cl. 127-71.
- Hobbs, Linder C.: *See*—  
Booth, Grant W., Hobbs, and Fillebrown. 2,911,624.
- Spiegelberg, Arnold M., Guerber, and Hobbs. 2,907,010.
- Sublette, Ivan H., Beard, Bensky, Hobbs, and Fillebrown. 2,877,446.
- Hobbs, Linder C., to Radio Corp. of America. Information handling system. 2,907,003, 9-29-59, Cl. 340-174.
- Hobbs, Milton M., to Westinghouse Electric Corp. Overspeed control apparatus. 2,877,783, 3-17-59, Cl. 137-31.
- Hobbs, Oliver K. Cultivator for peanuts and the like. 2,882,982, 4-21-59, Cl. 172-522.
- Hobbs, Ralph E., Jr.: *See*—  
Alderman, Leon D., Hobbs, and Maeser. 2,896,208.
- Hobbs Transmission Ltd.: *See*—  
Hobbs, Howard F. 2,879,796.
- Hobbs, Howard F. 2,887,198.
- Hobbs, William M., W. J. Harper, and J. D. Meess, to United States of America, Air Force. Fluid valve. 2,916,252, 12-8-59, Cl. 251-129.
- Hobbs, William S. Unburned fuel detection and burner control. 2,874,763, 2-24-59, Cl. 158-28.
- Hobday, Stephen W. Hydrofoil watercraft. 2,890,671, 6-16-59, Cl. 114-66.5.
- Hobelman, Joseph M.: *See*—  
Thornburgh, John A., and Hobelman. 2,879,980.
- Hoberecht, Fred A. Grinding machine. 2,902,800, 9-8-59, Cl. 51-219.
- Hoberg, George G.: *See*—  
Gaddis, Arden H., Hoberg, and Williams. 2,918,659.
- Hoberg, George G., W. R. Lonergan, R. B. Thornley, R. J. Williams, and D. L. Stevens, to Burroughs Corp. Format control for high speed printers. 2,918,658, 12-22-59, Cl. 340-174.
- Hobin, John L. Apparatus for thermometer manufacture. 2,900,763, 8-25-59, Cl. 49-7.
- Hobin, Martin A., to Kaweck Chemical Co. Recovery of selenium. 2,889,206, 6-2-59, Cl. 23-209.
- Hoblitt, Louis D.: *See*—  
McClure, Holmes H., Melbert, and Hoblitt. 2,886,605.
- Hobrough, Gilbert L., to The Photographic Survey Corp. Ltd. Altitude sensing device. 2,901,909, 9-1-59, Cl. 73-384.
- Hobson, Charles W., to N. Hobson. Adjustable bracket supports for display and other purposes. 2,872,144, 2-3-59, Cl. 248-223.
- Hobson, Eric D., to Yarrow and Co. Ltd. Oil purification or separation plant. 2,895,883, 7-21-59, Cl. 196-46.
- Hobson, Eric D., to Yarrow and Co. Ltd. System of fluid fuel supply for multiple burner operation. 2,902,086, 9-1-59, Cl. 158-36.
- Hobson, Eric D., to Yarrow and Co. Ltd., and Andre Rubber Co. Ltd. Water cooling systems for steam condenser units of marine steam propulsion installations. 2,902,965, 9-8-59, Cl. 114-185.
- Hobson, H. M., Ltd.: *See*—  
McCorty, William D. 2,896,700.
- Hobson, Lloyd L. Partition device. 2,884,154, 4-28-59, Cl. 220-22.
- Hobson, Nancy: *See*—  
Hobson, Charles W. 2,872,144.
- Hobson, Patrick H., to The Chemstrand Corp. Stannous formate catalyst for preparing polyethylene terephthalate. 2,892,815, 6-30-59, Cl. 260-75.
- Hobson, Thomas K.: *See*—  
Herman, William P., and Hobson. 2,876,452.
- Hobson, William J. Constructional toy. 2,909,867, 10-27-59, Cl. 46-29.
- Hoch, Joseph F., to Sierra Precision, Inc. Indicator panel. 2,905,937, 9-22-59, Cl. 340-366.
- Hoch, Joseph F., to Sierra Precision, Inc. Brake travel indicator. 2,912,536, 11-10-59, Cl. 200-83.
- Hoch, Paul E.: *See*—  
Wynn, Robert W., and Hoch. 2,876,210.
- Hochberg, Jerome, to E. I. du Pont de Nemours and Co. Article of manufacture and process of making same. 2,907,677, 10-6-59, Cl. 117-68.5.
- Hochberger, Henry W., to United States Steel Corp. Blast furnace. 2,906,520, 9-29-59, Cl. 266-31.
- Hocher, Andrew A.: *See*—  
Mack, Jules A., and Hocher. 2,908,469.
- Hochfeld, Henry. Process and machine for pleating pliable materials. 2,901,951, 9-1-59, Cl. 93-84.
- Hochgraf, Norman N., L. C. Kenyon, Jr., and A. W. Langer, Jr., to Esso Research and Engineering Co. Anti-fouling procedure. 2,908,671, 10-13-59, Cl. 260-93.7.
- Hochman, Jack H. Key chain holder. 2,875,605, 3-3-59, Cl. 70-457.
- Hochmeister, Inc.: *See*—  
Birnbaum, Hermann. 2,875,221.
- Hochmuth, Frank W., to Combustion Engineering, Inc. Method of burning waste liquors. 2,911,284, 11-3-59, Cl. 23-48.
- Hochmuth, Gordon H.: *See*—  
Davis, Jacob M., and Hochmuth. 2,903,569.
- Hochrainer, August: *See*—  
Slamecka, Ernst, and Hochrainer. 2,898,548.
- Hochreuter, Richard, to Feldmuhle A.G. Process for puffing hydrophobic nylon type fibers by swelling the fibers and generating oxygen in situ. 2,904,840, 9-22-59, Cl. 18-48.
- Hochschild, Richard, to United States of America, Atomic Energy Commission. Non-destructive method and means for flaw detection. 2,877,406, 3-10-59, Cl. 324-40.
- Hochstadt, Harold R.: *See*—  
Dullaghan, Matthew E., and Hochstadt. 2,897,115.
- Hochstetler, Robert D., and I. B. Thierman, to Iron Fireman Mfg. Co. Gyroscope caging system. 2,887,884, 5-26-59, Cl. 74-5.1.
- Hochuli, Ernst H., Osolin, A. Schuerch, and H. Zumstein, to Ciba Ltd. Process for producing embossed prints. 2,873,204, 2-10-59, Cl. 117-11.
- Hochuli, Ernst H., Werdenberg, and W. Fisch, to Ciba Ltd. Process for pigment printing of flexible flat structures. 2,904,447, 9-15-59, Cl. 117-38.
- Hock, Heinrich, to Ruhrchemie Akt. Production of phenolic resins from alkyl benzene hydroperoxides. 2,874,147, 2-17-59, Cl. 260-57.
- Hock, Heinrich, to Ruhrchemie Akt. Styrene endoperoxides. 2,889,336, 6-2-59, Cl. 260-340.3.
- Hockel, Hans L., and E. Ueckert, to Knorr-Bremse G. m. b. H. Power operated hammers. 2,871,835, 2-3-59, Cl. 123-7.
- Hockel, Hans L., and W. Gerberich, to Knorr-Bremse G. m. b. H. Rotary air compressors. 2,876,948, 3-10-59, Cl. 230-210.
- Hockery, John C.: *See*—  
Aberer, Frank E. 2,908,467.
- Aberer, Frank E., and Talge. 2,893,116.
- Aberer, James B. 2,908,520.
- Blumkin, Sidney. 2,913,201.
- Chappell, William A., and Scott. 2,904,268.
- Landry, William J. 2,893,117.
- McLean, Robert E. 2,879,590.
- Talge, Henry J., and Aberer. 2,903,927.
- Hockett, Carl G., to Fram Corp. Manufacture of pleated filters. 2,895,174, 7-21-59, Cl. 18-59.
- Hockey, Walter S.: *See*—  
Belkowski, Jerzy, and Hockey. 2,875,768.
- Hocks, Robert W., and J. H. Dennis. Ear protector. 2,881,759, 4-14-59, Cl. 128-152.



- Hoda Corp.: *See*—  
Colombo, George. 2,907,850.  
Gallaro, Donald M., and Eatinger. 2,896,190.  
Welsh, James W. 2,870,291.  
Welsh, James W. 2,870,292.  
Welsh, James W. 2,879,355.
- Hodag Chemical Corp.: *See*—  
Kent, Sheldon E. 2,871,148.
- Hodel, Ernst, and H. Gysin, to J. R. Geigy A. G. New esters of 5-acyl-8-hydroxyquinolines and their use for the control of fungi. 2,875,126, 2-24-59, Cl. 167-33.
- Hodel, Hans. Rail fastening device. 2,869,792, 1-20-59, Cl. 238-349.
- Hodes-Lange Corp.: *See*—  
Lange, Richard. 2,896,381.
- Hodes, William, to Standard Oil Co. Preparation of trimellitic anhydride. 2,887,497, 5-19-59, Cl. 260-346.3.
- Hodes, William, to Standard Oil Co. Process for the preparation of trimellitic anhydride. 2,888,465, 5-26-59, Cl. 260-346.3.
- Hodge, Allen W.: *See*—  
Nippert, Paul W., and Hodge. 2,879,191.
- Hodge, Edward A.: *See*—  
Ohlson, Paul E., and Hodge. 2,905,127.
- Hodge, Edward A., to The Martin Co. Seaplane beaching apparatus. 2,908,240, 10-13-59, Cl. 114-43.5.
- Hodge, Edward B., to Commercial Solvents Corp. Aryl nitro ethers. 2,894,992, 7-14-59, Cl. 260-611.
- Hodge, Edward B., to Commercial Solvents Corp. Petroleum lubricant stabilized against hydrocarbon-metabolizing microorganisms. 2,905,640, 9-22-59, Cl. 252-51.5.
- Hodge, Edward B., to Commercial Solvents Corp. Petroleum lubricants stabilized against hydrocarbon metabolizable microorganisms. 2,913,414, 11-17-59, Cl. 252-51.5.
- Hodge, Everett D., to Electric Mechanisms Inc. Shaft positioning device. 2,910,892, 11-3-59, Cl. 74-766.
- Hodge, John E.: *See*—  
Ofelt, Chester W., and Hodge. 2,889,227.
- Hodge, Richard M.: *See*—  
Taylor, Louis L., and Hodge. 2,919,350.
- Hodge, Ronald I., to Power Jets (Research and Development) Ltd. Combustion apparatus for and method of burning ash-forming liquid fuel. 2,895,293, 7-21-59, Cl. 60-39.06.
- Hodge, William F., to General Electric Co. Radiant energy device. 2,910,605, 10-27-59, Cl. 313-113.
- Hodge, William R.: *See*—  
Marshall, James P., and Willis. 2,870,731.
- Hodgeman, Herbert H.: *See*—  
Cullen, Roy H., Richards, and Hodgeman. 2,892,535.
- Hodgers, Robert W., L. C. Harriott, and H. M. Ogle, to General Electric Co. Position control system. 2,907,938, 10-6-59, Cl. 318-29.
- Hodges, Charles E.: *See*—  
Hoaglin, Raymond I., Schultze, and Hodges. 2,910,502.
- Hodges, Frederick G., Jr. Mattress or cushion unit. 2,887,693, 5-26-59, Cl. 5-351.
- Hodges, George H.: *See*—  
Cobb, Charles E. 2,909,440.
- Hodges, Howard T., to Eastman Kodak Co. Photographic copier. 2,878,740, 3-24-59, Cl. 95-73.
- Hodges, Hubert E. Presses and the like. 2,890,649, 6-16-59, Cl. 100-231.
- Hodges, Leon R. Lock-up key for chase. 2,915,931, 12-8-59, Cl. 81-177.
- Hodges, Merwyn E., to General Electric Co. Electronic relay arrangement for an electric power transmission line protective system. 2,873,410, 2-10-59, Cl. 317-28.
- Hodges, Merwyn E., to General Electric Co. Impedance changing circuit. 2,897,413, 7-28-59, Cl. 317-148.5.
- Hodges, Merwyn E., and N. A. Koss, to General Electric Co. Fault responsive protective system for an electric power transmission line. 2,879,453, 3-24-59, Cl. 317-28.
- Hodges, Merwyn E., N. A. Koss, and H. T. Seeley, to General Electric Co. Fault responsive protective system for an electric power transmission line. 2,879,454, 3-24-59, Cl. 317-28.
- Hodges Research and Development Co.: *See*—  
Hodges, William C., and Robb. 2,873,502.  
Williams, Beverly E. 2,870,018.
- Hodges, Stephen B., W. I. Lewis, and C. G. Thomas, to Dresser Industries, Inc. Pipe coupling package. 2,886,172, 5-12-59, Cl. 206-47.
- Hodges, William A., J. E. Floyd, and W. H. Lang, to Swift & Co. Production of sodium silico fluoride and fluorine-free phosphoric acid. 2,883,266, 4-21-59, Cl. 23-88.
- Hodges, William A., and J. E. Floyd, to Swift & Co. Purifying crude phosphoric acid. 2,917,367, 12-15-59, Cl. 23-165.
- Hodges, William C., and A. L. Robb, to Hodges Research and Development Co. System and apparatus for handling transportable containers. 2,873,502, 2-17-59, Cl. 214-516.
- Hodgson, Cecil L., and W. E. Breit, to Bendix Aviation Corp. Drilling machine. 2,893,270, 7-7-59, Cl. 77-25.
- Hodgson, Dennis J.: *See*—  
Denovan, Alexander E. C., Hodgson, and Kremer. 2,918,004.
- Hodgson, Donald C.: *See*—  
Hodgson, Thomas G., D. C., and M. J. 2,884,731.
- Hodgson, Fred. Combination cup and stirring device. 2,918,203, 12-22-59, Cl. 229-1.5.
- Hodgson, Howard E., to Cutler-Hammer, Inc. Methods of and means for controlling electromagnets. 2,870,382, 1-20-59, Cl. 317-123.
- Hodgson, Jack E., to Continental Can Co., Inc. Refuse can with foot pedal closure opening means. 2,910,206, 10-27-59, Cl. 220-17.
- Hodgson, Myron J.: *See*—  
Hodgson, Thomas G., D. C., and M. J. 2,884,731.
- Hodgson, Thomas G., D. C., and M. J. Weedless fish lure. 2,884,731, 5-5-59, Cl. 43-35.
- Hodkin, David, to Engineering Research and Application Ltd. Motor vehicle chassis and suspension means. 2,899,236, 8-11-59, Cl. 296-28.
- Hodkin, Richard K., to Engineering Research and Application Ltd. Control apparatus for variable ratio power transmission means. 2,881,625, 4-14-59, Cl. 71-336.5.
- Hodkinson, Harold, to Dunlop Rubber Co. Ltd. Disc brakes. 2,909,246, 10-20-59, Cl. 188-73.
- Hodler, Fritz. Venting device for die casting machines. 2,867,869, 1-13-59, Cl. 22-73.
- Hodler, Fritz. Device for increasing the capacity of die casting machines. 2,893,082, 7-7-59, Cl. 22-68.
- Hodsmen, George F., to L. Oertling, Ltd. Arresting mechanism for analytical balances. 2,906,519, 9-29-59, Cl. 265-49.
- Hodson, Herbert O.: *See*—  
Anderson, Rodney R., and Hodson. 2,879,964.
- Hodson, Leslie. Fence construction. 2,906,507, 9-29-59, Cl. 256-48.
- Hodson, Peter: *See*—  
Valvo, Joseph F., and Hodson. 2,870,861.
- Hodson, Peter, to Apra Precipitator Corp. Purge means for rectangular precipitator. 2,887,176, 5-19-59, Cl. 183-7.
- Hodson, Peter, to The Air Preheater Corp. Rotary regenerative air preheater. 2,896,921, 7-28-59, Cl. 257-6.
- Hodson, Peter, and S. Holm. Mounting sinusoidal fin elements in heat exchange envelope. 2,868,514, 1-13-59, Cl. 257-245.
- Hoe, R., & Co., Inc.: *See*—  
Harless, Charles A. 2,894,775.  
Harless, Charles A. 2,900,900.  
Harless, Charles A., and Polglase. 2,915,008.  
Polglase, Burton C., Jr., Worthington, and Ringe. 2,909,999.  
Zuckerman, Adolph M. 2,887,312.
- Hoedinghaus, George E., and R. G. Sanders. Lower shelf construction for nesting cart. 2,882,062, 4-14-59, Cl. 280-33.99.
- Hoedinghaus, George E., and R. G. Sanders. Nesting market cart basket having a level bottom. 2,906,542, 9-29-59, Cl. 280-33.99.
- Hoef, William A. Bottle cap. 2,893,585, 7-7-59, Cl. 215-41.
- Hoefener, Howard F.: *See*—  
Troeger, Henry, and Hoefener. 2,896,601.
- Hoeflich, Victor T. Table centerpiece. 2,892,278, 6-30-59, Cl. 41-10.
- Hoegge, Robert A., and W. W. Gobble, to Fletcher Aviation Corp. Collet and ferrule type clamp hose coupling. 2,878,039, 3-17-59, Cl. 285-249.
- Hoehl, Edward P. Apparatus for fabricating electrotyping shells. 2,890,992, 6-16-59, Cl. 204-297.
- Hoehl, Edward P. Method for backing electrotype shells. 2,915,797, 12-8-59, Cl. 22-203.
- Hoehn, Willard M.: *See*—  
Allison, Kenneth C., and Hoehn. 2,869,395.  
Bible, Roy H., Jr., and Hoehn. 2,889,371.  
Bible, Roy H., Jr., and Hoehn. 2,918,490.
- Hoehn, Willard M. to G. D. Searle & Co. Lower alkyl esters of 1,4a-dimethyl-8-oxo-1,2,3,4,4a,4b,5,6,7,9,10,11,12,12a-tetra-decahydrochrysen-1-carboxylic acid. 2,874,179, 2-17-59, Cl. 260-468.5.
- Hoehn, Willard M., to G. D. Searle & Co. Cinnamoyl-substituted octahydrophenanthrene derivatives. 2,880,229, 3-31-59, Cl. 260-468.5.
- Hoehn, Willard M., to G. D. Searle & Co. 1,4a-dimethyl-7-oxo-8,8a-epoxy-perhydrophenanthrene-1-carboxylates. 2,889,341, 6-2-59, Cl. 260-348.
- Hoehn, Willard M., to G. D. Searle & Co. 1,4a-dimethyl-7-oxo-8-hydroxy-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydrophenanthrene-1-carboxylates. 2,907,788, 10-6-59, Cl. 260-468.5.
- Hoehn, Willard M., to G. D. Searle & Co. Substituted phenylcyano-cyclohexanones. 2,911,432, 11-3-59, Cl. 260-465.
- Hoekje, Howard H., to Columbia-Southern Chemical Corp. Purification of sodium carbonate monohydrate. 2,887,360, 5-19-59, Cl. 23-63.
- Hoeksema, Herman: *See*—  
Nelson, Harrison A., Large, Bergy, and Hoeksema. 2,894,943.
- Hoeksema, Joe H., to Deere & Co. Corn harvester. 2,899,792, 8-18-59, Cl. 56-18.
- Hoekstra, Age H.: *See*—  
Stuyts, Andreas L., Hoekstra, Weber, and Rathenau. 2,900,344.
- Hoekstra, Cyrus E., to The Magnavox Co. Shock and vibration isolation mount. 2,910,263, 10-27-59, Cl. 248-358.
- Hoekstra, Jacob S., and H. J. M. Verschure. Shell mold apparatus. 2,905,987, 9-29-59, Cl. 22-9.
- Hoekstra, James, and E. Michalko, to Universal Oil Products Co. Catalyst manufacture. 2,897,159, 7-28-59, Cl. 252-448.



- Hoellerich, John L.: *See—*  
 Poppa, Rocco, and Hoellerich. 2,868,967.
- Hoolscher, William G., to The American Tool Works Co.  
 Clamping mechanism for machine tools. 2,871,993, 2-3-59, Cl. 188-74.
- Hoeltje, Walter W. Memory joggers, and the like. 2,917,837, 12-22-59, Cl. 35-62.
- Hoenick, Hans H.: *See—*  
 Porsche, Ferdinand, and Hoenick. 2,900,035.
- Hoepfner, Conrad H., and C. H. Smith, Jr. Communication reliability apparatus. 2,867,720, 1-6-59, Cl. 250-6.
- Hoerbiger & Co.: *See—*  
 Kehler, Theodor K. 2,870,783.  
 Süchting, Herbert and F. 2,907,344.
- Hoerger, Fred D., and H. W. Smeal, to The Dow Chemical Co.  
 Conjoint halogenation technique. 2,913,449, 11-17-59, Cl. 260-94.9
- Hoern, Joseph H., to Saginaw Wire Products Inc. Wire bending machines. 2,869,590, 1-20-59, Cl. 140-71.
- Hoern, Joseph H.; assor. of small percentages to various assignees. Milling and boring machine. 2,872,853, 2-10-59, Cl. 90-15.
- Hoern, Joseph H. Continuous boring and turning machines. 2,912,892, 11-17-59, Cl. 82-3.
- Hoerst, Valentine N. Mounting for grinding devices. 2,872,758, 2-10-59, Cl. 51-166.
- Hoerst, Valentine N. Manually operated grinding attachment. 2,874,520, 2-24-59, Cl. 51-219.
- Hoerth, Robert, to Stuebbe, Friedrich K. H. Endless power-transmitting belt of flexible material. 2,881,904, 4-14-59, Cl. 198-189.
- Hoesch Werk Akt.: *See—*  
 Zimmermann, Herbert. 2,867,047.
- Hoese, Leroy M., and M. A. Tritan, to American Steel Foundries. Cleaning torch. 2,899,536, 8-11-59, Cl. 219-70.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Pile fabric texturing due to pile overlaps. 2,867,244, 1-6-59, Cl. 139-403.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Carpet with improved coverage. 2,867,245, 1-6-59, Cl. 139-403.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Tufting pattern controlled by looper. 2,882,845, 4-21-59, Cl. 112-79.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Tufted fabric. 2,883,735, 4-28-59, Cl. 28-78.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Pile jump weaving. 2,884,012, 4-28-59, Cl. 139-39.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Texturing due to overlaps. 2,884,013, 4-28-59, Cl. 139-39.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Weaving pile fabric including jaspe. 2,891,582, 6-23-59, Cl. 139-39.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Multiple pile fabric. 2,898,947, 8-11-59, Cl. 139-403.
- Hoesselbarth, Frank W. E., to Bigelow-Sanford Carpet Co., Inc. Fabric having pile raised over weft. 2,903,022, 9-8-59, Cl. 139-406.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Pile fabric method. 2,905,202, 9-22-59, Cl. 139-39.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Terry weaving. 2,905,203, 9-22-59, Cl. 139-39.
- Hoesselbarth, Frank W. E., to C. H. Masland & Sons. Multiple pile weaving. 2,908,296, 10-13-59, Cl. 139-39.
- Hoesterey, Donald C., to Bell Telephone Laboratories, Inc. Piezoelectric field effect semiconductor device. 2,898,477, 8-4-59, Cl. 307-88.5.
- Hoeth, Walter L. Heater for internal combustion engines. 2,916,030, 12-8-59, Cl. 123-142.5.
- Hofbauer, Frank. Combined drill and tap having drill lands extending throughout the length of the tapping portion. 2,898,612, 8-11-59, Cl. 10-140.
- Hofbauer, William J. Rotary cutting tool. 2,898,787, 8-11-59, Cl. 77-73.5.
- Hofer, Brune: *See—*  
 Eugster, Conrad H., Deness, Hafiger, Hofer, Pfister, and Zimmermann. 2,895,965.
- Hofer, David L. Relief valve system for suction dredges. 2,889,779, 6-9-59, Cl. 103-11.
- Hofer, Eugene G., P. J. Koppe, and S. R. Mischnick, to Zenith Radio Corp. Method of manufacturing an electric coil. 2,875,420, 2-24-59, Cl. 336-192.
- Hofer, Jakie J. and R. M. Rectal device. 2,891,539, 6-23-59, Cl. 128-132.
- Hofer, Max, to Maschinenfabrik Augsburg-Nurnberg A.G. Exhaust pipe. 2,886,945, 5-19-59, Cl. 60-29.
- Hofer, Raymond M.: *See—*  
 Hofer, Jakie J. and R. M. 2,891,539.
- Hoff, Emil M. Dumping trailer. 2,889,172, 6-2-59, Cl. 298-10.
- Hoff, Harry J.: *See—*  
 Hoff, Stephen J. and H. J. 2,910,100.
- Hoff, Harry J. and S. J., to Hoffco, Inc. Cultivating implement. 2,888,994, 6-2-59, Cl. 172-103.
- Hoff, Henry B.: *See—*  
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- Hoff, Jean M.: *See—*  
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- Hoff, Jean M., to Wvandotte Chemicals Corp. Bag packing machine. 2,886,072, 5-12-59, Cl. 141-59.
- Hoff, Marclan E., Jr.: *See—*  
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- Hoff, Marclan E., Jr., to General Railway Signal Co. Lighting protection for an electronic track circuit. 2,896,126, 7-21-59, Cl. 317-9.
- Hoff, Richard L., to Superior Tube Co. Tungsten-tantalum-nickel cathodes. 2,899,301, 8-11-59, Cl. 75-170.
- Hoff, Ronald C., to Eriez Mfg. Co. Magnetic indicating device. 2,876,415, 3-3-59, Cl. 324-43.
- Hoff, Ronald C., and L. R. Moskowitz, to Eriez Mfg. Co. Vibratory motor. 2,895,064, 7-14-59, Cl. 310-29.
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- Hoff, Stephen J. and H. J., to Hoffco, Inc. Chain saw. 2,910,100, 10-27-59, Cl. 143-32.
- Hoffar, Henry S. Apertured pliable resilient damper wall silencer. 2,877,860, 3-17-59, Cl. 181-50.
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- Hoff, Stephen J. and H. J. 2,910,100.
- Hoffee, Joseph M. Sewing machine attachment for cutting seam binding. 2,881,833, 4-14-59, Cl. 164-17.5.
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- Hoffer, Temple P.: *See—*  
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- Hoffer, Temple P. Anchoring device. 2,885,007, 5-5-59, Cl. 166-136.
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- Hoffman, Carl H.: *See—*  
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- Wolf, Donald E., and Hoffman. 2,915,531.
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- Wright, Lemuel D., Skeegs, Wolf, and Hoffman. 2,915,398.
- Hoffman, Carl S., to General Motors Corp. Intake silencer. 2,869,670, 1-20-59, Cl. 181-35.
- Hoffman, Charles G. Apparatus for supporting hot air ducts and the like. 2,889,145, 6-2-59, Cl. 269-126.
- Hoffman, David B. Portable winch. 2,890,857, 6-16-59, Cl. 254-167.
- Hoffman, Edward A. Transformer mount. 2,907,542, 10-6-59, Cl. 248-221.
- Hoffman Electronics Corp.: *See—*  
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- Buie, James L., and De Witz. 2,919,437.
- Carlson, Richard G. 2,919,300.
- Cowan, Harold W. 2,907,963.
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- Dickson, Donald C., Jr. 2,893,904.
- Favors, Hollice A. 2,894,131.
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- Jahns, Edward R. 2,918,894.
- Knauss, Dalton L. 2,894,212.
- Marshall, James W., and Cowan. 2,897,499.
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- Regnier, Norman J., and Shaffer. 2,913,583.
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- Robuck, Edmund R., and Deininger. 2,914,733.
- Ross, Bernd. 2,919,386.
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- Stellmacher, Donald D. 2,906,938.
- Stellmacher, Donald D., and Danta. 2,899,563.
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- Williams, Frederic C., Kilburn, and Hoffman. 2,888,586.
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- Hoffman, James G. Adjustable sleeve mounted in soft material fastener to hard material. 2,883,012, 4-21-59, Cl. 189-36.
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- Hoffman, Joseph G., to United States of America. Navy. Automatic thyatron bias shift circuit. 2,916,631, 12-8-59, Cl. 250-214.
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- Hoffman, Thomas R.: *See*—  
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- Broich, Franz, Hoffmann, and List. 2,885,432.
- Goldberg, Moses W., and Scott. 2,894,958.
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- Bauernfeind, Jacob C., and Bunnell. 2,916,385.
- Brossi, Arnold, and Schnider. 2,877,226.
- Chase, George O., and Galender. 2,883,431.
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- Gardner, Thomas S., Lee, and Wenis. 2,908,688.
- Goldberg, Moses W., and Lehr. 2,874,190.
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- Grüssner, André, Hellerbach, and Schnider. 2,885,401.
- Guex, Waldemar, and Isler. 2,898,375.
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- Isler, Otto, Lindlar, Montavon, Ruegg, and Zeller. 2,870,197.
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- Kaiser, Solomon, and Kimmel. 2,877,271.
- Klaui, Heinrich. 2,871,261.
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- Klaui, Heinrich, and Moor. 2,874,058.
- Lindlar, Herbert, Montavon, and Ruegg. 2,870,212.
- Luthi, Hans. 2,908,574.
- Lutz, August H., and Schnider. 2,867,623.
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- Montavon, Marc, and Saucy. 2,902,515.
- Schnider, Otto, and Urban. 2,890,218.
- Schlapfer, Reinhard, and Spiegelberg. 2,881,160.
- Sternbach, Leo H. 2,893,992.
- Surmatis, Joseph D. 2,870,210.
- Wenner, Wilhelm. 2,881,173.
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- Hoffmann, Ulrich: *See*—  
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- Hoffström, Nils Å., and M. O. Eurenus,  $\frac{1}{2}$  to Svenska Skifferolje Aktiebolaget, and  $\frac{1}{2}$  to Husky Oil Co. Apparatus for recovering combustible substances from subterranean deposits in situ. 2,890,754, 6-16-59, Cl. 166-59.
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- Hofmann Industries, Inc.: *See*—  
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- Hofmann, Johannes: *See*—  
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- Hogan, William P.: *See*—  
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- Hogarth, Cyril A.: *See*—  
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- Hogberg, Ake O., and A. C. Neilson, to Riley Stoker Corp. Register. 2,869,625, 1-20-59, Cl. 158-1.5.
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- Hogg, John A.: *See*—Continued  
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- Hogsett, John N., to Union Carbide Corp. Complexes of 2-heptadecylimidazolines. 2,881,176, 4-7-59, Cl. 260-299.
- Hogsett, John N., to Union Carbide Corp. Complexes of 2-heptadecylimidazolines. 2,881,177, 4-7-59, Cl. 260-299.
- Hogsett, John N., to Union Carbide Corp. Complexes of 2-heptadecylimidazolines. 2,881,178, 4-7-59, Cl. 260-299.
- Hogsett, John N., to Union Carbide Corp. Complexes of 2-heptadecylimidazolines. 2,881,179, 4-7-59, Cl. 260-299.
- Hogsett, John N., to Union Carbide Corp. Complexes of 2-heptadecylimidazolines. 2,881,180, 4-7-59, Cl. 260-299.
- Hogsett, John N., to Union Carbide Corp. Complexes of 2-heptadecylimidazolines. 2,881,181, 4-7-59, Cl. 260-299.
- Hogsett, John N., to Union Carbide Corp. Complexes of 2-heptadecylimidazolines. 2,881,182, 4-7-59, Cl. 260-299.
- Hogue, Walter H. Apparatus for sharpening saws. 2,870,657, 1-27-59, Cl. 76-40.
- Hogue, Walter S.: *See*—  
Novak, Leo J., and Hogue. 2,914,414.
- Hohenfeldt, Elmer O. Trellis construction. 2,906,062, 9-29-59, Cl. 47-47.
- Hohenner, Werner W. Non-linear shock absorber. 2,902,273, 9-1-59, Cl. 267-1.
- Hohisel, Roland E.: *See*—  
Converse, Vernon G., III, Seymour, Hohisel, and Sabuda. 2,884,113.
- Hohl, John, to Owens-Illinois Glass Co. Feeder for closure cap sealing gaskets. 2,890,814, 6-16-59, Cl. 221-175.
- Hohl, John, to Owens-Illinois Glass Co. Method of and apparatus for packaging food products. 2,917,880, 12-22-59, Cl. 53-112.
- Hohl, John, and J. M. Wheaton, to Owens-Illinois Glass Co. Bottle and jar closing apparatus. 2,909,879, 10-27-59, Cl. 53-331.5.
- Hohl, John, and O. Bjering, to Owens-Illinois Glass Co. Machine for assembling and securing ring gaskets in closure caps. 2,915,029, 12-1-59, Cl. 113-80.
- Hohler, Frederick A.: *See*—  
Jessup, Wilbur F., and Hohler. 2,903,116.
- Hohlfeider, F. Co., The: *See*—  
Hohlfeider, Harvey F., and Reed. 2,879,565.
- Hohlfeider, Harvey F., and T. W. Reed, to The F. Hohlfeider Co. Double stem core chill. 2,879,565, 3-31-59, Cl. 22-174.
- Hohman, Ralph E., to The Babcock & Wilcox Co. Fluid fuel burner. 2,873,701, 2-17-59, Cl. 110-28.
- Hohman, Robert F. Devices for sorting of media. 2,890,798, 6-16-59, Cl. 211-11.
- Hohn, Hannsheinz: *See*—  
Spengler, Günter, and Hohn. 2,892,741.  
Spengler, Günter, and Hohn. 2,905,574.
- Höhn, Robert. Multi-strand, abrasion resistant electrical conductors. 2,892,880, 6-30-59, Cl. 174-8.
- Hohnacker, Otto, to Burroughs Corp. Dynamic disk-positioning apparatus. 2,903,266, 9-8-59, Cl. 274-39.
- Hohnstine, Jack T., J. A. Versocki, and F. L. Steckhahn, to American Home Products Corp. Simulated snow composition containing mineral filler. 2,894,928, 7-14-59, Cl. 260-33.8.
- Holberg, Arnold J., and C. E. Cowger, to Monsanto Chemical Co. Asphalt coating. 2,890,967, 6-16-59, Cl. 106-278.



- Hoiby, James C., and R. L. Westrum, to D. W. Ovan & Sons, Inc. Air conditioner for automotive vehicles and controls therefor. 2,869,333, 1-20-59, Cl. 62-239.
- Holer, Walter A., to The Cincinnati Milling Machine Co. Work handling and indexing mechanism. 2,914,890, 12-1-59, Cl. 51-215.
- Holer, Walter A., and J. R. Baker, to The Cincinnati Milling Machine Co. Automatic table positioning mechanism for grinders. 2,902,798, 9-8-59, Cl. 51-95.
- Hoisington, Richard L., to Burroughs Corp. Tape reeling apparatus. 2,868,473, 1-13-59, Cl. 242-72.
- Hoisve, Harold V.: *See—*  
Langen, Ole H., and Hoisve. 2,875,929.
- Hoiwik, Helen L. Process for making an ornamental article from a flower. 2,906,636, 9-29-59, Cl. 117-3.
- Hokama, Takeo: *See—*  
Bachman, Gustave B., and Hokama. 2,894,941.
- Hoke, Harry H., Jr. Coin dispensers. 2,877,776, 3-17-59, Cl. 133-4.
- Hoke, Howard L., to Dresser Industries, Inc. Conduit clamp. 2,897,568, 8-4-59, Cl. 24-279.
- Hoke Inc.: *See—*  
Salmon, Donald B., and Haynes. 2,900,201.
- Holahan, John L., to General Mills, Inc. Process for producing puckered and curled cereal flakes. 2,882,162, 4-14-59, Cl. 99-80.
- Holahan, Joseph M., Jr., to True Temper Corp. Fishing reel guard. 2,884,211, 4-28-59, Cl. 242-84.1.
- Holan, J. H., Corp.: *See—*  
Holan, James H., and Troche. 2,897,979.  
Troche, Herman J. 2,881,030.  
Troche, Herman J. 2,886,187.  
Troche, Herman J. 2,888,149.  
Troche, Herman J. 2,901,125.  
Troche, Herman J. 2,915,137.  
Troche, Herman J., and Holan. 2,891,383.  
Troche, Herman J., and Eckels. 2,919,035.
- Holan, James H.: *See—*  
Troche, Herman J., and Holan. 2,891,383.
- Holan, James H., and H. J. Troche, to J. H. Holan Corp. Portable boom. 2,897,979, 8-4-59, Cl. 212-8.
- Holben, Eugene F.: *See—*  
Brand, Warren H., and Holben. 2,870,387.
- Holbrook, Edward L., to Westinghouse Air Brake Co. Governor control apparatus. 2,867,199, 1-6-59, Cl. 123-140.
- Holbrook, George W., and P. L. Brown, to Dow Corning Corp. Fluoroalkylsilane diols. 2,915,544, 12-1-59, Cl. 260-448.2.
- Holbrook, Harold L. Restraining device. 2,912,977, 11-17-59, Cl. 128-134.
- Holbrook, John A., to Morgan Construction Co. Wire-drawing block. 2,868,359, 1-13-59, Cl. 205-20.
- Holbrook, Orrin C., and G. G. Bernard, to The Pure Oil Co. Secondary recovery of oil from reservoirs by successive precipitation. 2,903,065, 9-8-59, Cl. 166-9.
- Holbrook, Robert L.: *See—*  
Doerr, Richard L., and Holbrook. 2,904,390.
- Holbrook, Robert L., to Olin Mathieson Chemical Corp. Method of flame proofing cellulosic textile material with phosphorous trisocyanate or phosphoryl trisocyanate and products produced thereby. 2,898,180, 8-4-59, Cl. 8-116.
- Holbrook, Robert L., and R. L. Doerr, to Olin Mathieson Chemical Corp. Composition and process for crease- and wrinkle-proofing cellulosic textile material. 2,904,387, 9-15-59, Cl. 8-116.3.
- Holbrook, Robert L., and R. L. Doerr, to Olin Mathieson Chemical Corp. Composition and process for crease- and wrinkle-proofing cellulosic textile material. 2,904,388, 9-15-59, Cl. 8-116.3.
- Holby, Worrell H., to Hydra-Power Corp. Valve sealing structure. 2,910,267, 10-27-59, Cl. 251-332.
- Holcomb, Henry A., and R. M. Love, to Esso Research and Engineering Co. Starting up of reforming unit using platinum catalyst without extraneous hydrogen. 2,898,291, 8-4-59, Cl. 208-138.
- Holcomb & Hoke Mfg. Co., Inc.: *See—*  
Reynolds, Ralph W. 2,915,114.  
Reynolds, Ralph W. 2,915,115.
- Holcomb, James A.: *See—*  
Saunders, Seymour G., and Holcomb. 2,911,076.
- Holcomb, James E., to General Electric Co. Impulse testing. 2,890,410, 6-9-59, Cl. 324-54.
- Holcomb, Willis C. Sign. 2,872,750, 2-10-59, Cl. 40-125.
- Holcroft, Donald E., to Scott Paper Co. Silencer. 2,900,024, 8-18-59, Cl. 162-371.
- Hold Corp.: *See—*  
Fonken, William A. 2,877,815.
- Hold, Peter, to Farrel-Birmingham Co., Inc. Heat exchange roll. 2,875,985, 3-3-59, Cl. 257-95.
- Hold, Peter, to Farrel-Birmingham Co., Inc. Electrically heated roll for calenders or the like. 2,912,556, 11-10-59, Cl. 219-19.
- Holdaway, Vivian L., to Bell Telephone Laboratories, Inc. Gaseous discharge device. 2,891,188, 6-16-59, Cl. 313-151.
- Holdeman, Eugene J., and W. T. Green. Folding doors. 2,893,483, 7-7-59, Cl. 160-220.
- Holdeman, John W., and E. F. Farrell, to Borg-Warner Corp. Method of making a brake band. 2,887,771, 5-26-59, Cl. 29-418.
- Holdeman, John W., V. E. Masko, J. B. Polomski, and G. E. Whelpley, to Borg-Warner Corp. Transmission. 2,895,344, 7-21-59, Cl. 74-472.
- Holden, Artemas F. Salt bath furnaces. 2,880,986, 4-7-59, Cl. 266-4.
- Holden, Artemas F. Article treating apparatus. 2,916,131, 12-8-59, Cl. 198-19.
- Holden, Brian A., to Burgess Products Co. Ltd. Actuators for electrical switches. 2,898,428, 8-4-59, Cl. 200-172.
- Holden, Grenville R., and A. Schiff, to F. C. Huyck & Sons. Fourdrinier cloth. 2,903,021, 9-8-59, Cl. 139-383.
- Holden, James D., to C. J. Gaskell Co., Inc. Flame retention piloting device for gas burner. 2,901,033, 8-25-59, Cl. 158-116.
- Holden, Marguerite H.: *See—*  
Holden, Orloff W. 2,893,644.  
Holden, Orloff W. 2,908,519.
- Holden, Orloff W., to O. W. and M. H. Holden, d.b.a. Knickerbocker Rubber Co. Combination wall shower and shampoo spray. 2,893,644, 7-7-59, Cl. 239-282.
- Holden, Orloff W., to O. W. and M. H. Holden, d.b.a. Knickerbocker Rubber Co., Not Inc. Ball and socket joint. 2,908,519, 10-13-59, Cl. 287-87.
- Holden, Robert B., R. M. Powers, O. J. Blaber, deceased (by J. A. Blaber, administratrix), to United States of America, Atomic Energy Commission. Production of uranium metal by carbon reduction. 2,905,552, 9-22-59, Cl. 75-84.1.
- Holden, Thomas M., to Fleming & Sons, Inc. Paperboard armchair. 2,904,105, 9-15-59, Cl. 155-191.
- Holder, Clinton H., and W. M. Basch, to Esso Research and Engineering Co. Producing lubricating oils by solvent extraction. 2,867,583, 1-6-59, Cl. 208-327.
- Holder, Clinton H., and C. L. Read, to Esso Research and Engineering Co. Preparation of aromatic petroleum concentrate of reduced sulfur content. 2,911,354, 11-3-59, Cl. 208-96.
- Holder, Lorrain A. Combination seat and carrying bag. 2,915,154, 12-1-59, Cl. 190-8.
- Holder, Roy B., to H. E. Henegar. Miter guide. 2,911,017, 11-3-59, Cl. 143-6.
- Holderbaum, Charles E.: *See—*  
Persyn, David C., and Holderbaum. 2,879,007.
- Holderer, Oscar C. Clinometer. 2,906,032, 9-29-59, Cl. 33-214.
- Holderle, Frederick S., H. C. R., and N. F. W. Display case door. 2,872,266, 2-3-59, Cl. 312-138.
- Holderle, Frederick S., H. C. R., and N. F. W. Display case. 2,878,090, 3-17-59, Cl. 312-114.
- Holderle, Harvey C. R.: *See—*  
Holderle, Frederick S., H. C. R., and N. F. W. 2,872,266.  
Holderle, Frederick S., H. C. R., and N. F. W. 2,878,090.
- Holderle, Norbert F. W.: *See—*  
Holderle, Frederick S., H. C. R., and N. F. W. 2,872,266.  
Holderle, F. S., H. C. R., and N. F. W. 2,878,090.
- Holderreed, Francis L., and R. E. Sullivan to Anaconda Copper Mining Co., now by change of name to The Anaconda Co. Submerged flame evaporator. 2,867,972, 1-13-59, Cl. 159-16.
- "Hold-Heat" Products Corp.: *See—*  
Mundt, Diedrich E. 2,878,436.  
Mundt, Diedrich E. 2,889,429.
- Holding Electronsonic S. A.: *See—*  
Legrand, Roger. 2,878,403.
- Holdo, Jan K., to Atlas Copco Aktiebolag. Pneumatic percussion tools. 2,896,580, 7-28-59, Cl. 121-35.
- Holdrege, Charles T., to Bristol Laboratories Inc. Therapeutic agents. 2,882,273, 4-14-59, Cl. 260-294.
- Holdren Brothers, Inc.: *See—*  
Holdren, Donald R. 2,899,090.
- Holdren, Donald R., to Holdren Brothers, Inc. Vehicle unloading apparatus. 2,899,090, 8-11-59, Cl. 214-82.
- Holdstock, Norman G., to General Electric Co. Method for preparing chlorophenylchlorosilanes. 2,887,503, 5-19-59, Cl. 260-448.2.
- Holdsworth, John F. Button type fastening. 2,902,735, 9-8-59, Cl. 24-105.
- Holeproof Hosiery Co.: *See—*  
Baker, Paul W., and Wolff. 2,917,163.
- Holes, Wilbur W. Loose-leaf type transparent casing for advertising materials. 2,876,572, 3-10-59, Cl. 40-158.
- Holeton, Robert E., to United States of America, Atomic Energy Commission. Process for purifying crude perfluorocarbons. 2,879,228, 3-24-59, Cl. 208-310.
- Holicky, William F. Drain pipe connector. 2,893,212, 7-7-59, Cl. 61-11.
- Holiday, Harold C., 1/2 to Alton N. Parker. Boat-carrying trailer. 2,876,922, 3-10-59, Cl. 214-506.
- Holiday Line, Inc.: *See—*  
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- Holiman, William E.: *See—*  
Ward, Samuel J., Holiman, and Cross. 2,910,261.
- Holin, William F., to General Motors Corp. Railway vehicle suspension. 2,874,646, 2-24-59, Cl. 105-171.
- Holin, William F., to General Motors Corp. Railway vehicle truck. 2,878,760, 3-24-59, Cl. 105-193.
- Holin, William F., to General Motors Corp. Brake rigging for railway vehicle truck. 2,885,034, 5-5-59, Cl. 188-195.
- Holin, William F., to General Motors Corp. Brake rigging stabilizer. 2,911,073, 11-3-59, Cl. 188-205.
- Holker, Kenneth U., to Imperial Chemical Industries Ltd. Gas producing compositions. 2,904,420, 9-15-59, Cl. 52-5.



- Holl, Carl B. Flushing device. 2,908,915, 10-20-59, Cl. 4-249.
- Holl, James W. F. Torque actuated vehicle brake. 2,868,337, 1-13-59, Cl. 188-140.
- Holl, James W. F. Noninterflow rotary valve. 2,893,430, 7-7-59, Cl. 137-625.42.
- Hollabaugh, Max G., to Standard Coil Products Co., Inc. Digital recording system. 2,905,521, 9-22-59, Cl. 346-74.
- Holland, Albert. Attachment for a buttonhole stitching machine. 2,874,660, 2-24-59, Cl. 112-68.
- 12-1-59, Cl. 252-473.
- Holland, Charles W., Jr. Conveyor belt cleaner. 2,873,847, 2-17-59, Cl. 198-230.
- Holland Co.: *See*—  
 Carlson, Arthur H. 2,905,106.  
 Wulff, Cal W. 2,873,690.  
 Wulff, Cal W. 2,896,550.
- Holland, Edward T., Jr., to Cherry-Burrell Corp. Conveyor for cooling room. 2,911,802, 11-10-59, Cl. 62-382.
- Holland, Edward V., Jr.: *See*—  
 Williamson, Frederick B., Jr., and Holland. 2,890,900.
- Holland, John D. Cabinet weighing scale. 2,872,178, 2-3-59, Cl. 265-27.
- Holland, Joe B.: *See*—  
 Milea, Michael F., and Holland. 2,908,851.
- Holland, Julian. Combined stand holder. 2,877,582, 3-17-59, Cl. 40-125.
- Holland, Kenneth M., to California Reinforced Plastics Co., now by change of name to Hexcel Products Inc. Method of making rubber honeycomb product. 2,887,425, 5-19-59, Cl. 154-122.
- Holland, Leslie A., to Edwards High Vacuum Ltd. Cathodic sputtering of metal and dielectric films. 2,886,502, 5-12-59, Cl. 204-192.
- Holland, Milton D.: *See*—  
 McDonald, Julius M., King, and Holland. 2,885,931.
- Holland-Racine Shoes, Inc.: *See*—  
 Geuder, Lawrence J. 2,913,837.
- Hollander, Charles S.: *See*—  
 de Benneville, Peter L., and Hollander. 2,902,514.
- Hollander, Charles W. D., to Hoffmann-La Roche Inc. Racemization catalysts and preparation. 2,915,479.
- Hollander, Julius, and B. S. Sabreen. Cushion for artificial dentures and wax-gum composition therefor. 2,897,592, 8-4-59, Cl. 32-2.
- Hollander, Julius, and B. S. Sabreen. Cushion for artificial dentures and wax-plasticizer composition therefor. 2,897,593, 8-4-59, Cl. 32-2.
- Hollander, Louis P., and R. A. Schroth, to The Presray Corp. Material handling apparatus. 2,894,780, 7-14-59, Cl. 294-93.
- Hollander, Nils B. F., to Testor Chemical Co. Container for cultivating kernels and seeds. 2,879,627, 3-31-59, Cl. 47-1.2.
- Hollander, Nils B. F., to Testor Chemical Co. Container for cultivating kernels and seeds. 2,884,740, 5-5-59, Cl. 47-1.2.
- Hollingsworth, McFerrell, to McKinney Mfg. Co. Folding doors. 2,882,962, 4-21-59, Cl. 160-118.
- Hollingsworth, McFerrell, to McKinney Mfg. Co. Motor vehicle door hinge. 2,893,050, 7-7-59, Cl. 16-142.
- Hollingsworth, McFerrell, to McKinney Mfg. Co. Shelf-supporting bracket. 2,908,471, 10-13-59, Cl. 248-247.
- Hollar, Arthur W., Jr.: *See*—  
 Arlauskas, Alfonsas, and Hollar. 2,918,274.
- Hollar, John V., to The La Resista Corset Co. Brassiere. 2,869,554, 1-20-59, Cl. 128-498.
- Hollar, John V., to The La Resista Corset Co. Girdle. 2,869,555, 1-20-59, Cl. 128-533.
- Holle, Norbert G. T.: *See*—  
 Heath, Thomas D., and Holle. 2,867,526.
- Holle, Otto E. Seed planter shoe. 2,876,719, 3-10-59, Cl. 111-7.
- Holleen, Leonard F. Adjustable dock ramp. 2,908,024, 10-13-59, Cl. 14-71.
- Hollengreen, Milburn A., to Landis Tool Co. Internal grinding fixture. 2,909,013, 10-20-59, Cl. 51-166.
- Holler, Edward J., Jr., to Owens-Illinois Glass Co. Fluid dispensing ball applicator. 2,883,690, 4-28-59, Cl. 15-132.7.
- Holler, Hermann: *See*—  
 Baldus, Rudolf, and Holler. 2,914,846.
- Hollerbach, Aloys C.: *See*—  
 Hart, Peter M., and Hollerbach. 2,897,000.
- Hollerith, Charles, J. C. Flansburgh, and D. C. White, to Yard-Man, Inc. Self-propelled rotary mower. 2,918,775, 12-29-59, Cl. 56-25.4.
- Hollert, Paul. Individual wheel support for vehicles. 2,874,974, 2-24-59, Cl. 280-124.
- Holley Carburetor Co.: *See*—  
 Auch, Ernest M. 2,916,045.  
 Bettoni, Eugene C. 2,893,363.  
 Cornelius, George W. 2,868,182.  
 Cornelius, George W. 2,877,998.  
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- Holley Carburetor Co.: *See*—Continued  
 Goetz, Vincent A. 2,905,013.  
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 Karpis, Chester. 2,898,899.  
 Kerr, Fred S. 2,908,264.  
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 Quinby, Charles E. 2,884,917.  
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 Smitley, Marion L. 2,879,048.  
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 Udale, Stanley M. 2,900,969.
- Holley, George M., Jr., to Holley Carburetor Co. Fuel injection system. 2,871,845, 2-3-59, Cl. 123-139.
- Holley, George M., Jr., to Holley Carburetor Co. Fuel injection system. 2,890,691, 6-16-59, Cl. 123-140.
- Holley, George M., Jr., to Holley Carburetor Co. Automatic choke device. 2,917,294, 12-15-59, Cl. 261-39.
- Holley, George M., Jr., and A. G. De Claire, Jr., to Holley Carburetor Co. Fuel injection system. 2,886,023, 5-12-59, Cl. 123-140.
- Holley, Walter H., to McGarry and Cole Ltd. Staple driving mechanism. 2,872,683, 2-10-59, Cl. 1-49.
- Holliday, William C.: *See*—  
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- Hollihan, John P., Jr., J. A. Howsmon, and W. A. Sisson, to American Viscose Corp. Process of producing viscose rayon. 2,916,391, 12-8-59, Cl. 106-165.
- Hollingshead, R. M. Corp.: *See*—  
 Shibe, William J., Jr. 2,909,551.
- Hollingsworth, Eleanor: *See*—  
 Hollingsworth, Maurice H. 2,909,619.
- Hollingsworth, Jess C. Fire alarm. 2,907,014, 9-29-59, Cl. 340-232.
- Hollingsworth, John D. Carding rolls. 2,900,672, 8-25-59, Cl. 19-112.
- Hollingsworth, Maurice H., deceased; E. Hollingsworth, executrix. Improved hearing-aid. 2,909,619, 10-20-59, Cl. 179-107.
- Hollingsworth, Pierce, to Koppers Co., Inc. Couplings. 2,919,137, 12-29-59, Cl. 279-87.
- Hollingsworth, Richard L. Flush valve assembly. 2,879,520, 3-31-59, Cl. 4-56.
- Hollingsworth, R. Lee. Gating modulation. 2,907,956, 10-6-59, Cl. 332-41.
- Hollingsworth, R. Lee. Variable resistor. 2,907,970, 10-6-59, Cl. 338-151.
- Hollingsworth, Vernon O. Water closet flush guide. 2,909,786, 10-27-59, Cl. 4-56.
- Hollingsworth, Walter L. Window unit. 2,884,051, 4-28-59, Cl. 160-92.
- Hollins, Abraham: *See*—  
 Hollins, Jesse R. 2,891,118.  
 Hollins, Jesse R. and A. 2,886,743.
- Hollins, Jesse R., to A., J. R., and L. S. Hollins, and T. D. Davidson. Signal switch for automotive vehicles. 2,886,743, 5-12-59, Cl. 315-77.
- Hollins, Jesse R., to A., J. R. and L. S. Hollins, and T. D. Davidson. Automotive lighting and turn signaling systems. 2,891,118, 6-16-59, Cl. 200-61.54.
- Hollins, Jesse R., to Signal-Stat Corp. Turn signalling system. 2,892,996, 6-30-59, Cl. 340-81.
- Hollins, Jesse R., to Signal-Stat Corp. Flasher. 2,919,424, 12-29-59, Cl. 340-81.
- Hollins, Lewis S.: *See*—  
 Hollins, Jesse R. 2,886,743.
- Hollinshead, Percy C., and H. A. Clough. Cavity measuring instruments. 2,887,778, 5-26-59, Cl. 33-178.
- Hollis, Albert C., to B. U. Supplies & Machinery Co. Ltd. Machines for inserting packing material into bottles. 2,895,275, 7-21-59, Cl. 53-59.
- Hollis, Brooks S. Equipment hitch for vehicles. 2,871,030, 1-27-59, Cl. 280-492.
- Hollis, Clinton R., to International Paper Co. Delivery mechanism for automatic feeding, valving and sewing machines. 2,883,034, 4-21-59, Cl. 198-33.
- Hollis, Clinton R., and M. V. Smith. Fastening device. 2,913,797, 11-24-59, Cl. 24-253.
- Hollis, Jack L.: *See*—  
 Lancaster, Arthur M., and Hollis. 2,879,828.
- Hollis, John C., to Giddings & Lewis Machine Tool Co. Machine tool turret with bi-directional coupling. 2,888,843, 6-2-59, Cl. 74-814.
- Hollis, John C., to Morey Machinery Co., Inc. Draw toggles for spindle male tapers of milling and the like machines. 2,893,291, 7-7-59, Cl. 90-11.
- Hollis, Robert A.: *See*—  
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- Hollis, Robert H., to Abbott Laboratories. Treating poultry respiratory infections with erythromycin. 2,885,321, 5-5-59, Cl. 167-53.1.



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- Homa, Stephen W., and W. C. Lovelett, to John A. Roebling's Sons Corp. Handling equipment for spoolless cores. 2,886,193, 5-12-59, Cl. 214-130.
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- Homan, Jan D. H., to Organon Inc. Process for the removal of pyrogens from therapeutically active preparations with insoluble phosphate salts. 2,881,114, 4-7-59, Cl. 167-58.
- Homan, John F., T. H. Gewecke, and C. R. Broman, to Baxter Laboratories, Inc. Parenteral solution equipment. 2,893,678, 7-7-59, Cl. 248-311.
- Homan, Merle E.: *See*—  
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- Homan, Merle E., to International Business Machines Corp. Error checking apparatus. 2,901,675, 8-25-59, Cl. 317-140.
- Homan, Oris T.: *See*—  
 Alexander, James M., and Homan. 2,884,859.
- Home Curtain Corp.: *See*—  
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- Home Heating Devices, Inc.: *See*—  
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- Home Music Systems, Inc.: *See*—  
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- Homecrest Co.: *See*—  
 Bottemiller, Merton M., and Engelmann. 2,916,084.
- Homeier, Otto F., to United States Rubber Co. Molding press. 2,871,513, 2-3-59, Cl. 18-16.
- Homer, Horace H.: *See*—  
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- Homer, Howard J.: *See*—  
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- Homer, Howard J., and O. Cummins, to Union Carbide Corp. Gas plating with tin. 2,916,400, 12-8-59, Cl. 117-107.
- Homer Laughlin China Co., The: *See*—  
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 Knapp, George S. 2,903,121.
- Homer Mfg. Co., Inc., The: *See*—  
 Zimmer, Harold C. 2,881,901.
- Homestead Valve Mfg. Co.: *See*—  
 Dotter, John H., and Hulslander. 2,910,050.  
 Schuchman, Frederick E., and Norris. 2,908,030.
- Homeward Products Inc.: *See*—  
 Colburn, Earl E. 2,875,642.
- Homeyer, Arthur C.: *See*—  
 Lum, Walter O. 2,868,223.
- Homeyer, Bernhard: *See*—  
 Kruckenberg, Winfried, and Homeyer. 2,874,086.
- Homiak, Michael: *See*—  
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- Homier, Robert I., to American Metal Products Co. Driving gears and shaft supported in housing. 2,881,629, 4-14-59, Cl. 74-425.
- Homier, Robert I., to American Metal Products Co. Adjustable seat back. 2,915,111, 12-1-59, Cl. 155-14.
- Homma, Josef. Temperature responsive means. 2,908,896, 10-13-59, Cl. 340-227.
- Hommel, Hedwig: *See*—  
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- Hommer, Gordon H., to Tidewater Oil Co. Hydraulic fluid and its preparation. 2,892,854, 6-30-59, Cl. 260-404.
- Homola, Richard L. Serving fork. 2,873,522, 2-17-59, Cl. 30-129.
- Hompe, Robert W.: *See*—  
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- Hompe, Robert W., and R. B. Ferguson, to Smith, Kline & French Laboratories. Platform bumper. 2,890,880, 6-16-59, Cl. 267-1.
- Honan, Paul R.: *See*—  
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 Crane, William A., and Honan. 2,916,148.  
 Harlan, Avery S., and Honan. 2,887,228.
- Hondorp, Donald J. Starting block. 2,900,187, 8-18-59, Cl. 272-59.
- Hondropoulou, Marina: *See*—  
 Karatzas, Alexander, and Hondropoulou. 2,897,096.
- Honegger, Casper: *See*—  
 Egli, Gerhard. 2,911,012.
- Honegger, Eugene H. Method and apparatus for oil separation in refrigeration system. 2,900,801, 8-25-59, Cl. 62-84.
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- Honerkamp, Friedrich, F. J. Kurth, and R. S. Barlow, to Anemostat Corp. of America. Damper. 2,884,005, 4-28-59, Cl. 137-601.
- Honey, Eric M. O., to The Chloride Electrical Storage Co. Ltd. Process and apparatus for making electric batteries. 2,892,247, 6-30-59, Cl. 29-155.5.
- Honeycutt, B. Illene. Table storage rack. 2,886,387, 5-12-59, Cl. 311-89.
- Honeycutt, Earl M., to Sun Oil Co. Reforming straight-run naphtha. 2,867,576, 1-6-59, Cl. 208-65.



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- Honeycutt, Jerald M., to Esso Research and Engineering Co. Inorganic salt removal from oil-soluble sulfonates. 2,880,173, 3-31-59, Cl. 252—33.
- Honeyman, Lewis C. Fuel line controlled lock. 2,904,121, 9-15-59, Cl. 180—82.
- Honeyman, Robert B., to Morden Machines Co. Adjustment position indicator for longitudinally adjustable element. 2,876,443, 3-3-59, Cl. 340—282.
- Honeywell, Charles E., to Admiral Corp. Control apparatus. 2,872,536, 2-3-59, Cl. 200—18.
- Honeywell, Charles E., R. C. Carlson, and M. Wolf. Ultra high frequency tuner. 2,898,463, 8-4-59, Cl. 250—40.
- Hong, Tony, to United States Steel Corp. Method of pickling chromium-containing steel tubes. 2,895,856, 7-21-59, Cl. 134—3.
- Honholt, Knud A., and J. T. Walker. Combination ridge capping and ventilator for use on structures with pitched roofs. 2,868,104, 1-13-59, Cl. 98—42.
- Honich, Nicholas J. Variable speed cooling fan for motor vehicles. 2,889,719, 6-9-59, Cl. 74—752.
- Honig, Henry T. Strip casting machines. 2,891,660, 6-23-59, Cl. 199—1.
- Honing, Wilhelm: *See*—  
Pero, Johannes G., Wijnberg, and Honing. 2,901,658.
- Honing, Wilhelm, and J. A. Van der Kam, to North American Philips Co., Inc. Electric incandescent lamp. 2,916,650, 12-8-59, Cl. 313—276.
- Honn, Francis J.: *See*—  
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- Honn, Francis J., to Minnesota Mining and Mfg. Co. Composition comprising epoxide resin and trifluorochloroolefin copolymer and process of crosslinking same. 2,904,528, 9-15-59, Cl. 260—45.5.
- Honn, Francis J., to Minnesota Mining and Mfg. Co. Polytetrafluoroethylene and cobaltic oxide or cobaltic sulfide. 2,906,730, 9-29-59, Cl. 260—45.75.
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- Honnoré, Michel A. J.: *See*—  
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- Honolka, Walter, to Firma Bölkow Entwicklungen Kommanditgesellschaft. Electrical signal transmission. 2,870,257, 1-20-59, Cl. 179—1.5.
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- Honsberg, Werner, to Badische Anilin- & Soda-Fabrik Akt. Electrolytic cell. 2,872,403, 2-3-59, Cl. 204—220.
- Honsel, Carl. Bag-producing machine. 2,903,946, 9-15-59, Cl. 93—13.
- Hontalas, John M.: *See*—  
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- Hood, Frederick E. Spinnaker sails. 2,909,142, 10-20-59, Cl. 114—103.
- Hood, James C., Jr., and H. S. Preiser. Method and means for electrically isolating marine propellers. 2,892,503, 6-30-59, Cl. 170—173.
- Hood, John W., to H. Z. Corp. Cells for electro-chemical measurements. 2,870,078, 1-20-59, Cl. 204—195.
- Hood, Roger W.: *See*—  
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- Hood, William E., and C. G. Alt, to Carrier Corp. Air conditioning apparatus. 2,913,229, 11-17-59, Cl. 257—295.
- Hooe, Hunter E., to Royal McBee Corp. Punch and die mechanism. 2,874,776, 2-24-59, Cl. 164—50.
- Hoof Products Co.: *See*—  
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- Hoofe, William J., III. Sliding door lock. 2,883,227, 4-21-59, Cl. 292—140.
- Hoofe, William J., III. Sliding door lock. 2,886,961, 5-19-59, Cl. 70—97.
- Hooper, Charles F. Article holding and dispensing device. 2,911,104, 11-3-59, Cl. 211—54.
- Hoog, Han, and A. Schaafsma, to Shell Development Co. Olefins from cat-cracked cycle oil. 2,871,254, 1-27-59, Cl. 260—460.
- Hoogendonk, Johan W.: *See*—  
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- Hoogendoorn, Gilbert C. Central valve for pneumatic tire wheel. 2,900,007, 8-18-59, Cl. 152—415.
- Hoogestraat, Donald D. Portable wire reel. 2,890,005, 6-9-59, Cl. 242—96.
- Hoogland, E., zuschneidemaschinenfabrik: *See*—  
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- Hoogschagen, Jan, to Stamicarbon N.V. Process for recovering heavy hydrogen and heavy water. 2,908,554, 10-13-59, Cl. 23—210.
- Hook, Charles E.: *See*—  
Bosrock, George J., and Hook. 2,881,946.
- Hook, Melvin S.: *See*—  
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- Hooker Chemical Corp.: *See*—  
Baranauckas, Charles F., Blackwell, and Olmstead. 2,903,463.  
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Geering, Emil J. 2,900,394.  
Hildyard, Joseph M. 2,909,413.  
Osborne, Wesley M., Edge, and Johnston. 2,889,199.  
Rapson, William H. 2,871,097.  
Robitschek, Paul W., and Bean. 2,890,144.  
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Rosenberg, David S. 2,899,370.  
Rucker, John T. 2,908,723.  
Schloepfle, Blaine O., Marks, and Robitschek. 2,913,428.  
Shepard, Alvin F. 2,898,321.  
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- Hooker, Donald E., to R. T. Moloney, deceased, American National Bank and Trust Co. of Chicago, executor. Selective multi-section ball shutter. 2,882,057, 4-14-59, Cl. 273—125.
- Hooker Electrochemical Co.: *See*—  
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McBee, John C., Roberts, and Wilson. 2,908,710.  
Pernert, Earl C. 2,911,389.
- Hooker, George W., to Koppers Co., Inc. Polymerization process. 2,899,417, 8-11-59, Cl. 260—94.9.
- Hooker, John A. Baton twirler. 2,882,779, 4-21-59, Cl. 84—477.
- Hooker, Leland W.: *See*—  
Yeadon, Donald J., Hooker, and Garland. 2,899,994.
- Hooker, Philip O., to Arens Controls, Inc. Push-pull control. 2,871,719, 2-3-59, Cl. 74—503.
- Hooker, Roger M. Portable hoist for outboard motors. 2,892,555, 6-30-59, Cl. 214—75.
- Hooker, Stanley G., to Bristol Aero-Engines Ltd. Protective systems for gas turbine propulsion power plants. 2,912,822, 11-17-59, Cl. 60—39.09.
- Hookham, George. Goggle valve. 2,918,942, 12-29-59, Cl. 138—94.5.
- Hooks, Donald Q. Jar device for pumps. 2,876,993, 3-10-59, Cl. 255—27.
- Hoolim, Haar: *See*—  
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- Hooper, Brian E., to Sylvania Electric Products, Inc. Television receiver. 2,888,607, 5-26-59, Cl. 315—27.
- Hooper, Edward T., Jr., and J. J. Suozzi, to United States of America, Navy. All-magnetic audio amplifier system. 2,868,877, 1-13-59, Cl. 179—1.
- Hooper, Edward T., Jr., to United States of America, Navy. Full-wave magnetic amplifier. 2,907,946, 10-6-59, Cl. 323—89.
- Hooper, Fred L., to Cambridge Wire Cloth Co. Crimped connecting bars for woven wire conveyor belt. 2,885,164, 5-5-59, Cl. 245—6.
- Hooper, Irving R.: *See*—  
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- Hooper, John H. D., and D. T. McAllan, to The British Petroleum Co. Ltd. Motor fuels. 2,897,072, 7-28-59, Cl. 44—69.
- Hooper, William E., and Sons Co.: *See*—  
Santos, John R. L. 2,873,494.
- Hoopes, Harry P., and W. P. Riesenberger, to Fibreboard Paper Products Corp. Method for preheating cementitious insulating material. 2,900,109, 8-18-59, Cl. 222—1.
- Hoopes, Harry P., H. L. Weber, and J. R. Neal, Jr., to Fibreboard Paper Products Corp. Method of making calcareous-silicious insulating material. 2,904,444, 9-15-59, Cl. 106—78.
- Hoopes, Penrose R., to Scriptomatic, Inc. Duplicating machine. 2,913,979, 11-24-59, Cl. 101—134.5.
- Hoopes, Theodore R., to Thompson Products, Inc. Radial and longitudinal stress-absorbing suspension pivot. 2,882,079, 4-14-59, Cl. 287—85.
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- Hoosier Cardinal Corp.: *See*—  
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- Hooven, Frederick J. Phototypesetting. Re. 24,584, 1-6-59, Cl. 95-4.5.
- Hoover Ball & Bearing Co.: See—  
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Price, Clarence A., and Rupp. 2,869,571.
- Hoover, Charles D.: See—  
Jauch, Robert J., Kruckeberg, and Hoover. 2,882,534.
- Hoover, Charles O., to National Aluminate Corp. Petroleum refining. 2,889,195, 6-2-59, Cl. 208-285.
- Hoover, Charles O. Method of preventing corrosion of metallic petroleum refining apparatus and composition therefor. 2,913,406, 11-17-59, Cl. 208-257.
- Hoover, Charles W., Jr., to Bell Telephone Laboratories, Inc. Beam positioning system. 2,903,598, 9-8-59, Cl. 250-217.
- Hoover, Charles W., Jr. Scaler circuit. 2,904,679, 9-15-59, Cl. 250-27.
- Hoover Co., The: See—  
Carpenter, Kenneth L. 2,907,904.  
Coons, Curtis C. 2,894,274.  
Duff, Jack E. 2,867,833.  
Duff, Jack E. 2,867,836.  
Duff, Jack E. 2,881,465.  
Duff, Jack E. 2,885,223.  
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- Hoover, Edward F.: See—  
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- Hoover Electronics Co.: See—  
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- Hoover, Kenneth H., to R. J. Reynolds Tobacco Co. Cigarette paper. 2,886,042, 5-12-59, Cl. 131-15.
- Hoover, Martin L.: See—  
Emerson, Marvin R., and Hoover. 2,885,602.
- Hoover, Michael C., F. S. Smith, and L. A. Kaufman, to Mandrel Industries, Inc. Vertical descent mating pan lemon feeder. 2,908,375, 10-13-59, Cl. 198-33.
- Hoover Products, Inc.: See—  
Williams, Robert J. 2,877,587.
- Hoover, Thomas B., to United States of America, Atomic Energy Commission. Process of coating with nickel by the decomposition of nickel carbonyl. 2,881,094, 4-7-59, Cl. 117-107.
- Hoover, Thomas B., and T. E. Zava, to United States of America, Atomic Energy Commission. Nickel plating process. 2,886,468, 5-12-59, Cl. 117-107.
- Hoover, Vaino A. Adjustable end fitting for mechanical actuator. 2,869,386, 1-20-59, Cl. 74-424.8.
- Hope, Alfred P. System for moving liquids. 2,895,450, 7-21-59, Cl. 119-14.05.
- Hope, James. Buttons. 2,901,796, 9-1-59, Cl. 24-108.
- Hope, Norris, and C. A. Stearn. Toy. 2,896,802, 7-28-59, Cl. 214-338.
- Hope, Robert A., and J. R. Walker. Shake or shingle panels. 2,895,181, 7-21-59, Cl. 20-5.
- Hope Rubber Co., Inc.: See—  
Poeschl, Rudolf. 2,883,871.
- Hopengarten, Abram: See—  
Wolfe, Paul G., and Hopengarten. 2,898,512.
- Hopfeld, Fred P., to Grand Specialties Co. Lifting and stacking trucks. 2,885,961, 5-12-59, Cl. 103-38.
- Hopfeld, Fred P., to Grand Specialties Co. Drum handling lift truck. 2,905,347, 9-22-59, Cl. 214-654.
- Hopff, Heinrich: See—  
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- Hopff, Heinrich, to J. R. Geigy A.-G. Stabilization of chlorine containing polymers with (epoxyethyl) benzenes. 2,887,465, 5-19-59, Cl. 260-45.8.
- Hopff, Heinrich, von Schickh, and H.-J. Riedl, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of oximes. 2,903,482, 9-8-59, Cl. 260-566.
- Höpfner, Konrad, and E. Götte, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Masticating and softening agent for rubber and a process of making the same. 2,895,933, 7-21-59, Cl. 260-23.7.
- Höpfner, Konrad, and E. Götte, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Aqueous lubricant composition. 2,902,449, 9-1-59, Cl. 252-33.4.
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- Hopgood, Robert B., to The Eylet Specialty Co. Cosmetic container. 2,896,778, 7-28-59, Cl. 206-56.
- Hopkes, Henry, Jr., to No-Sag Spring Co. Bed frame. 2,908,918, 10-20-59, Cl. 5-200.
- Hopkins, Cecil. Tobacco wheel conveyor and stringing rack. 2,919,040, 12-29-59, Cl. 214-5.5.
- Hopkins, Cecil L. Liquid applicator device. 2,872,694, 2-10-59, Cl. 15-139.
- Hopkins, Celestin J. Power operated clipping shears. 2,911,716, 11-10-59, Cl. 30-228.
- Hopkins, Charles H.: See—  
Wood, Joseph F., and Hopkins. 2,878,109.
- Hopkins, Earl V.: See—  
Elfvig, Thore M., and Hopkins. 2,874,554.
- Hopkins, Earl V. Lading strap anchor supports for refrigerator cars. 2,914,004, 11-24-59, Cl. 105-423.
- Hopkins, Earl V., and G. F. Oakley, said Oakley assor. to MacLean-Fogg Lock Nut Co. Lading strap anchor supports for refrigerator cars. 2,911,924, 11-10-59, Cl. 105-369.
- Hopkins, Frank L., to Bemis Bro. Bag Co. Bag holding device for filling machine. 2,890,006, 6-9-59, Cl. 248-101.
- Hopkins, Frank L., and R. H. Ayres, to Bemis Bros. Bag Co. Container filling and weighing machine. 2,889,031, 6-2-59, Cl. 198-39.
- Hopkins, Frank L., and R. H. Ayres, to Bemis Bro. Bag Co. Fluid pressure operated device for auger feeding granular or powdered material. 2,913,145, 11-17-59, Cl. 222-16.
- Hopkins, Harold H., and L. R. Baker, to National Research Development Corp. Apparatus and methods for testing optical systems, lenses and the like. 2,878,722, 3-24-59, Cl. 88-56.
- Hopkins, Harvey C., to King Container Corp. Container end closure. 2,903,173, 9-8-59, Cl. 229-5.5.
- Hopkins, Horace H., Jr.: See—  
Beede, Ray L., and Hopkins. 2,913,307.
- Hopkins, Horace H., Jr., to United States of America, Atomic Energy Commission. Solubilization of actinide metal-containing slag. 2,898,186, 8-4-59, Cl. 23-14.5.
- Hopkins, Isaac N. Toothbrush with paste tube holder. 2,879,531, 3-31-59, Cl. 15-105.
- Hopkins, John J., and J. H. Kuck, to United States of America, Navy. Grid-coupled oscillator for proximity fuze use. 2,911,639, 11-3-59, Cl. 343-7.
- Hopkins, John P. Utilities island for kitchens. 2,897,330, 7-28-59, Cl. 219-19.
- Hopkins, John P. Apparatus for loading motorized earth scrapers. 2,910,789, 11-3-59, Cl. 37-115.
- Hopkins, Kenneth W.: See—  
Hutchison, William M., and Hopkins. 2,894,475.
- Hopkins, Neil E.: See—  
Kuehner, Richard L., and Hopkins. 2,876,507.
- Hopkins, Neil E., to Borg-Warner Corp. Electrical refrigerating device. 2,881,594, 4-14-59, Cl. 62-3.
- Hopkins, Norris E. Bath tub accessory. 2,899,688, 8-18-59, Cl. 4-185.
- Hopkins, Ralph E. Food cooking device. 2,895,405, 7-21-59, Cl. 99-341.
- Hopkins, Robert P., to Rohm & Haas Co. Method of producing granular compositions of acrylate salt, sand, and clay and product resulting therefrom. 2,871,204, 1-27-59, Cl. 260-2.2.
- Hopkins, Robert P., to Rohm & Haas Co. Method of thickening aqueous dispersions with a divalent metal acrylate and product thereof. 2,875,166, 2-24-59, Cl. 260-29.16.
- Hopkins, Ronald S.: See—  
Flood, John E., and Hopkins. 2,897,279.  
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- Hopkins, Ronald S., to Siemens Edison Swan Ltd. Automatic telephone exchange systems. 2,897,282, 7-28-59, Cl. 179-18.
- Hopkins, Thomas R.: See—  
Francis, William C., and Hopkins. 2,876,218.
- Hopkins, Thomas R., and J. W. Pullen, to Spencer Chemical Co. 4-halo-2-butynyl N-(3-halophenyl) carbamates and use for controlling oats. 2,906,614, 9-29-59, Cl. 71-2.6.
- Hopkins, William C.: See—  
Wilson, Lucius H., Hopkins, and Stafiej. 2,909,514.
- Hopkins, William C., and J. G. Senese, Jr., to American Cyanamid Co. Liquid rosin sizes containing anti-stratifying agent. 2,873,103, 2-10-59, Cl. 106-238.
- Hopkinson, David B.: See—  
Anderson, Gordon C., and Hopkinson. 2,898,729.  
Hill, Clarence W., and Hopkinson. 2,870,597.
- Hopp, Philip, to The Hopp Press Inc. Display card. 2,882,625, 4-21-59, Cl. 40-16.
- Hopp Press Inc., The: See—  
Hopp, Philip. 2,882,625.
- Hopp, Robert E., to Simplan Corp. of America. Duplicating printing and punching machine. 2,909,221, 10-20-59, Cl. 164-111.
- Hoppe, Alfred, and H. Franz, to Edeleanu Gesellschaft m.b.H. Process for the dewaxing of oils. 2,889,260, 6-2-59, Cl. 208-25.
- Hoppe, Alfred, and H. Franz, to Edeleanu Gesellschaft M.B.H. Urea dewaxing of hydrocarbon oils. 2,907,708, 10-6-59, Cl. 208-25.
- Hoppe, Alfred, H. Franz, K. Meliss, and R. Gutberlet, to Edeleanu Gesellschaft m.b.H. Process for the separation of N-paraffins from hydrocarbon oils. 2,917,447, 12-15-59, Cl. 208-25.
- Hoppe, Alfred G., and E. F. Reinke. Vehicle for highway and railway use. 2,915,989, 12-8-59, Cl. 105-215.
- Hoppe, Boris. High-low extension table construction. 2,883,248, 4-21-59, Cl. 311-39.
- Hoppe, Georg, E. Siebert, and E. Waldkötter, to Siemens-Schuckertwerke Akt. Dry rectifier and method for its manufacture. 2,877,395, 3-10-59, Cl. 317-234.



- Hoppe, Georg, and E. Nitsche, to Siemens-Schuckertwerke Akt. Method of producing selenium rectifiers. 2,887,411, 5-19-59, Cl. 117-200.
- Hoppe, George D.: *See*—  
Hoppe, Wilma L. A. 2,870,463.
- Hoppe, James O.: *See*—  
Archer, Sydney, and Hoppe. 2,895,988.
- Hoppe, Otto F., and H. R. Ruhr, to United Shoe Machinery Corp. Welt shoe sewing machines. 2,868,148, 1-13-59, Cl. 112-46.
- Hoppe, Peter: *See*—  
Müller, Karl E., and Hoppe. 2,913,425.
- Hoppe, Peter,  $\frac{1}{2}$  to Farbenfabriken Bayer Akt., and  $\frac{1}{2}$  to Mobay Chemical Co. Process of producing composite or coated articles comprising foamed plastics and covering layers. 2,893,063, 7-7-59, Cl. 18-60.
- Hoppe, Peter and H. W. Pafrath,  $\frac{1}{2}$  to Farbenfabriken Bayer Aktiengesellschaft, and  $\frac{1}{2}$  to Mobay Chemical Co. Process for producing composite structures comprising rigid polyurethane foams and covering layers. 2,903,380, 9-8-59, Cl. 117-75.
- Hoppe, William, to Package Machinery Co. Wrapping machines. 2,878,629, 3-24-59, Cl. 53-51.
- Hoppe, William, and J. Kramer, to Package Machinery Co. Wrapping machine folding channel side wall and conveyor mounting means. 2,900,777, 8-25-59, Cl. 53-223.
- Hoppe, Wilma L. A., 40% to G. D. Hoppe. Anchor blanket. 2,870,463, 1-27-59, Cl. 5-334.
- Hopper, Allen O., to Turbine Equipment Co. System for extracting liquid from solids, such as metal chips. 2,906,466, 9-29-59, Cl. 241-34.
- Hopper, Cecil M., and R. B. Richards, to International Salt Co. Method and apparatus for treating salts. 2,876,182, 3-3-59, Cl. 204-99.
- Hopper, Francis C., and M. Naps, to Shell Development Co. Epoxy resin adhesive composition, their preparation, and tape containing same. 2,915,490, 12-1-59, Cl. 260-37.
- Hopper, Lucien L., Jr.: *See*—  
Goldblatt, Leo A., and Hopper. 2,884,330.
- Hopponen, Leo, deceased, by M. Hopponen, executrix. Wind-shield wiper system. 2,896,245, 7-28-59, Cl. 15-253.
- Hopponen, Mabel: *See*—  
Hopponen, Leo. 2,896,245.
- Horacek, Mark W. Holy water sprinkler holder. 2,892,607, 6-30-59, Cl. 248-313.
- Horak, Hobbs H. Valveless inlet for pulse jet. 2,912,821, 11-17-59, Cl. 60-35.6.
- Horelois, Raymond J.: *See*—  
Jacob, Robert M., and Horelois. 2,882,274.  
Jacob, Robert M., and Horelois. 2,905,668.  
Jacob, Robert M., Horelois, and Suau. 2,908,683.
- Horelois, Raymond J., to Societe des Usines Chimiques Rhone-Poulenc. Phenthiazine derivatives and processes for their preparation. 2,902,484, 9-1-59, Cl. 260-243.
- Horelois, Raymond J., to Societe des Usines Chimiques Rhone-Poulenc. Phenthiazine derivatives. 2,902,485, 9-1-59, Cl. 260-243.
- Hordern, Mason and Edwards Ltd.: *See*—  
Burton, Thomas H. 2,880,622.
- Hordosi, Theodore L.: *See*—  
Hansen, Lloyd D., and Hordosi. 2,895,104.
- Horecky, Stanley. Device for measuring and for regulating moisture content of soil or the like. 2,906,952, 9-29-59, Cl. 324-65.
- Horeczy, Joseph T., and E. F. Wadley, to Esso Research and Engineering Co. Removal of oxygenated compounds from naphtha. 2,900,403, 8-18-59, Cl. 260-450.
- Horelick, Arnold L.: *See*—  
Fox, Arnold M., and Horelick. 2,898,565.
- Horelick, Samuel, and J. J. Zimsky, to McGraw-Edison Co. Wound-type core for a transformer or the like. 2,908,879, 10-13-59, Cl. 336-210.
- Horgan, George D., to American Machine & Foundry Co. Cigarette rod cutter. 2,886,083, 5-12-59, Cl. 146-101.
- Horgan, George D., to American Machine & Foundry Co. Defective article rejector. 2,905,319, 9-22-59, Cl. 209-74.
- Horgan, Thomas B., to Arco Mfg. Corp. Radio frequency amplifier and converter. 2,894,126, 7-7-59, Cl. 250-20.
- Horgan, Thomas B., to Arco Mfg. Corp. Detector employing radiant energy transmission. 2,903,582, 9-8-59, Cl. 250-27.
- Hori, Tatsuo, to General Electric Co. Paper-stacking device. 2,867,438, 1-6-59, Cl. 271-24.
- Horie, Tomohiro. Process for producing grinding materials. 2,876,085, 3-3-59, Cl. 51-296.
- Horiuchi, Harold S.: *See*—  
Rayburn, Charles C., and Horiuchi. 2,903,634.
- Horiuti, Juro, T. Sato, and K. Ishizuka. Process for the manufacture of hydrogen cyanide. 2,889,201, 6-2-59, Cl. 23-151.
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Campbell, Neva L., and Vickery. 2,880,060.  
Cunningham, George L. 2,867,568.  
Cunningham, George L. 2,880,147.  
Cunningham, George L. 2,885,265.  
Fotland, Richard A. 2,885,521.  
Harman, Cameron G. 2,898,192.  
Mayer, Edward F. 2,912,592.  
Mayer, Edward F., and Straughan. 2,878,120.  
Owens, Lloyd. 2,886,434.
- Horizons Inc.: *See*—Continued  
Vickery, Ronald C. 2,885,266.  
Vickery, Ronald C. 2,899,292.  
Vickery, Ronald C. 2,914,380.  
Wagner, Frank C. 2,875,510.  
Wainer, Eugene. 2,883,282.  
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Wagner, Frank C. 2,908,966.  
Wagner, Frank C. 2,908,969.  
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- Horizons Titanium Corp.: *See*—  
Arnoff, Milton J. 2,887,356.  
Burwell, John T., Jr., and McKenna. 2,876,180.  
Carlton, Stuart S. 2,868,704.  
Carlton, Stuart S., and Raynes. 2,880,149.  
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Wainer, Eugene. 2,886,703.  
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- Horlacher, Harry W., Jr., to The Taylor-Winfield Corp. Terminal welding and staking machine. 2,892,920, 6-30-59, Cl. 219-79.
- Horland, Richard. Multiple condiment dispensing unit. 2,890,816, 6-16-59, Cl. 222-142.3.
- Horland, Richard. Pill dispensing unit. 2,917,162, 12-15-59, Cl. 206-42.
- Horman, Harold, and E. Rondthaler. Phototypographic machine. 2,887,024, 5-19-59, Cl. 95-4.5.
- Horman, Harold A.: *See*—  
Rondthaler, Edward, and Horman. 2,890,634.
- Hörmann, Erich: *See*—  
Baffrey, Anton R., Hofmeir, Schmidt, and Hörmann. 2,895,034.
- Hormel, Geo. A., & Co.: *See*—  
Lindstrom, Oscar H., and Wandas. 2,914,795.  
Murphy, Laurence W. 2,895,164.
- Horn, Arno, and H. Langner, to Siemens & Halske Akt. Telephone pay station comprising coin counting device for different call rates. 2,867,689, 1-6-59, Cl. 179-6.3.
- Horn, Arno, H. Langner, and M. Müller, to Siemens & Halske Akt. Coin return in telephone pay stations. 2,897,271, 7-28-59, Cl. 179-6.3.
- Horn, Charles H.: *See*—  
Walker, James H., Carr, and Horn. 2,898,825.
- Horn, Charles L.: *See*—  
Reed, Cortes F. 2,898,188.
- Horn, Christian F.: *See*—  
Young, Donald M., Hostettler, and Horn. 2,890,208.
- Horn, Fordyce H., to General Electric Co. Growth of uniform composition semiconductor crystals. 2,904,512, 9-15-59, Cl. 252-62.3.
- Horn, Fritz A., to Ruhrgas Akt. Method of and device for recovering energy when cooling compressed gases in heat exchangers. 2,875,589, 3-3-59, Cl. 62-87.
- Horn, Hans, to International Minerals & Chemical Corp. Activation of lime. 2,869,987, 1-20-59, Cl. 23-186.
- Horn, Heinz, to Felten & Guillaume Carlswerk Akt. Deep sea submarine cable. 2,873,307, 2-10-59, Cl. 174-102.
- Horn, Heinz, to Firma Norddeutsche Seekabelwerke Akt. Plug arrangement for coaxial cables. 2,886,627, 5-12-59, Cl. 174-22.
- Horn, Henry M., to United Aircraft Corp. Propeller pitch control system. 2,868,304, 1-13-59, Cl. 170-160.2.
- Horn, Henry S., to W. C. Horn, Bro. & Co. Transparent display and filing device. 2,888,933, 6-2-59, Cl. 129-20.
- Horn, James A., to Western Electric Co., Inc. Overload release devices. 2,869,453, 1-20-59, Cl. 100-282.
- Horn, John M., to The John M. Horn Lumber Co. Cut-off gauge. 2,890,729, 6-16-59, Cl. 143-168.
- Horn, John M., Lumber Co., The: *See*—  
Horn, John M. 2,890,729.
- Horn, Josef, and K. Jöns, to Keuffel & Esser Co. Combined exposing and developing apparatus for photoprints. 2,907,259, 10-6-59, Cl. 95-77.5.
- Horn, Knud S. Two-step method of making calcium oxide from calcium sulfate. 2,901,321, 8-25-59, Cl. 23-186.
- Horn, Merl E., to Westinghouse Electric Corp. Metal-enclosed switchgear. 2,883,483, 4-21-59, Cl. 200-50.
- Horn, Peter, to P. Ballantine & Sons. Apparatus for handling materials. 2,880,030, 3-31-59, Cl. 294-65.
- Horn, Robert A.: *See*—  
Wolfe, William E., and Horn. 2,887,667.
- Horn, Thelma P. Garment stays. 2,912,983, 11-17-59, Cl. 128-469.
- Horn, Thurman W. Power transmitting drive embodying friction clutch. 2,915,156, 12-1-59, Cl. 192-41.
- Horn W. C. Bro. & Co.: *See*—  
Horn, Henry S. 2,888,933.
- Horn, William E.: *See*—  
Garbuny, Max, and Horn. 2,879,424.
- Hornak, John N., and W. M. Thatcher, to United States Steel Corp. Vacuum casting apparatus. 2,885,751, 5-12-59, Cl. 22-73.
- Hornbeck, Donald W., to Gard Products, Inc. Highway marker. 2,905,134, 9-22-59, Cl. 116-63.
- Hornberger, Carl S., Jr., to E. I. du Pont de Nemours and Co. Alpha-lipoic acid process. 2,877,235, 3-10-59, Cl. 260-32.1.



- Hornberger, Clarence L., to Armstrong Cork Co. Pressure mechanism for wood grinders and the like. 2,918,224, 12-22-59, Cl. 241-282.
- Hornbostel, Lloyd, to Beloit Iron Works. Lubrication system. 2,867,481, 1-6-59, Cl. 308-187.
- Hornbostel, Lloyd, to Beloit Iron Works. Stream flow valve. 2,869,817, 1-20-59, Cl. 251-133.
- Hornbostel, Lloyd, to Beloit Iron Works. Apparatus for coating. 2,874,674, 2-24-59, Cl. 118-113.
- Hornbostel, Lloyd, to Beloit Iron Works. Suction press assembly utilizing a press roll having a wire mesh periphery. 2,888,074, 5-26-59, Cl. 162-306.
- Hornbostel, Lloyd, to Beloit Iron Works. Paper machine dryer. 2,892,263, 6-30-59, Cl. 34-120.
- Hornbostel, Lloyd, to Beloit Iron Works. Table roll and deflector suction device. 2,900,023, 8-18-59, Cl. 162-352.
- Hornbostel, Lloyd, to Beloit Iron Works. Drum drier mechanism. 2,909,849, 10-27-59, Cl. 34-124.
- Hornbostel, Lloyd, to Beloit Iron Works. Press section. 2,911,040, 11-3-59, Cl. 162-305.
- Hornbostel, Lloyd, E. D. Beachler, and D. A. Ely, to Beloit Iron Works. Paper machine press section. 2,869,437, 1-20-59, Cl. 92-49.
- Hornbostel, Lloyd, and E. D. Beachler, to Beloit Iron Works. Air bleed press with hot gas drying. 2,907,690, 10-6-59, Cl. 162-206.
- Hornbostel, Lloyd, and E. J. Justus, to Beloit Iron Works. Dryer section arrangement for paper machines. 2,909,847, 10-27-59, Cl. 34-111.
- Hornbostel, Lloyd, and E. J. Justus, to Beloit Iron Works. Fourdrinier wire testing apparatus. 2,910,863, 11-3-59, Cl. 73-86.
- Hornbostel, Lloyd, and E. J. Justus, to Beloit Iron Works. Paper machine forming section. 2,911,039, 11-3-59, Cl. 162-303.
- Horne, James K., to Minneapolis-Honeywell Regulator Co. Solenoid valve. 2,890,015, 6-9-59, Cl. 251-130.
- Horne, James Q., Jr. Justifying means for printers. 2,887,941, 5-26-59, Cl. 95-85.
- Horne, John E., to Electronic Teaching Laboratories. Recording and reproducing apparatus for teaching languages. 2,876,561, 3-10-59, Cl. 35-35.
- Horne, Robert J. Centrifugal seals. 2,886,350, 5-12-59, Cl. 286-9.
- Horne, William A.: See—  
Beuther, Harold, Horne, and Montgomery. 2,904,500.
- Henke, Alfred M., and Horne. 2,902,111.
- Horne, William A., and C. W. Montgomery, to Gulf Research & Development Co. Hydrodesulfurization catalyst and method of preparation. 2,913,421, 11-17-59, Cl. 252-441.
- Horner, George J. Roll up truck body cover with telescoping guides having adjustable mountings. 2,898,147, 8-4-59, Cl. 296-98.
- Hornher, Herbert F., Jr., to Toro Mfg. Corp. Lawn trimmer and edger. 2,877,617, 3-17-59, Cl. 56-25.4.
- Horner, Hugh: See—  
Miskel, John J., Horner, and Kalnin. 2,873,886.
- Horner, Hugh, and J. A. Lott, to Chas. Pfizer & Co., Inc. Multi-partitioned container. 2,883,098, 4-21-59, Cl. 229-28.
- Hornor, Leonard L., Jr., and J. L. Cross, to I-T-E Circuit Breaker Co. Remote control circuit and component. 2,901,686, 8-25-59, Cl. 323-114.
- Hörner, Otto, to Siemens & Halske Akt. Conference circuit in two-way communication system with four-wire operation. 2,871,291, 1-27-59, Cl. 179-1.
- Hornbrook, Walter J., to E. I. du Pont de Nemours and Co. Resinous coating composition, method of preparing and method of coating with same. 2,918,391, 12-22-59, Cl. 117-75.
- Hornickel, Robert R.: See—  
Austin, Harry W., and Hornickel. 2,910,702.
- Hornickel, Robert R., to Mine Safety Appliances Co. Device for protecting ears from noise. 2,883,671, 4-28-59, Cl. 2-209.
- Hornickel, Robert R., and J. R. Fisher, to Mine Safety Appliances Co. Protective helmet with shock absorbing suspension. 2,879,513, 3-31-59, Cl. 2-3.
- Hornickel, Robert R., and H. R. Barnett, to Mine Safety Appliances Co. Device for protecting ears from noise. 2,883,672, 4-28-59, Cl. 2-209.
- Hornig, Donald F., and G. E. Hyde. Ratio measurement apparatus. 2,896,165, 7-21-59, Cl. 324-140.
- Horning, Frederick P., to Allied Materials Corp. Compositions containing coal tar and a polysulfide polymer and pavement sealed therewith. 2,910,922, 11-3-59, Cl. 94-18.
- Horning, James W., 20% to F. Talarico, 20% to R. B. Jadwin, 20% to A. P. Wells, and 20% to A. A. Frangell. Parachute. 2,919,085, 12-29-59, Cl. 244-142.
- Horning, Raymond H., and I. L. Wilcox, to Sealright-Oswego Falls Corp. Liquid tight container with fibrous side wall. 2,874,888, 2-24-59, Cl. 229-5.6.
- Horning, Wendell A., D. D. Lanning, and D. J. Donahue, to United States of America, Atomic Energy Commission. Neutronic reactor fuel element. 2,907,706, 10-6-59, Cl. 204-193.2.
- Hornke, William L. Luggage carrier for automobiles. 2,914,231, 11-24-59, Cl. 224-42.1.
- Hörnle, Reinhold: See—  
Raab, Hans, and Hörnle. 2,902,385.
- Hornsby, John W., J. B. Letherbury, and M. E. Willis, to New York Shipbuilding Corp. Method of operating an off-shore working platform. 2,892,314, 6-30-59, Cl. 61-46.5.
- Hornsby, Vivian D., to The F. C. Thornton Co. Lever closing ring for containers. 2,905,496, 9-22-59, Cl. 292-256.69.
- Hornsbruch, Hanns, to Ingersoll-Rand Co. Centrifugal blower. 2,876,946, 3-10-59, Cl. 230-127.
- Hornung, Stephen A., to Otis Elevator Co. Closure operator control mechanism. 2,918,144, 12-22-59, Cl. 187-48.
- Horny, Charles, and M. Guinet, to Office National d'Etudes et de Recherches Aeronautiques. Methods of preparing synthetic organo silicon bromides. 2,888,477, 5-26-59, Cl. 260-448.2.
- Horny, Charles, and M. Guinet, to Office National d'Etudes et de Recherches Aeronautiques. Methods of preparing synthetic organo silicon chlorides. 2,889,350, 6-2-59, Cl. 260-448.2.
- Horowitz, Carl: See—  
Mendelsohn, Meyer, and Horowitz. 2,872,362.
- Horowitz, Harry, and A. Schneiderman. Toy hand grenade. 2,897,630, 8-4-59, Cl. 46-196.
- Horowitz, Irving, to U. V. Mfg. Corp. High-voltage and impulse supply system. 2,906,918, 9-29-59, Cl. 315-27.
- Horowitz, Isadore. Bolted type corner fittings. 2,885,233, 5-5-59, Cl. 287-54.
- Horowitz, Isadore, to Universal Mfg. Co., Inc. Corner fittings. 2,904,359, 9-15-59, Cl. 287-54.
- Horowitz, Isadore, to Universal Mfg. Co., Inc. Playground rocker. 2,907,570, 10-6-59, Cl. 272-56.
- Horowitz, Leopold A., and R. W. Sonnenfeldt, to Radio Corp. of America. Negative resistance oscillator. 2,872,580, 2-3-59, Cl. 250-36.
- Horowitz, Leopold A., and G. C. Hermeling, Jr., to Radio Corp. of America. Tuned amplifier neutralization system. 2,902,546, 9-1-59, Cl. 179-171.
- Horowitz, Sidney, to Inventions Assn., Inc. Bedpan vehicle. 2,899,694, 8-18-59, Cl. 5-90.
- Horrell, Theodore H., to Fairchild Engine and Airplane Corp. Aircraft heating system. 2,869,535, 1-20-59, Cl. 126-110.
- Horrigan, Daniel L., to Western Reserve University. Hypochromic anemia factor and process of producing same. 2,918,409, 12-22-59, Cl. 167-74.6.
- Horrigan, Robert V., and O. F. Sprague, to National Lead Co. Purification of zirconium tetrachloride. 2,916,362, 12-8-59, Cl. 23-294.
- Horrocks-Ibbotson Co.: See—  
Cunningham, Claude J., and Labaj. 2,885,816.
- Horrocks, Raymond G., C. de V. Miller, and T. J. Brenner, to PLM Products, Inc. Aerial cable support and spacer. 2,912,482, 11-10-59, Cl. 174-146.
- Horrom, Bruce W.: See—  
Zaugg, Harold E., and Horrom. 2,881,210.
- Horrom, Bruce W., Abbott Laboratories. Article of manufacture. 2,916,417, 12-8-59, Cl. 167-65.
- Horseling, Jan, to North American Philips Co., Inc. Degassing device. 2,894,529, 7-14-59, Cl. 137-315.
- Horsfall, Harold. Laboratory dyeing machine. 2,901,902, 9-1-59, Cl. 68-170.
- Horsfall, Robert B., to North American Aviation, Inc. Variable pressure angle cam drive. 2,911,836, 11-10-59, Cl. 74-89.
- Horsley, David S. Electronic motion picture printer. 2,912,487, 11-10-59, Cl. 178-5.2.
- Horsley, Edward A., to Provincial Engineering Ltd. Cooling system for power components of travelling cranes and the like. 2,912,122, 11-10-59, Cl. 212-21.
- Horsley, Lee H., and P. S. Petrie, to The Dow Chemical Co. Process for producing isobutyl ethers. 2,886,600, 5-12-59, Cl. 260-613.
- Horsley, Lee H., and E. C. Britton, to The Dow Chemical Co. Polyglycol ether surface-active agents. 2,888,489, 5-26-59, Cl. 260-613.
- Horsley, Lee H., and H. O. Seeburger, to The Dow Chemical Co. Alkylphenoxypolyoxyglycol nonionic surface-active agents. 2,915,559, 12-1-59, Cl. 260-613.
- Horsman, Gilbert A., to Raytheon Mfg. Co. Depth sounder keying and writing apparatus. 2,867,492, 1-6-59, Cl. 346-74.
- Horst, John C.: See—  
Thomas, Peter C., and Horst. 2,896,513.
- Horst, John C. Device for measuring the diameter of a railway car axle in an axle box. 2,896,331, 7-28-59, Cl. 33-178.
- Horst, Paul V. Combined calf and foal puller and hoist. 2,868,207, 1-13-59, Cl. 128-352.
- Horst, Raymond W.: See—  
Greenberg, Harry, and Horst. 2,902,462.
- Horst, William R.: See—  
Parker, James C., and Horst. 2,875,666.
- Horst, William R., to The Commonwealth Engineering Co. of Ohio. Portable strain gauge calibrator. 2,901,905, 9-1-59, Cl. 73-1.
- Horsting, William F., Sr., 25% to I. M. Jones. Resilient centering device for concentric cylindrical members. 2,915,089, 12-1-59, Cl. 138-87.
- Horstmann Clifford Magnetics Ltd.: See—  
Clifford, Cecil F. 2,913,905.
- Horstmann, Kenneth J., and L. G. M. Payne. Electric time switches. 2,904,648, 9-15-59, Cl. 200-38.



- Horswood, George E.: *See*—  
Rosenthal, Daniel W., and Horswood. 2,904,407.
- Hort, Eugene V.: *See*—  
Graham, David E., and Hort. 2,874,168.
- Hort, Eugene V., to Celanese Corp. of America. Thixotropic resin composition comprising an unsaturated alkyd resin, styrene and silica aerogel. 2,887,461, 5-19-59, Cl. 260-40.
- Hort, Eugene V., and D. E. Graham, to General Aniline & Film Corp. Stabilized heat polymerizable N-vinyl pyrrole compounds. 2,883,393, 4-21-59, Cl. 260-315.
- Hortman, Harvey E., Jr., to Proctor Electric Co. Ironing table. 2,896,347, 7-28-59, Cl. 38-121.
- Horton, Aaron W.: *See*—  
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- Horton, Charles T., and H. A. Hight, Jr. Garment. 2,867,215, 1-6-59, Cl. 128-399.
- Horton, Donelson B., to John Blue Co., Inc. Anhydrous ammonia metering device. 2,909,191, 10-20-59, Cl. 137-501.
- Horton, Erwin C.: *See*—  
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- Horton, Erwin C., to Trico Products Corp. Fuel feed for automotive vehicles. 2,891,606, 6-23-59, Cl. 158-36.5.
- Horton, Frank: *See*—  
Lisle, Henry L. 2,900,931.
- Horton, Frank, & Co.: *See*—  
Lisle, Henry L. 2,900,931.
- Horton, Gilmer F. High pressure check valve. 2,886,058, 5-12-59, Cl. 137-484.2.
- Horton, Jerry W. Impact responsive camera for automobiles. 2,888,530, 5-26-59, Cl. 200-61.52.
- Horton, John F., Jr. Ice cube maker and dispenser. 2,900,803, 8-25-59, Cl. 62-157.
- Horton, Richard C., W. H. Miller, and W. K. Lydic, to Owens-Corning Fiberglas Corp. Process for manufacture of coated filamentary material. 2,867,891, 1-13-59, Cl. 28-73.
- Horton, Robert A.: *See*—  
Feagin, Roy C., Sosman, and Horton. 2,911,311.
- Horton, William A. Portable sound recording moving picture apparatus. 2,873,645, 2-17-59, Cl. 88-16.
- Horton, William B., and J. B. Taylor. Prestressed masonry structures. 2,908,139, 10-13-59, Cl. 61-39.
- Horton, William G. Display devices. 2,884,723, 5-5-59, Cl. 40-63.
- Horton, William G. Display and like devices. 2,913,841, 11-24-59, Cl. 40-63.
- Horton, William P., to Eastman Kodak Co. Pulse delay circuit. 2,899,553, 8-11-59, Cl. 250-27.
- Horvath, Anthony G.: *See*—  
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- Horvath, Anthony G., and O. L. Schram, to The Reliance Electric and Engineering Co. Oil seal assembly. 2,911,241, 11-3-59, Cl. 286-11.14.
- Horvath, Frank J. Illuminated lawn sprinkler and/or attachment. 2,883,113, 4-21-59, Cl. 239-19.
- Horvath, Frank J. Illuminated lawn sprinkler and/or attachment. 2,883,114, 4-21-59, Cl. 239-19.
- Horvath, Joseph, to Republic Steel Corp. Mine roof bolts having segmented shell biased outwardly by resilient washer. 2,878,709, 3-24-59, Cl. 85-2.4.
- Horvay, Julius B., to General Electric Co. Strike mount for refrigerator cabinet. 2,895,780, 7-21-59, Cl. 312-214.
- Horvitz, David, and E. Cerwonka, to National Distillers and Chemical Corp. Electrolytic production of unsymmetrical dimethylhydrazine. 2,916,426, 12-8-59, Cl. 204-74.
- Horwege, Glenn L., D. T. Trojak, and C. W. Jobbins, to said G. L. Horwege. Photoelectric switching system. 2,869,044, 1-13-59, Cl. 317-130.
- Horwitz, Nathan G. Adjustable picture frame. 2,877,585, 3-17-59, Cl. 40-152.1.
- Horwitz, Henry L., and G. L. Hasser, to International Telephone and Telegraph Corp. Intercept discriminator. 2,871,300, 1-27-59, Cl. 179-27.
- Horwitz, Henry L., M. E. Homan, and G. L. Hasser, to International Telephone and Telegraph Corp. Line finder allotting systems. 2,876,287, 3-3-59, Cl. 179-18.
- Horwitz, Lawrence P.: *See*—  
Woodward, Richard H., and Horwitz. 2,912,761.
- Horwitz, Lester, to General Aniline & Film Corp. Certain oxazole benzothiazole compounds and process. 2,876,231, 3-3-59, Cl. 260-304.
- Horwood, Norman, to The Austin Motor Co. Ltd. Fluid governors. 2,873,104, 2-10-59, Cl. 264-14.
- Horwood, Norman, to The Austin Motor Co. Ltd. Hydraulic drive transmission. 2,886,944, 5-19-59, Cl. 60-19.
- Hose, Heinz: *See*—  
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- Hosemann, Rolf. High capacity X-ray tube. 2,896,105, 7-21-59, Cl. 313-56.
- Hosford, James A.: *See*—  
Brewer, Robert F., Hosford, and McGrath. 2,896,313.
- Hosford, Lawrence A. Trailer hitch. 2,872,213, 2-3-59, Cl. 280-415.
- Hosford, William F.: *See*—  
Odum, William H., and Hosford. 2,901,767.
- Hoshiko, Sueo. Method of introducing heat into the human body. 2,916,743, 12-15-59, Cl. 4-173.
- Hoshowsky, Stanley A.: *See*—  
Donahue, Daniel J., and Hoshowsky. 2,867,587.
- Hoshowsky, Stanley A., to Radio Corp. of America. Processing of electron tubes containing luminescent screens. 2,877,605, 3-17-59, Cl. 49-78.
- Hosken, James C., to Arthur D. Little, Inc. Apparatus for converting analogue information into digital information. 2,881,416, 4-7-59, Cl. 340-347.
- Hosken, James C., to Farrington Mfg. Co. Data processing equipment and methods. 2,890,651, 6-18-59, Cl. 101-93.
- Hosking, Oakley W., to Hosking Patent Corp. Valve with fluid-operated control. 2,918,250, 12-22-59, Cl. 251-35.
- Hosking Patent Corp.: *See*—  
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- Hosking, Paul C., to Stewart-Warner Corp. Vibratory unbalance determining apparatus. 2,887,545, 5-19-59, Cl. 200-61.48.
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- Thomas, John M. 2,915,575.
- Hosler, John F.: *See*—  
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- Hardy, William B., and Hosler. 2,914,536.
- Hardy, William B., Hosler, and Lamb. 2,877,258.
- Shaw, John T., Hosler, and Beachem. 2,917,540.
- Hosler, John F., to American Cyanamid Co. 4,6-diamino-2-trichloromethylthio-s-triazine. 2,907,763, 10-6-59, Cl. 260-249.8.
- Hosler, Wallace R., to Battenfeld Grease & Oil Corp., Inc. Combination closure assembly and plunger for caulking compound cartridge. 2,902,190, 9-1-59, Cl. 222-386.5.
- Hosman, David F. High temperature short time sterilizer. 2,907,081, 10-6-59, Cl. 21-80.
- Hossain, Shafi U., to Abitibi Power & Paper Co., Ltd. Pulp-ling process. 2,901,389, 8-25-59, Cl. 162-72.
- Hosterman, Harry L., Jr.: *See*—  
Morrill, Charles D., Hosterman, and Vance. 2,875,389.
- Hostettler, Charles P., and W. A. Norconk, to Fruit Equipment Service. Bin dumping mechanism. 2,905,344, 9-22-59, Cl. 214-314.
- Hostettler, Eldon. Liquid dispensing device. 2,879,743, 3-31-59, Cl. 119-81.
- Hostettler, John C. Garden curbing. 2,888,779, 6-2-59, Cl. 47-33.
- Hostettler, Fritz: *See*—  
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- Young, Donald M., Hostettler, and McLaughlin. 2,878,236.
- Hostettler, Fritz, and L. C. Shriver, to Union Carbide Corp. Preparation of lactone adducts. 2,914,556, 11-24-59, Cl. 260-484.
- Horad, Septime R. Carcass splitting machine. 2,904,826, 9-22-59, Cl. 17-23.
- Hotchkiss, Charles N., I. Klothen, and J. C. Callahan, to American Cyanamid Co. Anti-static medicated animal feed-stuffs. 2,890,980, 6-16-59, Cl. 167-53.
- Hotchkiss, Robert D.: *See*—  
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- Hotchkiss, Thomas, Sr. Trailer hitch. 2,871,026, 1-27-59, Cl. 280-423.
- Hotelling, Eric B., M. B. Neuworth and E. P. Previc, to Consolidation Coal Co. Reducing phenolic mannich bases with molybdenum sulfide catalysts. 2,882,319, 4-14-59, Cl. 260-583.
- Hotine, William. Moving coil relay. 2,895,030, 7-14-59, Cl. 200-110.
- Hotine, William, to General Dynamics Corp. Constant percentage step potentiometer servomechanism. 2,897,426, 7-28-59, Cl. 318-28.
- Hot Oil Heater Co., Inc.: *See*—  
Swaney, Robert C. 2,902,774.
- Swaney, Robert C. 2,910,972.
- Hott, Ion V. K., and R. J. Haddix, to The Joyce-Cridland Co. Floor level lift control mechanism. 2,872,942, 2-10-59, Cl. 137-622.
- Hotten, Bruce W., to California Research Corp. Terephthalate-thickened greases. 2,874,121, 2-17-59, Cl. 252-39.
- Hotten, Bruce W., and W. Lowe, to California Research Corp. Salts of acrylamide-acrylic acid ester copolymers as grease-thickening agents. 2,868,728, 1-13-59, Cl. 252-33.6.
- Hottle, Dwight E. Spanner wrench. 2,881,648, 4-14-59, Cl. 81-90.
- Hotton, George R. Bottle and can carrier. 2,911,126, 11-3-59, Cl. 220-115.
- Hottowe, George O. Fishing flasher. 2,891,344, 6-23-59, Cl. 43-42.5.
- Hotz, John L.: *See*—  
Bewley, William L., Hotz, and Switzer. 2,895,885.
- Hotz, John L., and R. L. Switzer, to Union Oil Co. of California. Shale sludge distributor. 2,892,758, 6-30-59, Cl. 202-6.
- Hotz, Leo F. Clamp. 2,914,776, 12-1-59, Cl. 4-172.
- Houck, Claude A., and J. V. Bradshaw, to Borg-Warner Corp. Detonator. 2,883,931, 4-28-59, Cl. 102-20.
- Houck, Gladden B., Jr., to General Precision Laboratory Inc. Transistor protection circuit. 2,884,545, 4-28-59, Cl. 307-88.5.
- Houck, Marshall B.: *See*—  
Hartley, Robert L., and Houck. 2,916,184.
- Houck, Raymond H., to Proctor Mfg. Corp. Flatiron. 2,880,531, 4-7-59, Cl. 38-82.



- Houdaille Industries, Inc.: *See*—  
Boehm, Eric G. 2,898,777.  
Gies, Paul E. 2,900,248.  
Gietl, Edward W. 2,871,811.  
Malkiewicz, Wladyslaw K. 2,913,919.  
O'Connor, Bernard E., and French. 2,878,755.  
O'Connor, Bernard E., and French. 2,878,756.  
Patterson, Donald E. 2,888,898.  
Rumsey, Rollin D. 2,899,023.  
Schatzman, George W. 2,892,637.  
Westphall, James W. 2,917,908.
- Houdart, Dominique F. A., to Etablissements Deplirex. Expandable vehicle. 2,876,035, 3-3-59, Cl. 296-26.
- Houdeshell, Iloe E.: *See*—  
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- Houdry, Eugene J., to Oxy-Catalyst, Inc. Method for the operation of a boiler and apparatus therefor. 2,872,906, 2-10-59, Cl. 122-4.
- Houdry, Eugene J., to Oxy-Catalyst, Inc. Catalytic exhaust purifier. 2,909,415, 10-20-59, Cl. 23-288.
- Houdry, Eugene J., and W. R. Calvert, to Oxy-Catalyst, Inc. Method of catalytically purifying exhaust gases and regenerating the catalyst utilized therein. 2,867,497, 1-6-59, Cl. 23-2.
- Houdry, Eugene J., and J. W. Harrison, to Oxy-Catalyst, Inc. Method for the manufacture of catalysts. 2,889,288, 6-2-59, Cl. 252-463.
- Houdry, Eugene J., M. R. Eriksson, and M. A. Coudray, to Oxy-Catalyst, Inc. Gas treating apparatus. 2,898,202, 8-4-59, Cl. 23-288.
- Houdry, Eugene J., and C. T. Hayes, to Oxy-Catalyst, Inc. Method for the elimination of finely divided carbonaceous material from gas streams. 2,905,523, 9-22-59, Cl. 23-2.
- Houdry Process Corp.: *See*—  
Ardern, David B. 2,897,138.  
Bond, George R., Jr. 2,910,489.  
Bond, George R., Jr. 2,919,275.  
Busch-Petersen, Bent, Cicalese, and Craig. 2,915,570.  
Campbell, Andrew, Jr. 2,873,274.  
Cicalese, Julius J. 2,886,520.  
Cornelius, Edward B., and Kirsch. 2,887,455.  
Cross, Willis J., Jr. 2,887,341.  
Cross, Willis J., Jr. 2,906,705.  
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Donovan, Joseph J., and Milliken. 2,904,520.  
Erner, William E. 2,886,569.  
Heinemann, Heinz, Milliken, and Stevenson. 2,900,429.  
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Hindin, Saul G., and Shalit. 2,908,656.  
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Mills, George A. 2,902,436.  
Mills, George A., Milliken, and Stevenson. 2,914,459.  
Shabaker, Hubert A. 2,918,436.  
Shalit, Harold. 2,913,405.  
Shirk, Robert M. 2,892,262.  
Shirk, Robert M., Craig, and Hoge. 2,915,375.  
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- Hougen, Harold C.: *See*—  
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- Hough, Frank G., Co., The: *See*—  
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Beyerstedt, Ralph L. 2,910,132.  
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Granryd, Thorvald G. 2,873,626.  
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Salna, Karl. 2,876,921.
- Hough, John J., to United States of America, Air Force. Mechanism for mounting electrical units. 2,869,958, 1-20-59, Cl. 312-323.
- Hough, Lewis M., Jr.: *See*—  
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Humbert, Kinsley E., Jr., Young, and Hough. 2,902,162.
- Hough, Wilfred H.: *See*—  
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- Houghtaling, Amer L. Therapeutic device. 2,880,720, 4-7-59, Cl. 128-33.
- Houghtelling, Ayres, 50% to S. K. Blackmer. Container seal. 2,870,935, 1-27-59, Cl. 220-53.
- Houghton, Edward W., to Bell Telephone Laboratories, Inc. Wave-guide termination. 2,901,711, 8-25-59, Cl. 333-22.
- Houghton, Edward W., to Bell Telephone Laboratories, Inc. Microwave detector. 2,919,345, 12-29-59, Cl. 250-27.
- Houghton, Richard B., to General Dynamics Corp. Capacitive pressure transducer. 2,904,732, 9-15-59, Cl. 317-246.
- Houghton, Richard W., and R. E. Crosby, Jr., to Acton Laboratories, Inc. Ultra low frequency phase meter. 2,918,625, 12-22-59, Cl. 324-83.
- Houghton, William D., to Radio Corp. of America. Television recording system. 2,892,017, 6-23-59, Cl. 178-54.
- Houghton, William D., to Radio Corp. of America. Color television signal recording and reproducing apparatus. 2,892,022, 6-23-59, Cl. 178-54.
- Houghton, William D., to Radio Corp. of America. Video signal recording systems. 2,903,509, 9-8-59, Cl. 178-6.6.
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- Houk, Emory V. Method and means for identifying wire-pairs. 2,869,077, 1-13-59, Cl. 324-66.
- Houldcroft, Peter T.: *See*—  
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- Houlding, Lloyd M., to M. C. Richardson. Stud shoe. 2,912,850, 11-17-59, Cl. 72-115.
- Houldsworth, Wallace M. Fruit picking device. 2,912,028, 11-10-59, Cl. 150-2.
- Houlihan, James P.: *See*—  
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- Houlsby, George W., Jr.: *See*—  
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- Hoult, Edwin M.: *See*—  
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- Hounsell, John P. Crate cart. 2,897,989, 8-4-59, Cl. 214-390.
- Houpt, Alfred G.: *See*—  
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- Housam, Ernest C.: *See*—  
Northcott, Roy P., and Housam. 2,900,332.  
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- Housam, Ernest C., and R. Lester, to The British Petroleum Co. Ltd. Production of motor gasolines. 2,894,896, 7-14-59, Cl. 208-17.
- Housby, George W., Jr.: *See*—  
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- House, Allston L., and J. J. Monahan, to Western Electric Co., Inc. Handling apparatus for electrical articles. 2,885,076, 5-5-59, Cl. 209-75.
- House, Arthur W. Portable handle for milk container and the like. 2,902,309, 9-1-59, Cl. 298-27.
- House, Bryan E., to Rockwell Standard Corp. Brake mechanism. 2,871,713, 2-3-59, Cl. 74-169.
- House, Bryan E., to Rockwell Spring and Axle Co. Brake actuating mechanism. 2,886,141, 5-12-59, Cl. 188-78.
- House, Bryan E., to Rockwell-Standard Corp. Expanding wheel type brake. 2,912,068, 11-10-59, Cl. 188-78.
- House, Egbert E., Jr.: *See*—  
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- House, Perry W., G. B. Shaw, and B. D. Gribben, to General Motors Corp. Engine starting apparatus. 2,902,125, 9-1-59, Cl. 192-45.
- House, Ronald R.: *See*—  
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- House, Ronald R., and Y. Jen, to American Cyanamid Co. Pulping of paper broke containing wet-strength resins. 2,872,313, 2-3-59, Cl. 92-14.
- Householder, Leslie W., to National Mine Service Co. Blasting plug. 2,876,700, 3-10-59, Cl. 102-30.
- Houser, Abbott E.: *See*—  
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- Houser, Edwin A.: *See*—  
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- Houser, Howard E.: *See*—  
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- Houser, Howard K. Method for producing dyed yarn of synthetic fibers. 2,904,954, 9-22-59, Cl. 57-157.
- Houser, John W.: *See*—  
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- Houser, John W. Variable delivery pressure fluid engine. 2,908,224, 10-13-59, Cl. 103-120.
- Houser, Philip H., to General Electric Co. Syphon arrangement for clothes washing machine rinsing agent dispenser. 2,882,707, 4-21-59, Cl. 68-207.
- Houser, Roy W., to Robertshaw-Fulton Controls Co. Magnet mercury switch. 2,914,633, 11-24-59, Cl. 200-112.
- Housewright, Riley D.: *See*—  
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- Housh, C. N.: *See*—  
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- Houska, Vladimir J., and R. J. Lurie. Vinyl resin and clay composition stabilized with lead and epoxy compounds. 2,912,397, 11-10-59, Cl. 260-23.
- Housman, Abraham J. Electronic centering device. 2,870,540, 1-27-59, Cl. 33-172.
- Housman, Bennett: *See*—  
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- Housman, Bennett, to International Business Machines Corp. Adder circuit. 2,888,201, 5-26-59, Cl. 235-61.
- Housman, William L. Automatic fishing rod and pole holder. 2,898,697, 8-11-59, Cl. 43-15.
- Houston Engineers, Inc.: *See*—  
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- Houston, Fred E., M. E. Houston, deceased (F. E. Houston, executor), and P. J. Houston. Tents for tourists. 2,904,054, 9-15-59, Cl. 135-4.
- Houston, Harry H., to International Minerals & Chemical Corp. Method of expanding perlite. 2,898,303, 8-4-59, Cl. 252-378.
- Houston, Harry H., and L. S. McCollum, to International Minerals & Chemical Corp. Perlite insulation material. 2,878,131, 3-17-59, Cl. 106-62.
- Houston, Joseph A. Battery cable switch. 2,917,611, 12-15-59, Cl. 200-161.
- Houston, Mary E.: *See*—  
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- Houston Oil Field Material Co., Inc.: *See*—  
 Bender, John C. 2,884,065.  
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- Houston, Patricia J.: *See*—  
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- Houston, Reese T.: *See*—  
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- Houston, Robert W.: *See*—  
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- Houston, Robert W., B. L. Tarmy, and R. B. Long, to Esso Research and Engineering Co. Radiochemical reactions. 2,904,484, 9-15-59, Cl. 204—154.
- Housworth, Gordon C., to R. A. Myers. Valve assembly. 2,872,937, 2-10-59, Cl. 137—246.11.
- Houth, Joseph W., to United Merchants and Manufacturers, Inc. Resin pre-treatment of plisse fabrics. 2,867,892, 1-13-59, Cl. 28—74.
- Houtman, Thomas, Jr.: *See*—  
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- Houtz, John E.: *See*—  
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- Houvener, Irving S., to The Dow Chemical Co. Pressure intensifier. 2,897,762, 8-4-59, Cl. 103—52.
- Houwelling, Johann: *See*—  
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- Hovell, Victor E. Auxiliary safety braking system. 2,914,144, 11-24-59, Cl. 188—106.
- Hovellmann, Heinrich, to Walther & Cie. A. G. Method for welding tube nipples. 2,867,036, 1-6-59, Cl. 29—471.7.
- Hoven, Alfred C., W. S. Lindberg, and W. E. Nordmark, to American Seating Co. Pew. 2,886,098, 5-12-59, Cl. 155—191.
- Hoven, Alfred C., and W. E. Nordmark, to American Seating Co. Upholstered pew. 2,907,377, 10-6-59, Cl. 155—184.
- Hovermale, Carroll O., 25% to E. Lung. Toy gun. 2,898,903, 8-11-59, Cl. 124—2.
- Hoverman, Doyt R. Broadband U.H.F.-V.H.F. television antenna. 2,918,672, 12-22-59, Cl. 343—726.
- Hovey, Almon G., to Olin Mathieson Chemical Corp. Preservative composition comprising pyridinethione and a soluble borate. 2,909,459, 10-20-59, Cl. 167—33.
- Hovey, Ralph J., Jr., to Farnsteel Metallurgical Corp. Electrolytic capacitor. 2,910,633, 10-27-59, Cl. 317—230.
- Hovgaard, Ole M.: *See*—  
 Glore, Robert F., Hovgaard, and Perreault. 2,889,424.
- Hovgaard, Ole M., and N. Insley, to Bell Telephone Laboratories, Inc. Switch manufacture. 2,882,648, 4-21-59, Cl. 49—81.
- Hovgaard, Paul E., to United States of America, Navy. Rotor hub for helicopter or the like. 2,888,991, 6-2-59, Cl. 170—160.25.
- Hovind, John K.: *See*—  
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- Hovingh, Albertus R.: *See*—  
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- Hovland, Howard N., to American Can Co. Carton. 2,881,970, 4-14-59, Cl. 229—44.
- Hovland, Howard N., to American Can Co. Carton. 2,884,178, 4-28-59, Cl. 229—17.
- Hovlid, Norman G. Aquarium aerating device. 2,868,525, 1-13-59, Cl. 261—121.
- Howa Kogyo Kabushiki-Kaisha: *See*—  
 Noda, Shozo. 2,898,726.
- Howald, Werner E., to Curtiss-Wright Corp. By-pass turbo jet engine construction. 2,880,574, 4-7-59, Cl. 60—35.6.
- Howard, Addison M., to Steel Protection and Chemical Co., Inc. Process of electroplating on aluminum. 2,879,210, 3-24-59, Cl. 204—28.
- Howard, Alfred H., to Fairbanks Ward Industries, Inc. Mailing piece or advertising sheet provided with an interlocking return envelope. 2,874,892, 2-24-59, Cl. 229—73.
- Howard, Arthur C., to Rotary Hoes Ltd. Rotary cultivating apparatus. 2,886,116, 5-12-59, Cl. 172—464.
- Howard, Arthur C., to Rotary Hoes Ltd. Depth control means for a rotary cultivating machine. 2,910,129, 10-27-59, Cl. 172—77.
- Howard, Arthur R. Automatic scaffolding machine. 2,906,365, 9-29-59, Cl. 182—136.
- Howard, Ben O., to General Dynamics Corp. Engine cooling apparatus. 2,909,161, 10-20-59, Cl. 123—41.61.
- Howard, Bernard, to Teleprinter Corp. Typewriting machine. 2,913,089, 11-17-59, Cl. 197—49.
- Howard, Bernard, to Teleprinter Corp. Automatic stop for telegraph printer. 2,913,517, 11-17-59, Cl. 178—4.1.
- Howard, Bernard, to Teleprinter Corp. Selector for telegraph printer. 2,918,527, 12-22-59, Cl. 178—34.
- Howard, Bernard, to Teleprinter Corp. Selector for telegraph printer. 2,918,528, 12-22-59, Cl. 178—34.
- Howard, C. E., Corp.: *See*—  
 Paramonoff, Elpidifor. 2,867,475.
- Howard, Charles F., to The Standard Register Co. Strip feeding device. 2,903,900, 9-15-59, Cl. 74—243.
- Howard, Don R., to The Wright Line, Inc. Filing cabinet drawer lock. 2,885,251, 5-5-59, Cl. 312—222.
- Howard, Earle A., to United States of America, Navy. Protective nose cap for torpedoes. 2,889,772, 6-9-59, Cl. 102—7.
- Howard, Eugene L. Geophysical instrument for measuring the dip and strike of geological strata. 2,878,578, 3-24-59, Cl. 33—215.
- Howard, Eugene L., 1/2 to W. C. Miller. Window unit for motor vehicle. 2,894,784, 7-14-59, Cl. 296—47.
- Howard, Everett W., to The M. W. Kellogg Co. Hydrocarbon conversion system. 2,903,419, 9-8-59, Cl. 208—164.
- Howard, Frank A. Pneumatic wheel unit. 2,873,785, 2-17-59, Cl. 152—330.
- Howard, Frank A. Electrolytic method and apparatus. 2,879,213, 3-24-59, Cl. 204—64.
- Howard, Frank A. Electrolytic method and apparatus. 2,880,150, 3-31-59, Cl. 204—64.
- Howard, Frank L., to Kaiser Aluminum & Chemical Corp. Apparatus for melting and handling molten metals. 2,890,879, 6-16-59, Cl. 266—43.
- Howard, Frank L., and B. C. Cormier, to Mallinckrodt Chemical Works. Fungicidal compositions. 2,876,166, 3-3-59, Cl. 164—14.
- Howard, George C.: *See*—  
 Fast, Clarence R., and Howard. 2,876,839.
- Howard, George C., to Pan American Petroleum Corp. Avoiding increased water production in fracturing operations. 2,896,717, 7-28-59, Cl. 166—33.
- Howard, George R.: *See*—  
 Powischill, John W., Hine, and Howard. 2,868,400.
- Howard, Harold T.: *See*—  
 Slinger, Frank H., Wilkinson, and Howard. 2,884,422.
- Howard, Harold T., and D. G. Wilkinson, to Imperial Chemical Industries Ltd. New colouring matters. 2,889,327, 6-2-59, Cl. 260—251.
- Howard, Harry W.: *See*—  
 Somerville, George R., and Howard. 2,894,931.
- Howard, Homer E.: *See*—  
 Strassman, Alvin J., and Howard. 2,887,654.
- Howard Industries, Inc.: *See*—  
 Ernst, W. Arthur. 2,896,891.  
 Lautner, Max E. 2,904,709.
- Howard, James E., Jr., to Westinghouse Electric Corp. Dispensing apparatus. 2,903,158, 9-8-59, Cl. 221—261.
- Howard, John B., to Bell Telephone Laboratories, Inc. Method for the reaction of polyglycidyl compounds with organic polysulfides. 2,871,217, 1-27-59, Cl. 260—42.
- Howard, John C., to The Norwich Pharmacal Co. New chemical compound, 1-(4-chlorophenyl)-3-(5-nitro-2-furyl)-2-propen-1-one. 2,906,752, 9-29-59, Cl. 260—240.
- Howard, John W., to General Pacific Corp. Fire extinguisher head assembly. 2,876,846, 3-10-59, Cl. 169—31.
- Howard, Joseph A. Dual control indexing turret. 2,874,450, 2-24-59, Cl. 29—41.
- Howard, Lawrence E. Root cutters. 2,882,622, 4-21-59, Cl. 37—145.
- Howard, Leo F., to Metal & Thermit Corp. Unloading device. 2,898,283, 8-4-59, Cl. 204—213.
- Howard, Posy A. Mounting for pipe end abraders. 2,869,293, 1-20-59, Cl. 51—241.
- Howard, Robert C., to The Narrow Fabric Co. Method of making elastic fabric. 2,910,853, 11-3-59, Cl. 66—193.
- Howard, Robert E., and E. B. Miller, to Monsanto Chemical Co. Reduction of phthalimide. 2,919,282, 12-29-59, Cl. 260—343.3.
- Howard, Thomas P., to Pneumatic Scale Corp., Ltd. Packaging machine. 2,868,375, 1-13-59, Cl. 209—121.
- Howard, William C., to Bailey Meter Co. Time-cycle control system. 2,871,869, 2-3-59, Cl. 137—82.
- Howard, William H.: *See*—  
 Ucci, Pompelio A., and Howard. 2,878,227.
- Howard, William L.: *See*—  
 Stefanye, David, Howard, Brown, and Weintraub. 2,916,491.
- Howard, William L., to Welin-Maclachlan Davits, Ltd. Winding and paying out apparatus. 2,908,481, 10-13-59, Cl. 254—185.
- Howarth, David V., to Natural Lighting Corp. Lamp. 2,894,693, 7-14-59, Cl. 240—41.
- Howatt, Glenn N., to Gulton Industries, Inc. Thermosensitive resistance element. 2,868,935, 1-13-59, Cl. 201—63.
- Howatt, Glenn N., to United States of America, Army. Forming printed circuit conductors. 2,876,530, 3-10-59, Cl. 29—155.5.
- Howdon Vindex Products Corp.: *See*—  
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- Howe, Brian R., and J. H. W. Turner. Process for the production of epoxy resins. 2,897,175, 7-28-59, Cl. 260—43.
- Howe, Conrad L., and W. E. Polster, to General Electric Co. Electron beam discharge device. 2,888,587, 5-26-59, Cl. 313—69.
- Howe, Elra F., to V. R. Howe. Valved floor drain fitting and a strainer therefor. 2,869,727, 1-20-59, Cl. 210—429.
- Howe, Elra F., to V. R. Howe. Convertible submersible pump. 2,918,876, 12-29-59, Cl. 103—87.
- Howe & Fant, Inc.: *See*—  
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 Charlat, Arnold S. 2,874,599.  
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- Howe Folding Furniture, Inc.: *See*—  
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Howe, Harold, and Burr. 2,879,120.
- Howe, George T.: *See*—  
Sanford, Roy S., and Howe. 2,892,711.
- Howe, Goodwin H., to General Electric Co. Magnetic nickel base material and method of making. 2,891,883, 6-23-59, Cl. 148-2.
- Howe, Harold, and A. C. Burr, to Howe Folding Furniture, Inc. Folding table and benches structure. 2,878,859, 3-24-59, Cl. 155-124.
- Howe, Harold, and A. C. Burr, to Howe Folding Furniture, Inc. Long two part folding table. 2,879,120, 3-24-59, Cl. 311-92.
- Howe, Herbert E.: *See*—  
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- Howe, John P.: *See*—  
Leverett, Miles C., and Howe. 2,870,075.
- Howe, Milton A., Jr.: *See*—  
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- Howe Scale Co., The: *See*—  
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Roessler, Charles E., Jr. 2,898,419.
- Howe Sound Co.: *See*—  
Feagin, Roy C., Sosman, and Horton. 2,911,311.
- Howe, Spencer D., to Hughes Aircraft Co. Hysteresis clutch. 2,908,832, 10-13-59, Cl. 310-99.
- Howe, Velma K.: *See*—  
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Howe, Elra F. 2,918,876.
- Howe, Warren B., to Addressograph-Multigraph Corp. Printing. 2,915,006, 12-1-59, Cl. 101-148.
- Howe, Wilfred C., to Crompton & Knowles Corp. Photoelectric web detecting system for loom. 2,911,013, 11-3-59, Cl. 139-273.
- Howell, Alleyne C., Jr.: *See*—  
Stiener, Stewart, Stephenson, and Howell. 2,917,695.
- Howell, Alun R., to The Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Power plant incorporating a dynamic compressor. 2,883,828, 4-28-59, Cl. 60-35.6.
- Howell, Charles A. Signalling apparatus for garages. 2,879,350, 3-24-59, Cl. 200-61.41.
- Howell, David, to Arlington Aluminum Co. Poster holder. 2,882,633, 4-21-59, Cl. 40-156.
- Howell, Edward K., to General Electric Co. Automatic frequency control system with a two-speed frequency sweep. 2,896,169, 7-21-59, Cl. 331-4.
- Howell, Edward K., to General Electric Co. Time delay switches. 2,913,549, 11-17-59, Cl. 200-88.
- Howell, Emory L., to The Dayton Rubber Co. Fiber processing unit. 2,912,722, 11-17-59, Cl. 19-131.
- Howell, George E.: *See*—  
Klaassen, William. 2,909,168.
- Howell, Hugh A., to Oak Mfg. Co. Chopper. 2,894,094, 7-7-59, Cl. 200-90.
- Howell, John F.: *See*—  
Jacobs, John E., and Howell. 2,907,883.
- Howell, John H., E. W. Doughty, and P. L. Alspaugh. Coal hydrogenation process. 2,913,388, 11-17-59, Cl. 208-8.
- Howell, Richard S., to Burroughs Corp. Electrographic printing head. 2,918,580, 12-22-59, Cl. 250-49.5.
- Howell, Robert C., to Phillips Petroleum Co. Oil seal for electro-precipitators employed in carbon black processes. 2,901,324, 8-25-59, Cl. 23-209.6.
- Howell, Robert H., Jr., and R. A. Woodle, to The Texas Co. Regenerating ion exchange particles. 2,884,384, 4-28-59, Cl. 260-2.1.
- Howell, Robert J., and J. W. Stuntz, to Westinghouse Electric Corp. Radar system for discriminating against area targets. 2,879,504, 3-24-59, Cl. 343-17.1.
- Howell, Ronald T. A., and L. Young, to Decca Record Co. Ltd., The. Variable impedance microwave apparatus. 2,918,572, 12-22-59, Cl. 250-13.
- Howell, Sabert N., to Servo Corp. of America. Optical pyrometer. 2,869,369, 1-20-59, Cl. 73-355.
- Howell, William, to Mallory-Sharon Titanium Corp. Recovery of titanium fines and manufacture of electrodes therefrom. 2,893,113, 7-7-59, Cl. 29-184.
- Howell, William, to Mallory-Sharon Metals Corp. Titanium press scrap recovery and electrode manufacture. 2,898,672, 8-11-59, Cl. 29-184.
- Howell, William, and R. M. Sriver, to Mallory-Sharon Metals Corp. Titanium scrap recovery and electrode manufacture. 2,867,895, 1-13-59, Cl. 29-184.
- Howell, William, and G. W. Smith, to Mallory-Sharon Titanium Corp. Titanium electrode. 2,886,883, 5-19-59, Cl. 29-184.
- Howell, William C., Jr.: *See*—  
Wasson, Jones I., and Howell. 2,876,199.
- Howell, William C., Jr., to Esso Research and Engineering Co. Motor fuels and motor fuel additives. 2,892,691, 6-30-59, Cl. 44-69.
- Howell, William D., to Atomic Energy of Canada Ltd. D-C amplifier. 2,903,524, 9-8-59, Cl. 179-171.
- Howells, Thomas J.: *See*—  
Scheuer, Ernst, and Howells. 2,906,644.
- Hower, Robert S.: *See*—  
Bradley, Harry L., and Hower. 2,899,611.
- Howerton, Dorothy: *See*—  
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- Howery, Richard W., to Radio Corp. of America. Microwave switching device. 2,880,397, 3-31-59, Cl. 333-13.
- Hoves, John T., and T. W. Stone, to Controls Co. of America. Motor bearing assembly. 2,892,664, 6-30-59, Cl. 308-132.
- Howes, Peter: *See*—  
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- Howes, Ronald B.: *See*—  
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Dobbs, David L., Gill, and Howes. 2,892,798.
- Howes, Royal E., to The National Cash Register Co. Multiple delay line. 2,900,533, 8-18-59, Cl. 307-88.5.
- Howland, Alfred H.: *See*—  
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- Howland, Alfred H., E. M. Hughes, H. Ford, and N. P. W. Moore, to National Research Development Corp. Combustion chambers. 2,868,857, 1-13-59, Cl. 260-679.
- Howland, Frank L., and J. W. West, to Bell Telephone Laboratories, Inc. Semiconductor diode. 2,897,419, 7-28-59, Cl. 317-234.
- Howlett, Edward J. Apparatus for dispensing sheet material. 2,909,402, 10-20-59, Cl. 312-38.
- Howlett, Frank K., Butler, and J. A. Low, to British Nylon Spinners Ltd. Viscosity stabilization of polyamides with ortho-aromatic diamines. 2,907,754, 10-6-59, Cl. 260-78.
- Howlett, George H. Coupling for auxiliary transmission in vehicle drive mechanism. 2,878,681, 3-24-59, Cl. 74-15.66.
- Howlett, John W., and K. A. Blacklock, to Wellworthy Ltd. Sealing rings. 2,893,796, 7-7-59, Cl. 309-43.
- Howlett, Percy W. Play curling game. 2,900,189, 8-18-59, Cl. 273-126.
- Howorth, Donald W. Slip ring mount for telescopes. 2,908,459, 10-13-59, Cl. 248-38.
- Howry-Berg Steel & Iron Works, Inc.: *See*—  
Liston, Earl C. 2,881,848.
- Howsam, Hilyard C. Reel structure. 2,899,147, 8-11-59, Cl. 242-118.6.
- Howse, Samuel E.: *See*—  
Dixon, Thomas F., and Howse. 2,897,259.
- Howslay, Louis A., Jr., and K. L. Malone, to First State Bank of Denton. Apparatus for soilless plant cultivation. 2,897,631, 8-4-59, Cl. 47-1.2.
- Howsmen, John A.: *See*—  
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- Howsmen, John A., to American Viscose Corp. Process of producing all skin rayon. 2,890,130, 6-9-59, Cl. 106-165.
- Howsmen, John A. Producing all skin viscose rayon. 2,890,132, 6-9-59, Cl. 106-165.
- Howsmen, John A., to American Viscose Corp. Process of producing viscose rayon. 2,892,729, 6-30-59, Cl. 106-165.
- Howsmen, John A., and B. A. Thumm, to American Viscose Corp. Method of forming all skin viscose rayon. 2,895,788, 7-21-59, Cl. 18-54.
- Hoxie, Howard M.: *See*—  
Wootton, Gerald V., and Hoxie. 2,871,214.
- Hoyned, Adolf, and H. Hess, to Gutehoffnungshütte Sterkrade Aktiengesellschaft. Bridge construction. 2,914,783, 12-1-59, Cl. 14-21.
- Hoye, Edwin C., and H. L. Summers. Threaded joint for tubular products. 2,909,380, 10-20-59, Cl. 285-333.
- Hoyer, Arnold, to A. A. and E. Kroo. Stringed musical instrument bridge. 2,905,042, 9-22-59, Cl. 84-307.
- Hoyer, Llewellyn E.: *See*—  
Eddy, Thomas A., and Hoyer. 2,898,161.
- Hoyer, Llewellyn E., to American Brake Shoe Co. Journal bearing lubricators. 2,890,085, 6-9-59, Cl. 308-87.
- Hoyer, Llewellyn E., to American Brake Shoe Co. Journal bearing lubricators. 2,915,347, 12-1-59, Cl. 308-243.
- Hoyer, Llewellyn E., and I. E. Cox, to American Brake Shoe Co. Journal boxes. 2,868,595, 1-13-59, Cl. 308-38.
- Hoyer, Llewellyn E., and E. R. Goreyca, to American Brake Shoe Co. Journal bearing lubricators. 2,915,860, 12-8-59, Cl. 53-29.
- Hoyer, Wilmer A., and R. W. Wilson, to Jersey Production Research Co. Pulse generator. 2,907,900, 10-6-59, Cl. 307-106.
- Hoyle, James E. Adjustable curved rulers. 2,879,603, 3-31-59, Cl. 33-177.
- Hoyle, Robert L., to Burgess-Manning Co. Exhaust snubber or the like. 2,912,062, 11-10-59, Cl. 181-61.
- Hoyt, Clyde W.: *See*—  
Thomas, Lucius P., Jr., and Hoyt. 2,901,536.
- Hoyt, Earl H., Jr. Arrow head. 2,905,470, 9-22-59, Cl. 273-106.5.
- Hoyt, Eugene P., to International Telephone and Telegraph Corp. Television tuning indicator. 2,905,759, 9-22-59, Cl. 178-7.5.
- Hoyt, Harry R. Solvent reclaiming drying tumblers. 2,910,783, 11-3-59, Cl. 34-45.
- Hoyt, Herbert L., and E. B. Byam, to The Waterbury Farrel Foundry & Machine Co. Transfer mechanism for progressive headers and the like. 2,891,263, 6-23-59, Cl. 10-12.
- Hoyt, Howard E.: *See*—  
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- Hoyt, John M.: *See*—  
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Bolstad, Archibald N., and Hoyt. 2,915,508.  
Honn, Francis J., and Hoyt. 2,915,506.  
Honn, Francis J., and Hoyt. 2,915,509.
- Hoyt, John M., to Minnesota Mining and Mfg. Co. Fluoroprene copolymers. 2,915,510, 12-1-59, Cl. 260-87.7.



- Hoyt, Leo E., and P. D. Blanchard. Sheep shearing table. 2,889,869, 6-9-59, Cl. 155-123.
- Hoyt, Leroy W. Water compensator for forced flow water system including an expansion tank. 2,901,176, 8-25-59, Cl. 237-66.
- Hradel, Joseph R.: *See*—  
Staatd, Harold E., and Hradel. 2,889,773.
- Hradel, Joseph R. Detonation of unprimed base charges. 2,867,172, 1-6-59, Cl. 102-23.
- Hradel, Joseph R., H. E. Staatd, and P. D. Muir, to The Dow Chemical Co. Method of detonating ammonium nitrate base explosives. 2,892,406, 6-30-59, Cl. 102-23.
- Hramoff, Olga. Self-contained booster cylinder. 2,915,878, 12-8-59, Cl. 60-34.5.
- Hrebicek, James. Spring suspension. 2,877,011, 3-10-59, Cl. 267-20.
- Hrubec, Arthur F., to Crane Co. Apparatus for oscillating a moving article carrier. 2,903,994, 9-15-59, Cl. 118-6.
- Hruby, John O., Jr., to J. Drew, G. W. Frasier, and J. O. Hruby, Jr., d.b.a. Irrigation Engineering & Mfg. Co. Fire nozzle. 2,896,861, 7-28-59, Cl. 239-237.
- Hruby, John O., Jr., to Rain Jet Corp. Flow restrictor. 2,899,978, 8-18-59, Cl. 138-43.
- Hruby, John O., Jr., to Rain Jet Corp. Sprinkler. 2,909,326, 10-20-59, Cl. 239-206.
- Hruby, Mirko: *See*—  
Polansky, Alois, and Hruby. 2,903,186.
- Hruska, Howard E., to Bendix Aviation Corp. Hydraulic power steering device with rack and pinion actuating means. 2,867,284, 1-6-59, Cl. 180-79.2.
- Hruska, Howard E., to Bendix Aviation Corp. Diaphragm type control valve having hydraulic reaction. 2,875,781, 3-5-59, Cl. 137-622.
- Hruska, Leo J. Converter with high frequency crystal transistor oscillator. 2,887,573, 5-19-59, Cl. 250-20.
- Hrusovsky, Louis J.: *See*—  
Hammond Milton B., and Hrusovsky. 2,902,275.
- Hrynyszak, Waldemar, to C. A. Parsons & Co. Ltd. Heat exchangers. 2,893,697, 7-7-59, Cl. 257-1.
- Hrynyszak, Waldemar, to C. A. Parsons & Co. Ltd. Gas turbine power plant with regenerator. 2,895,296, 7-21-59, Cl. 60-39.51.
- Hsiao, Chi-Mei, E. J. Dulis, and P. Payson, to Crucible Steel Co. of America. Austenitic Cr-Mn-C-N steels for elevated temperature service. 2,909,425, 10-20-59, Cl. 75-126.
- Hsu, John P. T., and J. M. Womack, to Cavalier Corp. Superimposed bottle vending machine. 2,875,922, 3-3-59, Cl. 221-125.
- Hsu, Ming C., and R. M. Stallard, to General Motors Corp. Method for making embossed decorative articles. 2,914,109, 11-24-59, Cl. 154-106.
- Hu, Kuo-Chen. Magnetic subharmonic pulser. 2,882,426, 4-14-59, Cl. 307-106.
- Huang, Chaang: *See*—  
Dwork, Leo E., and Huang. 2,901,612.
- Huang, Chaang, to Sylvania Electric Products Inc. Transistor switching circuit. 2,901,638, 8-25-59, Cl. 307-88.5.
- Huang, Chaang, to Sylvania Electric Products Inc. Transistor shift register. 2,912,596, 11-10-59, Cl. 307-88.5.
- Huang, Chaang, to Sylvania Electric Products Inc. Multiple emitter matrices. 2,913,704, 11-17-59, Cl. 340-166.
- Huang, Chaang, to Sylvania Electric Products Inc. Bi-stable transistor circuit. 2,919,355, 12-29-59, Cl. 307-88.5.
- Huang, Chaang, and E. Slobodzinski, to Sylvania Electric Products Inc. Power transistor switching circuits. 2,892,100, 6-23-59, Cl. 307-88.5.
- Huang, Robert Y.: *See*—  
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- Hub Oil Tool Co., Inc.: *See*—  
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- Hub Stamping and Mfg. Co.: *See*—  
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- Hubbard, Addison W.: *See*—  
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- Hubbard, Albert B.: *See*—  
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- Hubbard, Arthur L., to Deere & Co. Cotton harvester moistener assembly. 2,876,611, 3-10-59, Cl. 56-41.
- Hubbard, Arthur L., to Deere & Co. Cotton harvester. 2,904,948, 9-22-59, Cl. 56-41.
- Hubbard, Arthur L., to Deere & Co. Cotton harvester. 2,912,285, 11-10-59, Cl. 302-58.
- Hubbard and Co.: *See*—  
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- Stroup, Charles L., and Westrom. 2,910,560.
- Hubbard, Eber J., to Hubbard Spool Co. Wire processing and storage container. 2,869,719, 1-20-59, Cl. 206-1.
- Hubbard, Eber J., to The American Pulley Co. Spool construction. 2,881,986, 4-14-59, Cl. 242-118.4.
- Hubbard, Eber J., to The American Pulley Co. Container for wire. 2,889,921, 6-9-59, Cl. 206-52.
- Hubbard, Eber J., to The American Pulley Co. Method of packaging wire. 2,895,210, 7-21-59, Cl. 28-72.
- Hubbard, James K., and F. H. Koontz, to E. I. du Pont de Nemours & Co. Synthetic paper sheet of chemically bonded synthetic polymer fibers and process of making the same. 2,869,973, 1-20-59, Cl. 8-130.1.
- Hubbard, James K., and F. H. Koontz, to E. I. du Pont de Nemours & Co. Self-bonded paper. 2,905,585, 9-22-59, Cl. 162-157.
- Hubbard, John L.: *See*—  
Herrnstadt, Gerald E., and Hubbard. 2,899,813.
- Hubbard, Linus O., to Bendix Aviation Corp. Oscillator and amplifier circuit. 2,901,557, 8-25-59, Cl. 179-171.
- Hubbard, Robert M., to Boeing Airplane Co. Magnetic amplifiers. 2,872,533, 2-3-59, Cl. 179-171.
- Hubbard Spool Co.: *See*—  
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- Hubbard, William J.: *See*—  
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- Hubbell, Harry H., Jr.: *See*—  
Birkhoff, Robert D., Hubbell, and Johnson. 2,875,343.
- Hubbell, Harvey, to Harvey Hubbell, Inc. Stripless wiring for electrical wiring devices. 2,873,435, 2-10-59, Cl. 339-97.
- Hubbell, Harvey, to Harvey Hubbell, Inc. Screwless means for attaching conductors to electrical devices. 2,875,424, 2-24-59, Cl. 339-164.
- Hubbell, Harvey, Inc.: *See*—  
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- Hubbell, Harvey. 2,873,435.
- Hubbell, Harvey. 2,875,424.
- Hubbell, Harvey, Jr. 2,869,102.
- Hubbell, Harvey, Jr., to Harvey Hubbell, Inc. Adjustable cord take-off for attachment plugs. 2,869,102, 1-13-59, Cl. 339-101.
- Hubbell, John P., to United States of America, Atomic Energy Commission. Apparatus for handling mixtures of solid materials. 2,901,007, 8-25-59, Cl. 141-73.
- Hube, Arthur B., to American District Telegraph Co. Buoyancy water flow detector and sprinkler system embodying the same. 2,880,808, 4-7-59, Cl. 169-23.
- Hube, Arthur B., to American District Telegraph Co. Fire sprinkler alarm system. 2,891,625, 6-23-59, Cl. 169-23.
- Hubel, Ernst, to The Babcock & Wilcox Co. Cyclone furnaces. 2,887,992, 5-26-59, Cl. 122-240.
- Huber, Anton. Liquid level indicator. 2,883,862, 4-23-59, Cl. 73-303.
- Huber, Clarence F., and P. F. Thompson, to The Cincinnati Milling Machine Co. Bituminous bonding compounds. 2,874,174, 2-17-59, Cl. 260-404.5.
- Huber, Clarence F., and P. F. Thompson, to The Cincinnati Milling Machine Co. Bituminous bonding agents. 2,875,219, 2-24-59, Cl. 260-404.5.
- Huber, Erwin, to Aerosol Corp. T.R. Liquid atomizer. 2,891,731, 6-23-59, Cl. 239-215.
- Huber, Frederick R., and L. M. Schenck, to General Aniline & Film Corp. Method for the manufacture of alkyl iodides. 2,899,471, 8-11-59, Cl. 260-652.
- Huber, Georg: *See*—  
Druey, Jean, and Huber. 2,903,443.
- Druey, Jean, and Huber. 2,918,462.
- Huber, Harry, J. Freytag, and J. Reynaud, to Compagnie Generale de Telegraphie Sans Fil. Composition for sintered barium cathodes. 2,881,512, 4-14-59, Cl. 29-182.5.
- Huber, Harry, and J. Freytag, to Compagnie Generale de Telegraphie Sans Fil. Composition for sintered barium cathodes. 2,881,513, 4-14-59, Cl. 29-182.5.
- Huber, Harry, J. Freytag, and J. Reynaud, to Compagnie Generale de Telegraphie Sans Fil. Manufacture of sintered cathodes. 2,913,812, 11-24-59, Cl. 29-182.5.
- Huber, Henry. Convertible boat trailer. 2,887,238, 5-19-59, Cl. 214-506.
- Huber, Henry, and I. Craven, to A. M. Jongeneel. Fertilizer drill and seed planting implement. 2,869,490, 1-20-59, Cl. 111-80.
- Huber Industries, Inc.: *See*—  
Roeder, Russell R., Jr. 2,905,427.
- Huber, J. M., Corp.: *See*—  
Behre, Johannes, and Williams. 2,873,919.
- Lister, Roscoe C. 2,913,051.
- Millman, Nathan, and Whitely. 2,907,666.
- Van Volkenburgh, Ross. 2,890,190.
- Voet, Andries. 2,891,872.
- Voet, Andries. 2,893,887.
- Huber, John R., to Eastern Rotorcraft Corp. Rope adjusting and snubbing device. 2,896,283, 7-28-59, Cl. 24-71.1.
- Huber, John R., to Eastern Rotorcraft Corp. Strap clamp device. 2,896,296, 7-28-59, Cl. 24-273.
- Huber, Matthew W., to The New York Air Brake Co. Pump. 2,867,976, 1-13-59, Cl. 60-52.
- Huber, Norman V.: *See*—  
Griss, Charles H., and Huber. 2,889,737.
- Huber, Paul: *See*—  
Lamb, Francis X., and Huber. 2,887,657.
- Lamb, Francis X., Huber, Estoppey, Roy, and Dempster. 2,875,409.
- Huber, Paul P., to Daystrom, Inc. Instrument bearing arrangement. 2,896,167, 7-21-59, Cl. 324-155.
- Huber, Richard: *See*—  
Sindel, Johann, Huber, and Zottmann. 2,903,498.
- Huber, Richard, to Eastern Rotorcraft Corp. Chain securing device with tilting block. 2,903,767, 9-15-59, Cl. 24-116.
- Huber, Robert, to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S.A. Devices for the adjustment of a system including at least one auto-generator of power gases and a receiver machine operated by said gases. 2,879,640, 3-31-59, Cl. 60-13.
- Huber, Robert, to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S.A. Gas turbines which are for a time mechanically driven in a direction opposed to their normal running direction. 2,902,255, 9-1-59, Cl. 253-70.



- Huber, Robert, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie, S.A. Power plants comprising free-piston gas generators adapted to supply hot power gas to a gas engine such as a gas turbine. 2,903,599, 9-8-59, Cl. 290-4.
- Huber, Robert, to Societe d'Etudes et de Participations Eau, Gaz, Electricite, Energie, S.A. Devices for keeping two free piston machines at least temporarily in phase with each other. 2,912,964, 11-17-59, Cl. 123-46.
- Huber, Ronald F.: See—  
Yonkers, Edward H., and Huber. 2,906,925.
- Huber, Ronald F., to Joslyn Mfg. and Supply Co. Spark gap unit. 2,906,922, 9-29-59, Cl. 315-59.
- Huber, Theodore A., to Jersey Production Research Co. Gun perforator. 2,876,843, 3-10-59, Cl. 166-55.
- Huber, William A. Television transmission system. 2,881,427, 4-7-59, Cl. 343-200.
- Huber, William W., to United States Ceramic Tile Co. Insert tool holder. 2,897,580, 8-4-59, Cl. 29-96.
- Hubers, Bernard C. Towel cabinet. 2,892,579, 6-30-59, Cl. 225-12.
- Hubers, Hendrik J., to North American Philips Co., Inc. Device for driving perforated picture film tape by means of a constant speed sprocket. 2,890,045, 6-9-59, Cl. 271-23.
- Hubert, Clarence A., to International Harvester Co. Independent power take-off mechanism. 2,899,034, 8-11-59, Cl. 192-48.
- Hubert, Clarence A., W. C. Rosenthal, and R. D. Barrett, to International Harvester Co. Reverse creeper-drive for tractors. 2,881,627, 4-14-59, Cl. 74-360.
- Hubert, Maryann J. Two-part baking apparatus. 2,889,766, 6-9-59, Cl. 99-139.
- Hubiak, Walter: See—  
Lohr, Raymond J., and Hubiak. 2,898,796.
- Hubl, Franz, to Keinzle Apparate G. m. b. H. Electrically operated text writing device for bookkeeping machines. 2,870,897, 1-27-59, Cl. 197-18.
- Hübl, Johann, to Landis Machine Co. Work feeding and transfer mechanisms. 2,870,663, 1-27-59, Cl. 80-6.
- Hübl, Johann, to Landis Machine Co. Workpiece transfer cylinder for rolling mechanisms. 2,871,736, 2-3-59, Cl. 80-6.
- Hubley Mfg. Co., The: See—  
Bair, Richard H. 2,896,708.  
Weimer, John H. 2,912,780.
- Hubner, Franz K. Butt seam joints for sheet material and the like. 2,897,567, 8-4-59, Cl. 24-205.13.
- Hübner, Gustav: See—  
Albert, Franz, and Hübner. 2,888,212.
- Hübner, Gustav, and F. Albert, to Societe d'Equipements Industriels et Laitiers. Comminuting machine. 2,888,213, 5-26-59, Cl. 241-46.
- Hübner, Hans H.: See—  
Neumann, Horst, Viehman, and Hübner. 2,909,466.
- Hubner, Udo, to International Standard Electric Corp. Electromagnetic impulse counter. 2,896,191, 7-21-59, Cl. 340-168.
- Hübner, Walter W. G., E. Lange, and E. Rindlisbacher, to Henkel & Cie. A.G. Production of granular perborates. 2,900,668, 8-25-59, Cl. 18-47.5.
- Huch, Carl W., and Carl W. Huch, Jr. Dry wall of bricks. 2,882,689, 4-21-59, Cl. 61-35.
- Huch, Carl W., Jr.: See—  
Huch, Carl W., and Carl W. Huch, Jr. 2,882,689.
- Huch, William F., to United States of America, Navy. Means for prolonging balloon flight. 2,904,285, 9-15-59, Cl. 244-31.
- Huch, William F., E. P. Ney, and J. R. Winckler, to United States of America, Navy. Duct appendix balloon. 2,900,147, 8-18-59, Cl. 244-31.
- Huchler, Otto: See—  
Kroeper, Hugo, Wirth, and Huchler. 2,914,554.
- Huck, Alfred J. Toaster control using negative temperature co-efficient resistor. 2,891,463, 6-23-59, Cl. 99-329.
- Huck, Alfred J. Toaster control. 2,891,464, 6-23-59, Cl. 99-329.
- Huck, Alfred J., to Knapp-Monarch Co. Combination griddle and fryer. 2,907,862, 10-6-59, Cl. 219-44.
- Huck, Alfred J., and C. D. Visos, to Knapp-Monarch Co. Automatic coffee maker for instant coffee. 2,898,842, 8-11-59, Cl. 99-275.
- Huck, Charles V. Flush tank ball valve stem guide. 2,869,142, 1-20-59, Cl. 4-57.
- Huck Co.: See—  
Huck, William F. 2,883,186.  
Huck, William F. 2,911,847.
- Huck Mfg. Co.: See—  
Brilmyer, Harold G. 2,887,003.  
Wait, Noel F. 2,916,828.
- Huck, William F., to Huck Co. Web tension control mechanism. 2,883,186, 4-21-59, Cl. 271-23.
- Huck, William F., to Huck Co. Backlash take-up gears. 2,911,847, 11-10-59, Cl. 74-440.
- Huck, William F., A. J. Albrecht, and D. P. Sanford, to The Brunswick Automatic Pinsetter Corp. Clutch. 2,911,079, 11-3-59, Cl. 192-3.5.
- Huckabee, Thad T. Cold smoking food products. 2,893,879, 7-7-59, Cl. 99-229.
- Hudachek, Raymond J., to California Research Corp. Rotation indicator for wax chiller. 2,877,993, 3-17-59, Cl. 259-1.
- Huddle, Edwin F., to International Harvester Co. Potato digger. 2,897,900, 8-4-59, Cl. 171-126.
- Huddle, Edwin F., and J. D. Clark, to International Harvester Co. Mower control mechanism. 2,895,278, 7-21-59, Cl. 56-25.
- Huddle, Roy A. U., T. F. Pearson, and M. de Lipa, to Consett Iron Co. Ltd., and United Kingdom Atomic Energy Authority. Mild steel. 2,901,346, 8-25-59, Cl. 75-124.
- Huddleston, Charles M.: See—  
Egler, Charles, and Huddleston. 2,884,529.
- Huddleston, Frank J., and D. H. Mooney, Jr., to United States of America, Navy. Subminiature servomechanism amplifier. 2,873,864, 2-10-59, Cl. 250-27.
- Huddleston, Richard H., Jr.: See—  
Carter, Daniel H., and Huddleston. 2,871,445.
- Huden, Thomas P. Ship's telegraph engine room recording mechanism. 2,906,581, 9-29-59, Cl. 346-8.
- Hudgens, Bernard C. 50% to R. B. Despard. Dispensing container. 2,876,782, 3-10-59, Cl. 132-74.5.
- Hudgin, Donald E., and F. Brown, to Celanese Corp. of America. Hydrogenating polymeric methyl isopropenyl ketone. 2,895,943, 7-21-59, Cl. 260-63.
- Hudkins, Clyde. Flush tank ball valve support assembly. 2,887,690, 5-26-59, Cl. 4-57.
- Hudkins, Clyde. Fishing bobber. 2,887,816, 5-26-59, Cl. 43-43.11.
- Hudkins, Clyde. Fishing bobber having temporary line retaining means. 2,888,773, 6-2-59, Cl. 43-43.11.
- Hudkins, Clyde, and R. R. Moore. Safety stop block. 2,870,506, 1-27-59, Cl. 24-129.
- Hudson, Arthur F. Metal cutting tool and holder. 2,903,781, 9-15-59, Cl. 29-96.
- Hudson, Arthur F. Contour forming machine. 2,916,858, 12-15-59, Cl. 51-127.
- Hudson, Carl E. Safety bobber for fish line. 2,892,283, 6-30-59, Cl. 43-43.4.
- Hudson, Charles H. Cannula. 2,868,199, 1-13-59, Cl. 128-206.
- Hudson, Charles N., to Sinclair Refining Co. Fuel oils. 2,917,375, 12-15-59, Cl. 44-62.
- Hudson, Doyle R.: See—  
Montgolf, Earl E., Smith, and Hudson. 2,903,934.
- Hudson, Edwin B. Fluid pressure actuated stabilizer for motor vehicles. 2,890,064, 6-9-59, Cl. 280-112.
- Hudson, Edwin M., and J. Vaccaro, Jr., to United States of America, Navy. Instrument illuminator. 2,907,869, 10-6-59, Cl. 240-2.1.
- Hudson Engineering Corp.: See—  
Goldsmith, John L., and James. 2,898,097.  
Hart, Frank W. 2,875,867.  
Petty, Macon. 2,909,230.  
Petty, Macon. 2,908,335.
- Hudson, Forrest H.: See—  
Brennan, Frederick S., Hudson, and Considine. 2,867,273.
- Hudson, Forrest H., to Ray-O-Lite Corp. of America. Awning end wing assembly jig. 2,870,531, 1-27-59, Cl. 29-286.
- Hudson, Geoffrey J., and W. E. Gregory, to Joseph Lucas (Industries) Ltd. Air-jacketed annular combustion chambers for jet-propulsion engines, gas turbines or like prime movers. 2,882,681, 4-21-59, Cl. 60-39.65.
- Hudson, George A., to Vickers Inc. Power transmission. 2,895,427, 7-21-59, Cl. 103-218.
- Hudson, George A., E. H. La Bombard, and O. A. Swanson, to Douglas Aircraft Co., Inc. High shear strength fastener. 2,907,418, 10-6-59, Cl. 189-36.
- Hudson, H. D., Mfg. Co.: See—  
Pinke, August H. 2,907,343.  
Pinke, August H. 2,918,082.
- Hudson, Harold R., W. Q. Nicholson, and M. C. Wilson, to Hycon Mfg. Co. Digital meter. 2,872,641, 2-3-59, Cl. 324-62.
- Hudson, Harold R., W. Q. Nicholson, and M. C. Wilson, to Hymac Corp. Digital meter. 2,889,518, 6-2-59, Cl. 324-115.
- Hudson, James E., to General Electric Co. Electric valve control circuit. 2,908,855, 10-13-59, Cl. 321-13.
- Hudson, James W., to The National Supply Co. Electrical fitting. 2,907,813, 10-6-59, Cl. 174-48.
- Hudson, James W., to The National Supply Co. Underfloor duct support. 2,912,197, 11-10-59, Cl. 248-49.
- Hudson, John L., to D. I. Babitch. Finger ring with deformed metal joint. 2,884,770, 5-5-59, Cl. 63-15.7.
- Hudson, Lena M.: See—  
Hayes, John D., and Hudson. 2,889,745.
- Hudson Optical Corp.: See—  
Gross, Robert. 2,887,008.
- Hudson, Paul A.: See—  
Selby, Myron C., Allred, Hudson, and Berry. 2,883,620.
- Hudson, Paul S.: See—  
Potts, Mack F., Smith, and Hudson. 2,887,490.  
Smith, Warren L., Potts, and Hudson. 2,874,159.
- Hudson, Richard E., Jr.: See—  
Waddle, Howard M., Cotton, and Hudson. 2,870,041.
- Hudson, Richard P., and J. W. Mooney, to The American Tobacco Co. Cigarette weighing machine. 2,906,456, 9-29-59, Cl. 235-92.
- Hudson, Robert L., to The Dow Chemical Co. Chloroethylene polymer stabilized with 1,2-epoxypropan-3-one derivatives. 2,890,200, 6-9-59, Cl. 260-45.8.



- Hudson, Robert L., to The Dow Chemical Co. Thermal stabilization of haloethylene polymers. 2,918,450, 12-22-59, Cl. 260—45.8.
- Hudson, Roland B., and R. N. Beck. Method of continuous well logging during drilling. 2,910,133, 10-27-59, Cl. 181—5.
- Hudson-Sharp Machine Co.: *See*—  
Barlament, Norval S., and Campbell. 2,883,121.
- Hudson, Vincent L.: *See*—  
Klotz, Herman J., and Hudson. 2,879,331.
- Hudson, William L., to Tokheim Corp. Magnetically driven tank pump apparatus. 2,885,126, 5-5-59, Cl. 222—333.
- Hudson, William L., to Tokheim Corp. Gas separator and eliminator. 2,897,913, 8-4-59, Cl. 183—2.5.
- Hudspeth, Frederick E. S., and R. P. Graham, to Chrysler Corp. Fuel flow scheduling means for fuel control systems. 2,880,713, 4-7-59, Cl. 123—119.
- Hudy, James A.: *See*—  
Goddu, Robert F., and Hudy. 2,914,540.
- Hudy, James A., to Hercules Powder Co. Preparation of oxetane polymers. 2,895,924, 7-21-59, Cl. 260—2.
- Hueber, Carl J., to Addressograph-Multigraph Corp. Printing machines. 2,868,120, 1-13-59, Cl. 101—336.
- Huebner, Jack: *See*—  
Sanzenbacher, Charles W., and Huebner. 2,897,158.
- Huebner, Charles F., to Ciba Pharmaceutical Products, Inc. 2-(4-isopentylloxyphenyl)-imino, 3-(4-isopentylloxyphenyl)-thiazolidine and therapeutically useful salts. 2,877,232, 3-10-59, Cl. 260—306.7.
- Huebner, Charles F., and D. F. Dickel, to Ciba Pharmaceutical Products, Inc.  $\Delta^{16}$ -16-carbo-lower alkoxy-3-epialloxyimbenes. 2,883,385, 4-21-59, Cl. 260—287.
- Huebner, William C., to The Standard Register Co. Apparatus for selecting printing characters. 2,869,443, 1-20-59, Cl. 95—4.5.
- Huebner, William C., to The Standard Register Co. Apparatus for reproducing images. 2,890,633, 6-16-59, Cl. 95—1.7.
- Huebner, William C., to The Standard Register Co. Apparatus for reproducing electrical information. 2,890,922, 6-16-59, Cl. 346—74.
- Huebner, William C., to The Standard Register Co. Apparatus for reproducing electrical information. 2,890,923, 6-16-59, Cl. 346—74.
- Huebscher, Herbert, to Standard Coil Products Co., Inc. Turret tuner with variable coupling means for constant oscillation injection. 2,905,814, 9-22-59, Cl. 250—20.
- Huehn, Arthur M., and E. C. Evans. Armature testing device. 2,890,407, 6-9-59, Cl. 324—57.
- Huehn, Werner. Production of neutral salts of aluminum with water-soluble organic acids. 2,918,484, 12-22-59, Cl. 260—448.
- Huehnel, Alwin L., to Square D Co. Wiring duct. 2,867,681, 1-6-59, Cl. 174—101.
- Huehns, Elmer H. Garment cases. 2,902,144, 9-1-59, Cl. 206—7.
- Huelden, Heinrich, to Hansen-Lynn Co., Inc. Dispenser. 2,870,967, 1-27-59, Cl. 241—222.
- Huelden, Heinrich, to Hansen-Lynn Co., Inc. Tablet breaker and dispenser. 2,870,968, 1-27-59, Cl. 241—235.
- Huelsdonk, Lewis L. Mucker skip. 2,901,134, 8-25-59, Cl. 214—103.
- Huelskamp, Richard F.: *See*—  
Krantz, Frank M., and Huelskamp. 2,867,128.
- Hueni, Albrecht, to Ciba Pharmaceutical Products, Inc. 2-( $\gamma$ -tert-butyl-O-O'-dimethyl-phenyl-methyl)-imidazoline and salts. 2,868,802, 1-13-59, Cl. 260—309.6.
- Huentelman, Howard M. Automatic trailer brake operator. 2,916,107, 12-8-59, Cl. 188—112.
- Huet, André. Tubular heat exchanger with cores. 2,869,836, 1-20-59, Cl. 257—262.14.
- Huet, André, to Combustion Engineering, Inc. Tube bender having a support sleeve with a circular aperture merging into an oval aperture. 2,882,953, 4-21-59, Cl. 153—40.
- Huet, André, to Combustion Engineering, Inc. Tube and plate connection. 2,886,881, 5-19-59, Cl. 29—157.5.
- Huet, André. Methods and apparatus for bending tubes. 2,897,872, 8-4-59, Cl. 153—48.
- Huet, André. Tubular heat-exchanger. 2,905,447, 9-22-59, Cl. 257—262.14.
- Huet, André, to Combustion Engineering, Inc. Apparatus for the formation of necks on headers. 2,910,897, 11-3-59, Cl. 78—1.
- Huet, André, to Combustion Engineering, Inc. Apparatus for forming necks on headers and indexing means to align punch and matrix with work area of header. 2,911,029, 11-3-59, Cl. 153—2.
- Huet, André. Heat exchanger. 2,911,199, 11-3-59, Cl. 257—236.
- Huet, André P. J. Heat exchangers with catalytic combustion. 2,878,789, 3-24-59, Cl. 122—4.
- Huett, George, and W. O. Ranky, to Stepan Chemical Co. Production of alkyl phenols. 2,900,418, 8-18-59, Cl. 260—624.
- Huetten, Clarence, and F. C. Smith, to P. R. Mallory & Co., Inc. Printed circuit switch. 2,883,482, 4-21-59, Cl. 200—5.
- Huetten, Clarence, and E. D. Aldred, to P. R. Mallory & Co., Inc. Tube retainer. 2,895,118, 7-14-59, Cl. 339—75.
- Huey, Guy L., and E. J. Kies, to The Massillon-Cleveland-Akron Sign Co. Knockdown A frame construction. 2,887,234, 5-19-59, Cl. 211—177.
- Huey, John J., to The United Electric Coal Companies. Bearing and coupling assembly for roll feeders and the like. 2,901,898, 9-1-59, Cl. 64—14.
- Huff, D'Alan E. Educational device for teaching arithmetic. 2,901,839, 9-1-59, Cl. 35—70.
- Huff, Floyd C. Fiberboard package for paint. 2,905,371, 9-22-59, Cl. 229—34.
- Huff, George F., to Callery Chemical Co. Production of alkali metal hydrides. 2,884,311, 4-28-59, Cl. 23—204.
- Huff, James L. Gaging device for oil tanks. 2,906,471, 9-29-59, Cl. 242—84.8.
- Huff, John. Frame structure for caster pintle. 2,885,718, 5-12-59, Cl. 16—39.
- Huff, John. Foldable rack. 2,892,548, 6-30-59, Cl. 211—178.
- Huff, John. Four way expandable table with rail guards. 2,917,262, 12-15-59, Cl. 248—172.
- Huff, John B., to United States of America, Atomic Energy Commission. Treatment of fission product waste. 2,897,049, 7-28-59, Cl. 23—21.
- Huff, Joseph F.: *See*—  
Jones, William A., and Huff. 2,872,812.
- Huff, Joseph F., and S. S. Wisotsky, to American Radiator & Standard Sanitary Corp. Pressure and temperature measuring system. 2,882,503, 4-14-59, Cl. 336—30.
- Huff, Leslie R. Endless paper roll type drafting board. 2,894,355, 7-14-59, Cl. 45—131.
- Huff, Lloyd G.: *See*—  
Huff, Violet P. 2,891,140.
- Huff, Malvin, to Viewlex, Inc. Recycling variable motor timer. 2,898,993, 8-11-59, Cl. 161—1.
- Huff, Malvin, and F. J. Cassie, to Viewlex, Inc. Slide magazine advancing means. 2,874,497, 2-24-59, Cl. 40—79.
- Huff, Mildred J.: *See*—  
Huff, Violet P. 2,891,140.
- Huff, Violet P.,  $\frac{1}{2}$  to L. G. Huff, and  $\frac{1}{2}$  to M. J. Huff. Vehicle light. 2,891,140, 6-16-59, Cl. 240—7.1.
- Huffadine, John B.: *See*—  
Moore, Norman C., and Huffadine. 2,893,112.
- Huffadine, John B., and R. W. Sanders, to The Plessey Co. Ltd. Resistors and resistor materials. 2,901,442, 8-25-59, Cl. 252—508.
- Huffington, Russell D., to United States Steel Corp. Kickout device for coils. 2,880,889, 4-7-59, Cl. 214—1.
- Huffman, Charles M., to Flour City Ornamental Iron Co. Weather stripping method of corner construction. 2,886,482, 5-12-59, Cl. 154—116.
- Huffman, Clifton J.: *See*—  
Ansel, Gerhard, and Huffman. 2,872,037.
- Harris, Clare S., and Huffman. 2,894,625.
- Huffman, Donald D., and E. C. Dwyer, to Westinghouse Air Brake Co. Railway signaling system. 2,884,517, 4-28-59, Cl. 246—34.
- Huffman, Robert L., to General Telephone Laboratories, Inc. Silicon carbide resistor mounting. 2,880,295, 3-31-59, Cl. 201—63.
- Huffman, Robert L., to General Telephone Laboratories, Inc. Coil winding machine. 2,916,220, 12-8-59, Cl. 242—4.
- Huffman, Samuel A.: *See*—  
Montgomery, William G., and Huffman. 2,905,084.
- Huffman, Thomas W., Jr.: *See*—  
Huffman, Thomas W., Sr., and T. W. Huffman, Jr. 2,887,097.
- Huffman, Thomas W., Sr., and T. W. Huffman, Jr. Supplemental cooling system for engine radiators. 2,887,097, 5-19-59, Cl. 123—41.51.
- Huffman, William A. H., to The Chemstrand Corp. Polyesters modified with chain terminating and chain branching agents and process for producing same. 2,895,946, 7-21-59, Cl. 260—75.
- Huffman, William A. H., to The Chemstrand Corp. Polyethylene terephthalates modified with chain-terminating compounds and process therefor. 2,905,657, 9-22-59, Cl. 260—75.
- Hufnagel, Andrew, to Westinghouse Air Brake Co. Electromagnetic switching devices. 2,897,317, 7-28-59, Cl. 200—104.
- Hufnagel, Andrew, to Westinghouse Air Brake Co. Timing relays. 2,916,582, 12-8-59, Cl. 200—97.
- Hufnagel, Edwin G., to Burry Biscuit Corp. Machine and method of making an ice cream and similar unit. 2,880,559, 4-7-59, Cl. 53—154.
- Hufnagl, Walter: *See*—  
Boyer, Wilhelm, Eisenburger, Hufnagl, and Ritter. 2,916,910.
- Hug, Hans: *See*—  
Schmitt, Hans, Siebel, Altenpohl, Hug, and Nuesch. 2,886,432.
- Hug, Thomas F. Cigarette filter. 2,867,219, 1-6-59, Cl. 131—10.
- Huge, Henry M., to Lorain Products Corp. Time-delay relay circuit. 2,892,133, 6-23-59, Cl. 317—141.
- Huge, Henry M., to Lorain Products Corp. Reference voltage device. 2,896,147, 7-21-59, Cl. 321—25.
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- Huggins, Earl. Measuring tape. 2,867,187, 1-6-59, Cl. 116-132.
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- Huggins, James A., to Chrysler Corp. Suburban vehicle. 2,888,296, 5-26-59, Cl. 296-24.
- Huggins, James E., Jr. Method of assembling electronic components. 2,871,547, 2-3-59, Cl. 29-155.5.
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- Huggins, William H. Apparatus and method for detecting voids in dielectric sheet material. 2,873,425, 2-10-59, Cl. 324-54.
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Rockriver, Clyde R. 2,898,843.
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- Bennett, Robert R. 2,896,198.
- Beno, Joseph H. 2,913,770.
- Berger, Nertardus N. 2,889,393.
- Berke, Nicholas E., Williams, and Fox. 2,891,720.
- Birdsall, Charles K., and Field. 2,885,641.
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- Blankenbaker, John V. 2,892,587.
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- Brewer, George R. 2,869,022.
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- Brewer, George R., and Sensiper. 2,869,018.
- Briggs, Vernon R. 2,877,949.
- Broadbent, Kent D. 2,919,432.
- Brower, David F. 2,897,462.
- Brower, David F., and Chater. 2,918,666.
- Chater, William T. 2,900,534.
- Chater, William T. 2,902,765.
- Cooke, Claude W., Jr. 2,903,525.
- Currie, Malcolm R. 2,869,021.
- Currie, Malcolm R. 2,911,558.
- Currie, Malcolm R. 2,914,699.
- Curtis, Daniel L. 2,883,525.
- Curtis, Daniel L. 2,903,606.
- Curtis, Daniel L. 2,903,677.
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- Day, Richard A., and Bateman. 2,872,596.
- De Haven, Robert M. 2,885,163.
- Dexter, George W., and Fonda-Bonardi. 2,887,684.
- Ehrlich, Morris J. 2,879,508.
- Elliott, Robert S. 2,878,453.
- Everhart, Thomas E., and Birdsall. 2,870,367.
- Ewald, Howard H. 2,905,401.
- Frazier, William D., and Wiseley. 2,915,678.
- Goodykoontz, James R., Jr. 2,870,728.
- Gudmundsen, Richard A., and Myer. 2,902,574.
- Haberland, Ernest R. 2,911,459.
- Hamilton, Douglas J. 2,868,897.
- Hecht, Lester S. 2,872,111.
- Heller, Elmer W. 2,877,692.
- Howe, Spencer D. 2,908,832.
- Iversen, Arthur H. 2,877,144.
- Iversen, Arthur H. 2,884,556.
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- Iversen, Arthur H. 2,918,358.
- Johnson, Horace R. 2,899,594.
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- Johnson, Robert R. 2,876,437.
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- Kelly, Kenneth C. 2,908,001.
- Korn, Bernard E. 2,904,143.
- Krause, Alfred J. 2,911,604.
- Kumagai, Tom T. 2,897,480.
- Kurtz, Louis A. 2,908,906.
- Lewis, Richard B. 2,899,672.
- Luftig, Sanford B. 2,879,385.
- MacFarland, Jay W., Jr. 2,885,039.
- MacIntyre, Alfred J., Jr., and Martel. 2,894,854.
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- Maxey, Thomas J. 2,878,448.
- McElroy, Melvin R. 2,898,479.
- McFadden, Norman F. 2,876,601.
- Morrison, Stephen C., and Williams. 2,891,149.
- Muinich, George, and Crockett. 2,869,804.
- Myer, Jon H. 2,896,134.
- Nuttall, Hubert V., and Richardson. 2,896,091.
- Rasmussen, George. 2,904,768.
- Rector, Eugene M., and Wilcox. 2,918,587.
- Redding, Robert A. 2,914,717.
- Roche, Richard A., Muinch, and Gagnon. 2,881,991.
- Romanelli, John. 2,904,706.
- Rose, Thomas H. 2,886,852.
- Rosen, Samuel A. 2,899,554.
- Sanders, Jack. 2,905,907.
- Sangster, Raymond C. 2,895,858.
- Sargeant, Homer I. 2,890,766.
- Schwartz, Bertram. 2,874,076.
- Sensiper, Samuel. 2,869,020.
- Sensiper, Samuel, and Wong. 2,911,555.
- Shank, Robert J., and Bowler. 2,878,466.
- Sinclair, John G., Jr. 2,894,223.
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- Smith, Eugene E., and Van Kirk. 2,903,741.
- Smith, George F. 2,884,558.
- Smith, George F. 2,887,610.
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- Smith, George F., and Koda. 2,887,597.
- Smith, Sidney T. 2,910,617.
- Speer, John H., Jr. 2,892,105.
- Stark, Louis. 2,897,459.
- Stear, Edwin B. 2,887,129.
- Sterns, William G. 2,878,472.
- Strassman, Alvin J., and Howard. 2,887,654.
- Strumwasser, Eric. 2,913,687.
- Taddeo, Fausto V. 2,905,887.
- Tyson, Owen A. 2,911,585.
- Van Atta, Lester C. 2,908,002.
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- Veach, Carlos W., and Crone. 2,894,184.
- Warren, William B., and Wohlman. 2,893,185.
- Watkins, Dean A. 2,869,019.
- Weglein, Rolf D. 2,880,354.
- Wheeler, Bryce A. 2,883,636.
- Williams, George L. 2,904,328.
- Wohlman, Fred. 2,877,533.
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- Ziegler, Robert M., Jr. 2,897,312.
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- Hughes, Donald N., to The Magnavox Co. Multi speed centrifuge. 2,891,398, 6-23-59, Cl. 73-1.
- Hughes, E. Griffiths, Ltd.: *See*—  
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- Hughes, Edward M.: *See*—  
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- Hughes, Edwin L., to Paramount Pictures Corp. Television secrecy system with width modulated synchronizing pulses. 2,892,882, 6-30-59, Cl. 178-5.1.
- Hughes, Ernest S., Jr.: *See*—  
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- Hamilton, Francis E., Hughes, Smith, and Furr. 2,919,429.
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Wood-Mallock, James C., and Hughes. 2,868,730.
- Hughes, Frederick C. Fish lure retriever. 2,915,845, 12-8-59, Cl. 43-17.2.
- Hughes, Hargis P., and N. M. White. Fluid replenisher and combined indicator and signal for hydraulic brake systems. 2,887,880, 5-26-59, Cl. 73-313.
- Hughes, Harris G.: *See*—  
McDonald, Leighton S., and Hughes. 2,917,554.
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- Hughes, James H.: *See*—  
Snow, Robert D., and Hughes. 2,912,944.
- Hughes, John D., to Westinghouse Electric Corp. Pumping apparatus for laundry equipment. 2,884,776, 5-5-59, Cl. 68-20.
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- Hughes, Lawrence J., and L. J. Weaver, to Monsanto Chemical Co. Ullmann reaction. 2,907,799, 10-6-59, Cl. 260-668.
- Hughes, Leland O.: *See*—  
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- Hughes, Leonard A. Electronic colorimeter. 2,915,938, 12-8-59, Cl. 88-14.
- Hughes, Max. Frozen confection loader and container. 2,874,736, 2-24-59, Cl. 141-234.
- Hughes, Norman J., to United-Carr Fastener Corp. Method of making lock nuts. 2,908,920, 10-20-59, Cl. 10-86.
- Hughes, Patrick H. Portable automobile fender cover. 2,919,141, 12-29-59, Cl. 280-150.
- Hughes, Peter J. Method and apparatus for solidifying steel ingots. 2,875,483, 3-3-59, Cl. 22-73.
- Hughes, Philip G., to General Electric Co. Control system for clothes dryers. 2,878,580, 3-24-59, Cl. 34-45.



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- Hughes, Richard V., to Gulf Oil Corp. Method of producing hydrocarbons. 2,889,880, 6-9-59, Cl. 166-6.
- Hughes, Robert W., to Joy Mfg. Co. Apparatus for and method of separating gases. 2,904,966, 9-22-59, Cl. 62-13.
- Hughes, Robert W., to International Telephone and Telegraph Corp. Communication system. 2,912,506, 11-10-59, Cl. 179-15.
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- Hughes, Robert W., to International Telephone and Telegraph Corp. Repeater station for a pulse multiplex system. 2,912,508, 11-10-59, Cl. 179-15.
- Hughes, Robert W., to International Telephone and Telegraph Corp. Crosstalk suppression. 2,912,509, 11-10-59, Cl. 179-15.
- Hughes, Robert W., and H. K. Flesch, to International Telephone and Telegraph Corp. Data processing control system. 2,894,249, 7-7-59, Cl. 340-174.
- Hughes, Robert W., and S. C. Collins, to Joy Mfg. Co. Apparatus for separating gases. 2,902,833, 9-8-59, Cl. 62-37.
- Hughes, Stuart B.: *See*—  
Miley, Walter M., Hughes, and High. 2,876,125.
- Hughes, Thomas H., to Pittsburgh Plate Glass Co. Multiple glazed unit. 2,873,486, 2-17-59, Cl. 20-56.5.
- Hughes Tool Co.: *See*—  
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Scott, Floyd L. 2,901,223.
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Grant, David, and Lorence. 2,909,927.  
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- Hughes, Vincent L.: *See*—  
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Kirshenbaum, Isidor, Hughes, and Banes. 2,909,538.
- Hughes, Vincent L., to Esso Research and Engineering Co. Carbonylation synthesis reaction. 2,880,241, 3-31-59, Cl. 260-604.
- Hughes, Vincent L., I. Kirshenbaum, and A. A. Schetelich, to Esso Research and Engineering Co. Process of esterification in the presence of hydroxylamine to inhibit discoloration. 2,876,253, 3-3-59, Cl. 260-475.
- Hughes, Vincent L., I. Kirshenbaum, and A. A. Schetelich, to Esso Research and Engineering Co. Esterification process for producing purified plasticized esters. 2,903,477, 9-8-59, Cl. 260-475.
- Hughes, Vincent L., I. Kirshenbaum, and A. A. Schetelich, to Esso Research and Engineering Co. Purification of plasticizer esters. 2,909,562, 10-20-59, Cl. 260-475.
- Hughes, William B., to Cities Service Research and Development Co. Method and composition for inhibiting corrosion of metals. 2,868,727, 1-13-59, Cl. 252-8.55.
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- Hughes, William B., to Cities Service Research and Development Co. Compounds containing the imidazoline and imidazolidone or imidazolidinethione groups. 2,895,961, 7-21-59, Cl. 260-309.6.
- Hughes, William B., to Cities Service Research and Development Co. Certain imidazolidineguanilylamine compounds. 2,899,442, 8-11-59, Cl. 260-309.7.
- Hughes, William B., to Cities Service Research and Development Co. 1-(2-thiazolynyl), 4-(2-oxazolynyl) benzene. 2,911,419, 11-3-59, Cl. 260-306.7.
- Hughes, William B., to Cities Service Research and Development Co. Certain maleimide derivatives of aliphatic-bis-imidazolines. 2,918,474, 12-22-59, Cl. 260-309.6.
- Hughes, William B., and V. L. Stromberg, to Petrolite Corp. Prevention of rust and corrosion. 2,888,401, 5-26-59, Cl. 252-8.55.
- Hughes, William B., and W. S. Fallgatter, to Cities Service Research and Development Co. Solvent separation of hydrocarbons. 2,904,508, 9-15-59, Cl. 208-311.
- Hughes, William C., and M. Skrivanek, to United States of America, Army. Frequency sweep generator. 2,881,318, 4-7-59, Cl. 250-36.
- Hughes, William F.: *See*—  
Matteson, Benjamin H., Hughes, and Ayer. 2,910,627.
- Hughes, William J., S. S. Haynes, J. E. Tracey, and E. L. Wheeler, to Bendix Aviation Corp. Machine for electrically welding aneroid capsules and other weldable articles in an evacuated chamber, and method. 2,899,538, 8-11-59, Cl. 219-82.
- Hughes-Caley, George F. Lugged engagement type coupling with reciprocable sleeve locking means. 2,889,158, 6-2-59, Cl. 285-86.
- Hughey, Carter J.: *See*—  
Michatek, Stephen F., Hughey, and Ferris. 2,908,208.
- Hughson, Douglas, J. H. O'Brien, and J. E. Witzky, to Studebaker-Packard Corp. Smoke control mechanism for diesel engines. 2,914,056, 11-24-59, Cl. 123-140.
- Hughson, J. Donald, to General Railway Signal Co. Frequency responsive train speed control system with direct current check circuit. 2,915,623, 12-1-59, Cl. 246-182.
- Hügle, Gebhard. Gate drive with slider crank. 2,893,141, 7-7-59, Cl. 39-7.
- Hugman, Robert H. H. Custom positioned golf club grip. 2,876,010, 3-3-59, Cl. 273-81.2.
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- Huhtala, William. Pipe brush. 2,903,731, 9-15-59, Cl. 15-230.
- Hui, In W., and S. Kruty, to Dearborn Chemical Co. Insulated pipe, reinforced laminated sheet material and method of making the sheet material. 2,897,841, 8-4-59, Cl. 138-64.
- Huisken, Wilhelm: *See*—  
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- Huisking, Joseph C., to Pomona Foundry, Inc. Box-stacking mechanism. 2,897,949, 8-4-59, Cl. 198-35.
- Huisman, Hendrikus O., and A. Smit, to North American Philips Co., Inc. Method of producing aldehydes by hydrolysis of aldimines obtained by reduction of nitriles. 2,904,594, 9-15-59, Cl. 260-598.
- Huitson, Robert R., to The British Thomson-Houston Co. Ltd. Ventilating plants. 2,891,717, 6-23-59, Cl. 230-2.
- Hulbert, Charles C., to The Pure Oil Co. Freezing point tester. 2,903,882, 9-15-59, Cl. 73-17.
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- Hulbert, Edward A.: *See*—  
Bachle, Carl F., and Hulbert. 2,913,083.  
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- Hulbert, George C. E. B.: *See*—  
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- Hulbert, Warren D.: *See*—  
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- Hulburt, Hugh M., and D. Hyman, to American Cyanamid Co. Process for the preparation of cyanogen. 2,908,551, 10-13-59, Cl. 23-151.
- Hulen, Claude K. Line-up table. 2,877,556, 3-17-59, Cl. 33-80.
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- Hulett, Henry R., and K. G. Heller, to American Radiator & Standard Sanitary Corp. Combustion control system. 2,884,996, 5-5-59, Cl. 158-28.
- Huley, John W.: *See*—  
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- Hulisz, William W., and G. C. Johnson. Belt sanding machines. 2,891,359, 6-23-59, Cl. 51-143.
- Hull, Charles J., and F. H. Osborne, to The Rudolph Wurlitzer Co. Automatic phonograph. 2,891,797, 6-23-59, Cl. 274-10.
- Hull, Clair I.: *See*—  
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- Hull, David C., and R. J. Schrader, to Eastman Kodak Co. Method for pelleting organic thermoplastic materials. 2,918,701, 12-29-59, Cl. 18-47.5.
- Hull, Dean R., and R. A. Whitlock, Jr., to Aquamatic Inc. Flow control apparatus for water treatment systems. 2,870,788, 1-27-59, Cl. 137-613.
- Hull, Denver H.: *See*—  
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- Hull, Francis R. Caster structure. 2,905,964, 9-29-59, Cl. 16-20.
- Hull, Harry H., to R. R. Donnelley & Sons Co. Inking system for rotary printing presses. 2,875,691, 3-3-59, Cl. 101-350.
- Hull, Hubert H. Woven wire laying, stretching and pickup device. 2,912,183, 11-10-59, Cl. 242-86.5.
- Hull, James B. Automatic lubricating device for automobiles. 2,908,848, 10-13-59, Cl. 317-141.
- Hull, John W.: *See*—  
Bremer, Allen R., and Hull. 2,913,269.
- Hull, Joseph F., to Litton Industries Of California. Broad-band output coupler. 2,886,742, 5-12-59, Cl. 315-39.
- Hull Mfg. Co., The: *See*—  
Hull, Walter E. 2,875,973.
- Hull, Maurice E., J. F. Lucasey, and D. Hoback, to Armour and Co. Drying of Swiss whey. 2,897,083, 7-28-59, Cl. 99-57.
- Hull, R. Dell. Spinning type fishing reel. 2,915,258, 12-1-59, Cl. 242-84.2.
- Hull, Richard L., to American Machine and Metals, Inc. Fan casing. 2,898,030, 8-4-59, Cl. 230-117.



- Hull, Robert E.: *See*—  
Nesler, John J., and Hull. 2,914,704.
- Hull, Roger S.: *See*—  
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- Hull, Roger S., to The National Cash Register Co. Solenoid operating circuits. 2,878,431, 3-17-59, Cl. 317-155.5.
- Hull, Roy, to Imperial Chemical Industries Ltd. New indole derivatives. 2,872,372, 2-3-59, Cl. 167-58.
- Hull, Thomas N., Jr., to General Electric Co. Turbine bucket vibration dampener and sealing assembly. 2,912,223, 11-10-59, Cl. 253-77.
- Hull, Walter E., to The Hull Mfg. Co. Object supporting means. 2,873,973, 3-3-59, Cl. 248-206.
- Hull, William G.: *See*—  
Needham, James C., Hull, and Houldcroft. 2,867,743.
- Hull, Wilson R., and D. J. Campbell, Jr., to American Can Co. Method of preparing and handling coated sheet material. 2,881,516, 4-14-59, Cl. 29-407.
- Hull, Winfield S. Characterized package. 2,884,177, 4-23-59, Cl. 229-8.
- Hullar, Herbert E., to The Murray Corp. of America. Laundry dryers. 2,867,430, 1-6-59, Cl. 263-33.
- Hullar, Herbert E., to The Murray Corp. of America. Driers. 2,875,996, 3-3-59, Cl. 263-33.
- Hullen, Gunter: *See*—  
Asendorf, Erich, and Hullen. 2,912,367.
- Hulls, Leonard R., and R. L. Duke, to Canadian Westinghouse Co., Ltd. Analogue to digital converter apparatus. 2,909,717, 10-20-59, Cl. 318-28.
- Hulman, Julius: *See*—  
Beaman, Bernard, and Hulman. 2,914,088.
- Hulot, Georges: *See*—  
Rubin, Maurice, and Hulot. 2,905,529.
- Hulse, Donald S. Fracturing process with superimposed cyclic pressure. 2,915,122, 12-1-59, Cl. 166-42.
- Hulse, Robert E., to National Distillers and Chemical Corp. Method of producing multivalent metal. 2,916,374, 12-8-59, Cl. 75-84.5.
- Hulsebus, Richard P., to Outboard Marine Corp. Outboard motor tilt release. 2,911,938, 11-10-59, Cl. 115-17.
- Hulsey, Ronald E.: *See*—  
Reeder, James R., and Hulsey. 2,883,561.
- Schuh, Niles F., Reeder, Lowry, and Hulsey. 2,885,569.
- Hulsey, Ronald E., J. R. Reeder, and N. F. Schuh, to Westinghouse Electric Corp. Protective system for alternating current generators. 2,917,638, 12-15-59, Cl. 307-86.
- Hulslander, William L.: *See*—  
Dotter, John H., and Hulslander. 2,910,050.
- Hulswit, William H., Jr.: *See*—  
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- Hulswit, William H., Jr., V. H. Berry, and K. A. Reid, to United States Rubber Co. Method of making pneumatic tires. 2,884,044, 4-28-59, Cl. 154-14.
- Hultberg, Rolf E., Jr., and T. E. D. Bilde, to Aktiebolaget Elektrolux. Junction cleaner structure. 2,916,104, 12-8-59, Cl. 183-37.
- Hulterstrom, Albert F. E., to Jonsereds Fabriks Aktiebolag. Adjustable guide rings for milling machines. 2,913,026, 11-17-59, Cl. 144-253.
- Hultgren, Arnold F., to American Molded Products Co. Plastic encased coil. 2,882,504, 4-14-59, Cl. 336-96.
- Hultgren, Karl S. R.: *See*—  
Henstrom, Sten A., and Hultgren. 2,891,448.
- Hultkrans, Paul B., M. E. Griem, and D. W. Davis, to Milprint, Inc. Apparatus for packaging commodities. 2,901,875, 9-1-59, Cl. 53-261.
- Hulton, Charles S., C. W. Mullenbagen, and R. G. Wiedenbein, to The Kirk & Blum Mfg. Co. Method and means for obtaining high moisture removal. 2,897,601, 8-4-59, Cl. 34-21.
- Hulzschuh, Donald L., C. A. Kurka, E. N. Phillips, and R. A. Streeter, to Collins Radio Co. Waveguide switch and electrical control means thereof. 2,905,908, 9-22-59, Cl. 333-7.
- Humber, John N., and C. H. Nystrom, to American Bosch Arms Corp. Fuel injection apparatus. 2,895,465, 7-21-59, Cl. 123-140.
- Humbert, Kingsley E., Jr., to Wix Corp. Screw neck type filter. 2,873,029, 2-10-59, Cl. 210-440.
- Humbert, Kingsley E., Jr., to Wix Corp. Mounting and adapter for screw neck type filter. 2,894,630, 7-14-59, Cl. 210-133.
- Humbert, Kingsley E., Jr., to Wix Corp. Filter unit. 2,897,966, 8-4-59, Cl. 210-168.
- Humbert, Kingsley E., Jr., R. L. Young, and L. M. Hough, to Wix Corp. Portable filter for removing contaminants from fluids and filter cartridge therefor. 2,902,161, 9-1-59, Cl. 210-416.
- Humbert, Kingsley E., Jr., R. L. Young, and L. M. Hough, to Wix Corp. Screw neck type filter cartridge. 2,902,162, 9-1-59, Cl. 210-438.
- Humbert, Kingsley E., Jr., to Wix Corp. Filter structure. 2,902,163, 9-1-59, Cl. 210-440.
- Humbert, Reuben J. Smoker's lamp. 2,875,679, 3-3-59, Cl. 98-43.
- Humble Oil & Refining Co.: *See*—  
Marquis, Urban C. 2,896,931.
- Marquis, Urban C. 2,896,932.
- Phillips, Cecil, Jr., and Camp. 2,917,345.
- Humboldt Co., The: *See*—  
McIntyre, Sidney S., Sr. 2,883,068.
- McIntyre, Sidney S., Sr. 2,900,089.
- Hume, George G. Bird feeder. 2,888,905, 6-2-59, Cl. 119-55.
- Hume, Henry M. Television program control. 2,918,524, 12-22-59, Cl. 178-5.6.
- Hume, Horace D. Trailer hitch for automobiles. 2,872,212, 2-3-59, Cl. 280-406.
- Hume, Horace D. Trailer hitch resilient about horizontal transverse pivot. 2,872,214, 2-3-59, Cl. 280-489.
- Hume, Horace D. Floating cutter bar support mounting. 2,915,870, 12-8-59, Cl. 56-208.
- Hume, Horace D. Crop loader. 2,916,137, 12-8-59, Cl. 198-165.
- Hume, Horace D. Counterbalance means for crop loader drapers. 2,916,138, 12-8-59, Cl. 198-165.
- Hume, James P.: *See*—  
Wall, Mary F., and Hume. 2,871,848.
- Hume, Peter D., to Westinghouse Electric Corp. Frequency multiplier. 2,907,944, 10-6-59, Cl. 321-69.
- Humel, Edward. Measuring and marking ruler. 2,882,601, 4-21-59, Cl. 33-26.
- Humes, David E. and R. F., Jr. Illuminable float with bite signal. 2,914,879, 12-1-59, Cl. 43-17.
- Humes, Gale, to M. Turchan, d. b. a. Turchan Follower Machine Co. Tracer controlled valve. 2,872,148, 2-3-59, Cl. 251-3.
- Humes, Harold L., Jr., and G. C. Randolph. Radiant energy responsive communications system. 2,909,765, 10-20-59, Cl. 340-221.
- Humes, Roy F., Jr.: *See*—  
Humes, David B. and R. F., Jr. 2,914,879.
- Humetz, David E.: *See*—  
Knight, Geoffrey, Jr., Humetz, and Johnson. 2,911,594.
- Humke, Maurice E. Drinking glass. 2,903,818, 9-15-59, Cl. 46-116.
- Hummel, Charles D., Sr.: *See*—  
Roberts, Ray J. D. 2,913,552.
- Hummel, Floyd A., to Glen-Gery Shale Brick Corp. Glazing composition for structural clay products and process for making same. 2,871,132, 1-27-59, Cl. 106-45.
- Hummel, Gerhard: *See*—  
Meyer, Konrad, Hummel, Ewert, and Hofmann. 2,905,841.
- Hummel, Richard: *See*—  
Ott, Josef, Hackel, Hummel, Wiedemann, and Sigel. 2,914,362.
- Hummel, Wiley M.: *See*—  
Gustafson, Ralph W., and Hummel. 2,878,344.
- Hummel, John D., to Battelle Memorial Institute. Dust separator. 2,876,862, 3-10-59, Cl. 183-105.
- Hummer, Ralph G., F. W. Young, and K. H. Schweitzer. Sign holder and baby seat for telescoping carts. 2,895,243, 7-21-59, Cl. 40-125.
- Hummert, Fred. Hearing aid ear-piece gasket. 2,908,343, 10-13-59, Cl. 181-23.
- Humphlett, Wilbert J., and C. V. Wilson, to Eastman Kodak Co. Method of solubilizing vitamins A, B<sub>2</sub>, D<sub>2</sub> and E. 2,875,195, 2-24-59, Cl. 260-211.3.
- Humphlett, Wilbert J., and C. V. Wilson, to Eastman Kodak Co. Method of solubilizing steroids. 2,875,214, 2-24-59, Cl. 260-397.2.
- Humphner, Ferdinand W., to Minnesota Mining and Mfg. Co. Filament reinforced gummed tear-tape. 2,895,865, 7-21-59, Cl. 154-53.5.
- Humphreville, Byron T., to Niantic Co. Inc. Means for setting a cutting tool. 2,886,896, 5-19-59, Cl. 33-185.
- Humphrey, Andrew J., to The Reliance Electric & Engineering Co. Mercury vapor discharge device. 2,907,905, 10-6-59, Cl. 313-32.
- Humphrey, Frederick H. Automobile amusement device. 2,908,996, 10-20-59, Cl. 46-55.
- Humphrey, Irving H.: *See*—  
Humphrey, Stanley A. and I. H. 2,903,878.
- Humphrey, James W.: *See*—  
Hibner, De Los E., Jr., and Humphrey. 2,883,694.
- Humphrey, John H., and R. H. Dorf; said Dorf assor. to said Humphrey. Electronic musical instruments. 2,888,849, 6-2-59, Cl. 84-1.01.
- Humphrey, John R.: *See*—  
Breisch, John H., and Humphrey. 2,916,972.
- Humphrey, Norman J., to Bankit Container Co. Paper and coin container. 2,917,224, 12-15-59, Cl. 229-72.
- Humphrey, Ralph L. Awnings. 2,893,073, 7-7-59, Cl. 20-57.5.
- Humphrey, Robert C.: *See*—  
Webster, Antone J., and Humphrey. 2,891,607.
- Humphrey, Stanley A. and I. H. Wall construction. 2,903,878, 9-15-59, Cl. 72-16.
- Humphrey, Warren A., to The Hoover Co. Electric irons. 2,871,588, 2-3-59, Cl. 38-77.
- Humphrey, Warren A., to The Hoover Co. Electric fry pan. 2,872,561, 2-3-59, Cl. 219-44.
- Humphrey, William K.: *See*—  
Conn, John B., and Humphrey. 2,898,191.
- Humphrey, William T., to Bourbon Cooperage Co. Inc. Barrel stave forming machine. 2,893,446, 7-7-59, Cl. 143-48.
- Humphreys & Glasgow Ltd.: *See*—  
Williams, Norman H., and Hawkes. 2,869,991.
- Humphreys, John W., to Johnson Products, Inc. Self-aligning tappet. 2,882,878, 4-21-59, Cl. 123-90.
- Humphreys Medicine Co., Inc.: *See*—  
Dullaghan, Matthew E., and Hochstadt. 2,897,115.



- Humphreys, Robert E.: *See*—  
Mullen, Thomas W., and Humphreys. 2,904,290.
- Humphries, Douglas N. Sawhorse. 2,874,003, 2-17-59, Cl. 304-5.
- Humphries, Mary L.: *See*—  
Barns, Robert L., Dosher, Humphries, Jeanes, Lyon, Perry, Speer, and Earhart. 2,900,343.
- Hunau, Lillian, to Exquisite Form Brassiere Inc. Foundation garment. Re. 24,640, 4-28-59, Cl. 128-493.
- Hundahl, Robert E. Livestock gates and construction thereof. 2,876,997, 3-10-59, Cl. 256-14.
- Hunger, Alfred: *See*—  
Wettstein, Albert, Hunger, Meystre, and Ehmman. 2,900,398.
- Hungerford, Churchill, Jr.: *See*—  
Weston, Richard G., and Hungerford. 2,891,008.
- Hungerford, Gordon P., and J. C. Yarze, to American Machine & Foundry Co. Glass fiber dispersions, sheets, plastic impregnated sheets and methods of forming. 2,906,660, 9-29-59, 162-102.
- Hungerford, Philip C., Jr., and D. R. Tomko, to Curtiss-Wright Corp. Plural speed driving mechanisms. 2,885,896 5-12-59, Cl. 74-217.
- Hungerford & Terry, Inc.: *See*—  
Weston, Richard G., and Hungerford. 2,891,008.
- Hunkins, Everett D. Concrete mixer. 2,895,722, 7-21-59, Cl. 259-164.
- Hunn, James V., to The Sherwin-Williams Co. Gelled plastic carving medium. 2,872,349, 2-3-59, Cl. 117-94.
- Hunn, James V., and A. E. Ogren, to The Sherwin-Williams Co. Clamp for two-roll paint applicator. 2,871,500, 2-3-59, Cl. 15-246.
- Hunsberger, Isaac M., to Antioch College of Yellow Springs. Composition for developing surface disturbances on a photographic film. 2,879,160, 3-24-59, Cl. 96-66.
- Hunsberger, Isaac M., to Antioch College of Yellow Springs. Antifogant for photographic developers and solubilizing agent for hydrazines. 2,892,715, 6-30-59, Cl. 96-66.
- Hunsicker, William R., to Seismograph Service Corp. Radio location system. 2,872,676, 2-3-59, Cl. 343-105.
- Hunsucker, William A. Marine hoisting apparatus. 2,916,002, 12-8-59, Cl. 114-5.
- Hunt, A. H. (Capacitors), Ltd.: *See*—  
Bettridge, Frederick L. G. 2,891,362.  
Graham, Peter E., and Smith. 2,897,066.  
Robinson, Frederick C., and Grouse. 2,919,390.
- Hunt, Charles D.A.: *See*—  
Hanks, Charles W., Hunt, and Smith. 2,880,483.
- Hunt, Clayton E., Jr.: *See*—  
Thompson, Russell G., and Hunt. 2,899,498.
- Hunt, Clayton E., Jr., to Eastman Kodak Co. Apparatus for printing multiple line labels. 2,903,961, 9-15-59, Cl. 101-93.
- Hunt, Clayton E., Jr., to Eastman Kodak Co. Device for restricting characters to predetermined number in facsimile apparatus. 2,908,755, 10-13-59, Cl. 178-30.
- Hunt, Clayton E., Jr., to Eastman Kodak Co. Device for providing predetermined spacing in facsimile apparatus. 2,908,756, 10-13-59, Cl. 178-30.
- Hunt, Clayton E., Jr., to Eastman Kodak Co. Conversion device for facsimile apparatus. 2,912,500, 11-10-59, Cl. 178-30.
- Hunt, Donald W.: *See*—  
Hunt, Warren L. 2,876,011.
- Hunt Foods, Inc.: *See*—  
Froehlich, Charles W. 2,894,516.
- Hunt, Gerald R. Drill pipe wiper. 2,914,786, 12-1-59, Cl. 15-210.
- Hunt, Harry C., to American Safety Table Co., Inc. Multiple drive transmission unit. 2,878,912, 3-24-59, Cl. 192-18.
- Hunt, Harry C., and S. R. Frankel, to American Safety Table Co., Inc. Apparatus for trimming, turning and pressing collars and the like. 2,909,307, 10-20-59, Cl. 223-2.
- Hunt, Harry G.: *See*—  
Bain, Joseph P., Booth, Hunt, and Klein. 2,871,268.
- Hunt, Howard C.: *See*—  
Hunt, Warren L. 2,876,011.
- Hunt, James J.: *See*—  
Adler, Franklin P., Hunt, and Miers. 2,911,925.
- Hunt, James R.: *See*—  
Berg, Clyde H., Hines, Hunt, Reeg, and Ballard. 2,881,117.
- Hunt, John C., D. S. Maisel, and D. W. Wood, to Esso Research and Engineering Co. Preparation of drying oils by the polymerization of the products from the codehydrogenation of butane and ethyl benzene. 2,906,787, 9-29-59, Cl. 260-669.
- Hunt, John M.: *See*—  
Toth, William E., and Hunt. 2,889,988.
- Hunt, John M., to Link Aviation, Inc. Computer function generation. Re. 24,634, 4-21-59, Cl. 235-191.
- Hunt, John M., to Link Aviation, Inc. Function generator employing multiple potentiometers. 2,886,244, 5-12-59, Cl. 235-197.
- Hunt, John M. Resilient reloading clip for revolvers. 2,896,353, 7-28-59, Cl. 42-89.
- Hunt, John M., to Link Aviation, Inc. Low distortion cathode follower. 2,912,524, 11-10-59, Cl. 179-171.
- Hunt, John S., A. G. Long, and B. Mooney, to Glaxo Laboratories Ltd. Process for the preparation of steroid compounds. 2,880,218, 3-31-59, Cl. 260-397.45.
- Hunt, Lowell D. Fixture. 2,912,208, 11-10-59, Cl. 248-263.
- Hunt, Nathan C., to Hunt Valve Co. Fluid control valve. 2,908,291, 10-13-59, Cl. 137-622.
- Hunt, Norman K. Electrically actuated weighing device. 2,899,191, 8-11-59, Cl. 265-27.
- Hunt, Raymond S., Jr.: *See*—  
Saville, Eric J. 2,917,072.
- Hunt, Reed O., E. W. Erickson, W. J. Lowndes, J. D. Wethern, and J. G. Coma, to Crown Zellerbach Corp. Method of shipping cellulose pulp in bulk. 2,884,147, 4-28-59, Cl. 214-152.
- Hunt, Reginald R. Permit system for parking automobiles. 2,870,735, 1-27-59, Cl. 116-133.
- Hunt, Robert A.: *See*—  
Fribance, Austin E., and Hunt. 2,867,768.
- Hunt, Robert A., and A. E. Fribance, to Rochester Mfg. Co. Remote indicating apparatus. 2,867,769, 1-6-59, Cl. 324-146.
- Hunt, Robert E.: *See*—  
Pstaty, Leon A., Hunt, and Blurton. 2,917,215.
- Hunt, Robert E., to Sylvania Electric Products Inc. Static escapement device. 2,891,668, 6-23-59, Cl. 209-107.
- Hunt, Robert L. Mail box. 2,889,981, 6-9-59, Cl. 232-35.
- Hunt, Rodney, Machine Co.: *See*—  
Bechtler, Hans C. 2,868,279.
- Hunt Valve Co.: *See*—  
Chessman, Samuel C., and Meyer. 2,901,677.
- Hunt, Nathan C. 2,908,291.
- Hunt, Warren L., deceased, D. W. and H. C. Hunt, administrators, to Ranger Bowling & Chemical Co. Method of reinforcing and finishing a bowling pin. 2,876,011, 3-3-59, Cl. 273-82.
- Hunt, William J., 1/2 to R. G. Garland. Color divided hypodermic syringe. 2,888,015, 5-26-59, Cl. 128-218.
- Hunt, Wilson W., and J. L. Amos, to The Dow Chemical Co. Devolatilizer. 2,914,120, 11-24-59, Cl. 159-27.
- Hunter, Arthur T., to Combustion Engineering, Inc. Air heater. 2,919,118, 12-29-59, Cl. 257-224.
- Hunter, Clarence S., to Eastman Kodak Co. Chemical ink. 2,879,168, 3-24-59, Cl. 106-22.
- Hunter, David U., to Fairchild Engine and Airplane Corp. Apparatus for separating moisture and condensable vapors from a gas. 2,897,917, 8-4-59, Cl. 183-77.
- Hunter, Don L., and E. W. Fajans, to United States Borax & Chemical Corp. Tri-cyclohexyl borates. 2,878,256, 3-17-59, Cl. 260-462.
- Hunter, Donald G. N.: *See*—  
Wright, Esmond P. G., Rice, and Hunter. 2,871,464.
- Hunter, Edward A.: *See*—  
Aldridge, Clyde L., and Hunter. 2,912,401.
- Hunter, Edward A., and E. M. Gladrow, to Esso Research and Engineering Co. Method of catalyst preparation. 2,873,257, 2-10-59, Cl. 252-465.
- Hunter, Edward A., and M. A. Segura, to Esso Research and Engineering Co. Hydroforming catalyst containing zinc oxide. 2,906,713, 9-29-59, Cl. 252-453.
- Hunter, Edwin J. Automatic control for irrigation systems. 2,893,641, 7-7-59, Cl. 239-64.
- Hunter, Edwin J. Sprinkler head. 2,909,325, 10-20-59, Cl. 239-97.
- Hunter, Frederick M. Machine flywheels. 2,879,674, 3-31-59, Cl. 74-572.
- Hunter, George D., to Deere & Co. Earth working tool mounting means. 2,904,119, 9-15-59, Cl. 172-762.
- Hunter, Henry L., 3rd: *See*—  
Gray, John W., and Hunter. 2,889,470.
- Hunter, Herbert T., to DCA Food Industries, Inc. Method and apparatus for the production of comestibles. 2,897,772, 8-4-59, Cl. 107-54.
- Hunter, Herbert T., and B. W. Wilson, to DCA Food Industries Inc. Apparatus for production of cooked products. 2,867,162, 1-6-59, Cl. 99-354.
- Hunter, James A.: *See*—  
Taylor, Ronald W., and Hunter. 2,888,259.
- Hunter, James F., to R. M. Hunter. Shade operating mechanism. 2,875,981, 3-3-59, Cl. 254-190.
- Hunter, James, Inc.: *See*—  
Leineweber, William F., Jr. 2,885,741.  
Moore, Lindsay B. 2,904,079.
- Hunter, James, Machine Co.: *See*—  
Morrill, Frank B. 2,896,303.
- Hunter, James P.: *See*—  
Brennan, Daniel H., and Hunter. 2,892,203.
- Hunter, Jonathan, to Marchant Research, Inc. Magnetic tape transport mechanism. 2,869,799, 1-20-59, Cl. 242-55.12.
- Hunter, Jonathan, to Marchant Research, Inc. Mechanical shift register. 2,896,843, 7-28-59, Cl. 235-61.
- Hunter, Joseph, M. J. Kelley, and W. Nothum, to Nopco Chemical Co. Filling and scouring compositions. 2,918,428, 12-22-59, Cl. 252-8.75.
- Hunter, Lloyd P., to International Business Machines Corp. Current multiplication transistors and method of producing same. 2,867,733, 1-6-59, Cl. 307-88.5.
- Hunter, Lloyd P., to International Business Machines Corp. Coincidence flux memory system. 2,869,112, 1-13-59, Cl. 340-174.
- Hunter, Lloyd P., to International Business Machines Corp. Formation of P-N junctions. 2,897,105, 7-28-59, Cl. 148-1.5.



- Hunter, Lloyd P., to International Business Machines Corp. Fabrication of diffused junction semi-conductor devices. 2,898,247, 8-4-59, Cl. 148-1-5.
- Hunter, Richard C., to Bailey Meter Co. Fluid pressure transmitter with square root converter. 2,917,064, 12-15-59, Cl. 137-85.
- Hunter, Robert H.: *See—*  
Brandner, John D., and Hunter. 2,889,297.
- Hunter, Robert H., and R. S. Damon; said Damon assor. to said Hunter. Multiple fuel burner and space heater. 2,876,763, 3-10-59, Cl. 126-110.
- Hunter, Robert H., and H. W. Smith; said Smith assor. to said Hunter. Louvered stack for hot air heater. 2,883,979, 4-28-59, Cl. 126-90.
- Hunter, Roger W., to International Telephone and Telegraph Corp. Electron discharge devices. 2,917,658, 12-15-59, Cl. 315-13.
- Hunter, Rosemary M.: *See—*  
Hunter, James F. 2,875,981.
- Hunter, Thomas, Ltd.: *See—*  
Clift, Paul E. 2,869,303.
- Hunter, William A., to T. M. M. (Research) Ltd. Drafting apparatus of textile spinning machines. 2,879,551, 3-31-59, Cl. 19-157.
- Hunter, William A., to T. M. M. (Research) Ltd. Machinery for opening, cleaning and subsequent treatment of textile fibrous material. 2,911,684, 11-10-59, Cl. 19-72.
- Hunter, William H.: *See—*  
Coates, Harold, and Hunter. 2,880,223.  
Coates, Harold, and Hunter. 2,897,224.
- Hunter, Wilmont L., and R. L. Ropa, to Hoffman Electronics Corp. Amplitude modulated blocking oscillators or the like. 2,919,415, 12-29-59, Cl. 332-14.
- Hunter, Windsor H., to Raytheon Mfg. Co. Thermionic tubes. 2,872,610, 2-3-59, Cl. 313-260.
- Hunting, Bernardus J., A. Rinzema, and H. Overeem, deceased, by J. D. Heijligers, executor, to North American Philips Co., Inc. Fixture suspending phonograph record blank. 2,890,160, 6-9-59, Cl. 204-281.
- Huntington, Lillian J. Toilet. 2,866,980, 1-6-59, Cl. 4-142.
- Huntington, Wilbur J.: *See—*  
Newsom, Earl G., and Huntington. 2,896,074.
- Huntley, Alton K., and R. Carmichael, Union Carbide Corp. Battery connector. 2,901,526, 8-25-59, Cl. 136-135.
- Huntley, James R., and W. F. Southard, to Tool Service Engineering Co. Measuring gauge structure. 2,892,256, 6-30-59, Cl. 33-125.
- Huntley, Keith G., to Electric & Musical Industries Ltd. Generation of colour television signals. 2,900,441, 8-18-59, Cl. 178-5-4.
- Huntley, Keith G., and E. L. C. White, to Electric & Musical Industries Ltd. Valve chain circuits. 2,906,870, 9-29-59, Cl. 250-27.
- Huntley, Mrs. Ione: *See—*  
Shelamer, Charles L., Sr. 2,883,712.
- Huntley & Palmers Ltd.: *See—*  
Packman, Percival J., and Morton. 2,881,900.
- Huntley, Walter H. Key holding device. 2,869,354, 1-20-59, Cl. 70-456.
- Hunton, Robert D., to United States of America, Navy. Ordnance construction. 2,872,867, 2-10-59, Cl. 102-70-2.
- Hunton, Robert D., to United States of America, Commerce. Dosimeter. 2,903,593, 9-8-59, Cl. 250-83-3.
- Huntsinger Associates: *See—*  
Hanes, James W. E. 2,900,028.
- Huntsinger, Charles E.: *See—*  
Boyd, Robert L., Jr., and Huntsinger. 2,882,383.
- Hunz, Alphonse W. Low table unit. 2,869,948, 1-20-59, Cl. 311-17.
- Hunziker, Charles E. Spraying means. 2,868,379, 1-13-59, Cl. 210-91.
- Hupert, Julius J.: *See—*  
Maciszewski, Arthur H., Hupert, Goldstein, and Szubski. 2,881,315.
- Hupert, Julius J., A. H. Maciszewski, and A. M. Reslock, to A.R.F. Products, Inc. Instrument for alignment of frequency-selective amplifiers. 2,905,886, 9-22-59, Cl. 324-57.
- Hupp, Arleigh G. Power boat adapted to be planed on water. 2,875,720, 3-3-59, Cl. 114-66-5.
- Hupp Corp.: *See—*  
Bartels, Bernhard E. 2,892,250.  
Brehm, Howard E., Jr., and Mitchell. 2,871,778.  
Broser, Immanuel J., and Broser-Warminsky. 2,918,437.  
Perry, Robert P. 2,867,092.  
Ravich, Leonard E. 2,890,939.  
Rocard, Yves A., and Bartels. 2,884,345.  
Rosebrook, Homer E., Harley, and Swartzloff. 2,867,096.  
Sinninger, Dwight V. 2,901,530.  
Sweedyk, James M., and Gleason. 2,907,262.
- Hupp, Edward E.: *See—*  
Price, Earl R., and Hupp. 2,902,008.
- Hupp, Edward E., Bendix Aviation Corp. Snap acting dual valve mechanism. 2,867,235, 1-6-59, Cl. 137-622.
- Hupp, Edward E., to Bendix Aviation Corp. Power assisted actuator. 2,893,207, 7-7-59, Cl. 60-54-6.
- Hupp, Edward E., to Bendix Aviation Corp. Dashpot mechanism. 2,893,721, 7-7-59, Cl. 267-1.
- Hupp, Edward E., to Bendix Aviation Corp. Pneumatic brake valve to provide feel. 2,910,051, 10-27-59, Cl. 121-46-5.
- Huppert, C., & Co., Ltd.: *See—*  
Huppert, Charles. 2,881,739.
- Huppert, Charles, to C. Huppert & Co., Ltd. Hydraulic percussion tool. 2,881,739, 4-14-59, Cl. 121-20.
- Huppert, Karl H., and E. K. Weise, to Semicon Inc. Resistance thermometer circuits. 2,874,260, 2-17-59, Cl. 215-20.
- Hurat, Leonard T., and E. P. Presby, to United States Steel Corp. Method of making colored wire. 2,900,710, 8-25-59, Cl. 29-407.
- Hurc, Cass F.: *See—*  
Price, Ralph E., and Hurc. 2,882,650.
- Hurcomb, Forbes A.: *See—*  
Riley, Joseph J., and Hurcomb. 2,892,926.
- Hurd, Claud C., to The Hoover Co. Combination suction cleaners. 2,898,622, 8-11-59, Cl. 15-333.
- Hurd, Dallas T.: *See—*  
Nerad, Anthony J., and Hurd. 2,894,830.
- Hurd, Dallas T., to General Electric Co. Process of preparing an organo-polysiloxane, the product thereof, mixtures of the product with rubbery polymers, and method of curing the mixtures. 2,878,195, 3-17-59, Cl. 260-4.
- Hurd, Dallas T., and R. C. Osthoff, to General Electric Co. Vulcanizable vinyl-containing organopolysiloxanes and process of preparing elastomers therefrom. 2,867,599, 1-6-59, Cl. 260-37.
- Hurd, Dallas T., and R. W. Finholt, to General Electric Co. Composite articles of metal and elastomer and method of fabrication. 2,884,161, 4-28-59, Cl. 220-63.
- Hurd, Edwin P., to Hurd Rock & Mfg. Co. Wheel cover. 2,869,929, 1-20-59, Cl. 301-37.
- Hurd, Edwin P., to Hurd Rock & Mfg. Co. Wheel cover. 2,903,300, 9-8-59, Cl. 301-37.
- Hurd, Eric W., to F. Taylor & Sons (Manchester) Ltd. Drilling machine for rock faces and the like. 2,867,412, 1-6-59, Cl. 255-51.
- Hurd, Eric W., to F. Taylor & Sons (Manchester) Ltd. Guide housing for rotary drill drive. 2,887,299, 5-19-59, Cl. 255-47.
- Hurd Lock and Mfg. Co.: *See—*  
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Hurd, Edwin P. 2,903,300.
- Hurd, Richard C., to United Aircraft Corp. Flameholder. 2,918,794, 12-29-59, Cl. 60-39-72.
- Hurd Rock & Mfg. Co.: *See—*  
Hurd, Edwin P. 2,869,929.
- Hurdiss, Everett C., and J. F. Petras, to United States Rubber Co. Neutral diesters of 2,2'-(isopropylidene-bis(2,6-dichloro-p-phenyleneoxy))-diethanol. 2,891,092, 6-16-59, Cl. 260-485.
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- Hurdiss, Everett C., J. F. Petras, and H. Romeyn, Jr., to United States Rubber Co. Monomers for flame resistant resinous copolymers. 2,891,985, 6-23-59, Cl. 260-461.
- Hurdiss, Everett C., and J. F. Petras, to United States Rubber Co. Hydroxyalkyl diethers of 2,2'-(isopropylidene-bis(2,6-dichlorophenol)). 2,902,518, 9-1-59, Cl. 260-613.
- Hurford, Winslow L., to Radio Corp. of America. Plural channel circuit maintenance. 2,892,026, 6-23-59, Cl. 178-7-1.
- Hurford, Winslow L., to Radio Corp. of America. Pulse amplifying and limiting circuit arrangements. 2,912,580, 11-10-59, Cl. 250-27.
- Hurlburt, Charles E., to Bendix Aviation Corp. Gyro caging mechanism. 2,867,122, 1-6-59, Cl. 74-5-1.
- Hurlburt, Charles E., to Bendix Aviation Corp. Gyroscope. 2,878,678, 3-24-59, Cl. 74-5-41.
- Hurlburt, Charles E., to Bendix Aviation Corp. Vertical gyro having an improved torquing device for actuating a spherical indicator geared to the gyro. 2,912,766, 11-17-59, Cl. 33-204.
- Hurlburt, Charles E., J. R. Conway, and M. J. Lanni, to Bendix Aviation Corp. Directional gyro having an improved torquing device for compensating for error due to the earth's rotation. 2,912,864, 11-17-59, Cl. 74-5-4.
- Hurlbut, Douglas H. Method and apparatus for aligning and retaining type and the like for printing. 2,902,930, 9-8-59, Cl. 101-381.
- Hurlbut, Gordon K., to General Aniline & Film Corp. Developing liquid feed and vaporizing system for diazotype machines. 2,895,397, 7-21-59, Cl. 95-89.
- Hurley, Daniel T., to General Electric Co. Electrical signal sensing circuit. 2,912,575, 11-10-59, Cl. 250-27.
- Hurley, Earl H., and E. A. Collapsible swing supporting frame. 2,877,030, 3-10-59, Cl. 287-54.
- Hurley, Eldora A.: *See—*  
Hurley, Earl H., and E. A. 2,877,030.
- Hurley, Forrest R.: *See—*  
Sisler, Harry H., and Hurley. 2,899,364.
- Hurley, Forrest R., to W. R. Grace & Co. Substituted hydrazine process. 2,901,511, 8-25-59, Cl. 260-583.
- Hurley, James R., to Phillips Petroleum Co. Cement compositions and process of cementing wells. 2,880,096, 3-31-59, Cl. 106-31.
- Hurley, James R., to Phillips Petroleum Co. Magnetic flowmeter. 2,893,243, 7-7-59, Cl. 73-194.
- Hurley, Richard H., and S. Rowe, to The Procter & Gamble Co. Packaged foodstuffs. 2,918,377, 12-22-59, Cl. 99-171.
- Hurley, Roy T., to Curtiss-Wright Corp. Method and apparatus for crankshaft construction. 2,884,661, 5-5-59, Cl. 18-36.



- Hurley, Roy T., to Curtiss-Wright Corp. Furniture and seat construction. 2,892,489, 6-30-59, Cl. 155-178.
- Hürlimann, Hans: *See*—  
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- Hürlimann, Hans. Stand for a fishing rod. 2,869,814, 1-20-59, Cl. 248-48.
- Hurowitz, Abraham, and W. S. R. O'Neill, to Morrell Aluminum Products, Inc. Combination storm window, screen and awning. 2,877,840, 3-17-59, Cl. 160-91.
- Hurowitz, Mark: *See*—  
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- Hursen, Thomas F.: *See*—  
McClure, Glenn T., and Hursen. 2,918,149.
- Hursen, Thomas F., to Westinghouse Air Brake Co. Graduated release type brake controlling valve with improved control reservoir charging control. 2,880,039, 3-31-59, Cl. 303-60.
- Hursen, Thomas F., to Westinghouse Air Brake Co. Safety valve. 2,912,998, 11-17-59, Cl. 137-474.
- Hurst, Edward, to Rexall Drug Co. Abrasive devices. 2,918,762, 12-29-59, Cl. 51-188.
- Hurst, George S.: *See*—  
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- Hurst, Millard R.: *See*—  
Morris, George L. 2,909,349.  
Morris, George L. 2,909,350.
- Hurst, Mowatt M. Automobile drying installation. 2,904,894, 9-22-59, Cl. 34-43.
- Hurst, Stanley N. and V. V. Lawn furniture. 2,889,152, 6-2-59, Cl. 280-47.26.
- Hurst, Vivian V.: *See*—  
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- Hurst, William M., to United States of America, Navy. Electro-mechanical chronograph. 2,872,274, 2-3-59, Cl. 346-38.
- Hurt, Clarence L.: *See*—  
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- Hurt, David M., and A. H. Pieper, to E. I. du Pont de Nemours and Co. Production of bis (2-hydroxyethyl) terephthalate through ester interchange. 2,905,707, 9-22-59, Cl. 260-475.
- Hurt, Norman A.: *See*—  
Owen, Ronald V., and Hurt. 2,899,450.
- Hurtig, Carl R., to United States of America, Army. Constant impedance transistor input circuit. 2,871,305, 1-27-59, Cl. 179-171.
- Hurum, Fredrik J. O. Methods for the treatment of a melt with briquetted substances. 2,879,156, 3-24-59, Cl. 75-53.
- Hurvitz, Hyman. Amplitude displays. 2,886,777, 5-12-59, Cl. 324-78.
- Hurvitz, Hyman, to United States of America, Air Force. Visual indicators. 2,905,893, 9-22-59, Cl. 324-77.
- Hurvitz, Hyman. Oscillographic recorders. 2,907,622, 10-6-59, Cl. 346-74.
- Hurvitz, Hyman, to Radiation, Inc. Corrugated strip connector. 2,912,666, 11-10-59, Cl. 339-61.
- Hurwitz, Henry, Jr., H. Brooks, C. Mannal, J. H. Payne, and E. A. Luebke, to United States of America, Atomic Energy Commission. Neutronic reactor. 2,879,216, 3-24-59, Cl. 204-193.2.
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- Hurwitz, Marvin J., and P. L. de Benneville, to Rohm & Haas Co. Organic silicon compounds and methods for making them. 2,876,234, 3-3-59, Cl. 260-326.5.
- Hurwitz, Melvin D.: *See*—  
Alps, Hugo A., Hurwitz, and Kine. 2,880,116.
- Hurwitz, Melvin D., to Rohm & Haas Co. Compositions, textiles treated therewith and processes for the treatment thereof. 2,901,463, 8-25-59, Cl. 260-67.5.
- Hurwitz, Miriam. Corset construction. 2,905,180, 9-22-59, Cl. 128-540.
- Husak, Alexander J. Dual rear view mirror having anti-rattling means for motor vehicles. 2,916,967, 12-15-59, Cl. 88-86.
- Huse, Arthur E., to American Bosch Arma Corp. Fuel injection apparatus. 2,893,712, 7-7-59, Cl. 261-37.
- Huseby, Elvin. Electric fence insulator. 2,896,011, 7-21-59, Cl. 174-163.
- Huseby, Harold W. Corner radiant heat assembly. 2,879,369, 3-24-59, Cl. 219-34.
- Huser, Richard J., to The Western States Machine Co. Slurry loader for centrifugal machines. 2,913,119, 11-17-59, Cl. 210-377.
- Huser, William H., to Western Electric Co., Inc. Machine for trimming cup shaped articles and the die drive means therefor. 2,898,996, 8-11-59, Cl. 164-47.
- Husky Oil Co.: *See*—  
Eurenius, Malte O., and Persson. 2,890,755.  
Hoffström, Nils Å., and Eurenius. 2,890,754.  
Salomonsson, Gösta J. W. 2,914,309.  
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- Husman, Paul A., to Laboratory For Electronics, Inc. Data processing apparatus. 2,896,192, 7-21-59, Cl. 340-174.
- Huso, Kenneth. Means for locking a transmission selector lever in drive shaft locking or parking position. 2,875,640, 3-3-59, Cl. 74-529.
- Huss, Richard, A. Siebert, and J. Weissert, to Farbwerke Hoechst Akt. Polyazo-dyestuffs. 2,871,230, 1-27-59, Cl. 260-144.
- Huss, Richard, A. Siebert, and J. Weissert, to Farbwerke Hoechst Akt. vormalis Miester Lucius & Bruning. Polyazo-dyestuffs. 2,885,390, 5-5-59, Cl. 260-144.
- Huss, Richard, A. Siebert, and J. Weissert, to Farbwerke Hoechst Akt. vormalis Miester Lucius & Bruning. Polyazo-dyestuffs. 2,885,391, 5-5-59, Cl. 260-144.
- Huss, Steven J., R. E. Wesslund, and G. W. Johnson, to Sperry Rand Corp. Saturable reactor circuit. 2,889,541, 6-2-59, Cl. 340-174.
- Hussa, Leopold R. Apparatus for power take off. 2,903,911, 9-15-59, Cl. 74-665.
- Hussar, Joseph P., to L. N. Baker. Electrically-operated toothbrush. 2,915,912, 12-8-59, Cl. 74-423.
- Hussey, Charles M.: *See*—  
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- Hussey, Luther W., to Bell Telephone Laboratories, Inc. Semiconductor switching devices. 2,876,366, 3-3-59, Cl. 307-88.5.
- Hussey, Luther W., to Bell Telephone Laboratories, Inc. Transistor test set. 2,899,642, 8-11-59, Cl. 324-153.
- Hussey, Luther W., and W. Pell, to Bell Telephone Laboratories, Inc. Current limiting gating circuit. 2,887,619, 5-19-59, Cl. 315-168.
- Hussey, Norman R., to General Electric Co. Piston actuator. 2,896,413, 7-28-59, Cl. 60-97.
- Hussmann, Albrecht W.: *See*—  
Schweitzer, Paul H., and Hussmann. 2,902,987.
- Hussnigg, August C. Device for manufacturing continuous, spirally grooved tubing wound of band material. 2,893,462, 7-7-59, Cl. 153-72.
- Husson, Charles, to Westinghouse Electric Corp. Control circuit. 2,909,705, 10-20-59, Cl. 315-168.
- Hustad, Torleif. Potato diggers. 2,876,849, 3-10-59, Cl. 171-115.
- Hustad, Torleif. Potato digger. 2,905,252, 9-22-59, Cl. 171-18.
- Hustead, Ralph L. Springless box trailer chassis. 2,892,635, 6-30-59, Cl. 280-106.
- Husted, Harry H. Measuring device for determining intraocular pressure. 2,882,891, 4-21-59, Cl. 128-2.
- Huston, Charles R., and G. H. Hartman, to Cherry-Burrell Corp. Cyclone discharge chamber. 2,912,768, 11-17-59, Cl. 34-57.
- Huston, Elmo F.: *See*—  
Lewis, Warren J., and Huston. 2,879,686.
- Huston, John T. Power vaginal irrigator. 2,908,273, 10-13-59, Cl. 128-251.
- Huston, Norman E.: *See*—  
Andrews, Franklin T., and Huston. 2,869,504.
- Huston, Ralph C., to The Babcock & Wilcox Co. Vapor generators. 2,918,044, 12-22-59, Cl. 122-351.
- Huston, William D.: *See*—  
Haigler, Edmund D., Huston, and Lombard. 2,907,336.
- Huston, William D., to American Machine & Metals, Inc. Pneumatic flapper-nozzle controller. 2,917,063, 12-15-59, Cl. 137-82.
- Huston, William D., and E. D. Haigler, to American Machine and Metals, Inc. Fluid pressure operated element positioning device. 2,911,954, 11-10-59, Cl. 121-41.
- Huston, William P., Jr., to Mul-T-Typer Corp. Portable duplicating attachment. 2,907,439, 10-6-59, Cl. 197-153.
- Husum, Charles W., and R. K. Flaskamp, to Owens-Illinois Glass Co. Method of producing closure assembly. 2,910,397, 10-27-59, Cl. 154-89.
- Huszar, Kalman Z. Mechanism for forming various articles from moldable materials. 2,867,000, 1-6-59, Cl. 18-5.
- Huszar, Kalman Z. Machine and process for the production of convolutions in wire. 2,898,949, 8-11-59, Cl. 140-71.
- Huszar, László, to "Licencia" Talamanyokart Ertekessito Vallalat. Tube support in motion X-ray irradiation apparatuses. 2,890,349, 6-9-59, Cl. 250-91.
- Hutch, John D., to Hutch Mfg. Co. Packaged prehung storm door. 2,911,095, 11-3-59, Cl. 206-60.
- Hutch Mfg. Co.: *See*—  
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- Hutchens, Charles T. Tandem spring suspension system. 2,900,197, 8-18-59, Cl. 280-104.5.
- Hutchens, Charles T. Hydro-pneumatic equalizing suspension for vehicles. 2,907,576, 10-6-59, Cl. 280-104.
- Hutchens, Francis G. Fluid pressure regulator. 2,869,575, 1-20-59, Cl. 137-251.
- Hutchens, Morris L., J. J. Lenert, and F. J. Schalk, to Kearney & Trecker Corp. Retracting mechanism. 2,867,154, 1-6-59, Cl. 90-16.
- Hutchens, Morris L., J. J. Lenert, and H. F. Henderson, to Kearney & Trecker Corp. Indexing mechanism for a machine tool. 2,900,849, 8-25-59, Cl. 74-826.
- Hutcheson, Robert H.: *See*—  
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- Hutchings, Edward G., to The Babcock & Wilcox Co. Steam generator. 2,879,752, 3-31-59, Cl. 122-480.
- Hutchings, Le Roi E., to The Pure Oil Co. Purification process. 2,878,163, 3-17-59, Cl. 202-31.
- Hutchings, Le Roi E., to The Pure Oil Co. Hydrocarbon pyrolysis process. 2,878,262, 3-17-59, Cl. 260-679.
- Hutchings, Le Roi E., to The Pure Oil Co. Hydrohalogenation of mono halogenated alkanes. 2,883,436, 4-21-59, Cl. 260-658.



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- Hutchings, Le Roi E., to The Pure Oil Co. Fractionation process using zeolitic molecular sieves. 2,912,473, 11-10-59, Cl. 260-676.
- Hutchings, Le Roi E., to The Pure Oil Co. Extraction process for recovery of aromatics utilizing carbamate solvents. 2,915,569, 12-1-59, Cl. 260-674.
- Hutchins, Alma A., to G. J. Blacher. Tools for releasing speed nuts. 2,867,142, 1-6-59, Cl. 81-3.
- Hutchins, Dwight C., to General Electric Co. Food and beverage mixer. 2,913,230, 11-17-59, Cl. 259-108.
- Hutchins, Erwin F., to Sylvania Electric Products, Inc. Electric discharge lamp starting device. 2,911,569, 11-3-59, Cl. 315-100.
- Hutchins, Hugh A., and B. C. Jones, to E. J. Newhouse. Magnetic collector and neutralizing element for engines and the like. 2,877,899, 3-17-59, Cl. 210-222.
- Hutchins, Hugh A., and B. C. Jones. Method for making jet tubes. 2,892,253, 6-30-59, Cl. 29-421.
- Hutchins, John H., and P. M. Michalke. Fishing lure. 2,908,104, 10-13-59, Cl. 43-42.52.
- Hutchins, Richard B., to Whitaker Reed Co. Loom reed having removable dents. 2,914,094, 11-24-59, Cl. 139-192.
- Hutchins, William R., to Raytheon Co. Test apparatus for radar receivers. 2,914,765, 11-24-59, Cl. 343-17.7.
- Hutchinson, Alton E. Electric lighter. 2,902,579, 9-1-59, Cl. 219-32.
- Hutchinson, Archibald D. L. Semi trailer dump truck. 2,890,909, 6-16-59, Cl. 298-20.
- Hutchinson, David O. Simulated trunk planters. 2,900,759, 8-25-59, Cl. 47-34.
- Hutchinson, Franklin B., to The Perkin-Elmer Corp. Radiation source and means for starting. 2,876,361, 3-3-59, Cl. 250-85.
- Hutchinson, Hamilton M. Process for the treatment of lumber. 2,892,261, 6-30-59, Cl. 34-9.5.
- Hutchinson, Harold D. Wax applicator. 2,887,711, 5-26-59, Cl. 15-230.
- Hutchinson, James O., and R. W. Briggs, II, to Westinghouse Electric Corp. Discriminator circuit. 2,871,348, 1-27-59, Cl. 250-27.
- Hutchinson, John E.: See—
- Kleist, Herman W., and Hutchinson. 2,885,866.
- Hutchinson, Leonard H. Control of tropical cyclone formation. 2,903,188, 9-8-59, Cl. 239-2.
- Hutchinson, Oliver C. K.: See—
- Hutchinson, Thomas K. and O. C. K. 2,899,723.
- Hutchinson, Philip. Propulsion of vehicles. 2,869,479, 1-20-59, Cl. 104-155.
- Hutchinson, Thomas K. and O. C. K. Shell molding machine. 2,899,723, 8-18-59, Cl. 22-9.
- Hutchinson, William A. Caster. 2,891,273, 6-23-59, Cl. 16-20.
- Hutchinson, William M., to Phillips Petroleum Co. Production of diols by hydrogenation of polymeric peroxides of diolefins. 2,879,306, 3-24-59, Cl. 260-635.
- Hutchinson, William M., and H. W. Bost, to Phillips Petroleum Co. Composition comprising esters of hydroxylated polybutadiene and process of preparing same. 2,893,855, 7-7-59, Cl. 106-218.
- Hutchinson, Alexander H., to American Cyanamid Co. Plastic inserts for hypodermic syringe packages. 2,887,215, 5-19-59, Cl. 206-17.5.
- Hutchinson, Frank E. Pillow block for vibratory shafts. 2,869,937, 1-20-59, Cl. 308-26.
- Hutchinson, Frank E. Derrick girth light. 2,895,039, 7-14-59, Cl. 240-90.
- Hutchinson, Frank E. Submarine structure. 2,901,890, 9-1-59, Cl. 61-46.
- Hutchinson, James R., to Rohr Aircraft Corp. Fastener sealing device. 2,884,098, 4-28-59, Cl. 189-36.
- Hutchison, Joseph D., to Ford Motor Co. Vehicle accelerator linkage. 2,869,393, 1-20-59, Cl. 74-516.
- Hutchison, William M., and K. W. Hopkins, to Brown Lenox and Co. Ltd. Mooring devices for ships. 2,894,475, 7-14-59, Cl. 114-230.
- Hutco Equipment Co.: See—
- Warren, Henry B., Jr. 2,912,251.
- Huth, Carl M., to Belden Mfg. Co. Strain relief. 2,902,536, 9-1-59, Cl. 174-70.
- Huth, Richard: See—
- Frey, Hans-Helmut, and Huth. 2,907,742.
- Huth, Walter H., and J. R. Bailey; said Bailey assor to said Huth. Wire recorder cartridge pack. 2,873,925, 2-17-59, Cl. 242-54.1.
- Huth, William J., to Sun Oil Co. Compression refrigeration working fluid. 2,912,383, 11-10-59, Cl. 252-68.
- Huthsing, Charles K., Sr. Valve structure. 2,893,687, 7-7-59, Cl. 251-357.
- Huthsing, Charles K., Sr., and I. J. Billings, to General Pacific Corp. Fire extinguisher head assembly. 2,878,683, 3-24-59, Cl. 74-101.
- Huthsing, Charles K., Sr., and I. J. Billings, to General Fire Extinguisher Corp. Fire extinguisher. 2,895,556, 7-21-59, Cl. 169-31.
- Huthsing, Charles K., Sr., and I. J. Billings, to General Fire Extinguisher Corp. Valve actuating means. 2,909,936, 10-27-59, Cl. 74-102.
- Hutson, Thomas, Jr., to Phillips Petroleum Co. Solvent extraction with neopentyl glycol. 2,908,726, 10-13-59, Cl. 260-666.
- Hüttenwerk Oberhausen A.G.: See—
- Becker, Helmut. 2,901,626.
- Graef, Rudolf F., and von Bogdandy. 2,883,279.
- Hutter, Ernest: See—
- Untermeyer, Samuel, and Hutter. 2,868,706.
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- Hutter, Ernest, to United States of America, Atomic Energy Commission. Nuclear reactor fuel rod assembly. 2,902,422, 9-1-59, Cl. 204-193.2.
- Hutter, George L.: See—
- Brown, George W., Cartwright, Hutter, McCann, Nyberg, Skelrik, and Krag. 2,909,968.
- Hutter, Jean-Claude, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Process for preparing dense filterable beryllium hydroxide. 2,899,276, 8-11-59, Cl. 23-183.
- Hutter, Luis, to General Refractories Co. Basic roof for reverberatory furnaces. 2,901,990, 9-1-59, Cl. 110-99.
- Hütter, Wolfgang, and K. Ritter, to Allgaier-Werke G.m.b.H. Trailers. 2,917,121, 12-15-59, Cl. 180-14.
- Hutterer, Martin, to Cummings-Landau Laundry Machinery Co., Inc. Support structure for cleaning machine shells. 2,912,194, 11-10-59, Cl. 248-13.
- Hüttermann, Willi, to Chemie Grunenthal G.m.b.H. Injection ampoules for several media and intended to be used once. 2,896,622, 7-28-59, Cl. 128-272.
- Huttisch, Walter, to Dr. Ing. h. c. F. Porsche K. C. Seat locking arrangement. 2,877,824, 3-17-59, Cl. 155-14.
- Hutton Fabricating and Mfg. Corp.: See—
- Hutton, Leland H. 2,871,834.
- Hutton, Frank E., to The Babcock & Wilcox Co. Process and apparatus for the recovery of heat and chemicals from pulp liquor. 2,893,829, 7-7-59, Cl. 23-48.
- Hutton, Leach L. Walking trainer and coordinator. 2,892,455, 6-30-59, Cl. 128-25.
- Hutton, Leland H., to Hutton Fabricating and Mfg. Corp. Furnace door frame. 2,871,834, 2-3-59, Cl. 122-499.
- Hutton, Roger S.: See—
- Halberg, Robert W., and Hutton. 2,902,130.
- Hutton, Robert W., to International Telephone and Telegraph Corp. Toll ringing arrangements in telephone systems. 2,871,298, 1-27-59, Cl. 179-18.
- Hutton, Robert W., to International Telephone and Telegraph Corp. Mixed-ringing party-line telephone system. 2,874,223, 2-17-59, Cl. 179-17.
- Hutton, Robert W., to International Telephone and Telegraph Corp. Digit-absorbing selector. 2,883,466, 4-21-59, Cl. 179-16.
- Hutton, Robert W., A. T. Sigo, and C. J. Adams, to International Telephone and Telegraph Corp. Multi-group direct-access crossbar telephone switching system. 2,909,611, 10-20-59, Cl. 179-18.
- Hutzelman, Howard E., to Correy-Jamestown Mfg. Corp. Roller suspension for a cabinet drawer. 2,873,150, 2-10-59, Cl. 308-3.8.
- Hutzler, John R.: See—
- Cummin, Alfred S., and Hutzler. 2,872,630.
- Hutzler, John R., and S. W. Pease, to General Electric Co. Capacitor. 2,890,396, 6-9-59, Cl. 317-258.
- Huwlyer, Alois. Speed regulator for monophasic and polyphase alternating-current motors. 2,877,400, 3-10-59, Cl. 318-231.
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- Chaplin, Herbert E., Wakeford, Churn, and Huxley. 2,876,968.
- Huxley, Thomas C., III, to Conitech, Ltd. Artificial respiration apparatus. 2,876,785, 3-10-59, Cl. 137-63.
- Huxley, Thomas C., III, and I. Eckman, to Conitech Ltd. Respirator belt. 2,899,955, 8-18-59, Cl. 128-30.
- Huxtable, Leonard G.: See—
- Stuart, Whitney A., and Huxtable. 2,866,978.
- Stuart, Whitney A., and Huxtable. 2,888,681.
- Stuart, Whitney A., and Huxtable. 2,889,555.
- Huyck, F. C., & Sons: See—
- Holden, Grenville R., and Schiff. 2,903,021.
- Huyser, Earl S., and W. F. Tousignant, to The Dow Chemical Co. Preparation of symmetrical disubstituted ureas. 2,876,260, 3-3-59, Cl. 260-553.
- Huyser, Francis C., to American Machine and Metals, Inc. Gripping mechanism for testing machine. 2,875,610, 3-3-59, Cl. 73-103.
- Huyser, Francis C., to American Machine and Metals, Inc. Stress-strain measuring apparatus. 2,889,706, 6-9-59, Cl. 73-89.
- Huzel, Dieter K., and R. M. Shuman, to North American Aviation, Inc. Process of liquefied gas pumping. 2,871,670, 2-3-59, Cl. 62-55.
- Hwa, Chih M.: See—
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- Idol, James D., Jr.: *See*—  
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- Ignatjev, Feodor. Spark plug for internal combustion engines. 2,894,162, 7-7-59, Cl. 313—141.



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- Ikeda, Nobukazu: *See—*  
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- Illinois Clay Products Co.: *See—*  
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- Illinois Lock Co., The: *See—*  
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- Illinois Railway Equipment Co.: *See—*  
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- Illinois Tool Works: *See—*  
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- Illinois Tool Works: *See—Continued*  
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- Illinois Water Treatment Co.: *See—*  
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- Ilman, John C., and H. J. Sommer, to Shell Development Co. Asphalt plastisols and process for their preparation. 2,870,080, 1-20-59, Cl. 208-23.
- Ilmsley, Clifford R.: *See—*  
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- Ilmsley, Ralph W.: *See—*  
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- Ilmsley, Ralph W., to The Albright-Nell Co. Measuring and dispensing apparatus for semisolid comestibles. 2,908,424, 10-13-59, Cl. 222-250.
- Ilmnykij, Stephen: *See—*  
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- Imber, Alfred G., and A. Hall, to Imber Research Ltd. Burners for vaporized fuel. 2,905,233, 9-22-59, Cl. 158-53.
- Imber Research Ltd.: *See—*  
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- Imblum, Leo. Fluid coupling. 2,888,117, 5-26-59, Cl. 192-59.
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- Imburgia, John J. Fire alarm. 2,880,690, 4-7-59, Cl. 116-106.
- Imershein, Charles, to Multi-Metal Wire Cloth Co., Inc. Filter leaf and method of assembling it. 2,902,165, 9-1-59, Cl. 210-486.
- Imes, Paul L.: *See—*  
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- Imhof, Alfred. Method of embedded electrical high voltage apparatus. 2,887,729, 5-26-59, Cl. 18-59.
- Imhoff, Bernard H., and J. K. McCahan, to Jones & Laughlin Steel Corp. Sheet pack edge protector. 2,889,166, 6-2-59, Cl. 294-81.
- Imhoff, Robert E., to The Roberts Brass Mfg. Co. Operating mechanism for a gas valve. 2,912,881, 11-17-59, Cl. 74-527.
- Imhoff, William B., Jr., to The Yale & Towne Mfg. Co. Lock securing means. 2,869,353, 1-20-59, Cl. 70-370.
- Imm, Lewis W., to Librascope, Inc. Anti-submarine attack director. 2,916,208, 12-8-59, Cl. 235-61.5.
- Imm, Ronald C., to The General Electric Co. Ltd. Apparatus for passing impulsed electric signals. 2,881,397, 4-7-59, Cl. 333-20.
- Imme, Helmut: *See—*  
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- Immel, Ralph B., to Westinghouse Electric Corp. Adjustable-contour cam. 2,887,901, 5-26-59, Cl. 74-568.
- Immel, Ralph B., to Westinghouse Electric Corp. Electromagnetic devices. 2,888,616, 5-26-59, Cl. 317-158.
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- Imparato, Jack G. Yoke-type clamps. 2,895,202, 7-21-59, Cl. 24-263.
- Imparato, Jack G. Yoke-type clamps. 2,895,203, 7-21-59, Cl. 24-263.
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- Ineson, Clifton H., to The Waterbury Plating Co. Machine for loosening enamelled articles from screens. 2,891,503, 6-23-59, Cl. 118-57.
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- Ingham, Robert M., Jr., to Deering Milliken Research Corp. Tilt truck. 2,903,219, 9-8-59, Cl. 248-137.
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 Tetro, Roland G. 2,871,702.
- Ingram, Edward E. Airport lighting. 2,892,994, 6-30-59, Cl. 340-26.
- Ingram, Robert W.: *See*—  
 Brophy, Jere E., and Ingram. 2,902,417.
- Ingram, Alvin R., and C. N. Irvine, to Koppers Co., Inc. Quick-drying oleoresinous coating compositions containing resorcinol-P-alkylphenol-aldehyde resins and a process of preparing these resins. 2,878,198, 3-17-59, Cl. 260-19.
- Ingram, Carl B.: *See*—  
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- Ingram, Carl B. Wheeled pipe line carrier. 2,879,787, 3-31-59, Cl. 137-344.
- Ingram, Carl B., and L. E. Watson. Insulated link. 2,897,257, 7-28-59, Cl. 174-183.
- Ingram, Harold P. Car top boat carrier. 2,896,804, 7-28-59, Cl. 214-450.
- Ingram, Maxwell, to Gorn Electric Co., Inc. Spring separable connector. 2,879,495, 3-24-59, Cl. 339-45.
- Ingram, Robert R.: *See*—  
 Ridgeway, Bruce, and Ingram. 2,902,116.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster brake mechanism. 2,867,307, 1-6-59, Cl. 192-3.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster motor mechanism. 2,877,745, 3-17-59, Cl. 121-38.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster brake mechanism. 2,879,645, 3-31-59, Cl. 60-54.6.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster motor control mechanism. 2,890,771, 6-16-59, Cl. 188-152.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Differential fluid pressure motor. 2,894,490, 7-14-59, Cl. 121-41.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster mechanism. 2,896,585, 7-28-59, Cl. 121-41.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster brake mechanism. 2,900,962, 8-25-59, Cl. 121-41.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster mechanism. 2,905,151, 9-22-59, Cl. 121-38.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Power mechanism. 2,905,152, 9-22-59, Cl. 121-41.
- Ingres, Jeannot G., to Kelsey-Hayes Co. Booster brake mechanism. 2,910,048, 10-27-59, Cl. 121-41.
- Ingwer, Carl H., C. E. Wright, and H. Weibel, to The Ridge Tool Co. Power threading tool having lubrication means for the tool carriage and the die head cutters. 2,916,749, 12-15-59, Cl. 10-106.
- Inhoffen, Hans H., O. Isler, M. Montavon, R. Ruegg, and P. Zeller, to Hoffmann-La Roche Inc. 4 - [2',6',6' - trimethylcyclohexen - (2') - ylidene] - 2 - methyl - buten - (2) - al (1). 2,890,249, 6-9-59, Cl. 260-598.



- Injection Molding Co.: *See*—  
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Marchant, Paul A. 2,870,797.
- Inker, Gordon: *See*—  
Marshall, George E. E., and Inker. 2,910,943.
- Inland Homes Corp.: *See*—  
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- Inland Steel Co.: *See*—  
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Cooney, Edward J. 2,890,735.  
Craig, George H. 2,915,305.  
Halley, James W. 2,889,219.  
Hautau, Charles F. 2,911,117.  
Holowaty, Michael O. 2,899,277.  
Pearson, Vincent P., and Holowaty. 2,876,176.  
Porter, Frank R., Halley, and McFarland. 2,872,352.  
Schwendemann, Edward T., Sadowsky, and Murway. 2,894,856.  
Smith, Phillip H. 2,893,716.
- Inland Steel Products Co.: *See*—  
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- Inman, Byron N., to E. I. du Pont de Nemours and Co. Production of metallic cyanides. 2,876,066, 3-3-59, Cl. 23-79.
- Inman, Charles E.: *See*—  
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- Inman, Daniel O. Receptacle liner. 2,873,060, 2-10-59, Cl. 229-31.
- Inman, Gilbert H. Sanitary handle device. 2,903,734, 9-15-59, Cl. 16-111.
- Inman, William H., to Bloomer Bros. Co. Carton. 2,870,950, 1-27-59, Cl. 229-16.
- Inman, William H., to Bloomer Bros. Co. Collapsible carton. 2,878,986, 3-24-59, Cl. 229-41.
- Inman, William H., to Bloomer Bros. Co. Collapsible carton. 2,878,987, 3-24-59, Cl. 229-41.
- Inman, William H., to Bloomer Bros. Co. Collapsible carton. 2,881,968, 4-14-59, Cl. 229-41.
- Inman, William H., to Bloomer Bros. Co. Collapsible carton. 2,884,180, 4-28-59, Cl. 229-41.
- Innis, Robert T.: *See*—  
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- Inniss, Clarence F., to United States of America, Navy. Diode shunt gating circuit. 2,868,969, 1-13-59, Cl. 250-27.
- Inotay, Sandor. Pouring spout for liquid containers. 2,909,306, 10-20-59, Cl. 222-570.
- Inotsume, Zen-Ichi. Pallet type escape mechanism for time pieces. 2,907,168, 10-6-59, Cl. 58-121.
- Inpy, Anthony. Folding leg support for furniture. 2,911,273, 11-3-59, Cl. 311-99.
- Insalaco, Michael A., to Haloid Xerox Inc. Developer for electrostatic images. 2,891,011, 6-16-59, Cl. 252-62.1.
- Insalaco, Michael A., to Haloid Xerox Inc. Electrostatic developer and toner. 2,892,794, 6-30-59, Cl. 252-62.1.
- Insetta, Lloyd W.: *See*—  
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- In-Sink-Erator Mfg. Co.: *See*—  
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- Wieczorek, Eugene E. 2,868,465.  
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Wieczorek, Eugene E. 2,898,417.  
Wieczorek, Eugene E. 2,917,246.
- Insley, Bert T., 1/2 to B. Walker. Fluid pump or injector. 2,912,937, 11-17-59, Cl. 103-120.
- Insley, Norman: *See*—  
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- Insolio, Thomas A., to American Window Glass Co. Glass break-off machine. 2,878,622, 3-24-59, Cl. 49-48.
- Institut de Recherches de la Siderurgie: *See*—  
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Hanin, Mireille, and Voeltzel. 2,902,208.  
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- Institut Francais du Pétrole, des Carburants et Lubrifiants: *See*—  
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Hugel, Georges. 2,909,541.  
Leprince, Pierre, Coussemant, and Limido. 2,899,473.  
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- Institut für Werkzeugmaschinen: *See*—  
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- Institute of Gas Technology: *See*—  
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- Institute of Textile Technology: *See*—  
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- Institutional Industries, Inc.: *See*—  
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Mize, William E. 2,914,111.
- Institutum Divi Thomae Foundation: *See*—  
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- Instituut voor Tuinbouwtechniek: *See*—  
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- Instrument Development Laboratories, Inc.: *See*—  
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- Instruments for Industry, Inc.: *See*—  
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- Intagliata, Salvatore J.: *See*—  
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- Interchemical Corp.: *See*—  
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Goldstein, Gabriel F. 2,872,423.  
Hanle, John E., Tringali, and Yuska. 2,880,187.  
Haskell, Edward C., and Burrell. 2,885,293.  
Ingham, Philip H., and Mastrobattista. 2,868,662.  
Melchoni, Anna F., Johnson, and Chase. 2,917,475.  
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- Intercoastal Door Corp.: *See*—  
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- Intercompany Corp.: *See*—  
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- Intercontinental Mfg. Co., Inc.: *See*—  
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- Inter-Continental Huttenbau: *See*—  
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- Interlake Iron Corp.: *See*—  
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Gutzmer, Ernest R. 2,911,572.  
Ruth, Helmer A. 2,901,132.
- Interlock Corp.: *See*—  
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- International Alloys Ltd.: *See*—  
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- International Basic Economy Corp.: *See*—  
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- International Business Machines Corp.: *See*—  
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Andersen, Just B. 2,872,038.  
Anderson, Richard L. 2,894,152.  
Andrews, Victor M., and Berkin. 2,910,164.  
Apgar, Donald H., and Bosman. 2,907,937.  
Badger, Henry R., Pratt, and Walter. 2,876,277.  
Barbeau, Raymond A., and Meade. 2,901,041.  
Barbeau, Raymond A., and Norris. 2,910,536.  
Barber, Edmund A., Jr. 2,909,971.  
Bauer, Charles H. 2,869,869.  
Bauer, Edwin W. 2,868,451.  
Bauer, Edwin W. 2,918,664.  
Bauer, Edwin W., and Haynes. 2,889,540.  
Bauer, Edwin W., and Haynes. 2,910,594.  
Baumeister, Heard K. 2,877,066.  
Beattie, Horace S. 2,893,312.  
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Beiderbecke, Charles H. 2,872,011.  
Benson, Alfred B., and Thorne. 2,919,427.  
Blackford, Stephen H. 2,919,431.  
Bloch, Erich. 2,910,677.  
Bloch, Erich, and Hallstead. 2,910,673.  
Bloch, Erich, and Paulsen. 2,889,543.  
Bolton, Wallis D. 2,884,704.  
Bolton, Wallis D. 2,889,758.  
Bolton, Wallis D. 2,890,343.  
Bolton, Wallis D. 2,910,229.  
Bonner, Gilbert B. 2,905,501.  
Borders, Charles R. 2,889,456.  
Boyd, Robert E. 2,919,067.  
Brand, Samuel. 2,910,669.  
Branscomb, Charles E. 2,915,161.  
Brophy, James J., and Buttrey. 2,914,728.  
Brophy, Jere E., and Ingraham. 2,902,417.  
Brown, Edgar A. 2,880,997.  
Brown, Edgar A. 2,902,676.  
Brown, Edgar A. 2,915,593.  
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Bruce, George D. 2,869,000.  
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Bruce, George D., Jr. 2,905,383.  
Burrell, Warren P., Cohen, and Hardenbergh. 2,901,168.  
Buslik, Walter S., and Vinson. 2,919,076.  
Cargill, Allan C. 2,897,648.  
Cauboue, Jean, and Gergaud. 2,901,169.  
Chao, Shih C. 2,870,348.  
Clapper, Genung L. 2,885,149.  
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Counihan, Richard G. 2,902,677.  
Crawford, David J. 2,906,871.  
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 Demer, Frederick M., and Harrington. 2,895,411.  
 Demer, Frederick M., and Marks. 2,881,364.  
 Dersch, William C., Jr. 2,915,677.  
 Dickinson, Arthur H. 2,872,570.  
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 Dickinson, Arthur H. 2,872,670.  
 Dickinson, Arthur H. 2,882,463.  
 Dickinson, Arthur H. 2,884,192.  
 Dickinson, Arthur H. 2,895,672.  
 Dickinson, Wesley E. 2,897,254.  
 Dodge, Ronald D. 2,879,879.  
 Dodge, Ronald D. 2,897,941.  
 Dodge, Ronald D. 2,909,935.  
 Dodge, Ronald D., and Walton. 2,905,304.  
 Dodge, William W., and Hibbard. 2,877,081.  
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 Drum, Raymond F., and Wenn. 2,873,434.  
 Dufour, Roland F. 2,872,662.  
 Duke, William H. 2,905,889.  
 Durfee, Benjamin M., and Miller. 2,867,790.  
 Emery, Raymond W., and Henle. 2,906,889.  
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 Fiehl, Michael. 2,898,104.  
 Fiehl, Michael. 2,919,130.  
 Fitch, Clyde J. 2,897,934.  
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 Fleisher, Harold. 2,903,602.  
 Furman, Frank J., Moneagle, and Simpson. 2,907,270.  
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 Ganzhorn, Karl, Einsele, and Bornhauser. 2,914,754.  
 Garwin, Richard L. 2,913,881.  
 Garwin, Richard L., Reich, and Triebwasser. 2,897,399.  
 Geisler, Helmut J. 2,889,538.  
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 Gessner, Eugene. 2,910,675.  
 Giannuzzi, George A. 2,884,799.  
 Gilmore, Vincent J. 2,897,945.  
 Gilovich, Paul A. 2,873,725.  
 Goddard, William A. 2,901,730.  
 Gorgas, Henry L. 2,897,363.  
 Greanias, Evon C. 2,881,976.  
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 Greaves, Robert W. 2,902,974.  
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 Greenhalgh, Roger C. 2,872,666.  
 Hagopian, Jacob J. 2,896,456.  
 Hagopian, Jacob J. 2,913,246.  
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 Hamilton, Francis E., Hawkins, Lawhead, and Hughes. 2,901,166.  
 Hamilton, Francis E., Hughes, Smith, and Furr. 2,919,429.  
 Hamilton, Francis E., Troy, and Hughes. 2,877,450.  
 Hamilton, Francis E., Wolfe, and Jackowski. 2,902,213.  
 Handen, Carl. 2,898,522.  
 Hannibal, Joseph O., Jr. 2,909,995.  
 Harker, John M., and Lynott. 2,913,922.  
 Harper, Leonard R. 2,910,236.  
 Hauser, John H., and Lorenz. 2,872,391.  
 Havens, Bryon L. 2,903,579.  
 Havens, Byron L. 2,907,526.  
 Havens, Byron L. 2,910,239.  
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 Haynes, Munro K. Re. 24,614.  
 Haynes, Munro K. 2,881,413.  
 Haynes, Munro K. 2,881,414.  
 Hazel, Herbert K. 2,901,127.  
 Henle, Robert A. 2,872,593.  
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 Hibbard, Oscar L., and Bakelaar. 2,909,891.  
 Hickerson, John E. 2,905,083.  
 Hickerson, John E. 2,905,302.  
 Hickerson, John E., Page, and Weidenhammer. 2,895,584.  
 Holman, Wesley A. 2,913,535.  
 Homan, Merle E. 2,901,675.  
 Housman, Bennett. 2,888,201.  
 Hunter, Lloyd P. 2,867,733.  
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 Hunter, Lloyd P. 2,897,105.  
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 Johnson, Reynold B., and Dersch. 2,872,669.  
 Johnson, Reynold B., Moneagle, Koranye, Jurgens, and Prater. 2,889,110.  
 Keller, Seymour P. 2,910,648.  
 Kelly, Martin J. 2,898,580.  
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 Kippenhan, Beverly W. 2,884,625.  
 Kistner, Harold J., and Moneagle. 2,881,697.  
 Klotz, Herman J. 2,880,800.  
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 Koehler, Robert B. 2,872,108.  
 Koelsch, Albert C., Jr., and De Lano. 2,909,973.  
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 Little, John B., and Phelps. 2,902,629.  
 Litz, Frank A. 2,916,205.  
 Logue, Joseph C. 2,872,594.  
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 Luning, George A., and Wilson. 2,877,017.  
 Lynott, John J. 2,898,890.  
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 MacCormack, Henry E. 2,890,141.  
 MacLay, William R. 2,881,073.  
 MacLay, William R. 2,914,956.  
 MacSorley, Olin L. 2,880,331.  
 MacSorley, Olin L. 2,882,423.  
 Malmros, Gustav V. A., and Harrington. 2,897,752.  
 Marcus, Mitchell P., and Underwood. 2,889,987.  
 Markow, George R. 2,875,432.  
 May, Gordon H. 2,884,794.  
 McNutt, Robert D. 2,910,544.  
 Mestre, Auguste F. 2,919,434.  
 Miles, George T. 2,875,883.  
 Mitchell, George E. 2,867,167.  
 Morgan, Mark. 2,901,927.  
 Mork, Ralph G. 2,902,684.  
 Mork, Ralph G. 2,915,643.  
 Murphy, Robert W. 2,875,537.  
 Newcomb, Delmar C. 2,906,400.  
 Northrup, Willard F. 2,919,044.  
 O'Donnell, John F. and Segall. 2,898,514.  
 Oldenboom, Derk J. 2,880,999.  
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 Palmer, Leon E. 2,875,850.  
 Palmer, Leon E. 2,905,305.  
 Palmer, Leon E. 2,919,002.  
 Palmer, Leon E., and Donnan. 2,905,303.  
 Palmer, Leon E., Page, and Hickerson. 2,879,876.  
 Palmer, Ralph L. 2,884,189.  
 Panissidi, Hugo A. 2,878,015.  
 Panissidi, Hugo A. 2,880,838.  
 Panissidi, Hugo A. 2,902,005.  
 Paulsen, Robert C. 2,880,392.  
 Paulsen, Robert C., and Dickinson. 2,901,608.  
 Peterson, Edward L., Jr. 2,878,398.  
 Petherick, Edward J., and Rowley. 2,886,242.  
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 Post, Frederick L. 2,898,581.  
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 Purcell, Joseph J. 2,885,072.  
 Quade, Edward A. 2,875,429.  
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 Rehurek, Adolph, Jr. 2,889,909.  
 Ress, Thomas I., and Greanias. 2,919,425.  
 Rice, Rex. 2,911,147.  
 Richards, Richard K. 2,888,556.  
 Rochester, Nathaniel, Johnson, Amdahl, and Mutter. 2,889,535.  
 Rogers, Mortimer D., and Dickinson. 2,880,314.  
 Rohland, William S. 2,877,951.  
 Rohland, William S. 2,910,686.  
 Rohland, William S. 2,919,426.  
 Rosenheim, Donald E. 2,911,623.  
 Ross, Dan C. 2,884,621.  
 Ross, Harold D., Saraban, Astrahan, Housman, and Thomas. 2,914,248.  
 Roth, Robert I. 2,867,168.  
 Roth, Robert I. 2,889,539.  
 Roth, Robert I. 2,896,844.  
 Roth, Robert I. 2,905,000.  
 Roth, Robert I. 2,914,245.  
 Russell, Louis A. 2,894,151.  
 Russell, Louis A. 2,904,779.  
 Russell, Louis A. 2,907,987.  
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 Rutz, Richard F. 2,867,732.  
 Rutz, Richard F. 2,889,499.  
 Rutz, Richard. 2,898,474.  
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 Saltz, Fred. 2,884,852.  
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 Smith, Perrin F. 2,906,819.  
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 Smuta, Edwin J. 2,914,698.  
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 Taunt, James E. 2,895,106.  
 Taylor, Richard. 2,886,702.  
 Thompson, John J. and Knight. 2,898,255.  
 Tibbling, Stig B. 2,879,877.  
 Tibbling, Stig B. 2,889,026.  
 Toeppen, Thurston H. 2,889,024.  
 Toeppen, Thurston H. 2,902,137.  
 Toner, James W. 2,910,583.  
 Tucker, Gardiner L. 2,869,054.  
 Vogel, Norman A. 2,886,651.  
 Vogel, Norman A. 2,897,484.  
 Wagner, Walter W. 2,901,246.  
 Walker, Robert M. 2,886,798.  
 Walker, Robert M. 2,891,153.  
 Walker, George A. 2,902,132.  
 Walton, Charles A. 2,872,671.  
 Walton, Nell D., and Kruspe. 2,902,133.  
 Way, James E. 2,902,330.  
 Weidenhammer, James A. 2,910,294.  
 Weiss, Cornelius F., Jr., and Di Cambio. 2,884,191.  
 Whippo, Walter B. 2,902,136.  
 Whippo, Walter B. 2,919,008.  
 Whitney, Gordon E. 2,877,449.  
 Willard, Dennis D. 2,869,965.  
 Willard, Dennis D. 2,895,079.  
 Willard, Dennis D. 2,901,738.  
 Willard, Dennis D., and Malmros. 2,907,886.  
 Williams, Frederic C., Kilburn, Edwards, and Thomas. 2,913,175.  
 Williams, Frederic C., Kilburn, and Robinson. 2,892,588.  
 Wilson, Edward S., and Young. 2,885,656.  
 Wilson, Lawrence A., Durfee, and Tashjian. 2,900,831.  
 Wilson, Melvin G. 2,894,128.  
 Wittenberg, Wilford M. 2,910,674.  
 Wittwer, Bernard W. 2,872,013.  
 Wohr, Thomas E. 2,882,424.  
 Woodbury, William W., Wheelock, and Toben. 2,884,619.  
 Wooding, Edwin R. 2,918,865.  
 Young, Donald R. 2,869,111.  
 Young, Donald R. 2,877,355.  
 Young, Donald R. 2,914,735.  
 Young, Donald R. 2,914,736.  
 Young, Donald R. 2,919,063.  
 Young, Donald R., and Funk. 2,872,661.  
 Young, Paul M. 2,884,487.  
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International Cigar Machinery Co.: *See*—

Clausen, Sigurd. 2,891,556.  
 Hanson, Victor G. 2,891,557.  
 Wheeler, Henry H. 2,884,929.

International Clay Machinery of Delaware, Inc.: *See*—

McElroy, Roy H. 2,909,826.  
 McElroy, Roy H., and Dykes. 2,888,731.

International Combustion (Holdings) Ltd.: *See*—

Harlow, Walter F. 2,867,378.

International Computers and Tabulators Ltd.: *See*—

Bird, Raymond. 2,904,252.  
 Broido, Daniel. 2,892,542.  
 Drewe, John, and Atkinson. 2,899,568.  
 Keen, Harold H. 2,909,128.  
 Townsend, Ralph, and Sharp. 2,898,513.  
 Womersley, John R., and Townsend. 2,898,042.  
 Wright, Thomas O., and Rigby. 2,893,311.

International Electronic Research Corp.: *See*—

McAdam, John C. 2,915,637.  
 Woods, Leroy R. 2,899,670.  
 Woods, Leroy R. 2,905,742.

International Ferment Machinery Co., Inc.: *See*—

Norment, Robert T. 2,870,862.

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Langberg, Charles. 2,887,424.

International Harvester Co.: *See*—

Aasland, John L. 2,881,579.  
 Aasland, John L. 2,912,812.  
 Allin, George S. 2,867,922.  
 Allin, George S., Sr. 2,888,758.  
 Allin, George S., Sr., and Liu. 2,876,657.  
 Barbknecht, Fred W. 2,869,308.  
 Barrett, Robert D. 2,868,273.  
 Beardsley, Gale R. 2,906,252.  
 Behnen, William B. 2,871,805.  
 Benno, Edward L. 2,884,811.  
 Bornzin, James H. 2,909,989.  
 Bornzin, James H., Sadler, and Fachini. 2,884,754.  
 Carlson, Ernest C. 2,909,988.  
 Chen, Simon K. 2,872,496.  
 Christofferson, Donald F. 2,876,853.  
 Clark, Adna R. 2,906,088.  
 Clark, Adna R. 2,912,832.  
 Courtney, Joseph F., and Radtke. 2,885,257.  
 Covitt, Jack G. 2,901,792.  
 Davidson, Trevor O., and Storz. 2,897,613.  
 Donner, Verne P., Henning, and Allin. 2,917,125.  
 Erisman, Ralph J. 2,895,330.  
 Feil, George W., Jr. 2,285,243.  
 Feil, George W., Jr. 2,912,198.  
 Ferguson, Henry A., Ziskal, and Isaacson. 2,913,064.  
 French, George L. 2,886,338.

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 Hausmann, Joseph A. 2,897,661.  
 Hennessey, Richard G. 2,874,790.  
 Henning, William W., and Storz. 2,867,444.  
 Hershman, Gordon L. 2,869,654.  
 Hershman, Gordon L. 2,874,789.  
 Hershman, Gordon L. 2,886,065.  
 Hubert, Clarence A. 2,899,034.  
 Hubert, Clarence A., Rosenthal, and Barrett. 2,881,627.  
 Huddle, Edwin F. 2,897,900.  
 Huddle, Edwin F., and Clark. 2,895,278.  
 Jedrzykowski, Edmund. 2,908,994.  
 Jucaitis, Pranas. 2,868,674.  
 Kivisto, Lauri J., and Seddon. 2,897,787.  
 Kolthoff, C. Paul, Jr. 2,876,751.  
 Kolthoff, C. Paul, Jr. 2,875,503.  
 Kolthoff, C. Paul, Jr. 2,897,803.  
 Kolthoff, C. Paul, Jr. 2,902,298.  
 Kolthoff, C. Paul, Jr., and Jones. 2,909,363.  
 Kowalik, John J. 2,889,153.  
 Lee, Fred A. 2,868,310.  
 Lyle, James E., and Jaramillo. 2,906,352.  
 Maki, Edwin C. 2,876,743.  
 Malcolm, Robert H. 2,902,012.  
 Mason, Wylie A., Jr. 2,869,656.  
 Maughan, John. 2,912,258.  
 May, Patrick L. 2,897,747.  
 Miller, Robert H. 2,916,097.  
 Miller, Robert H., and Ward. 2,916,096.  
 Moorman, Earl F. 2,909,625.  
 Morkoski, James. 2,912,256.  
 Murray, Donald A. 2,869,305.  
 Oberley, Alton F., and Darroch. 2,876,533.  
 Olson, William N. 2,871,964.  
 Orendorf, John W. 2,869,491.  
 Palmer, John S., and Gaul. 2,912,095.  
 Person, Frank W. 2,877,000.  
 Pool, Stuart D. 2,909,883.  
 Pool, Stuart D., and Melin. 2,876,796.  
 Roehm, Charles W. 2,888,829.  
 Richardson, Pierce F. 2,876,659.  
 Richardson, Pierce F. 2,906,564.  
 Routledge, James H. 2,885,021.  
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 Ruggeri, John R. 2,876,752.  
 Scarnato, Thomas J., Zielinski, and Hilblom. 2,895,277.  
 Seddon, Thomas R. 2,902,053.  
 Sewell, Ernest R. 2,882,090.  
 Shallenberg, Robert L. 2,872,247.  
 Shallenberg, Robert L. 2,887,993.  
 Smith, Hiram P. 2,869,653.  
 Smith, Hiram P. 2,871,960.  
 Snow, Kenneth T. 2,895,590.  
 Staadt, Richard L. 2,885,049.  
 Steiner, Phillip F. 2,885,013.  
 Stillo, Frank W. 2,882,885.  
 Storz, Gottfried J. 2,877,024.  
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 Tan, Kheng S. 2,912,826.  
 Toland, Wayne G. 2,895,559.  
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 Tomik, George A. 2,877,055.  
 Vahs, William. 2,906,291.  
 Van Buskirk, Ernest M. 2,912,811.  
 Wagner, John C. 2,912,057.  
 Walker, Delos A., and Patton. 2,876,612.  
 Wiley, Frederick H., and Bellingher. 2,902,105.  
 Wulpi, Donald J. 2,876,528.  
 Young, Stephen M., and Christie. 2,895,281.  
 Ziskal, Joseph F. 2,894,492.  
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International Hormones, Inc.: *See*—

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International Instruments, Inc.: *See*—

Podoloff, Richard H. 2,871,450.  
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Barth, Harry J. 2,880,186.  
 Miller, Alfred L., and V. A. 2,880,189.  
 Miller, Verle A., and Becker. 2,876,203.  
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International Metal Products Co.: *See*—

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Bart, Roger. 2,890,934.  
 Baumann, Arthur N. 2,888,321.  
 Byrne, Harold J. 2,888,383.  
 Cook, Charles C. 2,881,916.  
 Dancy, William B., and Nylander. 2,900,227.  
 Dancy, William B., and Stanley. 2,895,794.  
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Gillis, Marvin B. Re. 2,470,707.  
 Gloss, Gunter H. 2,869,988.  
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 Gloss, Gunter H. 2,912,317.  
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 Gross, John H. 2,915,363.  
 Hartig, Rufus G., and Archer. 2,901,061.  
 Haseman, Joseph F. 2,914,174.  
 Hill, Frederick J. 2,902,029.  
 Hogan, Forest A. 2,909,564.  
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 Houston, Harry H. 2,898,303.  
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 Le Baron, Ira M. 2,882,127.  
 Le Baron, Ira M. 2,889,042.  
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 MacDonald, Robert A., and Stewart. 2,893,858.  
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 Peterson, John A., and Gloss. 2,893,828.  
 Purvis, Joseph L. 2,906,602.  
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 Betteridge, Walter. 2,891,307.  
 Bieber, Clarence G., and Ziegler. 2,912,323.  
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 Leaberry, Ernest F., Hendershot, and Edwards. 2,882,568.  
 Petryck, Leon M., and Pease. 2,900,490.  
 Rhoda, Richard N., and Madison. 2,915,406.  
 West, De W. H., Townshend, and Llewelyn. 2,909,408.  
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 La Bombard, Leon E. 2,899,873.  
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 Nelson, John E. 2,871,772.  
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 Escoffery, Charles A. 2,892,136.  
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 Kong, Daniel. 2,915,680.  
 Macha, Milo V. 2,891,882.  
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 Aigrain, Pierre R. R. 2,872,524.  
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 Beck, Arnold H. W., Cutting, Brisbane, and King. 2,912,611.  
 Beck, Arnold H. W., and de Mengel. 2,918,599.  
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 Branch, Maurice C. 2,914,667.  
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 Bray, Frederick H., King, and Rice. 2,899,500.  
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 Bray, Frederick H., and Knight. 2,906,888.  
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 Bray, Frederick H., and Knight. 2,914,615.  
 Brewster, Arthur E. 2,868,891.  
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 Chapman, Roger, and Robinson. 2,901,556.  
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 Clarke, George W., Weston, and Andrews. 2,894,055.  
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 Den Hertog, Martinus. 2,884,489.  
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 Dukes, John M. C., and Kemp. 2,874,276.  
 Dumousseau, Claude R. J., and Chateion. 2,881,415.  
 Earp, Charles W. 2,871,290.  
 Eick, Wolfgang H. G. 2,878,358.  
 Goerlich, Reinhard. 2,908,278.  
 Gohorel, Fernand P. 2,878,328.  
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 Green, Bernard J. 2,885,334.  
 Grewe, Theodor. 2,896,170.  
 Grottrup, Helmut. 2,890,301.  
 Henquet, Andre J., and Perrot. 2,882,344.  
 Henquet, Andre J., and Perrot. 2,913,534.  
 Hinton, Raymond C. P., and Warden. 2,868,869.  
 Hubner, Udo. 2,896,191.  
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 Jackson, Thomas M., and Sell. 2,896,122.  
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 Jaenke, Martin G., and Reichsl. 2,883,456.  
 Leman, Hugh S. 2,916,558.  
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 Lens, Georges X. 2,873,863.  
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 Lewin, Leonard, and Pethick. 2,882,500.  
 Lieb, Albert. 2,902,619.  
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 Linsman, Marcel. 2,886,246.  
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 Marteleur, Carl. 2,916,559.  
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 Mehliis, Arthur. 2,889,941.  
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 Muller, Martin. 2,918,622.  
 Nishio, Hidehiko, and Yasuda. 2,882,439.  
 Odell, Alexander D., and Turner. 2,906,890.  
 Oden, Hoeckley. 2,887,536.  
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 Raithel, Kurt E. 2,906,930.  
 Ridler, Desmond S., and Armsby. 2,883,475.  
 Robinson, Thomas P., and Dawkins. 2,881,856.  
 Robinson, Thomas P., and Glover. 2,876,861.  
 Rogers, Douglas C. 2,889,478.  
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 Sass, Karl. 2,887,537.  
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 Scott, Thomas R., King, and Wilson. 2,910,394.  
 Steinbuch, Karl W., Endress, and Reiner. 2,906,824.  
 Steiner, Fritz, and Mortek. 2,881,373.  
 Sterling, Henley F. 2,914,397.  
 Strosche, Hermann K. J. 2,908,592.  
 Tanaka, Nobutaka, and Kawahashi. 2,890,283.  
 Terry, Victor J. R., and P. S. Kelly, and Cragg. 2,896,148.  
 Thomas, Lawrence G. 2,897,493.  
 Thomson, Bernard, and Swift. 2,867,947.  
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 Weir, Donald A. 2,904,778.  
 Wilson, Jack M. 2,888,328.  
 Wright, Esmond P. G. 2,918,526.  
 Wright, Esmond P. G., and Rice. 2,868,447.  
 Wright, Esmond P. G., and Rice. 2,913,527.  
 Wright, Esmond P. G., Rice, and Hunter. 2,871,464.  
 Wright, Esmond P. G., Weir, and Rice. 2,896,019.  
 Wuyts, Joseph M. B. A. 2,876,445.  
 Yasuda, Susumu. 2,895,066.  
 Yule, William H. D. 2,874,246.  
 Yule, William H. D., and Kingdom. 2,889,425.

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Hicks, Harold H. 2,894,646.

**International Telemeter Corp. : See—**

Ridenour, Louis N. 2,875,269.  
 Wendt, Karl R., Squires, and Gunning. 2,875,270.

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 Adams, Robert T., and Harvey. 2,894,233.  
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 Alexander, Ben. 2,881,331.  
 Allison, David F. 2,869,057.  
 Allison, David F. 2,915,687.  
 Altman, Frederick J. 2,903,576.  
 Arditi, Maurice. 2,867,782.  
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 Bain, George W. 2,871,368.  
 Bain, George W. 2,887,601.  
 Bain, George W. 2,892,104.  
 Bates, John K., Jr. 2,912,579.  
 Baum, Richard F. 2,889,458.  
 Bellamy, John L. 2,909,712.  
 Blake, Neal A. 2,911,469.  
 Bradburd, Ervin M. 2,890,420.  
 Brandt, Raymond W. 2,896,077.  
 Brown, William T. 2,917,719.  
 Bryant, John H., Peifer, and Wilmarth. 2,894,227.  
 Busignies, Henri G. 2,871,344.  
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 Busignies, Henri G. 2,895,009.  
 Capen, Harold N., Brown, and Evans. 2,911,333.  
 Carpenter, David L., and Clements. 2,917,665.  
 Casabona, Anthony M. 2,878,469.  
 Chapman, Richard F. 2,894,187.  
 Cooper, William H. 2,891,201.  
 Cox, John E., and Hasser. 2,917,585.  
 Culbertson, John L. 2,874,224.  
 Culbertson, John L. 2,888,519.  
 Curry, William J. 2,888,361.  
 Davidoff, Dorsey. 2,906,964.  
 Davis, Dean W. 2,916,661.  
 Day, Cyril L. 2,892,087.  
 Day, Cyril L. 2,894,167.  
 De Faymoreau, Etienne. 2,912,662.  
 De Faymoreau, Etienne C. L. 2,912,689.  
 De Faymoreau, Etienne C. L. 2,916,737.  
 De Faymoreau, Etienne C. L., and Mandel. 2,906,874.  
 De Faymoreau, Etienne C. L., and Mandel. 2,916,738.  
 De Faymoreau, Etienne, Singer, and Wolter. 2,912,688.  
 Denz, Arthur R. 2,918,627.  
 De Rosa, Louis A., Masonson, and Lundburg. 2,915,750.  
 Di Toro, Michael J. 2,868,882.  
 Dobrowolski, Raymond M., and Seeley. 2,912,353.  
 Dodington, Sven H. M. 2,877,344.  
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 Doddington, Sven H. M., and Mahler. 2,912,686.  
 Dorney, Patrick E., and Sharp. 2,912,652.  
 Durst, Robert F., and Jacobs. 2,902,633.  
 Eberhardt, Edward H. 2,882,486.  
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 Epstein, Arnold S. 2,888,782.  
 Fischer, Laurin G. 2,912,692.  
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 Gates, Harry W. 2,887,663.  
 Glomb, Walter L. 2,894,153.  
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 Gobat, Andre R. 2,911,773.  
 Goldan, Theodore J. 2,894,222.  
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 Hall, George L. 2,916,666.  
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- Iving, George E., to N. G. Ragus. Gate valves. 2,885,175, 5-5-59, Cl. 251—162.
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- Irwin, George C., deceased, by E. V. Irwin, administratrix,  $\frac{1}{2}$  to A. W. Willert,  $\frac{1}{4}$  to E. V. Irwin,  $\frac{1}{4}$  to said E. V. Irwin, as guardian of D. J. Irwin, a minor, and  $\frac{1}{4}$  to said E. V. Irwin, as guardian of A. E. Irwin, a minor. Process for increasing the flow in oil wells. 2,879,847, 3-31-59, Cl. 166—42.
- Irwin, Harry B., to Dayton Bait Co. Fishing float. 2,895,255, 7-21-59, Cl. 43—44.88.
- Irwin, Harry B., and E. R. Waterhouse, to Dayton Formold, Inc. Molding plastic foam. 2,898,632, 8-11-59, Cl. 18—48.



- Irwin, Leslie C., to The Winter Dump Co. Ltd. Grain door opening mechanism for railway cars. 2,877,908, 3-17-59, Cl. 214-54.
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- Isler, Saul G. Means for detachably securing wriststraps. 2,886,874, 5-19-59, Cl. 24-265.
- Isley, Arthur L. Apparatus for stemming tobacco. 2,881,768, 4-14-59, Cl. 131-126.
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- Israel, Robert D.: *See*—  
Vettel, Arthur W., and Israel. 2,893,840.
- Israel, State of, Prime Minister's Office: *See*—  
Tabar, Harry Z. 2,888,007.
- Israelson, Arlo F., and E. J. Tenpas, to F. J. Stokes Machine Co. Magnetic separator for pills. 2,900,076, 8-18-59, Cl. 209-215.
- Isreeli, Jack, to Technicon Instruments Corp. Dialyzers. Re. 24,736, 11-17-59, Cl. 210-321.
- Isreeli, Jack, to Technicon International, Ltd. Automatic immersion apparatus. 2,872,894, 2-10-59, Cl. 118-10.
- Isreeli, Jack, and A. Ferrari, Jr., to Technicon Instruments Corp. Pumps. 2,893,324, 7-7-59, Cl. 103-149.
- Issaewitch Rebkoff, Dimitri. Submarine clearing machine. 2,907,162, 10-6-59, Cl. 56-9.
- Issigonis, Alexander A., to The Austin Motor Co. Ltd. Motor vehicle power plants. 2,913,927, 11-24-59, Cl. 74-701.
- Istel, Erich: *See*—  
Rodenacker, Wolf, Istel, and Schnegg. 2,889,211.
- Itabashi, Takashi: *See*—  
Hiratsuka, Kizo, Yonemitsu, Itabashi, Ishikawa, Date, and Keimatsu. 2,889,368.
- Itall Fashions, Inc.: *See*—  
Mirken, Burt J. 2,916,071.
- Ithaca Gun Co., Inc.: *See*—  
Smith, Nestor F. 2,882,634.
- Itkonen, Sylvia. Garment stretcher. 2,887,257, 5-19-59, Cl. 223-69.
- Ito, Akira, to Shinagawa Hakurenga Kabushiki Kaisha. Method of burning ceramic ware. 2,883,729, 4-28-59, Cl. 25-157.
- Ito, Michiaki, to International Standard Electric Corp. Charged particle beam focusing system. 2,902,622, 9-1-59, Cl. 315-3.6.
- Ito, Tomoo: *See*—  
Ueda, Takeo, Wachi, and Ito. 2,877,219.
- Itria, Oswald A., and H. L. Tanner, III, to The Texas Co. Explosive assembly. 2,887,053, 5-19-59, Cl. 102-24.
- Itria, Oswald A., and B. D. Lee, to Texaco Inc. Method of geophysical exploration. 2,908,342, 10-13-59, Cl. 181-5.
- Ittermann, Alfred S., and G. A. Mitchell, to Western Electric Co., Inc. Magnetron supporting apparatus. 2,916,248, 12-8-59, Cl. 248-287.
- Ittlinger, Rudolf: *See*—  
Gloss, Gunter H., and Ittlinger. 2,903,434.
- Ivanko, Michael F.: *See*—  
Ketterer, Stanley J., and Ivanko. 2,906,222.
- Ivanoff, Alexander, to Hayward-Tyler and Co. Ltd. Structures comprising a motor and a pump driven thereby. 2,885,963, 5-12-59, Cl. 103-87.
- Iversen, Arthur H., to Hughes Aircraft Co. Vitreous coated magnetic material. 2,877,144, 3-10-59, Cl. 117-215.
- Iversen, Arthur H., to Hughes Aircraft Co. Traveling wave electron discharge device. 2,884,556, 4-28-59, Cl. 315-3.5.



- Iversen, Arthur H., to Hughes Aircraft Co. Ferromagnetic microwave device. 2,894,224, 7-7-59, Cl. 333-34.
- Iversen, Arthur H., to Hughes Aircraft Co. Method of manufacture of slow-wave structures. 2,918,358, 12-22-59, Cl. 41-43.
- Ives, Andrew M., and R. F. Thompson, to Swift & Co. Removal of odor and color bodies in fat splitting. 2,895,975, 7-21-59, Cl. 260-415.
- Ivers-Lee Co.: See—  
Swartz, George A. 2,870,587.
- Volckening, Lloyd I., O'Meara, and Lefebvre. 2,877,893.
- Ives, Ralph J.: See—  
Avseev, Ralph J. 2,886,648.
- Iveson, Herbert T.: See—  
Davis, Paul F., and Iveson. 2,910,362.
- Ivester, Henry E.: See—  
Evans, Kenneth P., Ivester, and Turrini. 2,869,076.
- Ivey, Fred S.: See—  
Dean, Lloyd E., and Ivey. 2,906,784.
- Ivins, Owen D., and J. D. Head, to The Dow Chemical Co. Method of preparing terephthalic acid esters from  $\alpha, \alpha, \alpha', \alpha', \alpha'-$ hexachloro- $\beta$ -xylene. 2,871,256, 1-27-59, Cl. 260-475.
- Ivory, Chester S. Dental cotton roll holder. 2,897,597, 8-4-59, Cl. 32-35.
- Ivy Furniture Inc.: See—  
Friend, Irvin. 2,905,514.
- Ivy, Hyrie A., Jr. Mitering attachment for power saws. 2,894,543, 7-14-59, Cl. 143-170.
- Ivy, Jessie T. Thumb, face and eye guard attachment for rifles. 2,901,854, 9-1-59, Cl. 42-71.
- Ivy, Mary E., to The Goodyear Tire & Rubber Co. Container for packaging pills, etc. 2,878,928, 3-24-59, Cl. 206-56.
- Iwai, Ryohel. Oil atomizing machine for remedy of consumption. 2,871,855, 2-3-59, Cl. 128-195.
- Iwasaki, Takeshi. Portable washing and cleaning apparatus for the various kinds of the enclosed engine parts. 2,896,645, 7-28-59, Cl. 134-111.
- Iwerks, Marvin C., to Bell Telephone Laboratories, Inc. Symbol generator for cathode ray tubes. 2,873,405, 2-10-59, Cl. 315-22.
- Izumi, Tamotsu: See—  
Tomonari, Tadao, Ishimoto, Togo, and Izumi. 2,905,613.
- Izumitani, Tetsuro, R. Terai, H. Hamamura, said H. Hamamura, now by change of name to H. Ogawa, to Director of the Agency of Industrial Science and Technology, the Ministry of International Trade and Industry, Japanese Government. Optical glass. 2,919,201, 12-29-59, Cl. 106-47.
- Izurietta Chiriboga, Carlos. Eraser and holder therefor. 2,891,510, 6-23-59, Cl. 120-36.
- J-B-T Instruments, Inc.: See—  
Daschke, Arthur W. 2,916,700.
- J. F. D. Mfg. Co., Inc.: See—  
Mirrione, James J. 2,876,827.
- J. F. and J. Co., Inc.: See—  
Fleekop, Fred, and Fritts. 2,917,306.
- J. & L. Associates, Inc.: See—  
Eldred, John W. 2,883,797.
- Pasotti, Felice G. 2,906,391.
- J and R Specialties, Inc.: See—  
Reinke, Alfred G., and Johnson. 2,884,269.
- J & S Carburetor Co.: See—  
Jones, Sam P. 2,879,793.
- Jones, Sam P., and Foster. 2,889,688.
- Jabczynski, Hans-Joachim, G. Tiesler, H. Lurk, and K. Schröder, to Siemens & Halske Akt. Electronic stop control for switches having a motor comprising two drive magnets. 2,868,883, 1-13-59, Cl. 179-18.
- Jabsco Pump Co.: See—  
Doble, Warren. 2,892,646.
- McCray, Maurice C., and Doble. 2,918,011.
- McLean, Murray G. 2,881,710.
- Jacaman, Emilio N. Mounting clip and cover for door jamb switch. 2,873,333, 2-10-59, Cl. 200-168.
- Jacini, Giovanni, to American Lecithin Co., Inc. Hydrogenation of phosphatides. 2,870,179, 1-20-59, Cl. 260-403.
- Jacir, Joseph. Cooling tower. 2,915,302, 12-1-59, Cl. 261-30.
- Jack Bill Scientific Instrument Co.: See—  
Pederson, Helmer T. 2,916,670.
- Jack, Fred C., to Josam Mfg. Co. Automatic storm drain outlet. 2,918,077, 12-22-59, Cl. 137-268.
- Jack, George W.: See—  
Wolston, Clinton M., Jr., and Jack. 2,894,881.
- Jack & Heintz, Inc.: See—  
Lee, Lyman S., and Hayden. 2,905,289.
- Papanek, Andrew P. 2,872,586.
- Jack, William A. 3rd: See—  
Parkinson, John S., and Jack. 2,916,261.
- Jacke, Raymond E., to Reynolds Metals Co. Protective cigarette package. 2,913,165, 11-17-59, Cl. 229-87.
- Jacke, Stanley E., L. C. Newsome, and T. J. Kearney, to Detrex Chemical Industries, Inc. Ultrasonic cleaning apparatus. 2,900,038, 8-18-59, Cl. 181-5.
- Jackes-Evans Mfg. Co.: See—  
Gehne, Reinold F. 2,910,059.
- Jackes, Stanley F., and Strano. 2,884,899.
- Vargo, Frank J. 2,870,986.
- Jackes, Stanley F., and S. Strano, to Jackes-Evans Mfg. Co. Feeding device for poultry. 2,884,899, 5-5-59, Cl. 119-53.
- Jacklin, Harold M. Coolant jacket arrangement for internal combustion engines. 2,895,458, 7-21-59, Cl. 123-41.72.
- Jackman, Charles W., to General Motors Corp. Journal shaft bearing. 2,913,290, 11-17-59, Cl. 308-237.
- Jackman, Sidney. Combined child's handbag and carrying package. 2,897,865, 8-4-59, Cl. 150-34.
- Jackoboice, Edward W. Road barrier. 2,892,492, 6-30-59, Cl. 160-135.
- Jackowski, Charles S.: See—  
Hamilton, Francis E., Wolfe, and Jackowski. 2,902,213.
- Jackson, Aldrich L. Spinning type fishing reel. 2,904,281, 9-15-59, Cl. 242-84.21.
- Jackson, Anton and B. A. Dual contact receptacle for printed circuits. 2,909,755, 10-20-59, Cl. 339-192.
- Jackson, Anton and B. A. Printed circuit contact receptacles. 2,911,612, 11-3-59, Cl. 339-176.
- Jackson, Arthur V.: See—  
Siegmond, Gerhard B. 2,916,200.
- Jackson, Boris A.: See—  
Jackson, Anton and B. A. 2,909,755.
- Jackson, Anton and B. A. 2,911,612.
- Jackson, Brian, Associates, Inc.: See—  
Redmond, Eugene R. 2,895,821.
- Jackson, Carl A. Multipurpose container with seat-forming cover. 2,919,169, 12-29-59, Cl. 312-235.
- Jackson, Clarence E.: See—  
Shrubsall, Arthur E., and Jackson. 2,868,681.
- Jackson, Clarence E., and J. M. Ruzek, to Union Carbide Corp. Electric arc welding. 2,871,339, 1-27-59, Cl. 219-137.
- Jackson, Clifford C.: See—  
Shaw, Ernest C., Frank, and Jackson. 2,893,452.
- Jackson, Clinton D. Saw blade sharpeners. 2,894,418, 7-14-59, Cl. 76-37.
- Jackson, Corwill, to Jackson Vibrators, Inc. Vibratory compactor for ditches, canals and the like. 2,885,861, 5-12-59, Cl. 61-63.
- Jackson, Corwill, to Jackson Vibrators, Inc. Ballast working implement and vibrated blade units therefor. 2,892,417, 6-30-59, Cl. 104-13.
- Jackson, Corwill, to Jackson Vibrators, Inc. Ballast tamping machine. 2,899,909, 8-18-59, Cl. 104-12.
- Jackson, Corwill, to Jackson Vibrators, Inc. Vibratory compactor for asphaltic and other materials. 2,909,970, 10-27-59, Cl. 94-48.
- Jackson, Donald, to Pye Ltd. Method of constructing annular variable density light filters. 2,916,968, 12-15-59, Cl. 88-108.
- Jackson, Donald R., to Wyandotte Chemicals Corp. Lower fatty acid esters of N, N, N', N' tetrakis (2-hydroxypropyl) ethylene diamine and vinyl chloride compositions containing same. 2,874,138, 2-17-59, Cl. 260-31.8.
- Jackson, Donald R. P., to Molins Machine Co. Ltd. Apparatus for packing rectangular block-shaped articles. 2,917,887, 12-22-59, Cl. 53-230.
- Jackson, Donald R. P., to Molins Machine Co. Ltd. Apparatus for packing rectangular block-shaped articles in cartons. 2,918,279, 12-22-59, Cl. 271-28.
- Jackson, Earl C. Gas burner. 2,867,271, 1-6-59, Cl. 158-99.
- Jackson, Edwin T. Door unit. 2,914,817, 12-1-59, Cl. 20-11.
- Jackson, Elward G. Sewing machine cabinet. 2,882,111, 4-14-59, Cl. 312-30.
- Jackson, George W., to General Motors Corp. Fluid suspension control mechanism. 2,887,324, 5-19-59, Cl. 280-124.
- Jackson, George W., to General Motors Corp. Control for fluid suspension system. 2,888,273, 5-26-59, Cl. 280-124.
- Jackson, George W. Scaffolding jack. 2,891,819, 6-23-59, Cl. 304-32.
- Jackson, George W., to General Motors Corp. Hydraulic steering system with control means for valve reaction pressures. 2,893,504, 7-7-59, Cl. 180-79.2.
- Jackson, George W., to General Motors Corp. Control apparatus for fluid spring suspension. 2,895,743, 7-21-59, Cl. 280-124.
- Jackson, George W., to General Motors Corp. Air-oil suspension unit with ride height control. 2,895,744, 7-21-59, Cl. 280-124.
- Jackson, George W., and J. F. Pribonic, to General Motors Corp. Control for fluid suspension system. 2,904,330, 9-15-59, Cl. 267-65.
- Jackson, George W., and J. F. Pribonic, to General Motors Corp. Pneumatic suspension control system. 2,918,304, 12-22-59, Cl. 280-124.
- Jackson, Hagan L.: See—  
Currie, James W., and Jackson. 2,913,726.
- Jackson, Harold E., to Tecalemit Ltd. Variable time switches. 2,874,238, 2-17-59, Cl. 200-38.
- Jackson, Harold E., to Tecalemit Ltd. Double-acting fluid metering-ejector. 2,905,090, 9-22-59, Cl. 103-52.
- Jackson, Harold E., to Tecalemit Ltd. Single line lubricant injectors. 2,905,270, 9-22-59, Cl. 184-7.
- Jackson, Harold L., to E. I. du Pont de Nemours and Co. Polymerization of conjugated diolefins with a catalyst consisting of a binary alloy of a group II-A metal and lithium. 2,908,672, 10-13-59, Cl. 260-94.2.
- Jackson, Harold L., to E. I. du Pont de Nemours and Co. Polymerization of conjugated diolefins with a catalyst consisting of a binary alloy of a group II-A metal and a group III-A metal. 2,908,673, 10-13-59, Cl. 260-94.2.



- Jackson, Harold P., to McDonough Power Equipment, Inc. Drive assembly for textile coils. 2,891,412, 6-23-59, Cl. 74-423.
- Jackson, Harry D. Stepping device. 2,910,876, 11-3-59, Cl. 74-88.
- Jackson, Harry E., and B. McDonnell, to The Consolidated Mining and Smelting Co. of Canada Ltd. Process for the production of melamine. 2,902,488, 9-1-59, Cl. 260-249.7.
- Jackson, Harvey W., to Trans Continental Industries, Inc. Panic exit door latch. 2,910,858, 11-3-59, Cl. 70-92.
- Jackson, Howard B., and C. L. Jolly, to Neisler Brothers, Inc. Apparatus and method for making shantung yarn. 2,911,782, 11-10-59, Cl. 57-38.3.
- Jackson Industries, Inc.: See—  
Latimer, James T. 2,869,596.  
Latimer, James T. Re. 24,713.  
Latimer, James T. 2,902,070.
- Jackson, James M., to General Electric Co. Electrical signal regulator. 2,897,432, 7-28-59, Cl. 323-22.
- Jackson, Jesse A. Paper making machine. 2,871,770, 2-3-59, Cl. 92-38.
- Jackson, John K.: See—  
Byloff, Robert C., and Jackson. 2,909,706.
- Jackson, John K. Flexograph printing machine. 2,905,081, 9-22-59, Cl. 101-35.
- Jackson, John K. Delivery mechanism for article printing machines. 2,905,342, 9-22-59, Cl. 214-8.5.
- Jackson, John M.: See—  
Carpenter, Victor W., and Jackson. 2,906,645.
- Jackson, John M., L. E. Zurbuchen, K. C. Flint, C. L. Coleman, and F. R. Werner, to The National Cash Register Co. Totalizer selecting and control mechanism. 2,911,141, 11-3-59, Cl. 235-6.
- Jackson, John N. Devices to temporarily hold and manipulate puncturing tools. 2,873,900, 2-17-59, Cl. 223-104.
- Jackson, John S., to The British Thomson-Houston Co. Ltd. Oxidation-resisting material. 2,886,537, 5-12-59, Cl. 252-518.
- Jackson, Julius, to E. I. du Pont de Nemours and Co. Flame-retarding of textiles. 2,876,118, 3-3-59, Cl. 106-15.
- Jackson, Julius, to E. I. du Pont de Nemours and Co. Chromic hydroxide-ferric hydroxide pigment and coating composition containing same. 2,879,246, 3-24-59, Cl. 260-40.
- Jackson, Julius, to E. I. du Pont de Nemours and Co. Organic coating composition containing basic nickel carbonate. 2,913,348, 11-17-59, Cl. 106-193.
- Jackson, Julius, and A. Siegel, to E. I. du Pont de Nemours and Co. Flame-retarding of textiles. 2,876,117, 3-3-59, Cl. 106-15.
- Jackson, Leslie K.: See—  
Roche, Melvin E., and Jackson. 2,911,656.
- Jackson, Lewis. Animal traps. 2,891,346, 6-23-59, Cl. 43-76.
- Jackson, Lillard L. Electrical junction blocks. 2,917,724, 12-15-59, Cl. 339-198.
- Jackson Mfg. Co.: See—  
Masters, Joseph H., Lawrence, and Masters. Re. 24,622.
- Jackson, Martin A., to United States of America, Navy. Ground anchorage. 2,887,195, 5-19-59, Cl. 189-90.
- Jackson, Michael C.: See—  
Ford, John A., Jackson, and Crook. 2,893,246.
- Jackson, Nolan C., to Wichita Precision Tool Co., Inc. Clamp assembly for garment finishing machines. 2,881,963, 4-14-59, Cl. 223-70.
- Jackson, Nolan C., and C. L. Schroeder, to Wichita Precision Tool Co., Inc. Vent clamp for use when cleaning coats. 2,872,718, 2-10-59, Cl. 24-252.
- Jackson, Norman W.: See—  
Molins, Desmond W., and Jackson. 2,912,987.
- Jackson, Ralph B., D. H. Kelly, and R. V. Townend, to Allied Chemical Corp. Manufacture of titanium tetrafluoride. 2,900,234, 8-18-59, Cl. 23-88.
- Jackson, Richard S. Means for laterally expanding and contracting the tread of vehicle wheels. 2,885,018, 5-5-59, Cl. 180-75.
- Jackson, Robert A. F. Electric space heaters. 2,904,666, 9-15-59, Cl. 219-34.
- Jackson, Robert W.: See—  
Hogg, John A., and Jackson. 2,872,488.
- Jackson, Roderick M., to Hamilton Watch Co. Contact control for electric watch. 2,889,471, 6-2-59, Cl. 307-132.
- Jackson, Russell K., to Radio Condenser Co. Switch. 2,876,314, 3-3-59, Cl. 200-166.
- Jackson, Sam C. Vertically adjustable table. 2,916,340, 12-8-59, Cl. 311-39.
- Jackson, Samul H. Coaxial cable connector. 2,878,458, 3-17-59, Cl. 339-177.
- Jackson, Squire R.: See—  
Clarke, John S., and Jackson. 2,872,971.
- Jackson, Thomas J. Projection screen. 2,900,870, 8-25-59, Cl. 88-28.9.
- Jackson, Thomas M.: See—  
Beck, Arnold H. W., and Jackson. 2,872,620.  
Beck, Arnold H. W., Jackson, and Lytollis. 2,898,502.
- Jackson, Thomas M., and E. A. F. Sell, to International Standard Electric Corp. Electric discharge tubes. 2,896,122, 7-21-59, Cl. 315-169.
- Jackson Vibrators, Inc.: See—  
Jackson, Corwill. 2,885,861.  
Jackson, Corwill. 2,892,417.  
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Jackson, Corwill. 2,909,970.
- Jackson, Warren, Jr., and P. J. Elving, to The Standard Oil Co. Polarographic method and apparatus. 2,886,770, 5-12-59, Cl. 324-30.
- Jackson, Wilbur. Tufting machine. 2,878,763, 3-24-59, Cl. 112-79.
- Jackson, Wilbur F., and T. J. Dykzeul, to Robertshaw-Fulton Controls Co. Thermostatic control device. 2,880,936, 4-7-59, Cl. 236-21.
- Jackson, William L. Dispensing device. 2,896,825, 7-28-59, Cl. 222-211.
- Jackson, William M., to Bonney Forge & Tool Works. Welded outlet fitting. 2,915,324, 12-1-59, Cl. 285-150.
- Jackson, William M., II, to Godfrey L. Cabot, Inc. Method of firing ceramic composition. 2,910,760, 11-3-59, Cl. 25-157.
- Jackson, William R.: See—  
Lombard, Daniel L., and Jackson. 2,873,764.
- Jackson, Winston J., Jr.: See—  
Caldwell, John R., and Jackson. 2,917,490.
- Jacob, Allan S., to Syncro Corp. Generator regulator system. 2,900,591, 8-18-59, Cl. 320-59.
- Jacob, Ernst, K. Meyer, and S. Sommer, to Hercules Powder Co. Inc. Recovery of inert diluents used in the preparation of high molecular weight polyethylene. 2,913,447, 11-17-59, Cl. 260-94.9.
- Jacob, Heinrich, to Zeiss Ikon A.G. Stuttgart. Mirror reflex camera with built-in electric exposure meter. 2,913,968, 11-24-59, Cl. 95-10.
- Jacob, Raymond: See—  
Rabeux, Jean, and Jacob. 2,913,799.
- Jacob, Raymond, and B. Masson, to Societe d'Applications Generales d'Electricite & de Mecanique. Device for hot cutting of woven or knitted materials of synthetic thermofusible fibers. 2,894,106, 7-7-59, Cl. 219-29.
- Jacob, Robert M., to Parke, Davis & Co. Alpha-di-chloroacetamido-beta-chloro-p-nitropropionophenone and method of production. 2,876,261, 3-3-59, Cl. 260-562.
- Jacob, Robert M., and J. C. L. Fouche, to Societe des Usines Chimiques Rhone-Poulenc. Indole derivatives. 2,872,453, 2-3-59, Cl. 260-293.
- Jacob, Robert M., and J. G. Robert, to Societe des Usines Chimiques Rhone-Poulenc. 3-cyano substituted phenothiazines. 2,877,224, 3-10-59, Cl. 260-243.
- Jacob, Robert M., and R. J. Horclois, to Societe des Usines Chimiques Rhone-Poulenc. Amino ethers. 2,882,274, 4-14-59, Cl. 260-294.7.
- Jacob, Robert M., and G. L. Regnier, to Societe des Usines Chimiques Rhone-Poulenc. 3-methanesulphonyl phenanthiazine. 2,888,459, 5-26-59, Cl. 260-243.
- Jacob, Robert M., and G. L. Regnier, to Societe des Usines Chimiques Rhone-Poulenc. 3-methanesulphonyl phenanthiazine derivatives. 2,889,322, 6-2-59, Cl. 260-243.
- Jacob, Robert M., and G. L. Regnier, to Societe des Usines Chimiques Rhone-Poulenc. Phenanthiazine derivatives. 2,894,947, 7-14-59, Cl. 260-243.
- Jacob, Robert M., and R. J. Horclois, to Societe des Usines Chimiques Rhone-Poulenc. Phenanthiazine derivatives. 2,905,668, 9-22-59, Cl. 260-243.
- Jacob, Robert M., R. J. Horclois, and E. Suau, to Societe des Usines Chimiques Rhone-Poulenc. Phenanthiazine derivatives. 2,908,683, 10-13-59, Cl. 260-243.
- Jacob, Robert M., and G. L. Regnier, to Societe des Usines Chimiques Rhone-Poulenc. Phenanthiazine derivatives. 2,909,521, 10-20-59, Cl. 260-243.
- Jacob, Robert M., and N. M. Joseph, to Societe des Usines Chimiques Rhone-Poulenc. Dioxolane derivatives. 2,916,493, 12-8-59, Cl. 260-293.2.
- Jacob, Theodore A.: See—  
Chemerdar, John M., and Jacob. 2,903,448.
- Jacob, Walter E. W., to Telefonaktiebolaget L M Ericsson. Circuit system for electronic memory tubes. 2,895,073, 7-14-59, Cl. 315-12.
- Jacob, Walter E. W., O. Sternbeck, C. G. Svala, and W. E. M. Uhlmann, to Telefonaktiebolaget L M Ericsson. Method for reading of information stored in electronic storage tubes. 2,888,602, 5-26-59, Cl. 315-12.
- Jacobaeus, Anton C., and A. Berge, to Telefonaktiebolaget L M Ericsson. Automatic blocking of lines. 2,913,529, 11-17-59, Cl. 179-18.
- Jacobi, Edward N., to Briggs & Stratton Corp. Pin tumbler lock. 2,879,659, 3-31-59, Cl. 70-364.
- Jacobi, Werner, to Siemens and Halske Akt. Electrical discharge tube. 2,867,741, 1-6-59, Cl. 313-247.
- Jacobitti, Edward: See—  
Gooderham, John W., Jacobitti, Myers, Shipley, and Strickler. 2,868,884.
- Jacobowsky, Armin, and K. Sennwald, to Knapsack-Griesheim Aktiengesellschaft. Process of preparing vinylidene halide. 2,915,565, 12-1-59, Cl. 260-654.
- Jacobs, Bernard: See—  
Durst, Robert F., and Jacobs. 2,902,633.
- Jacobs, Bernard, to International Telephone and Telegraph Corp. Method of soldering germanium diodes. 2,867,899, 1-13-59, Cl. 29-494.
- Jacobs, Carlton L., to Tideland Specialty Co. Inc. Electrical beacon equipment. 2,881,358, 4-7-59, Cl. 315-93.



- Jacobs, Charles T., to McGraw-Edison Co. Dictating machine. 2,912,520, 11-10-59, Cl. 179-100.2.
- Jacobs, David A., M. Kokus, and R. G. Gabriele. Cigarette ash tray and snubber. 2,908,281, 10-13-59, Cl. 131-235.
- Jacobs, David I. H., to The Distillers Co. Ltd. Composition comprising a vinylidene chloride polymer and an esterified polyether plasticizer. 2,886,548, 5-12-59, Cl. 260-31.4.
- Jacobs, Earl D.: *See*—
- Rasof, Bernard, and Jacobs. 2,881,359.
- Jacobs, Eddie P. Tire deflation indicator. 2,908,779, 10-13-59, Cl. 200-61.25.
- Jacobs, Frank C., to California Research Corp. Retractable bearing shoes for caissons. 2,878,649, 3-24-59, Cl. 61-46.5.
- Jacobs, Harvey A.: *See*—
- Fleischmann, Lewis W. 2,914,887.
- Jacobs, James C., Jr.: *See*—
- Donaldson, Warren J., and Jacobs. 2,873,411.
- Jacobs, James H.: *See*—
- Carosella, Michael C., Jacobs, and McNeill. 2,872,395.
- Jacobs, James W., to General Motors Corp. Self-rinsing sink. Re. 24,627, 4-7-59, Cl. 4-187.
- Jacobs, James W., to General Motors Corp. Two speed drive and control means for refrigerating apparatus. 2,881,597, 4-14-59, Cl. 62-133.
- Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 2,888,808, 6-2-59, Cl. 62-155.
- Jacobs, James W., to General Motors Corp. Refrigerating apparatus. 2,892,319, 6-30-59, Cl. 62-186.
- Jacobs, James W., to General Motors Corp. Domestic appliance. 2,899,253, 8-11-59, Cl. 312-257.
- Jacobs, James W., to General Motors Corp. Coupling for transmitting torques. 2,907,426, 10-6-59, Cl. 192-40.
- Jacobs, James W., to General Motors Corp. Domestic appliance. 2,919,340, 12-29-59, Cl. 219-37.
- Jacobs, John E.: *See*—
- Berger, Harold, and Jacobs. 2,886,726.
- Jacobs, John E., to General Electric Co. Light responsive system. 2,898,525, 8-4-59, Cl. 317-124.
- Jacobs, John E., to General Electric Co. Light responsive system. 2,901,633, 8-25-59, Cl. 250-214.
- Jacobs, John E., to General Electric Co. Means for and method of regulating the operation of electrical translation systems. 2,909,669, 10-20-59, Cl. 250-214.
- Jacobs, John E., and H. Berger, to General Electric Co. Method of making photoconductive image transducer tubes. 2,889,188, 6-2-59, Cl. 316-25.
- Jacobs, John E., and H. Berger, to General Electric Co. Image intensification. 2,890,360, 6-9-59, Cl. 313-65.
- Jacobs, John E., and J. F. Howell, to General Electric Co. Translation system. 2,907,883, 10-6-59, Cl. 250-83.3.
- Jacobs, John H., to Westrex Corp. Sound film recording system. 2,880,281, 3-31-59, Cl. 179-100.3.
- Jacobs, Louis J., to The S. Obermayer Co. Refractory gunning composition and method of producing the same. 2,870,032, 1-20-59, Cl. 106-67.
- Jacobs Mfg. Co., The: *See*—
- Stoner, Arthur M. 2,880,007.
- Stoner, Arthur M. 2,880,008.
- Strasel, Raymond K. 2,881,847.
- Strasel, Raymond K. 2,882,063.
- Jacobs, Peter C. Captive passenger carrying powered aircraft. 2,896,947, 7-28-59, Cl. 272-34.
- Jacobs, Phil, Co., Inc.: *See*—
- Jacobs, Phillip. 2,873,452.
- Jacobs, Philip C., Jr., to The Chase-Shawmut Co. High voltage fuses. 2,877,321, 3-10-59, Cl. 200-120.
- Jacobs, Philip C., Jr., and K. W. Swain, to The Chase-Shawmut Co. Fuse structures with ferrules of insulating material. 2,874,249, 2-17-59, Cl. 200-131.
- Jacobs, Phillip, to Phil Jacobs Co., Inc. Maternity garment. 2,873,452, 2-17-59, Cl. 2-221.
- Jacobs, Ridley S., to The Nig Mfg. Co. Ltd. Apparatus for the continuous development of light sensitive papers. 2,898,835, 8-11-59, Cl. 95-94.
- Jacobs, Robert B., to Standard Oil Co. System for quantitative hydrogen determinations. 2,883,542, 4-21-59, Cl. 250-43.5.
- Jacobs, Robert J., and E. E. Persson, to The Black-Clawson Co. Paper coating machine. 2,870,738, 1-27-59, Cl. 118-249.
- Jacobs, William L.: *See*—
- Annable, Weldon G., and Jacobs. 2,868,524.
- Annable, Weldon G., and Jacobs. 2,915,448.
- Annable, Weldon G., Jacobs, and Haines. 2,875,145.
- Jacobs, William L., and W. G. Annable, to The Pure Oil Co. Hydrodesulfurization of naphthas followed by treatment with either metallic copper or silver. 2,897,142, 7-28-59, Cl. 208-212.
- Jacobsen, Andrew B., to United States of America, Navy. Data transmission system. 2,874,378, 2-17-59, Cl. 343-6.
- Jacobsen, Andrew B., to Motorola, Inc. Bias stabilized cascaded transistors. 2,913,603, 12-1-59, Cl. 179-171.
- Jacobsen, Andrew B., and L. A. Turner, to United States of America, Navy. Radar telemetering system. 2,901,743, 8-25-59, Cl. 343-6.5.
- Jacobsen, Andrew B., and A. A. Macdonald, to Motorola, Inc. Radio receiver with squeel means in audio section and battery saver in output circuit. 2,912,571, 11-10-59, Cl. 250-20.
- Jacobsen, Bent B., to International Standard Electric Corp. Distortion elimination in radio repeater systems employing frequency modulation. 2,874,273, 2-17-59, Cl. 250-15.
- Jacobsen, Bent B., and I. V. Feldhusen, to International Standard Electric Corp. Measurement of group delay in electric communication systems. 2,877,409, 3-10-59, Cl. 324-57.
- Jacobsen, Dan, to Cycon, Inc. Automatic parking system. 2,899,087, 8-11-59, Cl. 214-16.1.
- Jacobsen, Edwin. Ducted wing for aircraft. 2,867,391, 1-6-59, Cl. 244-15.
- Jacobsen, Edwin, Jr. Storage system and apparatus. 2,911-115, 11-3-59, Cl. 214-16.1.
- Jacobsen, Irvin S., to Clifton Precision Products Co., Inc. Vibratory reed in electronic heading sensing device. 2,895,048, 7-14-59, Cl. 250-27.
- Jacobsen, Jerome G., Jr., to Westinghouse Electric Corp. Combined washer-dryer. 2,899,816, 8-18-59, Cl. 68-20.
- Jacobsen, Lance R., to Hoffman Electronics Corp. Linear high-gain amplifier circuits or the like. 2,890,291, 6-9-59, Cl. 179-171.
- Jacobsen, Lance R., to Hoffman Electronics Corp. Voltage expander circuits or the like. 2,914,622, 11-24-59, Cl. 179-171.
- Jacobsen Mfg. Co.: *See*—
- Wuerker, Charles A., Jr. 2,900,660.
- Jacobsen, Paul W., to H. G. Weber & Co., Inc. Web tensioning control system. 2,902,232, 9-1-59, Cl. 242-75.47.
- Jacobsen, Paul W., to H. G. Weber & Co., Inc. Automatic expanding shaftless chuck. 2,908,452, 10-13-59, Cl. 242-72.
- Jacobsohn, David H., and L. C. Merrill, to United States of America, Atomic Energy Commission. Adder circuit. 2,869,786, 1-20-59, Cl. 235-61.
- Jacobsohn, Peter W.: *See*—
- Schueler, Hassan E., and Jacobsohn. 2,911,968.
- Jacobson, Arthur L., and S. E. Sorenson. Suspension of ceiling tile. 2,882,558, 4-21-59, Cl. 20-4.
- Jacobson, Carl H.: *See*—
- Chapman, Leslie R., Jr., Gray, and Jacobson. 2,872,674.
- Jacobson, Darwin J. Writing instrument. 2,874,680, 2-24-59, Cl. 120-45.6.
- Jacobson, Edwin B.: *See*—
- Anderson, Lloyd L., Van Noord, and Jacobson. 2,888,724.
- Jacobson, Edwin B., to Jervis Corp. Latch mechanism. 2,881,021, 4-7-59, Cl. 292-229.
- Jacobson, Edwin B., to Jervis Corp. Latch apparatus for right- and left-hand doors. 2,913,758, 11-24-59, Cl. 16-147.
- Jacobson, Eugene W.: *See*—
- Dashiell, John W., Jr., and Jacobson. 2,911,820.
- Jacobson, Harry, to W. S. Shamban & Co. Polytetrafluoroethylene pressing accessory. 2,877,577, 3-17-59, Cl. 38-86.
- Jacobson, Herbert P.: *See*—
- Perkins, William C., Sherwood, and Jacobson. 2,886,708.
- Jacobson, Herbert P., and W. F. Williams, to Collins Radio Co. Interpolation device. 2,886,707, 5-12-59, Cl. 250-36.
- Jacobson, Howard C., and R. P. Olson. Auxiliary mixing device. 2,895,721, 7-21-59, Cl. 259-23.
- Jacobson, James J. Display and demonstration device. 2,898,692, 8-11-59, Cl. 35-49.
- Jacobson, James J. Measuring device. 2,903,203, 9-8-59, Cl. 242-84.8.
- Jacobson, Joel M.: *See*—
- Webb, William A., and Jacobson. 2,867,863.
- Jacobson, Larry: *See*—
- McCracken, John H., and Jacobson. 2,912,379.
- Jacobson, Larry, to Diamond Alkali Co. Rubbery diene synthetic elastomer composition. 2,894,926, 7-14-59, Cl. 260-28.5.
- Jacobson, Martin. Attractants for the gypsy moth. 2,900,756, 8-25-59, Cl. 43-124.
- Jacobson, Robert A.: *See*—
- MacNaught, Donald F., and Jacobson. 2,901,279.
- Jacobson, Robert I., and R. Deutsch, to Sperry Rand Corp. Pilot pulse system for monopulse comparator. 2,881,423, 4-7-59, Cl. 343-7.3.
- Jacobson, Rollyn P., to Sinclair Oil & Gas Co. Device for measuring gas. 2,915,220, 12-1-59, Cl. 222-3.
- Jacobson, Sidney. Steam iron shoe. 2,876,565, 3-10-59, Cl. 38-97.
- Jacobson, Wayne D., to Iowa Mfg. Co. of Cedar Rapids, Iowa. Rotary drum sealing means. 2,882,613, 4-21-59, Cl. 34-137.
- Jacobsson, Gösta, to B. Adamson. Coffee preparing apparatus. 2,896,609, 7-28-59, Cl. 126-374.
- Jacobsson, Jacob B., and N. A. Method for the production of pasteurized beverages, and contrivance for utilizing this method. 2,887,391, 5-19-59, Cl. 99-211.
- Jacobsson, Wilgot J., to Union Carbide Corp. Leakage testing apparatus with fluid pressure regulator. 2,908,158, 10-13-59, Cl. 73-46.
- Jacobus, William W.: *See*—
- Broders, Claude O., Jacobus, and Swenson. 2,899,798.
- Jacoby, Aaron. Pleated curtain fabric. 2,908,014, 10-13-59, Cl. 2-278.
- Jacoby, Arnold and P. Embroidered warp-knit tricot fabric. 2,888,815, 6-2-59, Cl. 66-195.
- Jacoby-Bender, Inc.: *See*—
- Hahn, Jerome G. 2,892,541.
- Rodriguez, Emil. 2,896,289.



- Jacoby, Gerald E., and J. W. Rieke, to Bell Telephone Laboratories, Inc. Communication switching network. 2,883,470, 4-21-59, Cl. 179-18.
- Jacoby, Hans G. Smoking article with filtering means. 2,893,399, 7-7-59, Cl. 131-10.
- Jacoby, Marvin, to Sperry Rand Corp. High speed printer. 2,915,966, 12-8-59, Cl. 101-93.
- Jacoby, Philip: *See—*
- Jacoby, Arnold and P. 2,888,815.
- Jacolev, Leon, to The Texas Co. Burner for gas generators. 2,894,569, 7-14-59, Cl. 158-99.
- Jacot-Guillarmod, André: *See—*
- Von Bezdard, André, and Jacot-Guillarmod. 2,879,307.
- Jacox, Paul B.: *See—*
- Scripture, Edward W., Jr., Benedict, and Jacox. 2,868,659.
- Jacquart, Herman, to Jones & Laughlin Steel Corp. Article lifting apparatus. 2,890,906, 6-16-59, Cl. 294-86.
- Jacqueline Modes, Inc.: *See—*
- Cuker, Seymour. 2,901,674.
- Cuker, Seymour. 2,913,631.
- Jacques, George E.: *See—*
- Schunemann, Carl F., and Jacques. 2,884,581.
- Jacuzzi Bros., Inc.: *See—*
- Jacuzzi, Candido. 2,910,995.
- Nash, Floyd M. 2,881,782.
- Jacuzzi, Candido, to Jacuzzi Bros., Inc. Crutch tip. 2,910,995, 11-3-59, Cl. 135-62.
- Jadwin, Robert B.: *See—*
- Horning, James W. 2,919,085.
- Jaeger, Adolf, to Federal Chain Co. Method of forming an ornamental chain. 2,893,200, 7-7-59, Cl. 59-35.
- Jaeger, Adolf, to Federal Chain Co. Link made up of two parts joined by an upsetting operation. 2,893,201, 7-7-59, Cl. 59-80.
- Jaeger, Charles F. Prefabricated house panels and method of assembling them. 2,882,557, 4-21-59, Cl. 20-2.
- Jäger, Erich: *See—*
- Wilkenloh, Wilhelm, Jäger, and Kienapfel. 2,910,281.
- Jaeger, Jacob J., to Pratt & Whitney Co., Inc. Automatic rotary positioning means. 2,876,661, 3-10-59, Cl. 74-821.
- Jaeger Machine Co., The: *See—*
- Apel, John H. 2,880,832.
- Jaeger, Robert P.: *See—*
- Fairbanks, Grant, Everitt, and Jaeger. 2,886,650.
- Jaenke, Martin G., and H. Reischl, to International Standard Electric Corp. Circuit arrangement for intercommunication systems. 2,883,456, 4-21-59, Cl. 179-1.
- Jaesche, Ralph L., to Eaton Mfg. Co. Magnetic powder clutch with residual magnetism shunt. 2,878,913, 3-24-59, Cl. 192-21.5.
- Jaesche, Ralph L., to Eaton Mfg. Co. Magnetic couplings with anti-sintering particles. 2,885,044, 5-5-59, Cl. 192-21.5.
- Jaesche, Ralph L., to Eaton Mfg. Co. Magnetic clutch. 2,896,758, 7-28-59, Cl. 192-21.5.
- Jaesche, Ralph L., to Eaton Mfg. Co. Ignition systems. 2,898,392, 8-4-59, Cl. 123-149.
- Jaesche, Ralph L., to Eaton Mfg. Co. Transmission control system. 2,907,423, 10-6-59, Cl. 192-3.5.
- Jaffe, Albert L. Separation of metals. 2,891,848, 6-23-59, Cl. 41-42.
- Jaffe, Albert L. Recovery of metals. 2,891,881, 6-23-59, Cl. 134-2.
- Jaffe, Benjamin, and M. T. Silverman, to Middletown Milk & Cream Co., Inc. Processing of sour cream. 2,918,371, 12-22-59, Cl. 99-59.
- Jaffe, D. Lawrence, to Polarad Electronic Corp. Microwave power monitor. 2,887,655, 5-19-59, Cl. 324-95.
- Jaffe, David L., to Polarad Electronics Corp. Oscillator using a pencil triode. 2,874,288, 2-17-59, Cl. 250-36.
- Jaffe, David L., to Polarad Electronics Corp. Adjusting and indicating combination. 2,888,653, 5-26-59, Cl. 333-82.
- Jaffe, David L., to Polarad Electronics Corp. Signal generator apparatus. 2,907,962, 10-6-59, Cl. 333-82.
- Jaffe, David L., and R. M. Spiegel, to United States of America, Army. Sweep waveform generator. 2,903,584, 9-8-59, Cl. 250-27.
- Jaffe, David L., and A. Ross, to Polarad Electronics Corp. Multi-pulse spectrum analyzer apparatus. 2,911,564, 11-3-59, Cl. 315-22.
- Jaffe, Emanuel M., and E. S. Galaw, to Duophoto Corp. Photographic printing apparatus. 2,900,889, 8-25-59, Cl. 95-77.5.
- Jaffe, Joseph A.: *See—*
- Lewis, Douglas R., and Jaffe. 2,907,103.
- Jaffe, Myron I. Porous metal filter. 2,915,187, 12-1-59, Cl. 210-446.
- Jaffe, Sigmund, to Air Reduction Co., Inc. Separation of rare earth values by means of a cation exchange resin. 2,897,050, 7-28-59, Cl. 23-22.
- Jaffee, Robert I., to Crucible Steel Co. of America. Titanium-aluminum alloys. 2,880,087, 3-31-59, Cl. 75-175.5.
- Jaffee, Robert I., and H. R. Ogden, to Crucible Steel Co. of America. Titanium base alpha dispersoid alloys. 2,867,534, 1-6-59, Cl. 75-175.5.
- Jaffee, Robert I., and H. R. Ogden, to Crucible Steel Co. of America. Titanium base alloys. 2,880,088, 3-31-59, Cl. 75-175.5.
- Jaffee, Robert I., H. R. Ogden, and D. J. Maykuth, to Crucible Steel Co. of America. Titanium base alloys. 2,892,704, 6-30-59, Cl. 75-175.5.
- Jaffee, Robert I., H. R. Ogden, and M. B. Vordahl, to Crucible Steel Co. of America. Stable, high strength, alpha titanium base alloys. 2,892,705, 6-30-59, Cl. 75-175.5.
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- Jagenberg-Werke Akt.-Ges.: *See—*
- Meyer-Jagenberg, Gunther. 2,888,794.
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- Zerlin, Hans. 2,894,665.
- Jagen-Werke Akt.-Ges.: *See—*
- Zerlin, Hans, and Michaelis. 2,869,440.
- Jagger, Ernest T.: *See—*
- Thompson, Ezra C., and Jagger. 2,885,740.
- Jagger, Hubert, to T. B. Hirschberg, Jr. Checkwriter. 2,878,749, 3-24-59, Cl. 101-20.
- Jagiel Air Boat Co.: *See—*
- Jagiel, Zigmund J. 2,886,462.
- Jagiel, Zigmund J., to Jagiel Air Boat Co. Boat attachment. 2,886,462, 5-12-59, Cl. 115-17.
- Jahill Co.: *See—*
- Wood, Sidney E. 2,868,147.
- Jahn, Earl W., and M. C. Premo, to Production Pattern & Foundry Co. Adhesive depositor for shell mold bonding apparatus. 2,893,078, 7-7-59, Cl. 22-31.
- Jahn, Herbert, F. Reinecke, R. Stabenau, and H. Stahl, to Siemens & Halske Akt. Telegraph transmitter. 2,877,301, 3-10-59, Cl. 178-17.
- Jahnel, Ernst, to A. Schroder. Lifting stage. 2,874,805, 2-24-59, Cl. 187-8.72.
- Jahnig, Charles E.: *See—*
- Barr, Frank T., Burnside, Brown, Jahnig, and Martin. 2,889,267.
- Borey, Daniel S., Jahnig, and Molstedt. 2,889,265.
- Codet, Howard G., Jahnig, and Kaulakis. 2,902,432.
- Martin, Homer Z., and Jahnig. 2,882,206.
- Martin, Homer Z., Jahnig, and Herrmann. 2,868,719.
- Pfeiffer, Robert W., Borey, and Jahnig. 2,881,130.
- Jahnig, Charles E., to Esso Research and Engineering Co. Fluidized molecular sieve process. 2,904,507, 9-15-59, Cl. 208-310.
- Jahnig, Charles E., J. W. Brown, and H. Z. Martin, to Esso Research and Engineering Co. Process and apparatus for conversion of hydrocarbon oils. 2,868,715, 1-13-59, Cl. 208-55.
- Jahnig, Charles E., and H. G. Codet, to Esso Research and Engineering Co. Combination process for conversion of heavy hydrocarbons. 2,905,617, 9-22-59, Cl. 208-55.
- Jahnig, Charles E., and D. D. Dunlop, to Esso Research and Engineering Co. Prevention of disperse phase coking in fluid coking apparatus. 2,916,438, 12-8-59, Cl. 208-127.
- Jahnke, David H., to Koebel Diamond Tool Co. Core bit drilling tool. 2,870,993, 1-27-59, Cl. 253-47.
- Jahns, Edward R., to Hoffman Electronics Corp. Mechanical apparatus for displaying electrical phenomena or the like. 2,918,894, 12-29-59, Cl. 116-124.1.
- Jahr, Marvin A. Push peg puzzle. 2,905,474, 9-22-59, Cl. 273-153.
- Jaidinger, John H. Electromagnetic relay. 2,884,574, 4-28-59, Cl. 317-198.
- Jakes, William C., Jr., to Bell Telephone Laboratories, Inc. Microwave passive repeaters. 2,880,310, 3-31-59, Cl. 250-15.
- Jakeway, Gerald V., to Keeler Brass Co. Hood emblem assembly. 2,889,649, 6-9-59, Cl. 41-10.
- Jaklitsch, Franz. Torque transmitting device. 2,885,870, 5-12-59, Cl. 64-11.
- Jakob, Franz: *See—*
- Biedermann, Friedrich, Jakob, and Rau. 2,878,779.
- Jakob, Fritz: *See—*
- Wucherer, Johannes, Linde, and Jakob. 2,895,304.
- Jakober, William: *See—*
- Lefebvre, Albert. 2,867,020.
- Jakubowski, Richard S., to Jarke Mfg. Co. Lifting hitch. 2,905,501, 9-22-59, Cl. 294-18.
- Jakubowski, Theodore P., to Shulton, Inc. Dispensing container. 2,917,765, 12-22-59, Cl. 15-137.
- Jakush, Harry. Window construction. 2,908,052, 10-13-59, Cl. 20-42.
- Jalar, Borje F., and F. G. Nordstrom, to Astra Pharmaceutical Products, Inc. Aspirating syringe. 2,904,044, 9-15-59, Cl. 128-218.1.
- Jalkanen, Matti J. Apparatus for removing pulp from a treatment vessel. 2,884,146, 4-28-59, Cl. 214-17.
- Jalkanen, Matti J. Scraper means. 2,901,763, 9-1-59, Cl. 15-246.5.
- Jalkanen, Matti J., to Rauma-Repoli Oy. Method for chemical treatment of suspended solids. 2,916,346, 12-8-59, Cl. 8-156.
- James, Albert L.: *See—*
- Smith, Donald P., Rollin, and James. 2,906,646.
- James, Bill Y. Leg structure for gift boxes. 2,899,165, 8-11-59, Cl. 248-189.
- James, Clarence R.: *See—*
- Moore, Harry D., James, and Kibbey. 2,877,673.
- James, Cyril H., to United Shoe Machinery Corp. Method and apparatus for cutting double ended nails from wire stock. 2,903,720, 9-15-59, Cl. 10-54.



- James, David M., to Beanstalk Shelving Ltd. Multi-tiered rack units. 2,901,121, 8-25-59, Cl. 211-126.
- James, Edward W., to Sun Oil Co. Method and apparatus for magnetic recording in a bore hole. 2,879,126, 3-24-59, Cl. 346-74.
- James, Edward W., to Sun Oil Co. Gyroscope. 2,909,931, 10-27-59, Cl. 74-5.6.
- James, Edward W.,  $\frac{1}{2}$  to T. J. Reardon. Identification system. 2,914,746, 11-24-59, Cl. 340-149.
- James, Flem G. Card stripping device. 2,880,469, 4-7-59, Cl. 19-109.
- James, Glynne Y.: See—  
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- James, Henry A.,  $\frac{1}{2}$  to J. M. Blanton. Toy. 2,868,137, 1-13-59, Cl. 104-73.
- James, Ivanhoe J. P., to Electric & Musical Industries Ltd. Colour television apparatus. 2,870,249, 1-20-59, Cl. 178-5.4.
- James, Ivanhoe J. P., to Electric & Musical Industries Ltd. Light correcting apparatus for electron pick-up tubes. 2,905,757, 9-22-59, Cl. 178-7.2.
- James, Jimmie: See—  
Herder, Elmer A., and James. 2,916,083.
- James, Kenneth E., to United Concrete Pipe Corp. Mold for the end of concrete pipe and the like. 2,871,541, 2-3-59, Cl. 25-127.
- James, Kenneth E., to United Concrete Pipe Corp. Gasket for bell and spigot concrete pipe. 2,882,073, 4-14-59, Cl. 285-374.
- James, Louise. Knock-down set-up boxes. 2,899,120, 8-11-59, Cl. 229-23.
- James Mfg. Co.: See—  
Jones, George W. 2,907,445.
- Potter, Leon M., and Willett. 2,878,925.
- James-Pond-Clark: See—  
Clark, James R., Jr., and Christensen. 2,918,083.
- James, Ralph A.: See—  
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- James, Ralph A., and S. G. Thompson, to United States of America, Atomic Energy Commission. Method of recovering plutonium values from aqueous solutions by carrier precipitation. 2,911,282, 11-3-59, Cl. 23-14.5.
- James, Richard T., and A. E. Ruppel; said James assor. to American Telephone and Telegraph Co., said Ruppel assor. to Bell Telephone Laboratories, Inc. Digital system with error elimination. 2,892,883, 6-30-59, Cl. 178-23.
- James, Robert C., to Griswold Engineering Ltd. Vacuum sealing machine. 2,888,792, 6-2-59, Cl. 53-112.
- James, Robert E.: See—  
Schey, Robert, and James. 2,873,692.
- James, Thomas R.: See—  
Bergsland, Charles H., James, Karinen, Kwasniewski, and Neumeier. 2,893,009.
- James, Virgil C.: See—  
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- James, Wilbert. Apparatus for forming plaques. 2,909,805, 10-27-59, Cl. 18-5.1.
- James, Wilbert. Apparatus for making hand and foot impressions. 2,915,782, 12-8-59, Cl. 18-5.1.
- James, William S.: See—  
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- Jamesbury Corp.: See—  
Freeman, Howard G., and Vandreuil. 2,912,217.
- Jamgotchian, George H. Wrench. 2,895,362, 7-21-59, Cl. 81-90.
- Jamieson, Allan: See—  
Miller, Carl P., and Jamieson. 2,869,418.
- Jamieson, Hamer H.: See—  
Schwartz, Ralph E. 2,889,390.
- Jamieson, Hugh V. Apparatus for processing motion picture film. 2,914,999, 12-1-59, Cl. 93-94.
- Jamieson, Hugh W., to United States of America, Navy. Impedance matching feeder for an antenna array. 2,903,695, 9-8-59, Cl. 343-852.
- Jamieson, Philip D.: See—  
Zanni, Guido R., Tortolani, and Jamieson. 2,909,030.
- Jamieson, Robert S., to Ultradyne, Inc. Variable-reluctance position transducer. 2,883,633, 4-21-59, Cl. 336-30.
- Jamieson, Walter B.: See—  
Caron, Maurice, and Etheridge. 2,877,130.
- Jamieson, William: See—  
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- Jamison, Carmel R.: See—  
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- Jamison, Frederick W. Detachable ice and snow melting panels for traffic bearing surfaces. 2,912,555, 11-10-59, Cl. 219-19.
- Jamison, Reeves G., 50% to J. D. Wells. Loom attachment. 2,912,014, 11-10-59, Cl. 139-98.
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- Jampol Co., Inc., The: See—  
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- Janas, Bronislaus. Rotating pick-up unit. 2,913,002, 11-17-59, Cl. 137-580.
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- Jancosek, Andrew T., and J. S. Brown, to Standard Oil Co. Insecticidal compositions. 2,906,744, 9-29-59, Cl. 260-96.5.
- Jandasek, Vladimir J., to Ford Motor Co. Hydrokinetic torque converter with adjustable reactor blades. 2,909,034, 10-20-59, Cl. 60-54.
- Janecka, Joseph J., Jr. Collapsible display device. 2,902,239, 9-1-59, Cl. 248-197.
- Janeczko, William A. Removable sectional cover for freight car. 2,893,329, 7-7-59, Cl. 105-377.
- Janeczko, William A. Top loading boxcar. 2,899,912, 8-18-59, Cl. 105-377.
- Janelid, Erik I., to Trelleborgs Gummifabriks Aktiebolag. Resilient and bonded drum lining. 2,909,335, 10-20-59, Cl. 241-183.
- Janelid, Erik I., and K. G. Olsson. Method of driving rock excavations. 2,896,929, 7-28-59, Cl. 262-1.
- Janes, Harry P. Three-way ball valve. 2,905,197, 9-22-59, Cl. 137-625.47.
- Janes, John N.: See—  
Hartman, Edward J., and Janes. 2,873,698.
- James, Joseph. Centrifugal switch. 2,880,287, 3-31-59, Cl. 200-80.
- James, Joseph, to Bowling Machines, Inc. Bowling machines elevator for separating pins and balls. 2,917,309, 12-15-59, Cl. 273-43.
- Janeseck, Louis F.: See—  
Burt, Howard J., and Janeseck. 2,893,594.
- Janeway, Robert N. Railway truck thrust link. 2,917,007, 12-15-59, Cl. 105-200.
- Jang, Monroe: See—  
Deranja, John E., and Jang. 2,908,430.
- Janja, Zbigniew J., to Ford Motor Co. Pressure regulator valve assembly. 2,895,298, 7-21-59, Cl. 60-97.
- Janik, Anton J., to The Ridge Tool Co. Quick acting chuck. 2,891,799, 6-23-59, Cl. 279-114.
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- Jankens, Austin L., to The Dow Chemical Co. Vinylidene chloride polymer-trisodium aconitate composition. 2,888,415, 5-26-59, Cl. 260-2.5.
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- Jankowski, Edward M., to Sioux Steel Co. Animal watering tank. 2,869,753, 1-20-59, Cl. 220-73.
- Jankowski, Henry J., to Foster Wheeler Corp. Tube support means. 2,884,911, 5-5-59, Cl. 122-510.
- Jankowski, Henry J., to Foster Wheeler Corp. Closure means. 2,909,132, 10-20-59, Cl. 110-1.
- Janneck, Willard H.: See—  
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- Janonis, George. Vehicle door latch. 2,918,320, 12-22-59, Cl. 292-280.
- Janos, Alfred G., to General Electric Co. Refrigerator door construction. 2,914,819, 12-1-59, Cl. 20-69.
- Janoski, Edward J.: See—  
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- Janoski, Edward J., to Sun Oil Co. Catalyst and hydrocarbon conversion therewith. 2,887,449, 5-19-59, Cl. 208-120.
- Janoski, Edward J., to Sun Oil Co. Process for catalyst preparation. 2,895,920, 7-21-59, Cl. 252-452.
- Janousek, Ladik L. Snow disintegrator. 2,893,377, 7-7-59, Cl. 126-343.5.
- Janquart, Jerry C., and A. M. Samuels, to The Dole Valve Co. Detergent dispenser with constant hydrostatic head. 2,919,052, 12-29-59, Cl. 222-64.
- Jansa, Bohuslav: See—  
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- Jansen, Gerhart. Clamp nut apparatus. 2,896,496, 7-28-59, Cl. 85-36.
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- Jansen, Jan C.: *See*—  
Van Erven Dorens, Eduard C., and Jansen. 2,911,672.
- Jansen, Marinus J.: *See*—  
Lemmens, Hendrikus J., Jansen, and Haayman. 2,867,742.
- Jansen, Willem J. B. Machine for winding spiral springs. 2,871,910, 2-3-59, Cl. 153-64.
- Janson, Harry. One piece hinged case. 2,873,058, 2-10-59, Cl. 229-27.
- Janson, Stefan K., to Olin Mathieson Chemical Corp. Sprocket type feeding for a gas piston gun. 2,889,749, 6-9-59, Cl. 89-33.
- Janson, Stefan K., to Olin Mathieson Chemical Corp. Strip clip for loading box magazines. 2,894,350, 7-14-59, Cl. 42-87.
- Janson, Stefan K., R. H. Wild, and H. E. Elliott, to Olin Mathieson Chemical Corp. Firearms carrier mechanism. 2,887,808, 5-26-59, Cl. 42-17.
- Janssen, Henricus J. H., H. S. Jongepier, and H. Waning, to Kunstzijdespinnerij Nyma N. V. Process and device for dry spinning. 2,876,494, 3-10-59, Cl. 18-8.
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Groot, Theodor C., Janssen, Stephenson, and Blackler. 2,907,619.
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- Janssen, Paul A. J. 2,2-diaryl- $\omega$ -(4'-phenyl-1'-piperidino) alkanonitriles. 2,898,340, 8-4-59, Cl. 260-294.3.
- Janssen, Paul A. J., and D. K. de Jongh, to N. V. Nederlandsche Combinatie Voor Chemische Industrie. Antispasmodic preparation containing alpha-p-methoxyphenyl-alpha-di-n-butylamino-acetamide and method of producing anti-spasmodic activity. 2,877,156, 3-10-59, Cl. 167-65.
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- Janssen, Peter J. H.: *See*—  
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- Janssen, Peter J. H., to North American Philips Co., Inc. Circuit arrangement for use in television receivers. 2,870,251, 1-20-59, Cl. 178-7.5.
- Janssen, Peter J. H., to North American Philips Co., Inc. Frequency demodulator. 2,873,365, 2-10-59, Cl. 250-27.
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- Janssen, Peter J. H., to North American Philips Co., Inc. Deflecting coil system for cathode ray tubes. 2,917,646, 12-15-59, Cl. 313-76.
- Janssen, Peter J. H., and J. A. Verhoef, to North American Philips Co., Inc. Electromagnetic deflection system. 2,882,446, 4-14-59, Cl. 315-27.
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- Janssen, Peter J. H., and W. Smeulers, to North American Philips Co., Inc. Frequency demodulator. 2,904,675, 9-15-59, Cl. 250-20.
- Janssen, Peter J. H., and W. Smeulers, to North American Philips Co., Inc. Circuit-arrangement for measuring voltages. 2,907,880, 10-6-59, Cl. 250-27.
- Jansson, Ake B. Adjustable work piece holder. 2,898,713, 8-11-59, Cl. 51-217.
- Jansson, Arnold O., to United-Carr Fastener Corp. Fastener. 2,904,864, 9-22-59, Cl. 24-73.
- Jansson, Henry A.: *See*—  
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- Janszen, Arthur A., to F. D. Wetherill. Electrostatic loudspeaker. 2,896,025, 7-21-59, Cl. 179-111.
- Jantsch, Albert F., to National Gypsum Co. Suspension ceiling. 2,877,878, 3-17-59, Cl. 189-88.
- Jantscha, Robert, and J. Kolling, to The Babcock & Wilcox Co. Once-through vapor generator. 2,872,908, 2-10-59, Cl. 122-459.
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Smith, Samuel H. 2,869,552.
- Janus, Alexander G., to Consumers Merchandising Corp. Matchbox construction. 2,889,919, 6-9-59, Cl. 206-29.
- Janus, Julian A. Combined oil depth gauge and filter. 2,919,028, 12-29-59, Cl. 210-223.
- Janzso, Geza: *See*—  
Fodor, Gabor, Vincze, Toth, Janzso, and Lang. 2,905,687.
- Japel, Joseph P., to Cleveland Metal Specialties Co. Method of making components for printed circuits. 2,912,312, 11-10-59, Cl. 41-43.
- Japolsky, Nicholas S., to Nicotron Developments Ltd. Rotary pumps. 2,898,864, 8-11-59, Cl. 103-149.
- Jaquith, Burton K. Means for extracting true proportionate samples of fluid material. 2,917,926, 12-22-59, Cl. 73-422.
- Jaramillo, Jorge V.: *See*—  
Lyle, James E., and Jaramillo. 2,906,352.
- Jardine, John, Ltd.: *See*—  
Haslam-Jones, Frank H. 2,896,497.
- Jarke Mfg. Co.: *See*—  
Jakubowski, Richard S. 2,905,501.
- Jarman-Williamson Co.: *See*—  
Williamson, Norman B. 2,879,831.  
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- Jarmus, Joseph M., D. Kaufman, and F. R. Marchetti, to National Lead Co. Pigmented synthetic material and a method for making the same. 2,868,663, 1-13-59, Cl. 106-193.
- Jaroco Engineering Co.: *See*—  
Govan, Roy H., and Meek. 2,875,871.  
Goven, Roy H., and Meek. 2,888,029.  
Govan, Roy H., and Meek. 2,918,085.  
Meek, Harold J. 2,914,082.
- Jaromy, John A. Drive extension for outboard motors with rotary speed control. 2,903,903, 9-15-59, Cl. 74-471.
- Jaros, Stanley E.: *See*—  
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- Jaroske, George A.: *See*—  
Lewis, Gerald E. 2,893,424.
- Jarret, Jacques: *See*—  
Jarret, Jean and J. 2,906,525.
- Jarret, Jacques H.: *See*—  
Jarret, Jean M. B. and J. M. B. 2,867,043.
- Jarret, Jacques H. and J. M. B. Floating piston motors. 2,914,046, 11-24-59, Cl. 123-46.
- Jarret, Jean and J. Deformable hydrostatic system. 2,906,525, 9-29-59, Cl. 267-2.
- Jarret, Jean M. B.: *See*—  
Jarret, Jacques H. and J. M. B. 2,914,046.
- Jarret, Jean M. B. and J. H., to "Les Applications Electroniques des Caoutchoucs" (A. E. C.). Variable electric resistance semi-conductor devices. 2,867,043, 1-6-59, Cl. 33-172.
- Jarrett, John W., and E. L. Rice, to United States of America, Navy. Rotary locking device. 2,917,942, 12-22-59, Cl. 74-504.
- Jarrett, Rainsford & Loughton Ltd.: *See*—  
Curry, Francis J. 2,919,019.
- Jarrett, William C.: *See*—  
Vaughan, Wayne W., Spotts, Candrea, and Jarrett. 2,904,991.
- Jarrett, William J., to United States of America, Army. Noise reducer for gun. 2,868,078, 1-13-59, Cl. 89-14.
- Jarrian, Paul: *See*—  
Danel, Pierre F., Casacii, and Jarrian. 2,875,979.
- Järund, Harry S. V., to Hermorian Ltd. Device for continuous filling of packages with a liquid during their manufacture. 2,869,299, 1-20-59, Cl. 53-63.
- Järund, Harry S. V. Apparatus for automatically packing tetrahedron-shaped packages. 2,908,125, 10-13-59, Cl. 53-142.
- Jaruzelski, John J.: *See*—  
Christenson, Roger M., and Jaruzelski. 2,874,150.
- Jaruzelski, John J., to Pittsburgh Plate Glass Co. Esters of di-hydroxy alkyl substituted xylene. 2,881,150, 4-7-59, Cl. 260-45.4.
- Jaruzelski, John J., to Pittsburgh Plate Glass Co. Synthetic resin from dihaloalkyl xylene and polyalkylene polyamines. 2,912,390, 11-10-59, Cl. 260-2.1.
- Jarvi, Carl W., to Haskell Mfg. Co., Inc. Drawer lock. 2,882,112, 4-14-59, Cl. 312-221.
- Jarvinen, Willard B., to General Electric Co. Control system for induction motor. 2,890,398, 6-9-59, Cl. 318-225.
- Jarvis, Alvin J., and J. W. Straayer, to Boeing Airplane Co. Composite aircraft. 2,883,125, 4-21-59, Cl. 244-2.
- Jarvis, Edgar A., to M. Sobel. Method of refining scrap plastic and apparatus therefor. 2,879,005, 3-24-59, Cl. 241-14.
- Jarvis, Edward M., to Standard Pressed Steel Co. Metal shelving. 2,896,794, 7-28-59, Cl. 211-136.
- Jarvis, Franklin T., to Raytheon Mfg. Co. Electron discharge tube mounting. 2,888,228, 5-26-59, Cl. 248-316.
- Jarvis, Harold, Jr.: *See*—  
Clarke, William W., Stevens, Bauer, Jarvis, and Heller. 2,912,186.



- Jarvis, James G., to Eastman Kodak Co. Electroprinting from a raised resist pattern. 2,869,461, 1-20-59, Cl. 101-426.
- Jarvis, James G., to Grasslander (1957) Ltd. Forage crop harvesting chopper. 2,885,853, 5-12-59, Cl. 56-1.
- Jarvis & Jarvis, Inc.: *See—*  
Kostolecki, John F., and Muto. 2,905,275.
- Jarvis, John, to Bendix Aviation Corp. Aircraft control system. 2,875,964, 3-3-59, Cl. 244-77.
- Jarvis, John, to Bendix Aviation Corp. Control system. 2,883,126, 4-21-59, Cl. 244-77.
- Jarvis, John H., and D. R. Swan; said Jarvis assor. to said Swan. Metal working machine. 2,917,957, 12-22-59, Cl. 82-20.
- Jarvis Mfg., Inc.: *See—*  
Keightley, George M. 2,867,932.
- Jaseph, Lawrence F., to Dover Corp. Hydraulic safety elevator. 2,891,635, 6-23-59, Cl. 187-17.
- Jasienski, Marcel M. P., to Compagnie Française Othermo. Circular loom. 2,869,586, 1-20-59, Cl. 139-13.
- Jasinski, Kazimierz V.: *See—*  
Goldberg, Albert I., and Jasinski. 2,910,448.
- Jaskowiak, Frank T.: *See—*  
Koth, William P., and Jaskowiak. 2,915,991.
- Jaskowiak, Frank T., to A. O. Smith Corp. Rod tightener. 2,873,694, 2-17-59, Cl. 105-369.
- Jasper, Benjamin E.: *See—*  
Busch, Thomas N., and D. W. and B. E. Jasper. 2,876,816.
- Jasper, David W.: *See—*  
Busch, Thomas N., and D. W. and B. E. Jasper. 2,876,816.
- Jasper Wood Crafters, Inc.: *See—*  
Gramelspacher, Clarence U. 2,894,292.
- Jastram, Edward P.: *See—*  
Vander Pyl, John R., Jastram, McMorro, and Shockroo. 2,870,294.
- Jatzak, Chester F., to The Timken Roller Bearing Co. Case carburized high temperature bearing members. 2,876,152, 3-3-59, Cl. 148-31.
- Jatzak, Chester F., to The Timken Roller Bearing Co. Air hardening graphitic steel. 2,883,281, 4-21-59, Cl. 75-123.
- Jatlow, Jacob L.: *See—*  
Polyzou, James, and Jatlow. 2,913,711.
- Jauch, Martin, to Detex Watchclock Corp. Recording clock. 2,889,190, 6-2-59, Cl. 346-58.
- Jauch, Martin, and H. Kregelin, to Roto-Werke Akt. Inking devices for printing machines. 2,890,652, 6-16-59, Cl. 101-122.
- Jauch, Robert J., C. W. Kruckeberg, and C. D. Hoover, to Tokheim Corp. Incinerator toilet. 2,882,534, 4-21-59, Cl. 4-131.
- Jaume, Rene. Filter unit and filters equipped therewith. 2,883,058, 4-21-59, Cl. 210-487.
- Jauolsies of Ohio, Co., Inc.: *See—*  
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- Javor, George. Safety brake construction. 2,912,071, 11-10-59, Cl. 188-152.
- Jawett, Joseph A., to Petrometer Corp. Liquid level gauge. 2,884,784, 5-5-59, Cl. 73-299.
- Jawett, Joseph A., to Petrometer Corp. Specific gravity indicators. 2,898,763, 8-11-59, Cl. 73-439.
- Jaworski, Ernest G., and D. B. Sharp, to Monsanto Chemical Co. Fungicidal compositions comprising the monophenylhydrazones of  $\alpha$ -diketones,  $\alpha$ -ketoaldehydes, and  $\alpha$ -hydroxyketones. 2,870,056, 1-20-59, Cl. 167-30.
- Jaworski, Ernest G., and V. R. Gaertner, to Monsanto Chemical Co. Method of inhibiting fungus growth comprising the application of the reaction product of a mono-olefinic aldehyde and aromatic hydrazine. 2,900,298, 8-18-59, Cl. 167-30.
- Jaxheimer, Don C., S. W. Cahill, and L. E. Simon, to Hycon Mfg. Co. Purge system for water activated battery. 2,884,945, 5-5-59, Cl. 137-206.
- Jay, George. Detachable trailer hitch. 2,877,025, 3-10-59, Cl. 280-495.
- Jayet, David L. Fluidtight casing for view-taking cameras. 2,883,919, 4-28-59, Cl. 95-11.
- Jayet, David L. Device for supplying a diver with air. 2,898,909, 8-11-59, Cl. 128-142.
- Jaynes, George W.: *See—*  
Breeden, Pearl L. 2,912,938.
- Jazwinski, Stanislaw T., to Nova-Cast Inc. Method for producing ferrous metal castings. 2,894,834, 7-14-59, Cl. 75-130.
- Jean, Gilbert. Tables for the concentration of ores. 2,907,459, 10-6-59, Cl. 209-504.
- Jean, Marcel, to Societe Chimique de La Grande Paroisse. Azote et Produits Chimiques. Apparatus for equalizing the temperature inside exothermic reaction chambers. 2,910,350, 10-27-59, Cl. 23-289.
- Jeandupeux, Hubert. Method of and apparatus for inserting pile tufts into a fabric. 2,873,766, 2-17-59, Cl. 139-1.
- Jeanes, Jack K.: *See—*  
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- Jeanne, Edmond. Pneumatic installation for conveying greasy wool. 2,901,293, 8-25-59, Cl. 302-20.
- Jeanneret, Jules L. Arrangement for supporting a work piece on the back center of a machine-tool. 2,874,600, 2-24-59, Cl. 82-31.
- Jeanneret, Jules L. Automatic thread-cutting arrangement for a lathe. 2,882,776, 4-21-59, Cl. 82-5.
- Jeannette Glass Co., The: *See—*  
Todd, Burt K. 2,918,188.
- Jeanrenaud, Alfred: *See—*  
Gschwend, Charles-Louis. 2,899,227.
- Jeansonne, Robert L.: *See—*  
Adams, Earl W., and Jeansonne. 2,885,261.
- Jeckell, Albert J. Building stud brace. 2,889,595, 6-9-59, Cl. 20-94.
- Jeddeloh, Otto G. Sheet loading mechanism for multideck conveyor. 2,876,009, 3-3-59, Cl. 271-64.
- Jedlitschka, Rudolf: *See—*  
Magg, Alfred H., Jedlitschka, Schrode, and Schmah. 2,906,138.
- Jedrzewski, Chester M., to United Aircraft Corp. Propeller auxiliary power control. 2,868,303, 1-13-59, Cl. 170-160.2.
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- Jedrzkowski, Edmund, to International Harvester Co. Crop treating device. 2,908,994, 10-20-59, Cl. 43-148.
- Jefferies, Lowell C.: *See—*  
Beck, Eugene P., Jefferies, and Whitney. 2,887,283.
- Jefferson Chemical Co., Inc.: *See—*  
Bell, John B., Jr., and Currier. 2,915,550.  
Bell, John B., Jr., Currier, and Malkemus. 2,915,529.  
Malkemus, John D. 2,910,490.  
McClellan, Paul P. 2,873,282.  
Moss, Philip H. 2,905,673.
- Jefferson Electronic Products Corp.: *See—*  
McWilliams, James D. 2,875,717.
- Jefferson, Glen V., to Westinghouse Air Brake Co. Vehicle weighing means. 2,906,865, 9-29-59, Cl. 246-251.
- Jefferson Medical College of Philadelphia, The: *See—*  
Haupt, George J. 2,904,034.
- Jefferson, Orville E. Plastic sponge hot holder. 2,884,644, 5-5-59, Cl. 2-158.
- Jefferson, Orville E. Nose heater. 2,906,264, 9-29-59, Cl. 128-192.
- Jefferson, Robert O., and L. Trinkle, to Deluxe Coils, Inc. Centrifugal casting apparatus particularly for plastic tubing. 2,904,836, 9-22-59, Cl. 18-26.
- Jefferson Lake Sulphur Co.: *See—*  
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- Jeffery, Harold, to Clayton Dewandre Co. Ltd. Power-operated steering mechanism for road vehicles. 2,916,015, 12-8-59, Cl. 121-38.
- Jeffery, Norman H., to Rolls-Royce Ltd. Method of forming articles from silicone elastomers and polytetrafluoroethylene. 2,898,631, 8-11-59, Cl. 18-47.5.
- Jefferys, Edward G.: *See—*  
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- Jeffrey Mfg. Co., The: *See—*  
Edmunds, Glenn E. 2,891,683.  
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Kindig, Arnie J. 2,868,567.  
Kindig, Arnie J. 2,869,712.  
Lemmon, Alexis W. 2,869,380.  
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Smith, William J. 2,883,053.  
Steinmetz, Walter C. 2,873,848.
- Jeffrey, William B.: *See—*  
Cotter, George L., and Jeffrey. 2,919,165.  
Hewitt, Ellis E., Bush, and Jeffrey. Re. 24,636.  
McClure, Glenn T., and Jeffrey. 2,919,163.
- Jeffrey, William B., to Westinghouse Air Brake Co. Improved service, charging and quick service control valve. 2,913,282, 11-17-59, Cl. 303-35.
- Jeffreys, George A. Simultaneous aerobic and anaerobic composting process. 2,867,521, 1-6-59, Cl. 71-8.
- Jeffreys, Robert F., Jr. Flow restrictor. 2,909,196, 10-20-59, Cl. 138-44.
- Jeffreys, Roy A., to Eastman Kodak Co. The hardening of gelatin with 2,3 dihydroxy dioxane. 2,870,013, 1-20-59, Cl. 96-100.
- Jeffreys, Roy A., and E. B. Knott, to Eastman Kodak Co. Process for manufacture of oxazole quaternary salts. 2,895,950, 7-21-59, Cl. 260-307.
- Jeffries, Sampson F.: *See—*  
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- Jeger, Oscar: *See—*  
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- Jeglum, Norman L.: *See—*  
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- Jehle, Felix A.: *See—*  
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- Jeitner, Franz, to Siemens-Planawerke Akt. fur Kohlefabrikate. Method of producing shaped sintered hard material bodies. 2,883,297, 4-21-59, Cl. 106-65.
- Jelatis, Demetrius G., and F. G. Chesley, to Central Research Laboratories, Inc. Lateral rotation device. 2,888,154, 5-26-59, Cl. 214-1.
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- Jelinek, Charles, Jr.: *See—*  
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- Jelinek, Lawrence. Apparatus for forming joggles. 2,886,092, 5-12-59, Cl. 153-25.
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- Hartford, Willis G., Holt, and Jellinek. 2,896,196.
- Jellinek, George: See—
- Lewis, Irving R., Jr., and Jellinek. 2,913,018.
- Jellinek, Maurice H.: See—
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- Jellison, Charles: See—
- Eckels, Thomas C., and Jellison. 2,904,280.
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- Jellyman, Philip E., G. A. Dickinson, and H. F. Macintosh, to Pilkington Brothers Ltd. Method of treating a glass insulator. 2,895,260, 7-21-59, Cl. 49-89.
- Jemison, Volney M., and D. H. Young, to Thunderbird Engineering Co. Fluid pump. 2,896,459, 7-28-59, Cl. 74-60.
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- House, Ronald R., and Jen. 2,872,313.
- Ritson, Daniel D., and Jen. 2,918,438.
- Suen, Tzeng J., and Jen. 2,900,367.
- Wilson, Lucius H., and Jen. 2,901,391.
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- Eden, Carsten. 2,877,280.
- Geffcken, Walter, and Schroeder. 2,868,076.
- Sack, Werner. 2,908,591.
- Jencks, Harold S., and R. C. Twomey, to Douglas Aircraft Co., Inc. Mounting for electronic components. 2,871,457, 1-27-59, Cl. 339-75.
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- Jendrzynski, Hillard J., to General Motors Corp. Chemical plating bath and process. 2,876,116, 3-3-59, Cl. 106-1.
- Jenison, Garold C., to National Steel Corp. Method of oiling tinplate and product. 2,884,338, 4-28-59, Cl. 117-68.
- Jenkel, Edward M., to Appleton Wire Works Corp. Detection element for the supervision of a loom. 2,884,017, 4-28-59, Cl. 139-350.
- Jenkins, Albert S., to Owens-Illinois Glass Co. Method for bonding liner materials. 2,899,349, 8-11-59, Cl. 154-138.
- Jenkins, Albert S., to Owens-Illinois Glass Co. Closure-liner assembling machine. 2,912,042, 11-10-59, Cl. 154-15.
- Jenkins, Arthur P.: See—
- Harrison, Geoffrey B., and Jenkins. 2,905,051.
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- Woolslayer, Homer J., Iddings, Jenkins, and Campbell. 2,903,102.
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- Jenkins, Dale G.: See—
- Jenkins, Radford G. and D. G. 2,871,935.
- Jenkins, Edwin E.: See—
- Cramer, Robert H., and Jenkins. 2,898,306.
- Jenkins, Ellen B.: See—
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- Jenkins, Eric G. Smoker's pipe tobacco ash remover. 2,886,044, 5-12-59, Cl. 131-246.
- Jenkins, Fred W.: See—
- Monson, Louis T., and Jenkins. 2,914,484.
- Jenkins, George C.: See—
- Cornwell, John J. 2,912,889.
- Cranford, James W. 2,918,834.
- Jenkins, Gerald S.: See—
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- Wilkinson, Cyril F., Jenkins, Lake, and Radcliffe. 2,875,111.
- Jenkins, James J.: See—
- Greer, Edward M., Jenkins, and Barth. 2,910,031.
- Jenkins, John C., to Gregory Industries, Inc. Welding stud. 2,883,215, 4-21-59, Cl. 287-20.2.
- Jenkins, Jules E. Vibration measuring and recording apparatus. 2,917,918, 12-22-59, Cl. 73-71.1.
- Jenkins, Leslie H., and D. S. Sears, to Virginia-Carolina Chemical Corp. Preparation of isocyanates. 2,873,171, 2-10-59, Cl. 23-75.
- Jenkins, Lloyd T.: See—
- Campbell, Charles H., and Jenkins. 2,878,228.
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- Holmes, Richard R., and Jenkins. 2,878,203.
- Holmes, Richard R., and Jenkins. 2,878,205.
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- Holmes, Richard R., and Jenkins. 2,878,208.
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- Holmes, Richard R., and Jenkins. 2,878,212.
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- Holmes, Richard R., and Jenkins. 2,878,220.
- Jenkins, Lloyd T., to The Chemstrand Corp. Acrylonitrile polymer composition stabilized with the zinc reduction product of methylol sulfonic acid and method of making same. 2,878,202, 3-17-59, Cl. 260-30.4.
- Jenkins, Lloyd T., to The Chemstrand Corp. Acrylonitrile polymer composition stabilized with metal formaldehyde sulfoxylate and methylol sulfonic acid and method of making same. 2,878,226, 3-17-59, Cl. 260-32.6.
- Jenkins, Lloyd T., and R. R. Holmes, to The Chemstrand Corp. Acrylonitrile polymer composition stabilized with metal formaldehyde sulfoxylate, ethylenediamine tetra-acetic acid and sodium salts thereof, and an inorganic acid, and method of making same. 2,878,204, 3-17-59, Cl. 260-32.6.
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- Jenkins, Lloyd T., and R. R. Holmes, to The Chemstrand Corp. Acrylonitrile polymer composition stabilized with formaldehyde, zinc diethylidithiophosphate, and an inorganic acid and method of making same. 2,878,213, 3-17-59, Cl. 260-32.6.
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- Jenkins, Philip A., and A. L. J. Raum, to The Distillers Co. Ltd. Polymerisation process. 2,916,479, 12-8-59, Cl. 260-94.9.
- Jenkins, Radford G. and D. G. Panel construction. 2,871,935, 2-3-59, Cl. 160-199.
- Jenkins, Reginald T., to Bell Telephone Laboratories, Inc. Signaling system. 2,889,550, 6-2-59, Cl. 340-400.
- Jenkins, Richard H.: See—
- De Phillips, Paul. 2,907,593.
- Jenkins, Richard L., to General Motors Corp. Oscillator starting circuit. 2,896,146, 7-21-59, Cl. 321-2.
- Jenkins, Sidney: See—
- Kreinick, Horace C., and Jenkins. 2,885,852.
- Jenker, Herbert, to Kali-Chemie Akt. Preparation of tri-organosilanes. 2,897,220, 7-28-59, Cl. 260-448.



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Watson, Lloyd M., and Jenks. 2,908,556.
- Jenks, George N. Electrolytic water purification process. 2,882,210, 4-14-59, Cl. 204-151.
- Jenks, Joan M. Child proof cabinet lock. 2,899,229, 8-11-59, Cl. 292-288.
- Jenks, Loren H., to Jersey Production Research Co. Recovering oil after secondary recovery. 2,885,002, 5-5-59, Cl. 166-9.
- Jenne, Frank, Jr.: *See*—  
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- Jenne, Kenneth C., to Malleable Iron Fittings Co. Hook connector device. 2,874,439, 2-24-59, Cl. 24-279.
- Jenne, Kenneth C., to Malleable Iron Fittings Co. Washer gain for timber structures formed of round wood poles. 2,888,722, 6-2-59, Cl. 20-92.
- Jenne, Kenneth C., to Malleable Iron Fittings Co. Guy hook for attachment to transmission line poles, or the like. 2,901,798, 9-1-59, Cl. 24-115.
- Jenner, Edward L., and R. V. Lindsey, Jr., to E. I. du Pont de Nemours and Co. Preparation of esters from olefins, carbon monoxide and alcohols with a catalyst comprising an alcohol-soluble salt of a noble metal of group VIII and an alcohol-soluble salt of tin or germanium. 2,876,254, 3-3-59, Cl. 260-486.
- Jenness, James R., Jr.: *See*—  
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- Jenney, Alan M., to Kearfott Co., Inc. Servo-motor potentiometer drive clutch and braking mechanism. 2,906,983, 9-29-59, Cl. 338-116.
- Jenney, Asa, to Clark Equipment Co. Inching valve control. 2,917,143, 12-15-59, Cl. 192-13.
- Jenney, Ray S.: *See*—  
Raymer, Morris M., Sr., and Jenney. 2,888,155.
- Jennings, Charles E., Jr. Universal hitch for spreader boxes and the like. 2,910,307, 10-27-59, Cl. 280-460.
- Jennings, Clyde S.: *See*—  
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- Jennings, Earl R.: *See*—  
Vincent, Renic P., and Jennings. 2,884,861.
- Jennings, Garland B., and C. E. Parks, to The B. F. Goodrich Co. Heat and light stable rigid thermoplastic polyvinyl halide compositions. 2,902,460, 9-1-59, Cl. 260-41.
- Jennings, George P.: *See*—  
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- Jennings, Gresham N.: *See*—  
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- Jennings, Gresham N., to General Electric Co. Rotation sensing device. 2,883,564, 4-21-59, Cl. 307-121.
- Jennings, Gresham N., to General Electric Co. Material dispensing system for combination clothes washing and drying machines. 2,887,862, 5-26-59, Cl. 68-12.
- Jennings, Gresham N., to General Electric Co. Time mechanism for conducting a selected one of a plurality of sequences of operations. 2,896,707, 7-28-59, Cl. 161-1.
- Jennings, Gresham N., to General Electric Co. Control mechanism for providing a selected one of a plurality of sequences of operations. 2,912,532, 11-10-59, Cl. 200-38.
- Jennings, Harley Y., to Sherman Paper Products Corp. Method and apparatus for coating paper with an aqueous dispersion of latex. 2,883,303, 4-21-59, Cl. 117-111.
- Jennings, Harold H.: *See*—  
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- Jennings, Harold H., to Philco Corp. Washing machine transmission. 2,887,887, 5-26-59, Cl. 74-77.
- Jennings, Harry C., Jr.: *See*—  
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- Jennings, Harry C., Jr., to Everest & Jennings, Inc. Hydraulic pump. 2,909,123, 10-20-59, Cl. 103-40.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Gaseous surge protector. 2,882,433, 4-14-59, Cl. 313-185.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum variable condenser. 2,883,593, 4-21-59, Cl. 317-245.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum variable feed-through capacitor. 2,899,612, 8-11-59, Cl. 317-245.
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- Jennings, Jo E., to Jennings Radio Mfg. Corp. Three-phase vacuum switch. 2,906,841, 9-29-59, Cl. 200-144.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum relay. 2,912,539, 11-10-59, Cl. 200-87.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum relay. 2,912,541, 11-10-59, Cl. 200-98.
- Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum adjustable voltage divider. 2,912,628, 11-10-59, Cl. 317-245.
- Jennings, Jo E., and T. N. Tilman, to Jennings Radio Mfg. Corp. Coaxial switch. 2,917,596, 12-15-59, Cl. 200-82.
- Jennings, Joseph F.: *See*—  
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- Jennings, Joseph T. R., deceased (M. G. Jennings, administrator), and J. A. Janke, to J. A. Janke. Farm implement carrier. 2,875,911, 3-3-59, Cl. 214-394.
- Jennings, Leland B. Delivery spout. 2,904,231, 9-15-59, Cl. 222-523.
- Jennings Machine Corp.: *See*—  
Distler, Edward C. 2,907,858.  
Distler, Edward C. 2,911,681.
- Jennings, Mildred G.: *See*—  
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- Jennings Radio Mfg. Corp.: *See*—  
Hawkins, Jean. 2,912,543.  
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Jennings, Jo E. 2,906,841.  
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Steward, Lewis B., and Hawkins. 2,886,671.  
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- Jennings, Russell D. Automobile tray or writing desk. 2,867,484, 1-6-59, Cl. 311-21.
- Jennings, Sheldon V., and S. C. Smith, to Chemetron Corp. Electronic arc-suppressor. 2,868,940, 1-13-59, Cl. 219-10,77.
- Jennings, William A., to Economy Forms Corp. Form unit. 2,870,516, 1-27-59, Cl. 25-131.
- Jennings, William A., to Economy Forms Corp. Structural beam holding clamp unit. 2,876,813, 3-10-59, Cl. 144-291.
- Jenny, Albert C., to American Bosch Arma Corp. Hydraulic starting system for engines. 2,886,947, 5-19-59, Cl. 60-51.
- Jenny, Alfred L.: *See*—  
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- Jenny, Dietrich A., to Radio Corp. of America. Method and apparatus for making semi-conductor devices. 2,913,642, 11-17-59, Cl. 317-235.
- Jenny, Dietrich A., and E. E. Loebner, to Radio Corp. of America. Light inverters. 2,883,556, 4-21-59, Cl. 250-213.
- Jenny, Dietrich A., and R. V. Jensen, to Radio Corp. of America. Method for single crystal growth. 2,902,350, 9-1-59, Cl. 23-301.
- Jenny, Hans K., to United States of America, Navy. Magnetron tuning cavity and waveguide coupler. 2,910,620, 10-27-59, Cl. 315-39.
- Jenny, Raymond K.: *See*—  
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- Jenny, Walter: *See*—  
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- Jenny, Walter, to Ciba Ltd. Benzothiazolyl-2-amino-1,4-dihydroxy anthraquinone. 2,899,438, 8-11-59, Cl. 260-303.
- Jenny, Walter, to Ciba Ltd. Process for dyeing polyethylene terephthalate. 2,918,344, 12-22-59, Cl. 8-39.
- Jensch, Wolfgang, to Dynamit-Actien-Gesellschaft vormals Alfred Nobel & Co. Process for the production of polyvinylbutyral foils. 2,909,810, 10-27-59, Cl. 18-57.
- Jensen, Alan K., to Monroe Calculating Machine Co. Bistable transistor circuit. 2,870,347, 1-20-59, Cl. 307-88.5.
- Jensen, Alan K., to Bell Telephone Laboratories, Inc. Transistor control circuits. 2,909,678, 10-20-59, Cl. 307-88.5.
- Jensen, Birger J.: *See*—  
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- Jensen, Arnold E., and S. W. Peterson, to Modine Mfg. Co. Heat exchange core. 2,883,165, 4-21-59, Cl. 257-255.
- Jensen, Arthur S.: *See*—  
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- Jensen, Elvind H., to B. J. Jensen. Valve grinding apparatus. 2,908,120, 10-13-59, Cl. 51-241.
- Jensen, Elmer R.: *See*—  
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- Jensen, Emil B. Tire rasp. 2,896,309, 7-28-59, Cl. 29-79.
- Jensen, Erik G. Tray assembly. 2,873,861, 2-17-59, Cl. 211-126.
- Jensen, Finn: *See*—  
Sweger, Theodore J., and Jensen. 2,903,305.
- Jensen, Frank A. Device for mooring boats. 2,912,954, 11-17-59, Cl. 114-230.
- Jensen, Garold K., and J. E. McGeogh, to United States of America, Navy. Decade frequency generator. 2,868,973, 1-13-59, Cl. 250-36.
- Jensen, Garold K., and J. E. McGeogh, to United States of America, Navy. Variable reactance tube circuit. 2,868,979, 1-13-59, Cl. 250-36.
- Jensen, Garold K., and J. E. McGeogh, to United States of America, Navy. Electrical frequency selective circuit. 2,908,868, 10-13-59, Cl. 331-26.
- Jensen, Hans, to Gits Bros. Mfg. Co. Shaft seal. 2,889,159, 6-2-59, Cl. 286-11.14.
- Jensen, Hans, to North American Philips Co., Inc. Binocular optical system. 2,898,799, 8-11-59, Cl. 88-1.
- Jensen, Jack H.: *See*—  
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Rust, David J., and Jensen. 2,918,706.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Voltage and current regulation. Re. 24,671, 7-21-59, Cl. 323-22.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,881,332, 4-7-59, Cl. 307-88.5.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Transistor control apparatus. 2,898,476, 8-4-59, Cl. 307-88.5.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,906,896, 9-29-59, Cl. 307-106.
- Jensen, James L., to Minneapolis-Honeywell Regulator Co. Plural phase oscillator. 2,917,714, 12-15-59, Cl. 331-45.



- Jensen, Leo E. J. Centrifugal separator. 2,883,102, 4-21-59, Cl. 233-20.
- Jensen, Lionel R.: *See*—  
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- Jensen, Louis, to Kelco Engineering Ltd. Article depository. 2,869,780, 1-20-59, Cl. 232-44.
- Jensen, Meivin J., to Hydrahone Equipment Co. Continuous automatic dipping tank. 2,878,821, 3-24-59, Cl. 134-126.
- Jensen, Milton: *See*—  
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- Jensen, Otto: *See*—  
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- Jensen, Otto, to I-T-E Circuit Breaker Co. Explosive type short circuiter. 2,888,538, 5-26-59, Cl. 200-142.
- Jensen, Otto, to I-T-E Circuit Breaker Co. Contact air cooling system. 2,916,568, 12-8-59, Cl. 200-19.
- Jensen, Philip B., to Scovill Mfg. Co. Front closure brasieres. 2,912,984, 11-17-59, Cl. 128-470.
- Jensen, Raymond W.: *See*—  
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- Jensen, Raymond W., to The Garrett Corp. Modulating and shutoff valve. 2,884,003, 4-28-59, Cl. 137-495.
- Jensen, Raymond W., to The Garrett Corp. Altitude responsive pneumatic actuator. 2,884,905, 5-5-59, Cl. 121-41.
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- Jensen, Robert V., to Radio Corp. of America. Method of preparing semi-conductor alloys. 2,898,299, 8-4-59, Cl. 148-1.6.
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- Jenson, Jens B. Skirt hanger. 2,898,024, 8-4-59, Cl. 223-91.
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- Jentges, Thomas W., to Marco Industries Co. Indicator cap assembly. 2,890,538, 6-16-59, Cl. 40-130.
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- Jeremiah, Earl, to United Can & Glass Co. Apparatus for handling cans. 2,874,856, 2-24-59, Cl. 214-16.
- Jeremias, Bruno R., to Poor & Co. Protective metal coating compositions and method of coating. 2,902,394, 9-1-59, Cl. 148-6.21.
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Farrington, William B. 2,897,717.  
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Moore, Armistead M. 2,895,016.  
Muench, Nils L. 2,911,535.  
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Orr, Willis P. 2,902,095.  
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 Jessee, Ralph D., to Westinghouse Electric Corp. Relay. 2,871,422, 1-27-59, Cl. 37—189.  
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- Jessup, John M., to Sperry Rand Corp. Quick erecting means for gyro verticals. 2,880,618, 4-7-59, Cl. 74—547.  
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- Jeter, Billy J. Therapeutic device. 2,910,977, 11-3-59, Cl. 128—33.
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- Jewell, Howard W. Pipe coupling including elastomeric covered clamping means. 2,893,760, 7-7-59, Cl. 285—369.
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- Jewell, Richard. Detachable nestable three-piece music stand. 2,873,552, 2-17-59, Cl. 45—121.
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- Jewell Tea Co. Inc.: *See*—  
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- Jewett, Philip D., to Transistron Electronic Corp. Machine for cutting germanium silicon quartz and other hard materials. 2,917,873, 12-22-59, Cl. 51—92.
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- Jeynes, Graham F.: *See*—  
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- Jezi, James L.: *See*—  
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- Jezi, James L., to Sun Oil Co. Refining mineral oil materials. 2,868,835, 1-13-59, Cl. 260—514.
- Jezi, James L., to Sun Oil Co. Manufacture of polyolefins. 2,880,199, 3-31-59, Cl. 260—93.7.
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- Jiu, James, to G. D. Searle & Co. 10-hydroxyestra-1,4-diene-3,17-dione and acetate. 2,910,486, 10-27-59, Cl. 260—397.4.
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- Jobbins, Charles W.: *See*—  
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- Jochems, Pieter J. W., to North American Philips Co., Inc. Supply circuit transistor current control for electric loads. 2,897,429, 7-28-59, Cl. 323—4.
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- Jockers, Harry W., to Palico Inc. Liquid applicator having nozzle contained brush assembly. 2,908,926, 10-20-59, Cl. 15—139.
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- Jodell, Georg E., to Aktiebolaget Elektrolux. Method of forming foamed plastic objects. 2,907,072, 10-6-59, Cl. 18—48.



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- Joerren, Ernest A.: *See*—  
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- Joerren, Ernest A., and R. E. Scott, to Specialties Development Corp. Explosion suppression system. 2,868,300, 1-13-59, Cl. 169-4.
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- Johannesen, Conrad A., to Eriez Mfg. Co. Magnetic pipe line trap. 2,915,186, 12-1-59, Cl. 210-223.
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- Johannessen, John D., P. B. Myers, and J. E. Schwenker, to Bell Telephone Laboratories, Inc. Switching circuit. 2,899,570, 8-11-59, Cl. 307-88.5.
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- Johanningmeier, Charles E. Match book. 2,884,121, 4-28-59, Cl. 206-29.
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- Johanson, Bengt J., to Cinch Mfg. Corp. Jack connector for printed wiring. 2,869,090, 1-13-59, Cl. 339-17.
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- Johansson, Folke K. E.: *See*—  
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- Johmann, Frank T. Protraction-retraction mechanism for writing instruments. 2,905,146, 9-22-59, Cl. 120-42.03.
- Johmann, Frank T. Protraction-retraction mechanism for writing instruments. 2,905,147, 9-22-59, Cl. 120-42.03.
- John, Russell W., to Allis-Chalmers Mfg. Co. Fluid flow measuring gauge. 2,872,815, 2-10-59, Cl. 73-401.
- Johnese, James W.: *See*—  
Fedorchak, William J., Early, and Johnese. 2,868,061.
- Johns, Daryl D. Bucking bronco amusement device. 2,884,247, 4-28-59, Cl. 272-57.
- Johns, Donald H.: *See*—  
Poltorak, Emil J., and Johns. 2,882,082.
- Johns, Iral B.: *See*—  
Spedding, Frank H., Butler, and Johns. 2,877,109.
- Johns, Iral B., to Monsanto Chemical Co. Electrolytic process for producing metallic titanium. 2,893,935, 7-7-59, Cl. 204-64.
- Johns, La Moine E., to Conmar Products Corp. Slide fasteners. 2,903,775, 9-15-59, Cl. 24-205.16.
- Johns-Manville Corp.: *See*—  
Ayers, Osborn, and Homiak. 2,873,480.  
Barnett, Irvin. 2,897,548.  
Barnett, Irvin. 2,913,802.  
Clarvoe, George W. 2,889,922.  
Dubecky, Petro. 2,879,555.  
French, Clayton V., and Ihne. 2,886,484.  
MacPherson, Donald R. 2,892,727.  
Modigliani, Piero. 2,913,037.  
Palumbo, Henry J., and Axelsson. 2,882,083.  
Parkinson, John S., and Jack. 2,916,261.  
Poltorak, Emil J. 2,902,305.  
Poltorak, Emil J., and Johns. 2,882,082.  
Powell, Edward R. 2,884,659.  
Ramm, Joseph L. 2,892,750.  
Russum, Gaillard R. 2,901,227.  
Sarett, Lewis H., and Johns. 2,893,999.  
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Sarett, Lewis H., Poos, and Johns. 2,894,002.  
Siering, Robert L. 2,886,859.
- Johns-Nigrelli-Johns: *See*—  
Nigrelli, Biagio J., Standley, and Artiaga. 2,890,560.
- Johns, Ralph W.: *See*—  
Nigrelli, Biagio J., Standley, and Artiaga. 2,890,560.  
Nigrelli, Biagio J., Standley, and Wittmann. 2,890,785.
- Johns, Richard J.: *See*—  
Brown, Elwyn S., Cooper, Elam, and Johns. 2,887,105.
- Johns, Robert R.: *See*—  
Nigrelli, Biagio J., Standley, and Artiaga. 2,890,560.  
Nigrelli, Biagio J., Standley, and Wittmann. 2,890,785.
- Johns, William F.: *See*—  
Sarett, Lewis H., and Johns. 2,891,967.  
Sarett, Lewis H., and Johns. 2,909,519.
- Johns, William F., to G. D. Searle & Co. Dehydrodigonone intermediates. 2,875,201, 2-24-59, Cl. 260-239.55.
- Johns, William F., and G. P. Mueller, to G. D. Searle & Co. 16-halo 17-oxygenated androst-5-en-3-ols and esters. 2,911,418, 11-3-59, Cl. 260-397.4.
- Johns, William H., and A. A. Perry, to United States Steel Corp. Apparatus for applying lubricant to wire. 2,872,027, 2-3-59, Cl. 205-19.
- Johnson, Al, and F. W. Gauger, to Al Johnson, d. b. a. Valley Pattern & Mfg. Co. Carton locking mechanism. 2,873,655, 2-17-59, Cl. 93-51.
- Johnson, Albert E., and T. D. Conway. Electrical recording and reproducing apparatus. 2,892,040, 6-23-59, Cl. 179-100.2.
- Johnson, Alexander J., to R. H. Pierce Mfg. Co. Valve which closes against internal pressure. 2,881,788, 4-14-59, Cl. 137-321.
- Johnson, Alf B. Operator for slide fasteners. 2,882,577, 4-21-59, Cl. 24-205.15.
- Johnson, Alfred C., to E. B. Plywood Machines. Log loader for veneer lathes. 2,912,024, 11-10-59, Cl. 144-209.
- Johnson, Alfred R.: *See*—  
Doggett, Roger H., and Johnson. 2,886,455.
- Johnson, Allan M. Arm rest. 2,910,259, 10-27-59, Cl. 248-118.
- Johnson, Alsin K., to Delavan Mfg. Co. Rotary disk valve having a reinforced O-ring seal. 2,908,293, 10-13-59, Cl. 137-625.46.
- Johnson, Andrew L. Apparatus for production of tubular studs and the like. 2,881,726, 4-14-59, Cl. 113-1.
- Johnson, Andy A.: *See*—  
Stareck, Jesse E., Seyb, Johnson, and Rowan. 2,916,424.
- Johnson, Archie G., to Haas & Haynie. Support for wall-board. 2,907,199, 10-6-59, Cl. 72-46.
- Johnson, Armigene R. Unitary garment. 2,875,445, 3-3-59, Cl. 2-71.
- Johnson, Armigene R. Garment and cuff therefor. 2,876,456, 3-10-59, Cl. 2-269.
- Johnson, Arthur F., to Olin Mathieson Chemical Corp. Heat exchanger. 2,915,296, 12-1-59, Cl. 257-262.22.
- Johnson, Arthur J., to Columbia-Southern Chemical Corp. Chemical process. 2,876,074, 3-3-59, Cl. 23-202.
- Johnson, Arthur K.: *See*—  
Meyer, Robert H., and Johnson. 2,889,204.
- Johnson, Arthur S., to Brown & Sharpe Mfg. Co. Gear pump unit. 2,887,065, 5-19-59, Cl. 103-126.
- Johnson, August E.: *See*—  
Kinsey, Douglas D., Johnson, and Ashby. 2,910,704.
- Johnson, Axel E. F., to American Hospital Supply Corp. Hanger support. 2,870,917, 1-27-59, Cl. 211-105.1.
- Johnson, Axel E. F., to American Hospital Supply Corp. Collapsible stand. 2,901,123, 8-25-59, Cl. 211-142.
- Johnson, Axel E. F., to American Hospital Supply Corp. Hamper. 2,914,281, 11-24-59, Cl. 248-98.
- Johnson, Axel E. F., and K. G. C. Sayke, to American Hospital Supply Corp. Standard support structure. 2,918,243, 12-22-59, Cl. 248-194.
- Johnson, Axel R.: *See*—  
Giusti, Gino P., and Johnson. 2,870,001.
- Johnson, Axel R., to Texas Gulf Sulphur Co. Method of fluidization. 2,870,002, 1-20-59, Cl. 75-9.
- Johnson, Bayard S.: *See*—  
Dunbar, Alver, Hausmann, and Johnson. 2,907,681.
- Johnson Biscuit Co.: *See*—  
Watson, Nathan J. 2,876,887.
- Johnson, Bobby J., and K. M. Dispensing rack for hair wave rods. 2,904,187, 9-15-59, Cl. 211-49.



- Johnson, Carl E.: *See*—  
 Bates, James E., Johnson, and Tritten. 2,913,338.  
 Bollenback, Carol H., and Johnson. 2,875,210.  
 Esmay, Donald L., and Johnson. 2,873,290.
- Johnson, Carl E., to National Aluminate Corp. 1,2-substituted imidazolium salt and treatment of cellulosic fibrous materials therewith. 2,874,074, 2-17-59, Cl. 117-139.5.
- Johnson, Carl E., to National Aluminate Corp. Inhibition of foaming in steam generation. 2,875,156, 2-24-59, Cl. 252-321.
- Johnson, Carl E., and W. H. Thompson, to National Aluminate Corp. Process of inhibiting deposition of organic substances in heat exchangers and the like operating at elevated temperatures. 2,908,624, 10-13-59, Cl. 208-48.
- Johnson, Carl E., Jr., to California Research Corp. Oil well treating method. 2,874,779, 2-24-59, Cl. 166-42.
- Johnson, Carl H.: *See*—  
 Granberg, Bengt R., Johnson, and Anderson. 2,913,945.
- Johnson, Carl N., to Johnson & Son Machine Corp. Multiple tag stringing machine. 2,878,729, 3-24-59, Cl. 93-91.
- Johnson, Carl O., to Durox International S.A. Method for cutting up plastic and semi-plastic masses. 2,881,503, 4-14-59, Cl. 25-155.
- Johnson, Carl W., to American Machine & Foundry Co. Sewing machine looper mechanism. 2,900,939, 8-25-59, Cl. 112-171.
- Johnson, Carlton A.: *See*—  
 Reinke, Alfred G., and Johnson. 2,884,269.
- Johnson, Charles B., to Rockwell Mfg. Co. Plug valve with disassembly prevention means. 2,898,081, 8-4-59, Cl. 251-309.
- Johnson, Charles D.: *See*—  
 Sublett, Ira, and Johnson. 2,911,734.
- Johnson, Charles F., to McEvoy Co. Pipe anchor. 2,887,754, 5-26-59, Cl. 24-263.5.
- Johnson, Charles G., and C. A. Lee, to Kimberly-Clark Corp. Paper making machine. 2,881,674, 4-14-59, Cl. 92-44.
- Johnson, Charles H.: *See*—  
 Paxton, Allen D., Smith, and Johnson. 2,883,914.
- Johnson, Charles J.: *See*—  
 Brown, John H., and Johnson. 2,872,712.
- Johnson, Charles R., and M. E. Swanson, to E. I. du Pont de Nemours and Co. Blasting initiator. 2,878,752, 3-24-59, Cl. 102-28.
- Johnson, Charles T., Water ski tow device. 2,872,889, 2-10-59, Cl. 114-235.
- Johnson, Chester A. Electronic window. 2,888,069, 5-26-59, Cl. 160-11.
- Johnson, Chester F. Anchor bolt with spring biased reaming plates. 2,877,818, 3-17-59, Cl. 151-41.73.
- Johnson, Chester F. Under-reamer. 2,879,038, 3-24-59, Cl. 255-76.
- Johnson, Christ L. Radiator fin repair tool. 2,895,358, 7-21-59, Cl. 81-15.
- Johnson, Christopher L., F. W. W. Morley, and D. O. Davies, to Rolls-Royce Ltd. Devices sensitive to the ratio between fluid pressures. 2,886,968, 5-19-59, Cl. 73-213.
- Johnson, Clarence: *See*—  
 Eschenburg, William A., Pettigrew, and Johnson. 2,873,630.
- Johnson, Clarence. Pilot operated four-way valve. 2,912,007, 11-10-59, Cl. 137-622.
- Johnson, Clarence A., and S. C. Schuman, to Hydrocarbon Research, Inc. Contact carrier for hydrocarbon conversion. 2,913,396, 11-17-59, Cl. 208-107.
- Johnson, Clarence L., to Lockheed Aircraft Corp. Turbine engine blow-out preventer. 2,870,684, 1-27-59, Cl. 89-133.
- Johnson, Clifford V.: *See*—  
 Salm, Arthur, and Johnson. 2,896,290.
- Johnson, Colin L. Christmas tree light holder. 2,885,755, 5-12-59, Cl. 24-81.
- Johnson Corp., The: *See*—  
 Hieronymus, John W. 2,911,234.
- Johnson, Curtiss S., Jr. Turn buckle. 2,913,267, 11-17-59, Cl. 287-60.
- Johnson, Darrell M. Safety device. 2,876,829, 3-10-59, Cl. 155-189.
- Johnson, Darrell M. Multi-purpose structure. 2,877,879, 3-17-59, Cl. 189-88.
- Johnson, Darrell M. Rack for cards or sheets. 2,878,605, 3-24-59, Cl. 40-124.
- Johnson, David R.: *See*—  
 Falkenberg, Charles W., and Johnson. 2,891,873.
- Johnson, David W., to The Arrow-Hart & Hegeman Electric Co. Wire terminal connection. 2,916,722, 12-8-59, Cl. 339-210.
- Johnson, Dean T., A. W. Albertine, S. Lippert, and W. F. Sheetz, to Douglas Aircraft Co., Inc. Adhesive insulation clip. 2,893,068, 7-7-59, Cl. 20-4.
- Johnson, Donald C.: *See*—  
 Videen, Otis R., and Johnson. 2,912,349.
- Johnson, Donald E.: *See*—  
 Broadhead, Samuel L., Jr., and Ashley. 2,886,787.
- Johnson, Donald L.: *See*—  
 Stewart, Karl J., and Johnson. 2,916,836.
- Johnson, Donald L. Method and means for cutting a flat surface on wood by producing wood flakes from the material as removed. 2,889,859, 6-9-59, Cl. 144-176.
- Johnson, Donald L., to Rayonier Inc. High pressure processing apparatus. 2,890,484, 6-16-59, Cl. 18-6.
- Johnson, Donald L., to Rayonier Inc. Training mechanism for belt systems. 2,914,957, 12-1-59, Cl. 74-241.
- Johnson, Dorothy J.: *See*—  
 Sease, Lura A., and Johnson. 2,882,114.  
 Sease, Lura A., and Johnson. 2,888,306.
- Johnson, Duke A.: *See*—  
 Miller, Elvas A., and Johnson. 2,900,171.
- Johnson, E. F., Co.: *See*—  
 Pichitino, Albert M. 2,898,590.
- Johnson, Earl A. N.: *See*—  
 Meiler, John G., and Johnson. 2,907,071.
- Johnson, Earl G. Logging sled. 2,880,893, 4-7-59, Cl. 214-85.
- Johnson, Ed, 1/2 to E. G. Johnson. Overhead sprinkler apparatus. 2,879,945, 3-31-59, Cl. 239-185.
- Johnson, Edgar J., and M. W. Green, to Radio Corp. of America. Flammable vapor detector. 2,902,682, 9-1-59, Cl. 340-237.
- Johnson, Edmund C. Variable speed drive. 2,897,682, 8-4-59, Cl. 74-230.17.
- Johnson, Edward F.: *See*—  
 Draper, Arthur L., and Johnson. 2,897,894.
- Johnson, Edward G., to Globe Industries, Inc. Auto pilot servosystem. 2,895,098, 7-14-59, Cl. 318-489.
- Johnson, Edward O., to Radio Corp. of America. Stabilized pulse forming circuit including a gas tube. 2,877,386, 3-10-59, Cl. 315-237.
- Johnson, Edward O., to Union Carbide Corp. Method of and apparatus for producing a tightly packaged food product. 2,884,328, 4-28-59, Cl. 99-171.
- Johnson, Edward S. Air and liquid pressure spray gun for cleaning diesel engines and the like. 2,893,645, 7-7-59, Cl. 239-288.
- Johnson, Einar C.: *See*—  
 Vantine, Harry, Jr., and Johnson. 2,894,258.
- Johnson, Eldon A., to ACF Industries, Inc. Fuel pump. 2,876,707, 3-10-59, Cl. 103-150.
- Johnson, Eldon A., to ACF Industries, Inc. Mechanical fuel pump. 2,905,097, 9-22-59, Cl. 103-150.
- Johnson, Eleanor de H.: *See*—  
 Johnson, Ervin G. 2,883,220.
- Johnson, Elizabeth G.: *See*—  
 Johnson, Ed. 2,879,945.
- Johnson, Elmer C.: *See*—  
 Bookout, Floyd V., Craven, and Johnson. 2,888,165.
- Johnson, Elmer C., to The Vendo Co. Multi-drink locking gate protection device. 2,898,001, 8-4-59, Cl. 221-125.
- Johnson, Elmer C., to The Vendo Co. Vendor driving mechanism. 2,900,214, 8-18-59, Cl. 312-97.
- Johnson, Elmer S.: *See*—  
 Dailey, Marvel C., and Johnson. 2,913,308.  
 Nies, Brainard W., and Johnson. 2,907,668.
- Johnson, Elmer S., to United States Gypsum Co. Process of calcining gypsum. 2,907,667, 10-6-59, Cl. 106-111.
- Johnson, Emanuel J., Jr.: *See*—  
 Johnson, Frances H. and E. J. Jr. 2,912,735.
- Johnson, Eric C.: *See*—  
 Morris, Thomas C., and Johnson. 2,894,925.
- Johnson, Eric C., and R. D. Clarke, to B. B. Chemical Co. Heat softenable adhesive supply bodies. 2,912,398, 11-10-59, Cl. 260-23.
- Johnson, Ernest L., to United States of America, Air Force. Heat actuated closure for containers. 2,881,944, 4-14-59, Cl. 220-88.
- Johnson, Ernest W.: *See*—  
 Durbin, Vernon, and Johnson. 2,874,960.  
 Durbin, Vernon, and Johnson. 2,888,520.
- Johnson, Ernest W., to Metal & Thermit Corp. Organo tin compounds and compositions containing same. 2,891,922, 6-23-59, Cl. 260-318.
- Johnson, Ernest W., to National Pneumatic Co., Inc. Eddy current brake. 2,913,605, 11-17-59, Cl. 310-93.
- Johnson, Ervin G., to E. de H. Johnson. Electrical connectors. 2,883,220, 4-21-59, Cl. 287-78.
- Johnson, Eugene C. Stakes for log bunks. 2,893,330, 7-7-59, Cl. 105-382.
- Johnson Fare Box Co.: *See*—  
 Rogier, Clarence F., Kulo, and Singer. 2,918,766.
- Johnson, Forrest A., to Double J Breaker Co. Soil breaker. 2,894,590, 7-14-59, Cl. 172-194.
- Johnson, Frances H. and E. J. Jr., to Tldv-Pin Co., Inc. Diaper fastener. 2,912,735, 11-17-59, Cl. 24-87.
- Johnson, Francis M., to United States of America, Air Force. Jettisonable air stair door. 2,910,255, 10-27-59, Cl. 244-129.
- Johnson, Francis M., and V. W. Greenhough, to Rolls-Royce Ltd. Starters for prime movers. 2,872,782, 2-10-59, Cl. 60-39.14.
- Johnson, Frank F., to Schlumberger Well Surveying Corp. Well logging method and apparatus. 2,882,417, 4-14-59, Cl. 250-83.6.
- Johnson, Franklyn H., deceased: R. F. Johnson, executrix. Wheel chair shock absorber. 2,895,742, 7-21-59, Cl. 280-124.
- Johnson, Fred I. Grouping conveyor mechanism. 2,883,942, 4-28-59, Cl. 104-172.
- Johnson, Fred L. Lettering stamp guide. 2,887,780, 5-26-59, Cl. 33-184.6.
- Johnson, Fritz. Safety chain claw. 2,878,640, 3-24-59, Cl. 59-93.
- Johnson Gage Development Co., The: *See*—  
 Johnson, Paul W. 2,872,739.  
 Johnson, Stanley G. 2,878,577.
- Johnson, George C.: *See*—  
 Hullisz, William W., and Johnson. 2,891,359.



- Johnson, George F.: See—  
Anderson, John, Johnson, and Hall. 2,900,419.
- Johnson, George F., C. D. Marshall, and R. H. Criswell, to Shell Development Co. Recovery of compound 1,2,3,4,7,7-hexachloro-bicyclo-(2,2,1)-heptadiene-2,5 from hexachloro-cyclopentadiene-acetylene reaction products. 2,900,366, 8-18-59, Cl. 260—648.
- Johnson, Gerald A. Electric pencil sharpener. 2,900,958, 8-25-59, Cl. 120—96.
- Johnson, Glenn D.: See—  
Hahn, Robert S., and Johnson. 2,881,568.
- Johnson, Glenn D., to Joy Mfg. Co. Well head control. Re. 24,609, 2-24-59, Cl. 166—88.
- Johnson, Gordon B.: See—  
Carlston, Earl F., and Johnson. 2,904,533.
- Johnson, Gordon C., and M. H. Jellinek, to Union Carbide Corp. Method of curing silicone water repellents with cyclopentadienyl transition element catalyst and aqueous compositions of same. 2,868,751, 1-13-59, Cl. 260—29.2.
- Johnson, Gordon, Co.: See—  
Zebarth, Ralph S. 2,905,966.  
Zebarth, Ralph S. 2,908,033.
- Johnson, Gordon, Equipment Co.: See—  
Zebarth, Ralph S. 2,876,488.  
Zebarth, Ralph S. 2,882,550.  
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Zebarth, Ralph S. 2,891,276.
- Johnson, Gordon W.: See—  
Huss, Steven J., Wesslund, and Johnson. 2,889,541.  
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- Johnson, Graham H., to McGraw-Edison Co. Discharge gap. 2,881,346, 4-7-59, Cl. 313—231.
- Johnson, Gustave W., to Mitchell Camera Corp. Motion picture camera finder and footage indicator. 2,889,738, 6-9-59, Cl. 88—16.
- Johnson, Harold I. Camera trigger and lens turret interlock. 2,890,618, 6-16-59, Cl. 88—16.
- Johnson, Harold R., and D. R. Lammers, to Caterpillar Tractor Co. Hinge connections for tractor tracks. 2,882,103, 4-14-59, Cl. 305—10.
- Johnson, Harry D. Locking assembly for sprockets, sheaves and gears. 2,890,071, 6-9-59, Cl. 287—52.06.
- Johnson, Harry N., and C. G. Baehr, to The Greist Mfg. Co. Buttonhole attachment for sewing machines. 2,890,668, 6-16-59, Cl. 112—77.
- Johnson, Harry V., to Union Carbide Corp. Electrode joint. 2,894,776, 7-14-59, Cl. 287—127.
- Johnson-Hartmann: See—  
Johnson, Julius G., and Hartmann. 2,883,747.
- Johnson, Harvey A. Paint roller spinning and clearing device. 2,881,533, 4-14-59, Cl. 34—58.
- Johnson, Henry. Hammer head attachment for wrecking bars. 2,890,018, 6-9-59, Cl. 254—26.
- Johnson, Henry V.: See—  
Bogert, William M., and Johnson. 2,915,694.
- Johnson, Herbert, and G. F. C. Burke, to United Shoe Machinery Corp. Apparatus for applying stripes of thermoplastic cements to flat blanks. 2,868,161, 1-13-59, Cl. 118—202.
- Johnson, Herbert G. Rod extrusion press. 2,902,714, 9-8-59, Cl. 18—12.
- Johnson, Herbert H.: See—  
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- Johnson, Herbert L.: See—  
Reif, Henry E., and Johnson. 2,908,633.
- Johnson, Herbert L., H. E. Reif, and A. Schneider, to Sun Oil Co. Hydrotreating of petroleum. 2,914,470, 11-24-59, Cl. 208—264.
- Johnson, Herbert V.: See—  
Rogers, Robert A., Johnson, and Rowell. 2,907,949.
- Johnson, Horace A., to Borg-Warner Corp. Wall scratcher. 2,918,974, 12-29-59, Cl. 166—173.
- Johnson, Horace R., to Hughes Aircraft Co. Backward-wave oscillator. 2,899,594, 8-11-59, Cl. 315—3.5.
- Johnson, Horace R., to Hughes Aircraft Co. Wide band mixing system. 2,899,596, 8-11-59, Cl. 315—3.6.
- Johnson, Howard A., to Walter & Johnson. Prefabricated building panels. 2,908,048, 10-13-59, Cl. 20—2.
- Johnson, Howard R. Speaker assembly. 2,903,084, 9-8-59, Cl. 181—31.
- Johnson, Howard R. Outboard motor air intake. 2,914,133, 11-24-59, Cl. 181—53.
- Johnson, Ivan B., to Smiths America Corp. Liquid level indicating devices. 2,908,166, 10-13-59, Cl. 73—304.
- Johnson, Jacob R.: See—  
Rochester, Nathaniel, Johnson, Amdahl, and Mutter. 2,889,535.
- Johnson, James B., to W. B. Marvin Mfg. Co. Support bracket. 2,892,605, 6-30-59, Cl. 248—215.
- Johnson, James F. Thermoelectric servomotor. 2,879,641, 3-31-59, Cl. 60—23.
- Johnson, James F., to Sinclair Oil & Gas Co. Seismic surveying method. 2,894,245, 7-7-59, Cl. 340—15.
- Johnson, James H.: See—  
Parsons, Edgar S., Johnson, and de Gozzaldi. 2,915,090.
- Johnson, James R.: See—  
Struxness, Edward G., Johnson, Morgan, and McVay. 2,918,717.
- Johnson, James R. Roll moving means for rotary printing apparatus. 2,893,310, 7-7-59, Cl. 101—182.
- Johnson, James R., and A. J. Taylor, to United States of America, Atomic Energy Commission. Method for preparation of UO particles. 2,905,528, 9-22-59, Cl. 23—14.5.
- Johnson, Jess: See—  
Waldo, Gaylord H. 2,885,089.
- Johnson, Joel R.: See—  
Haagensen, Leif E., Johnson, and Odgers. 2,899,196.
- Johnson, Joel R., to Western Electric Co., Inc. Machine for stitching terminals onto cards. 2,869,126, 1-20-59, Cl. 1—92.
- Johnson, John, and P. M. J. K. de Gooreynd, to Peterlite Products Ltd. Method of preparing molded article from polymerisable materials. 2,912,418, 11-10-59, Cl. 260—86.1.
- Johnson, John A., to Thermal Research and Engineering Corp. Fluid fuel burner. Re. 24,682, 8-18-59, Cl. 158—I.
- Johnson, John A. Apparatus for shaping clay-ware. 2,876,522, 3-10-59, Cl. 25—24.
- Johnson, John A., to ACF Industries, Inc. Vehicle hopper discharge control. 2,889,963, 6-9-59, Cl. 222—185.
- Johnson, John A., and J. M. Grutch, to ACF Industries, Inc. Lading storage and discharge apparatus. 2,913,147, 11-17-59, Cl. 222—70.
- Johnson, John B., to McGraw-Edison Co. Heat detector for hydrocarbon flames. 2,897,485, 7-28-59, Cl. 340—227.
- Johnson, John H., to Monsanto Chemical Co. Low molecular weight olefin/maleic anhydride copolymers made in special solvent systems. 2,913,437, 11-17-59, Cl. 260—78.5.
- Johnson, John H., and J. E. Fields, to Monsanto Chemical Co. Sizing polyester yarns with an ethylene-maleic interpolymers. 2,892,736, 6-30-59, Cl. 117—138.8.
- Johnson, John K. High-frequency screening enclosure. 2,913,577, 11-17-59, Cl. 250—20.
- Johnson, John M. Pole climbing safety device and seat. 2,879,830, 3-31-59, Cl. 155—78.
- Johnson, John R., to Owens-Illinois Glass Co. Chucking assembly for supporting hollow articles. 2,882,061, 4-14-59, Cl. 279—35.
- Johnson & Johnson: See—  
Billings, Orman B. 2,880,129.  
Bird, William H., Plantinga, and Newsome. 2,899,337.  
Blackford, Benjamin B. 2,882,179.  
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Hanlon, Joseph F. 2,889,975.  
Holtz, Albert. 2,914,167.  
Lavanchy, Patricia B., Sonnichsen, and McElroy. 2,886,467.  
Lavanchy, Patricia B. 2,912,348.  
Nashed, Wilson. 2,904,469.  
Norland, Robert E., and Nasser. 2,903,379.  
Rosenberg, Norman, and Gaughran. 2,900,644.  
Schaefer, Robert J. 2,896,618.  
Schladermundt, Peter, Dennerlein, and Simons. 2,889,039.  
Sellers, John C. 2,870,128.  
Shelley, Thomas H., Jr., and Zirnite. 2,877,141.  
Smith, Clifford W. 2,905,174.  
Wilson, Evelyn H. 2,887,495.  
Wilson, Evelyn H. 2,899,458.  
Zackheim, Eli A. 2,877,810.  
Zackheim, Eli A. 2,897,962.
- Johnson, Joyce L.: See—  
Melchoni, Anna F., Johnson, and Chase. 2,917,475.
- Johnson, Julius T. Liquid sampling system. 2,872,818, 2-10-59, Cl. 73—423.
- Johnson, Julius G., and F. C. Hartmann, to Johnson-Hartmann. Hair clipper. 2,883,747, 4-28-59, Cl. 30—210.
- Johnson, Kalin S., to Holley Carburetor Co. Ignition distributor. 2,905,162, 9-22-59, 123—117.
- Johnson, Karl G., to Telefonaktiebolaget L M Ericsson. Group selector device. 2,909,610, 10-20-59, Cl. 179—18.
- Johnson, Kenneth C.: See—  
Scarrott, Gordon G., Harwood, and Johnson. 2,883,534.  
Scarrott, Gordon G., and Johnson. 2,870,437.
- Johnson, Kenneth F., to Western Electric Co., Inc. Automatic shearing and coldwelding apparatus. 2,891,430, 6-23-59, Cl. 78—82.
- Johnson, Kenneth F., and A. L. Quinlan, to Western Electric Co., Inc. Electrical control system for percussion welder. 2,871,387, 1-27-59, Cl. 219—113.
- Johnson, Kenneth L. Weld-lock nut. 2,909,205, 10-20-59, Cl. 151—21.
- Johnson, Kenneth L. Weld nut with inwardly sloping flash pockets. 2,909,206, 10-20-59, Cl. 151—41.7.
- Johnson, Kenneth M.: See—  
Johnson, Bobby J. and K. M. 2,904,187.
- Johnson, Kenneth O., to General Motors Corp. Turbine rotor assembly. 2,867,460, 1-6-59, Cl. 287—52.



- Johnson, Kenneth O., J. J. Nuber, H. H. Waddell, and R. E. Millar, to Esso Research and Engineering Co. Method and equipment for handling volatile liquid hydrocarbons. 2,880,593, 4-7-59, Cl. 62-45.
- Johnson, Kenneth R., to Minneapolis-Honeywell Regulator Co. Measuring instrument. 2,892,154, 6-23-59, Cl. 324-97.
- Johnson, Kenneth W. Vibration dampener. 2,867,434, 1-6-59, Cl. 267-1.
- Johnson, Kenneth W., to Johnson-Williams, Inc. Gas analyzers. 2,883,270, 4-21-59, Cl. 23-254.
- Johnson, Langdon G., to General Motors Corp. Closure. 2,887,331, 5-19-59, Cl. 286-5.
- Johnson, Lauren L., and B. C. Liebenenthal, to General Motors Corp. Series compound motor circuit. 2,907,941, 10-6-59, Cl. 318-154.
- Johnson, Le Carda E.: *See*—  
Johnson, Ross H. 2,895,700.
- Johnson, Leland C.: *See*—  
Cooper, Ronald H., and Johnson. 2,870,110.
- Johnson, Lenard H., to Consolidated Electrodynamics Corp. Tape recorder drive. 2,886,757, 5-12-59, Cl. 318-318.
- Johnson, Lenard H., to United Geophysical Corp. Magnetic recording head-moving mechanism. 2,895,014, 7-14-59, Cl. 179-100.2.
- Johnson, Leona M. Collapsible tube capping and suspending device. 2,882,000, 4-14-59, Cl. 248-108.
- Johnson, Leonard E., Jr. Door guides. 2,898,623, 8-11-59, Cl. 16-90.
- Johnson, Leonard M., to International Telephone and Telegraph Corp. Polarized magnetic-operating device. 2,883,589, 4-21-59, Cl. 317-171.
- Johnson, Leslie W.: *See*—  
Oehler, William P., and Johnson. 2,881,849.  
Oehler, William P., and Johnson. 2,891,460.
- Johnson, Lloyd A., and E. K. Bowen, to Federal-Mogul-Bower Bearings, Inc. Fluid seal. 2,871,037, 1-27-59, Cl. 286-5.
- Johnson, Louis, Products Co., Inc. The: *See*—  
Trimble, Roy L. 2,878,042.
- Johnson, Loyd C. Combined door pull and latch. 2,892,652, 6-30-59, Cl. 292-126.
- Johnson, Loyd C. Door stop. 2,899,703, 8-18-59, Cl. 16-86.
- Johnson, Lyle S. Buoyant belt. 2,869,151, 1-20-59, Cl. 9-17.
- Johnson, Malcolm S., to Illinois Railway Equipment Co. Lading tie anchors. 2,897,771, 8-4-59, Cl. 105-369.
- Johnson, Martin A., to Kaiser Aluminum & Chemical Corp. Filter apparatus. 2,878,941, 3-24-59, Cl. 210-346.
- Johnson, Martin H., to Stoughton Cab & Body Co. Side loader for vehicles. Re. 24,757, 12-22-59, Cl. 214-83.24.
- Johnson, Martin K.: *See*—  
Tebboth, John A., and Johnson. 2,908,732.
- Johnson, Merlin. Portable-type bootjack with platform. 2,876,942, 3-10-59, Cl. 223-114.
- Johnson, Merlin. Bootjack and scraper combined. 2,889,972, 6-9-59, Cl. 223-114.
- Johnson, Melvin M., Jr., to Olin Mathieson Chemical Corp. Cartridge clip for loading box magazines. 2,887,811, 5-26-59, Cl. 42-87.
- Johnson, Melvin W., to Gardex, Inc. Lawn trimmer. 2,901,878, 9-1-59, Cl. 56-256.
- Johnson, Merriam E.: *See*—  
Barnitz, Edward S., and Johnson. 2,877,134.
- Johnson, Milton M. Railway axle box journal stop. 2,887,345, 5-19-59, Cl. 308-40.
- Johnson, Nancy H., and C. H. Coney, to Eastman Kodak Co. Cellulosic coatings for vinyl copolymers. 2,887,397, 5-19-59, Cl. 106-185.
- Johnson, Neal J.: *See*—  
McGhee, Kenneth B., and Johnson. 2,892,218.
- Johnson, Neal J., and J. D. Nickerson, to Union Carbide Corp. Oxidation resistant carbon and graphite bodies. 2,868,672, 1-13-59, Cl. 117-121.
- Johnson, Nels A.,  $\frac{1}{2}$  to G. M. Munson. Brine tankfloat valve control for water softener. 2,874,717, 2-24-59, Cl. 137-411.
- Johnson, Nels A. Automatic water softener. 2,905,325, 9-22-59, Cl. 210-275.
- Johnson, Norman M., to Cardwell Westinghouse Co. Rubber draft gear. 2,907,474, 10-6-59, Cl. 213-45.
- Johnson, Oney A., to Sampo, Inc. Rod holder. 2,912,196, 11-10-59, Cl. 248-42.
- Johnson, Oscar. Adjustable plumb bob. 2,906,033, 9-29-59, Cl. 33-217.
- Johnson, Oscar F.: *See*—  
Sederquist, Stanley L. F., and Johnson. 2,895,488.
- Johnson, Oscar H.: *See*—  
Latourette, Harold K., and Johnson. 2,908,703.  
Latourette, Harold K., Johnson, and Getz. 2,894,035.
- Johnson, Oscar H., to Food Machinery and Chemical Corp. Concentration of gamma benzene hexachloride by distillation. 2,878,164, 3-17-59, Cl. 202-39.5.
- Johnson, Oscar W.: *See*—  
Lewis, Kenneth D., Johnson, and Scott. 2,917,228.
- Johnson, Oscar W., to Dorr-Oliver Inc. Centrifuge construction. 2,911,139, 11-3-59, Cl. 233-2.
- Johnson, Oscar W., to Dorr-Oliver Inc. Centrifuge construction. 2,911,140, 11-3-59, Cl. 233-2.
- Johnson, Paul D.: *See*—  
Drapeau, Joseph E., Jr., and Johnson. 2,891,842.
- Johnson, Paul D., to The Glidden Co. Brazing paste and process of brazing. 2,908,072, 10-13-59, Cl. 29-473.1.
- Johnson, Paul H., to Phillips Petroleum Co. Recovery of cracking feed and asphalt. 2,882,219, 4-14-59, Cl. 208-86.
- Johnson, Paul R., and M. A. Smook, to E. I. du Pont de Nemours and Co. Chlorosulfonated hydrocarbon copolymers. 2,879,261, 3-24-59, Cl. 260-79.3.
- Johnson, Paul V.: *See*—  
Taylor, Robert B., and Johnson. 2,881,613.
- Johnson, Paul W., to The Johnson Gage Development Co. Gaging attachment for testing the centricity of a surface with respect to a thread or other surface. 2,872,739, 2-10-59, Cl. 33-199.
- Johnson, Peter W.: *See*—  
Longton, Ernest W., Beaudoin, and Johnson. 2,867,795.
- Johnson, Peter W. R.: *See*—  
Johnston, David B., Johnson, Cristy, and Trautmann. 2,909,400.
- Johnson, Peter W. R., to Johnson Products Inc. Work bench including leg and frame construction. 2,901,301, 8-25-59, Cl. 311-1.
- Johnson, Philip A., 47% to L. F. Brogan and 6% to R. L. Gausewitz. Vending machine. 2,901,964, 9-1-59, Cl. 99-352.
- Johnson, Philip A., 47% to L. F. Brogan, and 6% to R. L. Gausewitz. Escrow device for coin operated mechanisms. 2,904,151, 9-15-59, Cl. 194-9.
- Johnson, Philip C.: *See*—  
Coffey, David H., Johnson, and White. 2,880,192.  
Gee, Eric, Johnson, Packer, and Stephenson. 2,902,456.
- Johnson, Philip C., and N. R. Cox, to Union Carbide Corp. Process for the production of oxygenated compounds. 2,919,292, 12-29-59, Cl. 260-604.
- Johnson, Philip L.: *See*—  
Moore, Bobbie D., and Johnson. 2,917,907.  
Smith, Peter A., and Johnson. 2,886,054.  
Smith, Peter A., and Johnson. 2,886,061.
- Johnson, Prince A. Combined hassock and vacuum cleaner. 2,885,714, 5-12-59, Cl. 15-331.
- Johnson Products Inc.: *See*—  
Bergmann, Paul F. 2,882,876.  
Bergmann, Paul F., Sr. 2,908,260.  
Humphreys, John W. 2,882,878.
- Johnson, Peter W. R. 2,901,301.
- Johnson, Quinton C., to United States of America, Air Force. Releasable aircraft tank mounting. 2,867,396, 1-6-59, Cl. 244-137.
- Johnson, Quinton C., to United States of America, Air Force. Manual and automatic latch mechanism. 2,873,138, 2-10-59, Cl. 294-83.
- Johnson, Ralph E., to The Singer Mfg. Co. Loop taker with needle guard. 2,883,953, 4-28-59, Cl. 112-228.
- Johnson, Ralph E., to The Singer Mfg. Co. Ornamental stitch sewing machines. 2,900,938, 8-25-59, Cl. 112-158.
- Johnson, Ralph E., to The Singer Mfg. Co. Sewing machines with bobbin thread controlling means. 2,900,940, 8-25-59, Cl. 112-184.
- Johnson, Ralph E., to The Singer Mfg. Co. Sewing machine cradles. 2,906,576, 9-29-59, Cl. 312-30.
- Johnson, Ralph E., to The Singer Mfg. Co. Sewing machine for tubular articles. 2,918,027, 12-22-59, Cl. 112-258.
- Johnson, Ralph H., to General Motors Corp. Bearing with oil reservoir. 2,916,333, 12-8-59, Cl. 308-122.
- Johnson, Ralph L. Picture mount. 2,896,351, 7-28-59, Cl. 40-158.
- Johnson, Ralph S., to General Motors Corp. Connecting rod mounting. 2,894,414, 7-14-59, Cl. 74-580.
- Johnson, Ray, to Van Camp Sea Food Co., Inc. Fish cleaning apparatus. 2,884,658, 5-5-59, Cl. 17-7.
- Johnson, Ray, to Van Camp Sea Food Co., Inc. Method for cleaning fish. 2,911,668, 11-10-59, Cl. 17-45.
- Johnson, Raymond A., to Pittsburgh Steel Co. Reinforcement fabric for concrete structures. 2,903,880, 9-15-59, Cl. 72-116.
- Johnson, Raymond C.: *See*—  
Korpi, Karl J., and Johnson. 2,890,952.
- Johnson, Raymond M., Jr.: *See*—  
Birkhoff, Robert D., Hubbell, and Johnson. 2,875,343.
- Johnson, Reginald F.: *See*—  
Gilbert, Joseph A., Johnson, and Rose. 2,875,069.
- Johnson, Reynold B., and W. C. Dersch, Jr., to International Business Machines Corp. Cathode ray character tracer. 2,872,669, 2-3-59, Cl. 340-324.
- Johnson, Reynold B., O. F. Moneagle, T. D. Koranye, H. A. Jurgens, and M. P. Prater, to International Business Machines Corp. Bill feeding and piercing devices. 2,889,110, 6-2-59, Cl. 235-61.1.
- Johnson, Richard A.: *See*—  
Knight, Geoffrey, Jr., Humez, and Johnson. 2,911,594.
- Johnson, Richard H.: *See*—  
Drnee, Harry F., Snyder, and Johnson. 2,900,123.
- Johnson, Richard H., to The Upjohn Co. Anti-inflammatory steroid solutions. 2,880,130, 3-31-59, Cl. 167-65.
- Johnson, Richard H., to The Upjohn Co. Anti-inflammatory steroid solutions. 2,880,138, 3-31-59, Cl. 167-65.
- Johnson, Richard H., and W. P. Schneider, to The Upjohn Co. Hydrocortisone compositions and method for extemporaneous administration. 2,871,160, 1-27-59, Cl. 167-77.
- Johnson, Robbie F.: *See*—  
Johnson, Franklyn H. 2,895,742.
- Johnson, Robert, to H. K. Porter Co. Inc. Junction box for underfloor conduit and duct systems for cellular floors. 2,913,136, 11-17-59, Cl. 220-3.3.



- Johnson, Robert A.: *See*—  
Stewart, Aubrey P., Jr., Johnson, and Wilcox. 2,886,450.
- Johnson, Robert A., Jr. Magnetized clamp for conduit. 2,890,848, 6-16-59, Cl. 248—74.
- Johnson, Robert B.: *See*—  
Rolland, Calvin C., and Johnson. 2,907,804.
- Johnson, Robert B., and L. H. Sutherland, to American Cyanamid Co. Inhibiting polymer precipitation in acetylene purification process. 2,907,801, 10-6-59, Cl. 260—679.
- Johnson, Robert E., to Jervis Corp. Key-operated latch mechanism. 2,871,690, 2-3-59, Cl. 70—146.
- Johnson, Robert E., E. C. Levitt, and J. F. Workman, to Whirlpool Corp. Water inlet control system. 2,881,780, 4-14-59, Cl. 137—132.
- Johnson, Robert G.: *See*—  
Gormley, Robert S., Johnson, and Martin. 2,878,415.
- Johnson, Robert H.: *See*—  
Nerad, Anthony J., and Johnson. 2,867,267.
- Johnson, Robert J.: *See*—  
Pearce, George W., and Johnson. 2,886,928.
- Johnson, Robert J., to Scientific Products Co. Reaction propulsion toy. 2,913,751, 12-29-59, Cl. 46—74.
- Johnson, Robert L.: *See*—  
Adams, Edgar M., and Johnson. 2,888,421.
- Johnson, Robert L., and E. M. Adams, to The Dow Chemical Co. Film forming aqueous colloidal dispersions containing tris (hydroxymethyl) nitromethane and method for preparing same. 2,888,422, 5-26-59, Cl. 260—29.7.
- Johnson, Robert L., and D. N. Robertson, to The Dow Chemical Co. Film forming aqueous colloidal dispersions containing aromatic nitroalkanois and method for preparing same. 2,898,317, 8-4-59, Cl. 260—29.6.
- Johnson, Robert N. Burial vault. 2,880,492, 4-7-59, Cl. 27—35.
- Johnson, Robert N. Apparatus for molding burial vault domes. 2,895,207, 7-21-59, Cl. 25—130.
- Johnson, Robert R.: *See*—  
Blankenbaker, John V., and Johnson. 2,888,202.
- Johnson, Robert R., to Hughes Aircraft Co. Electronic circuits for selectively shifting or inverting the time position of digital data. 2,876,437, 3-3-59, Cl. 340—174.
- Johnson, Robert R., to Hughes Aircraft Co. Electronic magnitude comparator. 2,900,620, 8-18-59, Cl. 340—149.
- Johnson, Robert R., to Hughes Aircraft Co. Algebraic magnitude comparators. 2,907,877, 10-6-59, Cl. 250—27.
- Johnson, Roland, to Dominion Textile Co., Ltd. Lock knot. 2,888,854, 6-2-59, Cl. 87—12.
- Johnson, Ross H., deceased; L. E. Johnson, executrix of said R. H. Johnson; to L. E. Johnson. Ladder supported container holder. 2,895,700, 7-21-59, Cl. 248—210.
- Johnson, Roy E., and A. H. Justice. Ratchet control assembly. 2,870,637, 1-27-59, Cl. 74—128.
- Johnson, Roy R., to Pressed Steel Tank Co. Double bottom compressed gas cylinder and method of making same. 2,872,068, 2-3-59, Cl. 220—69.
- Johnson, Roy W., R. J. Duncan, K. G. Braid, and W. P. Healy, to Controls Co. of America. Igniter and igniter assembly for pot burners. 2,902,578, 9-1-59, Cl. 219—32.
- Johnson, S. C., & Son, Inc.: *See*—  
Anderson, John J., Harris, and Harrison. 2,887,273.
- Breiner, Alfred W. 2,890,181.
- Breiner, Alfred W. 2,890,198.
- Chapman, Francis E. 2,873,202.
- Greenlee, Sylvan O. 2,873,200.
- Greenlee, Sylvan O. 2,890,189.
- Greenlee, Sylvan O. 2,890,203.
- Greenlee, Sylvan O. 2,893,965.
- Greenlee, Sylvan O. 2,893,966.
- Greenlee, Sylvan O. 2,893,968.
- Greenlee, Sylvan O. 2,893,974.
- Greenlee, Sylvan O. 2,907,718.
- Greenlee, Sylvan O. 2,907,719.
- Greenlee, Sylvan O. 2,907,723-41.
- Greenlee, Sylvan O. 2,907,743-7.
- Greenlee, Sylvan O. 2,907,750.
- Greenlee, Sylvan O. 2,907,778.
- Greenlee, Sylvan O. 2,907,779.
- Greenlee, Sylvan O. 2,908,005.
- Greenlee, Sylvan O. 2,908,006.
- Greenlee, Sylvan O. 2,909,505.
- Mulvenna, Elmer. 2,896,810.
- Sesso, Louis M. 2,868,657.
- Wilder, Edward A. 2,893,964.
- Johnson, Samuel J., and C. J. Schroeder, deceased (by S. Schroeder, administratrix). Folding door. 2,891,612, 6-23-59, Cl. 160—84.
- Johnson Service Co.: *See*—  
Fleckenstein, Joseph E. 2,882,042.
- Johnson, Sidney P. Creep measuring device. 2,901,833, 9-1-59, Cl. 33—199.
- Johnson, Stanley A.,  $\frac{1}{2}$  to C. Parten, and  $\frac{1}{2}$  to G. Parten. Die for use in bending flat metal stock and the like. 2,882,952, 4-21-59, Cl. 153—21.
- Johnson, Stanley A.,  $\frac{1}{2}$  to C. Parten, and  $\frac{1}{2}$  to G. Parten. Die for use in bending flat metal stock and the like. 2,916,073, 12-8-59, Cl. 153—21.
- Johnson, Stanley G., to The Johnson Gage Development Co. Gage for rotating test part for peripheral and concentricity gaging. 2,878,577, 3-24-59, Cl. 33—199.
- Johnson Steel & Wire Co., Inc.: *See*—  
Swallow, Basil H., and Sjöberg. 2,916,225.
- Johnson, Stephen I.: *See*—  
Phillips, Harold P., and Johnson. 2,880,788.
- Johnson, Tegner A., to United States Steel Corp. Method of agglomerating fine ore. 2,884,320, 4-28-59, Cl. 75—3.
- Johnson, Theodore C. W. Core drilling. 2,893,691, 7-7-59, Cl. 255—14.
- Johnson, Theodore T.: *See*—  
Robinson, David, Mitchell, Johnson, and Samsel. 2,912,678.
- Johnson, Thomas A., to U. S. Rubber Reclaiming Co., Inc. Process of forming flooring surfaces with asphalt coated rubber pellets. 2,871,774, 2-3-59, Cl. 94—23.
- Johnson, Thomas H.: *See*—  
Spiller, William R., and Johnson. 2,897,754.
- Johnson, Thomas H., to Harris-Intertype Corp. Dampening means for printing plates. 2,878,502, 3-24-59, Cl. 15—183.
- Johnson, Thomas H., A. J. Mueller, and C. B. Crittenden, to Harris-Intertype Corp. Printing plate mounting means. 2,885,958, 5-12-59, Cl. 101—415.1.
- Johnson, Thomas H., to Harris-Intertype Corp. Printing press. 2,911,908, 11-10-59, Cl. 101—181.
- Johnson, Thomas H., E. M. Kane, and J. Q. Tabor, Jr., to United States of America, Navy. Flare device. 2,868,129, 1-13-59, Cl. 102—87.
- Johnson, Thomas H., and A. J. Mueller, to The Cottrell Co. Dampening device for lithographic presses. 2,915,007, 12-1-59, Cl. 101—148.
- Johnson, Thomas J.: *See*—  
Van Alstyne, Alvin G., and Johnson. 2,889,636.
- Johnson, Thomas J., to Gilfillan Bros. Inc. Means for electronic multiplication. 2,880,935, 4-7-59, Cl. 235—194.
- Johnson, Thomas J., to Gilfillan Bros., Inc. Artificial aircraft simulator for radar systems. 2,889,635, 6-9-59, Cl. 35—10.4.
- Johnson, Thomas W., and R. H. Wolff, to Bendix Aviation Corp. Air control valve. 2,878,827, 3-24-59, Cl. 137—219.
- Johnson, Tiny L. Lubricating system for fly frames. 2,896,394, 7-28-59, Cl. 57—67.
- Johnson, Virgil L.: *See*—  
Schriever, Arnold A., and Johnson. 2,868,169.
- Johnson, Waldo O.: *See*—  
Eskridge, Harold E., and Johnson. 2,866,997.
- Johnson, Wallace J. S. Automatic rotational sprayer. 2,904,261, 9-15-59, Cl. 239—230.
- Johnson, Wallace R.: *See*—  
Isaacs, George K., and Johnson. 2,908,353.
- Johnson, Walter, Jr. Alarm system. 2,916,730, 12-8-59, Cl. 340—227.
- Johnson, Walter F. Direct reading hand micrometer. 2,878,571, 3-24-59, Cl. 33—166.
- Johnson, Walter G.: *See*—  
Meloy, Arthur S., Jr., Sweet, and Johnson. 2,883,952.
- Johnson, Walter G., to The Singer Mfg. Co. Throat plates for sewing machines. 2,911,931, 11-10-59, Cl. 112—260.
- Johnson, Walter J.: *See*—  
Gravelle, Theodore E., and Johnson. 2,887,320.
- Johnson, Walter L. Material unloading and elevating attachment for trucks. 2,879,910, 3-31-59, Cl. 214—508.
- Johnson, Walter M. Toilet seat raising device. 2,877,469, 3-17-59, Cl. 4—241.
- Johnson, Walter T. Can filler and conveyor. 2,879,812, 3-31-59, Cl. 141—172.
- Johnson, Warren C., and E. F. Smart, to Westinghouse Electric Corp. Electron discharge device. 2,915,667, 12-1-59, Cl. 313—265.
- Johnson, Wayne, to Minnesota Mining & Mfg. Co. Television recording and reproducing system. 2,867,685, 1-6-59, Cl. 178—6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Method of multiple track recording. 2,892,886, 6-30-59, Cl. 178—6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Amplifier for television signals. 2,909,597, 10-20-59, Cl. 178—6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Method of magnetically recording and reproducing television signals. 2,913,520, 11-17-59, Cl. 178—6.6.
- Johnson, Wayne R., to Minnesota Mining & Mfg. Co. Low noise preamplifier. 2,919,313, 12-29-59, Cl. 179—100.2.
- Johnson, Wendell J. Rock windrower. 2,906,351, 9-29-59, Cl. 171—63.
- Johnson, Wesley T., Jr.: *See*—  
Godfrey, Charles E., and Johnson. 2,910,010.
- Johnson, Willard L.: *See*—  
Umbricht, Emil, Steenhagen, and Johnson. 2,873,816.
- Umbricht, Emil, Steenhagen, and Johnson. 2,915,252.
- Johnson, Willard L., to Ajem Laboratories, Inc. Metal processing apparatus. 2,900,992, 8-25-59, Cl. 134—122.
- Johnson, William C., Jr. Automatic switch assembly for stock tank. 2,905,783, 9-22-59, Cl. 200—84.
- Johnson, William F., and J. C. Davy, to Powers-Samas Accounting Machines Ltd. Anchoring apparatus for flexible cables. 2,884,271, 4-28-59, Cl. 287—75.
- Johnson, William E. P., to Power Jets (Research & Development) Ltd. Jet-diverting equipment. 2,871,656, 2-3-59, Cl. 60—35.54.
- Johnson, William H.,  $\frac{1}{2}$  to W. T. Sevald. Colostomy device. 2,874,697, 2-24-59, Cl. 128—283.
- Johnson, William K., to Monsanto Chemical Co. Preparation of aluminum alkyls. 2,900,402, 8-18-59, Cl. 260—448.



- Johnson, William K., and J. C. Wygant, to Monsanto Chemical Co. Terephthalic acid process. 2,904,587, 9-15-59, Cl. 260-515.
- Johnson, William L., to Abrasive Co. of America. Magnetic application of paramagnetic spray paint. 2,895,851, 7-21-59, Cl. 117-93.
- Johnson, William R. Foot operated marine paddle wheel system. 2,910,035, 10-27-59, Cl. 115-26.
- Johnson, William S. Textile dyeing apparatus. 2,868,005, 1-13-59, Cl. 68-184.
- Johnson, William S., to Wisconsin Alumni Research Foundation. Steroid intermediates and synthesis thereof. 2,891,995, 6-23-59, Cl. 260-586.
- Johnson-Williams, Inc.: *See—*
- Johnson, Kenneth W. 2,883,270.
- Johnson, Winford B., to E. I. du Pont de Nemours and Co. Oxidation of alkyl benzenes in the presence of alkanols. 2,879,289, 3-24-59, Cl. 260-475.
- Johnson's Co. Ltd.: *See—*
- Pharo, Merritt C. 2,874,838.
- Johnssen, Friedrich K. Light-transmissive wall structure. 2,909,916, 10-27-59, Cl. 72-42.
- Johnstad, Dagfin, to Onsrud Cutter Mfg. Co. Honeycomb cutter. 2,894,583, 7-14-59, Cl. 164-70.
- Johnson, Alan H., and F. W. Southam, to Aluminum Laboratories Ltd. Recovery of aluminum in subhalide distillation. 2,914,398, 11-24-59, Cl. 75-68.
- Johnson, Arthur D.: *See—*
- Osborne, Wesley M., Edge, and Johnston. 2,889,199.
- Johnson, Charles R., to Transportation Specialties Co. Freight positioning and retaining apparatuses. 2,896,534, 7-28-59, Cl. 105-369.
- Johnson, Christian W., and R. A. Meara, to National Distillers and Chemical Corp. Polyesters of a mixture of dicarboxylic acids having ten carbon atoms and process of making same. 2,902,463, 9-1-59, Cl. 260-45.4.
- Johnson, Clarence A. Ceiling mounting for speaker. 2,913,067, 11-17-59, Cl. 181-31.
- Johnson, Colin D. M.: *See—*
- Belsey, Frederick H., and Johnston. 2,885,624.
- Johnson, David B., P. W. R. Johnson, N. G. Cristy, and J. H. Trautmann, to Products for Industry. Telescoping support frame. 2,909,400, 10-20-59, Cl. 311-35.
- Johnson, Denis L., to Fortiphone Ltd. Miniature transformers and chokes. 2,916,713, 12-8-59, Cl. 336-96.
- Johnson, Donald L., E. M. Derr, and W. A. Wooldridge, to General Electric Co. High voltage bushing. 2,912,480, 11-10-59, Cl. 174-31.
- Johnson, Douglas: *See—*
- Blue, John, Johnston, and Tangeman. 2,913,992.
- Foster, Herbert V., and Johnston. 2,868,232.
- Johnson, Fred L., to General Steel Castings Corp. Cutting torch moving and guiding mechanism. 2,879,055, 3-24-59, Cl. 266-23.
- Johnson, Gorman J., to Allis-Chalmers Mfg. Co. Glass spacing sticks for dry type transformer. 2,904,760, 9-15-59, Cl. 336-60.
- Johnson, Herrick L., Inc.: *See—*
- Newton, Charles L., and White. 2,895,724.
- Johnson, Howard, to The Dow Chemical Co. Bis(3-halo-2-chloropropenyl) sulfide. 2,908,717, 10-13-59, Cl. 260-609.
- Johnson, Howard, to The Dow Chemical Co. Bis(haloalkenyl) sulfides. 2,910,509, 10-27-59, Cl. 260-609.
- Johnson, Howard, to The Dow Chemical Co. 2,2'-thiobis(3-chloro-N,N'-dialkyl-2-butene-1,4-diamine). 2,915,556, 12-1-59, Cl. 260-583.
- Johnson, J. Ford, to Lockheed Aircraft Corp. Vane stabilizing wing tip pod for aircraft. 2,869,808, 1-20-59, Cl. 244-135.
- Johnson, James D., to Ethyl Corp. Preparation of bromo acids and esters. 2,876,255, 3-3-59, Cl. 260-487.
- Johnson, James D., to Ethyl Corp. Production of omega bromo compounds. 2,880,220, 3-31-59, Cl. 260-408.
- Johnson, James L., to Johnston Testers Inc. Slip actuating device. 2,906,346, 9-29-59, Cl. 166-214.
- Johnson, James M.: *See—*
- Lightbody, Alexander, and Johnston. 2,898,856.
- Johnson & Jennings Co., The: *See—*
- Heideman, Irvin L. 2,879,786.
- Johnson, John R. Combined saw guide and dividers. 2,881,525, 4-14-59, Cl. 33-75.
- Johnson, Joseph E., Jr.: *See—*
- Benninga, Noah, Johnston, Lynch, Markwood, and Parks. 2,908,944.
- Johnson, Kenneth L., and G. F. L. Bishop, to Phillips Petroleum Co. Method and apparatus for feeding fluid reactants to a moving bed of solid contact particles. 2,893,950, 7-7-59, Cl. 208-166.
- Johnson, Lawrence B. Music holder. 2,915,849, 12-8-59, Cl. 45-121.
- Johnson, Leslie H. Modified V-bottom boat. 2,915,031, 12-1-59, Cl. 114-56.
- Johnson, Lowell B.: *See—*
- Walker, Frederick W., Cady, and Johnston. 2,881,110.
- Johnson, Millard A.,  $\frac{1}{2}$  to J. G. Lenco. Illuminated automobile door lock. 2,904,671, 9-15-59, Cl. 240-213.
- Johnson, Mordica O., and R. H. Stanier, to Johnston Testers, Inc. Doughnut-type packer. 2,874,782, 2-24-59, Cl. 166-204.
- Johnson, P. Gordon, to The Chase-Shawmut Co. Fusible protective devices. 2,915,609, 12-1-59, Cl. 200-135.
- Johnston, Percy W. R. H. Rubber sole attaching means for shoes having a flexible attaching flange. 2,918,735, 12-29-59, Cl. 36-14.
- Johnston, Raymond R.: *See—*
- Witzky, Julius E., and Johnston. 2,914,295.
- Johnston, Reece W., and H. H. Chandler. Dental vacuum apparatus. 2,895,220, 7-21-59, Cl. 32-33.
- Johnston, Robert C. Camera support. 2,916,243, 12-8-59, Cl. 248-226.
- Johnston, Robert G. Alarm switch. 2,897,307, 7-28-59, Cl. 200-61.83.
- Johnston, Robert G., and K. E. V. Spencer, to T. & H. Smith, Ltd. Quaternary halides of certain tropane alkaloids. 2,903,394, 9-8-59, Cl. 167-58.
- Johnston, Robert W. B., to Shell Development Co. Production of lubricating oil components of high viscosity index. 2,895,903, 7-21-59, Cl. 208-96.
- Johnston, Rufus B., to Wilson Supply Co. Hydraulic pumping system. 2,914,036, 11-24-59, Cl. 121-150.
- Johnston, Rufus B., to Wilson Supply Co. Hydraulic pumping system. 2,914,037, 11-24-59, Cl. 121-150.
- Johnston, Spencer G.: *See—*
- Farrand, William A., Johnston, Kilpatrick, and Lekas. 2,899,260.
- Johnston Testers, Inc.: *See—*
- Bagnell, Edgar W. 2,877,027.
- Garrison, Marion A. 2,869,863.
- Garrison, Marion A. 2,875,837.
- Johnston, James L. 2,906,346.
- Johnston, Mordica O., and Stanier. 2,874,782.
- Long, Thomas L. 2,876,701.
- Long, Thomas L. 2,878,876.
- Nutter, Benjamin P. 2,901,001.
- Scott, Elmer T. 2,917,270.
- Wilson, Homer T. 2,881,842.
- Johnston, Walker F., Jr., to The American Oil Co. Pre-conditioning of hydroforming catalysts. 2,868,718, 1-13-59, Cl. 208-138.
- Johnston, Walker F., Jr., to The American Oil Co. Method for the production of color-stable furnace oil. 2,882,225, 4-14-59, Cl. 208-266.
- Johnston, Walker F., Jr., to The American Oil Co. Pretreatment of hydroforming catalysts. 2,885,351, 5-5-59, Cl. 208-138.
- Johnston, William D. High pressure mixing device. 2,892,620, 6-30-59, Cl. 259-113.
- Johnston, William R., to Standard Brands Inc. Active dry yeast products and processes for producing the same. 2,919,194, 12-29-59, Cl. 99-96.
- Johnston, Willis T.,  $\frac{1}{2}$  to E. Dew. Thermostatically controlled cooling systems for internal combustion engines. 2,877,751, 3-17-59, Cl. 123-41.12.
- Johnston, Willis T.,  $\frac{1}{2}$  to E. Dew. Headlight beam selector switch. 2,918,604, 12-22-59, Cl. 315-82.
- Johnstone, Alexander P., to Power Jets (Research and Development) Ltd. Jet spoiler for jet propulsion plant. 2,876,619, 3-10-59, Cl. 60-35.54.
- Johnstone, Charles W., to United States of America, Atomic Energy Commission. Rise time delay discriminator. 2,906,872, 9-29-59, Cl. 250-27.
- Johnstone, Theodore H. Cylinder lock. 2,879,658, 3-31-59, Cl. 70-364.
- Johnstone, Theodore H., to The Bingham Herbrand Corp. Delayed action brake release. 2,899,838, 8-18-59, Cl. 74-540.
- Joiner, Edgar E., to Fred W. Mears Heel Co., Inc. Machines for driving reinforcing rings into the top lift receiving faces of wood heels. 2,907,037, 10-6-59, Cl. 1-1.
- Joiner, Edgar E., and J. P. Szumski, to Fred W. Mears Heel Co., Inc. Heel attaching with resin mixtures. 2,901,841, 9-1-59, Cl. 36-24.5.
- Joiner, Edgar E., Jr., to Fred W. Mears Heel Co., Inc. Wood heel block dowering machine. 2,891,587, 6-23-59, Cl. 144-205.
- Joiner, Richard V. Food package and method of packaging. 2,918,378, 12-22-59, Cl. 99-171.
- Joiner, Robert R.: *See—*
- Marks, Henry C., Joiner, and Parker. 2,903,361.
- Jokl, Alois L.: *See—*
- Scanlon, Earl J., and Jokl. 2,885,580.
- Jolissaint, Richard C. Apparatus for aligning button holes in French-type shirt sleeve cuffs. 2,912,147, 11-10-59, Cl. 223-1.
- Jolliffe, Leslie S.: *See—*
- Caliri, Vincent J., and Jolliffe. 2,917,614.
- Jolliffe, Sidney A. W., D. W. G. Byatt, D. W. Watson, J. F. Hatch, and G. A. French, to Marconi's Wireless Telegraph Co. Ltd. Radio direction finders. 2,917,741, 12-15-59, Cl. 34-113.
- Jolly, Clarence L.: *See—*
- Jackson, Howard B., and Jolly. 2,911,782.
- Jolly, Eugene R. Cement composition. 2,892,728, 6-30-59, Cl. 106-97.
- Jolly, George M., to Deering Milliken Research Corp. Cloth demonstration device. 2,900,512, 8-18-59, Cl. 250-52.
- Jolly, Samuel E., to Sun Oil Co. Compositions comprising polymerization products of vinyl aromatic compounds and naphthenic acid esters of polymeric polyhydric alcohols. 2,868,761, 1-13-59, Cl. 260-45.5.
- Jolly, Samuel E., to Sun Oil Co. Mixed esters of polyhydric alcohols with naphthenic and lower fatty acids. 2,891,089, 6-16-59, Cl. 260-468.



- Jolly, Samuel E., to Sun Oil Co. Naphthenic acid derivatives and their preparation. 2,911,433, 11-3-59, Cl. 260—468.
- Jolly, Stuart T., to Radio Corp. of America. Magnetic record transducer. 2,872,530, 2-3-59, Cl. 179—100.2.
- Joly, Robert: *See—*
- Muller, Georges, Joly, and Bardoneschi. 2,888,472.
- Joly, Robert, G. Nominé, and D. Bertin, to Les Laboratoires Français de Chimiothérapie. Brominated derivatives of compounds of the pregnane series and methods of making same. 2,888,473, 5-26-59, Cl. 260—397.45.
- Jominy, Walter E., J. H. Olson, and R. B. Boswell, to Chrysler Corp. Method of casting aluminum on ferrous base to form duplex structure. 2,881,491, 4-14-59, Cl. 22—204.
- Jonach, Fredrick L.: *See—*
- Kirshenbaum, Isidor, Jonach, and Etherington. 2,901,404.
- Kirshenbaum, Isidor, Jonach, and Etherington. 2,901,406.
- Jonas, Frank E.: *See—*
- Wirth, Pierre. 2,906,666.
- Jonassen, Severin L., to Philco Corp. Tuning devices and the like. 2,910,874, 11-3-59, Cl. 74—10.
- Jones, Alan R. Apparatus and methods useful in the preparation of precise dilutions of liquids. 2,867,355, 1-6-59, Cl. 222—136.
- Jones, Allen H., to The W. W. Sly Mfg. Co. Dust bag for dust filter. 2,906,371, 9-29-59, Cl. 183—61.
- Jones, Alonzo L., and W. H. De Hay. Magnetically operated non-scaling valve. 2,888,037, 5-26-59, Cl. 137—528.
- Jones, Alvin J.: *See—*
- Balsiger, Harold E., and Jones. 2,867,058.
- Jones, Amour A.: *See—*
- Jones, Edward B. and A. A. 2,894,312.
- Jones, Arthur L., to The Standard Oil Co. Thermal diffusion method and apparatus. 2,892,544, 6-30-59, Cl. 210—72.
- Jones, Arthur L., and E. E. Cuckson, to Cuckson Textiles Proprietary Ltd. Shuttleless looms. 2,891,583, 6-23-59, Cl. 139—124.
- Jones, Augustus, and F. J. Haskins, to General Dynamics Corp. Etching process. 2,886,420, 5-12-59, Cl. 41—42.
- Jones, Axel R.: *See—*
- Fassnacht, Arthur F., and Jones. 2,877,758.
- Jones, Barton. Motion transmitting mechanism for air transmitter. 2,912,993, 11-17-59, Cl. 137—85.
- Jones, Benjamin C.: *See—*
- Kirkpatrick, William D., and Newman. 2,881,954.
- Jones, Benjamin W.: *See—*
- Neuworth, Martin B., and D. C. and B. W. Jones. 2,881,221.
- Jones, Benjamin W., and M. B. Neuworth, to Consolidation Coal Co. Method of separating 2,4-xyleneol and 2,5-xyleneol by selective resinification. 2,917,487, 12-15-59, Cl. 260—57.
- Jones, Bruce C.: *See—*
- Hutchins, Hugh A., and Jones. 2,877,899.
- Hutchins, Hugh A., and Jones. 2,892,253.
- Jones, Bryan,  $\frac{1}{2}$  to L. E. Bergstrom. Combination chisel structure for mortising woodwork. 2,871,898, 2-3-59, Cl. 145—24.
- Jones, Cecil D.: *See—*
- Thom, Wenzel W. 2,904,314.
- Jones, Cecil T., to Container Corp. of America. Foldable interlocked boxes. 2,914,235, 11-24-59, Cl. 229—34.
- Jones, Charles E., and W. G. Crowle. Extensible ice skate. 2,904,342, 9-15-59, Cl. 280—11.16.
- Jones, Charles F., to The Goodyear Tire & Rubber Co. Apparatus for reshaping conduits. 2,908,940, 10-20-59, Cl. 18—45.
- Jones, Charles H., to Westinghouse Electric Corp. High definition television system. 2,892,015, 6-23-59, Cl. 178—5.2.
- Jones, Charles H., to Westinghouse Electric Corp. Detector for NTSC color receiver. 2,897,261, 7-23-59, Cl. 178—5.4.
- Jones, Charles H., and J. H. Thompson, to United States of America, Navy. Electronic current regulator. 2,870,396, 1-20-59, Cl. 323—4.
- Jones, Charles H., Jr.: *See—*
- Lakso, Eino E., and Jones. 2,895,269.
- Jones, Clarence I., and R. A. Morris, to Mine Safety Appliances Co. Combustible gas detector. 2,879,142, 3-24-59, Cl. 23—255.
- Jones, Clarence S., and G. Currie. Signalling system. 2,910,579, 10-27-59, Cl. 250—2.
- Jones, Clarence W.: *See—*
- Murphy, Edwin W. 2,881,910.
- Jones, Claude E., Jr., to International Telephone and Telegraph Corp. Data processing system. 2,916,727, 12-8-59, Cl. 340—174.
- Jones, Cliff. Tilt flow bottle holder. 2,909,346, 10-20-59, Cl. 248—106.
- Jones, Dan H., and L. M. Stone, to The National Cash Register Co. Head positioning device. 2,900,625, 8-18-59, Cl. 340—174.
- Jones, Daniel C.: *See—*
- Kurek, Thaddeus M., Popp, and Jones. 2,872,890.
- Jones, David D.: *See—*
- Brien, Huron C., and Jones. 2,885,848.
- Jones, David J., and B. S. Gossling, to The General Electric Co. Ltd. Methods of producing refractory metal filaments of flattened zig-zag form. 2,881,104, 4-7-59, Cl. 148—4.
- Jones, Derrick A., to Fairchild Camera and Instrument Corp. Incremental linear actuator. 2,911,766, 11-10-59, Cl. 51—165.
- Jones, Donald C.: *See—*
- Neuworth, Martin B., and D. C. and B. W. Jones. 2,881,221.
- Jones, Donald C., and M. B. Neuworth, to Consolidation Coal Co. Separation of thiophenols and tar acids. 2,910,507, 10-27-59, Cl. 260—609.
- Jones, Donald C., and M. B. Neuworth, to Consolidation Coal Co. Refining of sulfur-contaminated tar acids. 2,914,569, 11-24-59, Cl. 260—609.
- Jones, Donald K.: *See—*
- Steinmayer, Alwin G., and Jones. Re. 24,696.
- Jones, Donald T.: *See—*
- Lindsey, Joe P., and Jones. 2,878,999.
- Jones, Dougan L., to The Marley Co. Method of producing finned tubing. 2,872,730, 2-10-59, Cl. 29—496.
- Jones, Dougan L., to The Marley Co. Machine for producing finned tubing. 2,918,962, 12-29-59, Cl. 153—64.5.
- Jones, Dramin D. Acoustic earset for conference application. 2,892,889, 6-30-59, Cl. 179—1.
- Jones, Dwight V., to General Electric Co. Frequency response determining apparatus. 2,887,658, 5-19-59, Cl. 324—158.
- Jones, E. D., Corp.: *See—*
- Durant, Leonard G., Irvine, Pennington, and Suring. 2,910,398.
- Jones, Earle D.: *See—*
- Kabell, Louis J., and Jones. 2,907,899.
- Jones, Edgar L. Nut harvester. 2,901,879, 9-1-59, Cl. 56—328.
- Jones, Edmund A., to Ortho Pharmaceutical Corp. Pessary. 2,916,035, 12-8-59, Cl. 128—127.
- Jones, Edmund W., to The Singer Mfg. Co. Portable bases for miniature sewing machines. 2,879,734, 3-31-59, Cl. 112—258.
- Jones, Edward B. and A. A. Concrete forms. 2,894,312, 7-14-59, Cl. 25—131.5.
- Jones, Edward M., to The Baldwin Piano Co. Rotary air bearing. 2,868,593, 1-13-59, Cl. 308—9.
- Jones, Edward M., to The Baldwin Piano Co. Data conversion system. 2,910,684, 10-27-59, Cl. 340—347.
- Jones, Edward M., and C. F. Winder, to The Baldwin Piano Co. Transistor oscillators. 2,902,655, 9-1-59, Cl. 331—112.
- Jones, Edward N. Wire line releasable slip-type fishing tool. 2,908,525, 10-13-59, Cl. 294—102.
- Jones, Edwin G. Post driver. 2,901,215, 8-25-59, Cl. 254—29.
- Jones, Edwin K., to Universal Oil Products Co. Apparatus useful for liquid-liquid contacting. 2,900,238, 8-18-59, Cl. 23—270.5.
- Jones, Elizabeth: *See—*
- Jones, Forrest and E. 2,883,769.
- Jones, Elliott B.: *See—*
- Robell, John, Steinberg, and Jones. 2,878,103.
- Jones, Eric H., to The British Cotton Industry Research Association. Apparatus for the automatic regulation of the continuous application of specified amounts of solids or liquids to a moving sheet of material. 2,887,087, 5-19-59, Cl. 118—7.
- Jones, Ernest A., to Thompson Products, Inc. Wave-guide system. 2,881,398, 4-7-59, Cl. 333—21.
- Jones, Ernest O. Invalid's commode. 2,913,732, 11-24-59, Cl. 4—134.
- Jones, Evan, to Henry Valve Co., Inc. Thermostatic control valve. 2,872,154, 2-3-59, Cl. 251—133.
- Jones, Evan, to Henry Valve Co., Inc. Refrigerant drier. 2,873,856, 2-17-59, Cl. 210—291.
- Jones, Evan, to Henry Valve Co., Inc. Packless valve. 2,895,497, 7-21-59, Cl. 137—316.
- Jones, Evan, and J. A. Palcer, to Henry Valve Co., Inc. Method and apparatus for pressurizing driers. 2,897,642, 8-4-59, Cl. 53—7.
- Jones, Everett E., to Fairchild Engine and Airplane Corp. Articulated die. 2,868,264, 1-13-59, Cl. 153—51.
- Jones, Ewart R. H., H. B. Henbest, G. F. Woods, D. E. Hathway, and G. H. Thomas, to Glaxo Laboratories Ltd. 9-beta-hydrogen-11-keto steroids. 2,897,213, 7-28-59, Cl. 260—397.2.
- Jones, Ewart R. H., and H. B. Henbest, to Glaxo Laboratories Ltd. Process for the preparation of 9a-chloro- and 9a-bromo-11-oxo-5a-steroids. 2,910,471, 10-27-59, Cl. 260—239.55.
- Jones, Forest E. Paper cup handle. 2,868,434, 1-13-59, Cl. 229—52.
- Jones, Forrest F.: *See—*
- Schilling, John B., and Jones. 2,892,281.
- Jones, Forrest and E. Blackboard bench. 2,883,769, 4-28-59, Cl. 35—60.
- Jones, Frank D., to Deere & Co. Corn picker gathering chains. 2,882,669, 4-21-59, Cl. 56—111.
- Jones, Frank J.,  $\frac{1}{4}$  to H. D. Baker. Coal cutting and loading machine. 2,873,100, 2-10-59, Cl. 262—9.
- Jones, Frank K., and N. H. Holt. Tobacco stringer. 2,904,194, 9-15-59, Cl. 214—5.5.
- Jones, Frank O., Jr., to Pan American Petroleum Corp. Non-clay-reactive drilling fluid. 2,873,251, 2-10-59, Cl. 252—8.5.
- Jones, Giffin D.: *See—*
- Nummy, William R., and Jones. 2,873,239.



- Jones, Giffin D., to The Dow Chemical Co. Copolymers of acrylamide and vinyl aromatic sulfonates. 2,909,508, 10-20-59, Cl. 260—79.3.
- Jones, George L. Erecting means for gyro-verticals. 2,916,918, 12-15-59, Cl. 74—5.42.
- Jones, George R., J. C. Cacheris, and C. A. Morrison, to United States of America, Army. Magnetically tuned klystron. 2,897,455, 7-28-59, Cl. 332—7.
- Jones, George T., to General Motors Corp. Brake equalizing system. 2,912,072, 11-10-59, Cl. 188—204.
- Jones, George W. Dog muzzle. 2,891,504, 6-23-59, Cl. 119—130.
- Jones, George W., to James Mfg. Co. Conveyor. 2,907,445, 10-6-59, Cl. 198—85.
- Jones, Gordon F., to The Firestone Tire & Rubber Co. Foam rubber cushion. 2,874,758, 2-24-59, Cl. 155—178.
- Jones, Harold D. Sealing devices for use with rotary or oscillatory shafts. 2,877,994, 3-17-59, Cl. 259—99.
- Jones, Harry G.: *See—*  
Uhl, William H., and Jones. 2,888,873.
- Jones, Harry W., to Dempster Brothers, Inc. Container. 2,878,051, 3-17-59, Cl. 294—73.
- Jones, Harry W., and J. M. Radel, to Dempster Brothers, Inc. Building block loading and unloading equipment. 2,883,075, 4-21-59, Cl. 214—75.
- Jones, Henry E., to Chrysler Corp. Window regulator. 2,901,244, 8-25-59, Cl. 268—124.
- Jones, Herbert O., and A. A. Burgess, Jr., to United States of America, Navy. Sealed rotary control. 2,911,816, 11-10-59, Cl. 70—386.
- Jones, Herbert S., to Engineered Products, Inc. Concrete window frame and jalousie assembly. 2,878,667, 3-24-59, Cl. 72—98.
- Jones, Herbert S., G. M. Frisendaux, J. E. Petersen, and F. H. Shuffin. Mold for forming concrete frames. 2,908,063, 10-13-59, Cl. 25—118.
- Jones, Howard G.: *See—*  
Petri, Jan E., and Jones. 2,882,793.
- Jones, Howard S., Jr.: *See—*  
Heinard, Whilden G., and Jones. 2,898,559.
- Jones, Ira David, Jr. Device for pointing pencil leads. 2,895,453, 7-21-59, Cl. 120—92.
- Jones, Ira M.: *See—*  
Horsting, William F., Sr. 2,915,089.
- Jones, Jack, Sr. Attachment type rack for sewing machines. 2,899,763, 8-18-59, Cl. 40—125.
- Jones, James B., and K. H. Yocom, to Aeroprojects, Inc. Homogenizing method and apparatus. 2,917,386, 12-15-59, Cl. 99—63.
- Jones, James B., and W. C. Potthoff, to Aeroprojects, Inc. Method for applying metallic coatings. 2,895,845, 7-21-59, Cl. 117—8.
- Jones, James F., to A. O. Smith Corp. Closure sealing mechanism. 2,908,948, 10-20-59, Cl. 20—16.
- Jones, James M., to The Texas Co. Pressure measuring apparatus. 2,887,881, 5-26-59, Cl. 73—388.
- Jones, Jean E.: *See—*  
Carroll, Burt H., and Jones. 2,875,058.
- Jones, Jean E., and J. Spence, to Eastman Kodak Co. Green sensitization for photographic emulsions containing coupler dispersions. 2,912,329, 11-10-59, Cl. 96—100.
- Jones, Jean P., to Phillips Petroleum Co. Hydroperoxides of tertiary alkyl cyclohexenes. 2,899,469, 8-11-59, Cl. 260—610.
- Jones, Jennings H.: *See—*  
Fenske, Merrell R., and Jones. 2,872,472.
- Jones, Jennings H., and M. R. Fenske, to Esso Research and Engineering Co. Production of unsaturated cycloaliphatic compounds. 2,916,528, 12-8-59, Cl. 260—666.
- Jones, John C. Broom construction. 2,893,034, 7-7-59, Cl. 15—146.
- Jones, John D.: *See—*  
En Dean, Howard J., Jones, and Topanelian. 2,884,624.
- Jones, John F.: *See—*  
Craig, David, Jones, and Semegen. 2,905,649.
- Jones, John F., to The B. F. Goodrich Co. Stabilized hydrophilic polymers. 2,894,921, 7-14-59, Cl. 260—174.
- Jones, John L., Jr., and L. D. Anderson. Feedback amplifier for extending the useful frequency range of an accelerometer. 2,904,681, 9-15-59, Cl. 250—27.
- Jones, John P., to Burroughs Corp. Regenerative shift register. 2,876,438, 3-3-59, Cl. 340—174.
- Jones, John P., to Burroughs Corp. Noise immune read-out circuit. 2,912,680, 11-10-59, Cl. 340—174.
- Jones, John P., and A. J. Meyerhoff, to Burroughs Corp. One core per bit shift register. 2,911,626, 11-3-59, Cl. 340—174.
- Jones, John P., Jr., to Navigation Computer Corp. Regulated power supply. 2,878,440, 3-17-59, Cl. 323—22.
- Jones, John P., Jr., to Navigation Computer Corp. Semiconductor signal translating circuits. 2,897,378, 7-28-59, Cl. 307—88.5.
- Jones, John P., Jr., to Navigation Computer Corp. Shift register incorporating delay circuit. 2,906,892, 9-29-59, Cl. 307—88.5.
- Jones, John S.: *See—*  
Davies, David O., and Jones. 2,910,268.
- Jones, John W., and J. B. Dear. Separator plate. 2,904,325, 9-15-59, Cl. 263—47.
- Jones, Joseph W. Electric controller including a volume controlling resistance. 2,871,327, 1-27-59, Cl. 201—62.
- Jones, Kemper K. Extension operator for light switch. 2,919,334, 12-29-59, Cl. 200—172.
- Jones, Kenneth M., J. R. Marcus, and L. R. McClary, to Western Electric Co., Inc. Assembly fixture. 2,903,041, 9-8-59, Cl. 154—1.6.
- Jones, Kenneth N.: *See—*  
McConnell, George, and Jones. 2,889,376.
- Jones and Lamson Machine Co.: *See—*  
Goodrum, Richard B. 2,883,201.
- Jones & Laughlin Steel Corp.: *See—*  
Imhoff, Bernard H., and McCahan. 2,889,166.
- Jacquart, Herman. 2,890,906.
- Kerecman, Michael, and Braund. 2,909,272.
- Lindstrom, John A. 2,902,766.
- Shakely, Howard H. 2,907,083.
- Smith, Robert H. 2,909,474.
- Treder, Richard W., and Batz. 2,898,251.
- Van Ormer, Lawson. 2,897,698.
- Webster, Richard R. 2,919,346.
- Jones, Leo D., to The Sharples Corp. Processing of soap. 2,902,502, 9-1-59, Cl. 260—418.
- Jones, Lloyd A. Safety sand swabs. 2,918,880, 12-29-59, Cl. 103—225.
- Jones, Lloyd E., to Industrial Brush Co., Inc. Brush holder. 2,897,527, 8-4-59, Cl. 15—183.
- Jones, Lloyd E., to Industrial Brush Co., Inc. Brush means. 2,907,063, 10-6-59, Cl. 15—182.
- Jones, Lloyd R.: *See—*  
Taylor, Douglas E., Jones, and Mitchell. 2,870,264.
- Jones, Lloyd R., R. E. Freund, J. M. Raynor, and D. E. Taylor to Dictaphone Corp. Remote dictation system. 2,882,346, 4-14-59, Cl. 179—100.1.
- Jones, Loyd W.: *See—*  
Barrett, Jack P., and Jones. 2,889,276.
- Jones, Lucien N., J. G. Kelly, and O. T. Merwin, to The American Tobacco Co. Tobacco cooler. 2,882,910, 4-21-59, Cl. 131—135.
- Jones, Luther A.: *See—*  
Ham, Ralph A., and Jones. 2,875,533.
- Jones, Mack M.: *See—*  
Kolthoff, C. Paul, Jr., and Jones. 2,909,363.
- Jones, Marvin L., to Cabot Shops, Inc. Hydraulically operated pumping apparatus. 2,887,093, 5-19-59, Cl. 121—150.
- Jones, Paul E., and D. E. Perry, to Continental Can Co., Inc. Strand packaging method and means. 2,867,319, 1-6-59, Cl. 206—59.
- Jones, Paul R., to Collins Radio Co. Stabilized load. 2,901,208, 8-25-59, Cl. 248—346.
- Jones, Percy (Twinlock) Ltd.: *See—*  
Sewell, Frederick R. 2,877,773.
- Sewell, Frederick R. 2,896,247.
- Sewell, Frederick R. 2,910,069.
- Jones, Preston A., to Prescolite Mfg. Corp. Lighting fixture having resiliently mounted diffuser globe. 2,897,350, 7-28-59, Cl. 240—128.
- Jones, R. A., and Co., Inc.: *See—*  
Jones, Wickliffe. 2,878,919.
- Jones, Wickliffe. 2,903,833.
- Jones, Ralph E. Tie rack. 2,877,904, 3-17-59, Cl. 211—100.
- Jones, Ralph E. Slide fastener. 2,905,996, 9-29-59, Cl. 24—205.15.
- Jones, Rexford W., to Fort Wayne Corrugated Paper Co. Printing of corrugated board. 2,893,320, 7-7-59, Cl. 101—426.
- Jones, Richard E., to Pittsburgh Plate Glass Co. Refractory articles and compositions therefor. 2,880,098, 3-31-59, Cl. 106—68.
- Jones, Robert C.: *See—*  
Hewett, William A., Jones, and Lorensen. 2,895,915.
- Moore, Robert J., Ryder, and Jones. 2,913,412.
- Jones, Robert E., to Western Carbide Corp. Electric arc welding method. 2,896,063, 7-21-59, Cl. 219—73.
- Jones, Robert G. Automatic amalgamator. 2,879,042, 3-24-59, Cl. 259—2.
- Jones, Robert J.: *See—*  
Kircher, Charles E., Jr., and Jones. 2,912,470.
- Kircher, Charles E., Jr., Jones, and Kriz. 2,880,076.
- Jones, Robert T., to John T. Riddell Inc. Chin strap for helmet. 2,867,811, 1-13-59, Cl. 2—3.
- Jones, Rufus V., to Phillips Petroleum Co. Method for producing finely divided solid 1-olefin polymer. 2,870,113, 1-20-59, Cl. 260—34.2.
- Jones, Rufus V., to Phillips Petroleum Co. Hydraulic cements. 2,896,715, 7-28-59, Cl. 166—31.
- Jones, Russell J. Bite tray. 2,895,219, 7-21-59, Cl. 32—19.
- Jones, Sam A.: *See—*  
Regan, Thomas J., Jones, and Wasp. 2,880,745.
- Jones, Sam A., to Consolidation Coal Co. Method and apparatus for separating materials of different specific gravity. 2,877,896, 5-17-59, Cl. 209—172.5.
- Jones, Sam P., to J & S Carburetor Co. Pressure regulator. 2,879,793, 3-31-59, Cl. 137—494.
- Jones, Sam P. Regulator-vaporizer for a liquefied gas carburetion system. 2,896,658, 7-28-59, Cl. 137—340.
- Jones, Sam P., and R. F. Foster; said Jones assor. to J & S Carburetor Co. Automatic cutoff valve assembly. 2,889,688, 6-9-59, Cl. 62—55.
- Jones, Samuel O., to Newport News Shipbuilding and Dry Dock Co. Stud welding gun. 2,870,322, 1-20-59, Cl. 219—98.



- Jones, Samuel O., to Newport News Shipbuilding and Dry Dock Co. Stud welding gun. 2,915,617, 12-1-59, Cl. 219-98.
- Jones, Samuel P., to General Electric Co. Self-cleaning insulator for brush holder stud. 2,897,386, 7-23-59, Cl. 310-239.
- Jones, Shannon, to General Electric Co. Phosphor coating of improved adherence and preparation thereof. 2,905,572, 9-22-59, Cl. 117-33.5.
- Jones, Stanley B.: *See*—  
Baker, Paul E., and Jones. 2,883,548.
- Jones, Stanley B., to California Research Corp. Ocean bottom stratigraphy surveying. 2,872,638, 2-3-59, Cl. 324-1.
- Jones, Stanley B., to California Research Corp. Radioactive bore hole logging (beta ray detector). 2,888,569, 5-26-59, Cl. 250-71.
- Jones, Stanley B., and W. E. Meyerhoff, to California Research Corp. Nuclear spectroscopy well logging. 2,888,568, 5-26-59, Cl. 250-71.
- Jones, Stanley O., to Pressed Steel Co. Ltd. Plastic dies, jigs and the like. 2,895,224, 7-21-59, Cl. 33-174.
- Jones, Susie W. Steam curler and waving iron. 2,880,299, 3-31-59, Cl. 214-24.
- Jones, Thaddeus C.: *See*—  
Sunich, Albert R. 2,878,805.
- Jones, Thomas M., to Mitchell Engineering Ltd., and R. W. Webster & Co. Ltd. Conveyor mechanisms for use in sterilising or preserving conveyor. 2,893,536, 7-7-59, Cl. 193-31.
- Jones, Wallace M., and F. M. Cain, Jr., to Westinghouse Electric Corp. Electrode control. 2,875,368, 2-24-59, Cl. 314-74.
- Jones, Walter A., to E. Kendall. Closure operator and radio control apparatus. 2,869,860, 1-20-59, Cl. 263-59.
- Jones, Walter I., to United-Carr Fastener Corp. All plastic separable fastener of the press button type. 2,895,199, 7-21-59, Cl. 24-213.
- Jones, Walter O., to The Wean Engineering Co., Inc. Belt wrapper. 2,890,003, 6-9-59, Cl. 242-78.5.
- Jones, Wesley N., to Westinghouse Electric Corp. Transistor variable frequency oscillator employing an inductor with a core of variable permeability. 2,919,416, 12-29-59, Cl. 332-29.
- Jones, Wickliffe, to R. A. Jones and Co., Inc. Article metering apparatus. 2,878,919, 3-24-59, Cl. 198-34.
- Jones, Wickliffe, to R. A. Jones & Co., Inc. High speed carton closing and sealing apparatus. 2,903,833, 9-15-59, Cl. 53-375.
- Jones, Wilfred: *See*—  
Edmondson, William, and Jones. 2,915,061.
- Jones, William A.: *See*—  
Campbell, Alfred, and Jones. 2,915,527.
- Jones, William A., and J. F. Huff, to American Radiator & Standard Sanitary Corp. Pressure measuring means. 2,872,812, 2-10-59, Cl. 73-398.
- Jones, William D., to F. W. Berk & Co. Ltd. Manufacture of powders of copper and copper alloys. 2,870,485, 1-27-59, Cl. 18-47.3.
- Jones, William H., and H. Z. Martin, to Esso Research and Engineering Co. Fluid coking process. 2,895,904, 7-21-59, Cl. 208-127.
- Jones, William N. File cover support devices as used in filing systems. 2,893,398, 7-7-59, Cl. 129-16.7.
- Jongeneel, Albert M.: *See*—  
Huber, Henry, and Craven. 2,869,490.
- Jongepier, Hendrik S.: *See*—  
Janssen, Henricus J. H., Jongepier, and Waning. 2,876,494.
- Jonke, Albert A.: *See*—  
Lawroski, Stephen, Jonke, and Steunenberg. 2,907,630.
- Jonke, Albert A., J. E. A. Graae, and N. M. Levitz, to United States of America, Atomic Energy Commission. Multistage fluidized bed reactor. 2,911,290, 11-3-59, Cl. 23-284.
- Jonke, Joseph L., to Fairchild Camera and Instrument Corp. Electric pressure transducer. 2,886,679, 5-12-59, Cl. 201-48.
- Jonke, Richard, and J. Lintner. Process for injection-molding reinforced or stiffened parts in plastic material. 2,903,388, 9-8-59, Cl. 154-110.
- Jonker, Hendrik: *See*—  
De Jonge, Jelis, Jonker, Kuening, and Dippel. 2,868,643.
- Jonker, Johan L. H.: *See*—  
Van Doorn, Adriaan G., Groendijk, and Jonker. 2,890,376.
- Jonker, Johan L. H., and G. de Vries, to North American Philips Co., Inc. Tunable magnetron. 2,899,603, 8-11-59, Cl. 315-39.51.
- Jonkers, Cornelius O.: *See*—  
Van Meurs, Hubertus A., and Jonkers. 2,877,805.
- Jonkers, Cornelius O., to North American Philips Co., Inc. Heat exchanger. 2,899,381, 8-11-59, Cl. 62-6.
- Jonkers, Cornelius O., to North American Philips Co., Inc. Heat-exchanger in which a multi-component medium is cooled. 2,900,798, 8-25-59, Cl. 62-42.
- Jonkers, Cornelius O., and J. W. L. Köhler, to North American Philips Co., Inc. Gas liquefying apparatus. 2,872,789, 2-10-59, Cl. 62-6.
- Jonkers, Cornelius O., and J. W. L. Köhler, to North American Philips Co., Inc. System comprising a cold-gas refrigerator and a heat exchanger. 2,897,655, 8-4-59, Cl. 62-6.
- Jonkers, Johannes J. A.: *See*—  
De Rooy, Antonius J., and Jonkers. 2,874,449.
- Jonko, Francis J., and J. M. Reed. Work protecting switch for electric motors. 2,906,936, 9-29-59, Cl. 318-447.
- Jonovich, George J. Aircraft cable clamps. 2,897,563, 8-4-59, Cl. 24-126.
- Jöns, Kurt: *See*—  
Horn, Josef, and Jöns. 2,907,259.
- Jonsereds Fabrikers Aktiebolag: *See*—  
Hultström, Albert F. E. 2,913,026.
- Jonson, Henry C., to Aktiebolaget Valida Maskiner. Conveyors. 2,897,951, 8-4-59, Cl. 198-38.
- Jonsson, Einar. Torsion spring. 2,873,110, 2-10-59, Cl. 267-57.1.
- Jonsson, Gosta L., and K. G. Andersson. Downward discharge conveyor. 2,895,592, 7-21-59, Cl. 198-134.
- Jousson, John H.: *See*—  
Collin, Per H., Eftträng, and Jonsson. 2,885,317.
- Jonsson, Josef E., to Aktiebolaget Wicanders Korkfabriker Eskilstuna. Tool for making light metal caps. 2,884,886, 5-5-59, Cl. 113-42.
- Jonsson, Karl-Erik A.: *See*—  
Brundell, Per G., and Jonsson. 2,893,453.
- Brundell, Per G., and Jonsson. 2,903,028.
- Jonsson, Per G.: *See*—  
Nilsson, Nils E., Björk, Rodnert, and Jonsson. 2,909,607.
- Joormann, Hendrik J. M., and P. Zalm, to North American Philips Co., Inc. Electro-luminescent element. 2,911,553, 11-3-59, Cl. 313-108.
- Joosepson, Aser. Semi-automatic roto scaler. 2,889,612, 6-9-59, Cl. 29-81.
- Jonson, Howard B., to United States of America, Navy. Radio remote controller for aircraft. 2,894,236, 7-7-59, Cl. 338-116.
- Jordan, Arthur D., Jr., to Rohm & Haas Co. Aqueous composition comprising ammonium salt of maleamic acid/diisobutylene copolymer and linear additive polymer and article coated therewith. 2,901,453, 8-25-59, Cl. 260-29.6.
- Jordan, Arthur D., Jr., to Rohm & Haas Co. Process for making cellulose fibrous sheet. 2,910,399, 10-27-59, Cl. 162-166.
- Jordan, Arthur H., to Minneapolis-Honeywell Regulator Co. Relay for maintaining a constant ratio between a primary variable and a secondary variable in response to a tertiary variable. 2,888,940, 6-2-59, Cl. 137-82.
- Jordan, Charles F., and C. L. Faris. Journal box packing. 2,905,509, 9-22-59, Cl. 308-88.
- Jordan, Donald G.: *See*—  
Federgreen, Nathan, and Jordan. 2,900,078.
- Smolin, Edwin M., and Jordan. 2,917,560.
- Jordan, Donald G., to American Cyanamid Co. Apparatus for polymerizing vinyl monomers. 2,872,706, 2-10-59, Cl. 18-39.
- Jordan, Earl W., and W. R. Pierce, to Phillips Petroleum Co. Control of nitrogen in ammonia synthesis. 2,894,821, 7-14-59, Cl. 23-198.
- Jordan, Edmund F., Jr.: *See*—  
Port, William S., and Jordan. 2,876,895.
- Jordan, Edward J., to Goodmans Industries Ltd. Loud-speaker cabinets. 2,885,024, 5-5-59, Cl. 181-31.
- Jordan, Alfred A., and F. B. Lederer, Sr.; said Lederer assor. to said Jordan. Flux compositions and processes for soldering and metal coating. 2,880,125, 3-31-59, Cl. 148-23.
- Jordan, Alfred A., and F. B. Lederer, Sr.; said Lederer assor. to said Jordan. Fluxes for soldering and metal coating. 2,880,126, 3-31-59, Cl. 148-23.
- Jordan, Hans, to Given Machinery Co. Garbage disposal apparatus. 2,879,949, 3-31-59, Cl. 241-100.5.
- Jordan, Hans, to Given Machinery Co. Free swinging impeller for waste disposal apparatus. 2,912,176, 11-10-59, Cl. 241-194.
- Jordan, Harry B. Buoy construction. 2,882,536, 4-21-59, Cl. 9-8.
- Jordan, James D., to United States of America, Navy. Switch. 2,899,514, 8-11-59, Cl. 200-80.
- Jordan, James D., to United States of America, Navy. Centrifugal switch. 2,900,909, 8-25-59, Cl. 102-70.2.
- Jordan, James I., Jr., to Frontier Chemical Co., Division of Vulcan Materials Co. Manufacture of monochloroacetic acid. 2,917,542, 12-15-59, Cl. 260-539.
- Jordan, James M. Foot pump. 2,901,980, 9-1-59, Cl. 103-188.
- Jordan, John W.: *See*—  
Finlayson, Claude M., and Jordan. 2,871,190.
- Jordan, Joseph. Electrical trunk line and connector. 2,875,421, 2-24-59, Cl. 339-22.
- Jordan, Kenneth C.: *See*—  
Birden, John H., and Jordan. 2,913,510.
- Jordan, O. F., Co.: *See*—  
Shipley, Calvin W., and Hart. 2,906,041.
- Shipley, Calvin W., and McLean. 2,894,342.
- Jordan, Paul B., and J. W. Anthony, to General Electric Co. Incandescent lamp mount and method of manufacture. 2,910,611, 10-27-59, Cl. 313-279.
- Jordan, Richard H., to Barnes Mfg. Co. Single lever faucet. 2,870,790, 1-27-59, Cl. 137-625.12.
- Jordan, Richard H., and R. Andrews, to Barnes Mfg. Co. Single lever faucet with sliding valve member. 2,877,797, 3-17-59, Cl. 137-625.40.
- Jordan, Samuel C.: *See*—  
Lewis, Walter E., and Jordan. 2,883,507.



- Jordan, Samuel C., to General Electric Co. Thermostatic control system. 2,883,506, 4-21-59, Cl. 219-20.
- Jordan, Samuel C., to General Electric Co. Electric range. 2,900,480, 8-18-59, Cl. 219-20.
- Jordan, Terence B.: *See—*  
Dilworth, John P., Jordan, and Bengel. 2,886,525.
- Jordan, Terence B., J. P. Dilworth, and J. R. Roach, to The Texas Co. High dropping point lithium base greases. 2,872,417, 2-3-59, Cl. 252-42.1.
- Jordan, Walter, to Luther-Werke, Luther & Jordan. Suction device for the transfer of liquid from one container to another. 2,869,815, 1-20-59, Cl. 251-76.
- Jordan, Willard B., to Olin Mathieson Chemical Corp. Method for reducing growth of weeds. 2,910,353, 10-27-59, Cl. 71-2.3.
- Jordan, William E., Jr.: *See—*  
Pitman, Herbert J., Jordan, and Bright. 2,870,090.
- Jordan, William F., to Independent Die & Supply Co. Shoe stamping machine. 2,887,041, 5-19-59, Cl. 101-9.
- Jordan, William, 3d, to Curtiss-Wright Corp. Ratio meter blade pitch indicators. 2,898,551, 8-4-59, Cl. 324-62.
- Jordanoff, Assen, to Troco Sales Co. Container closure. 2,906,421, 9-29-59, Cl. 153-40.
- Jörg, Heinrich, and H. Fleissner, 1/2 to P. O. Tobeler, d.b. under the name of Trans-Oceanic. Ship drive and steering device. 2,884,889, 5-5-59, Cl. 115-14.
- Jorgensen, Bernhardt, to United Shoe Machinery Corp. Cement handling apparatus. 2,871,818, 2-3-59, Cl. 118-6.
- Jorgensen, Bernhardt, to United Shoe Machinery Corp. Controlling means for fluid operated machines. 2,877,627, 3-17-59, Cl. 60-97.
- Jorgensen, Bernhardt, to United Shoe Machinery Corp. Fastener driving devices. 2,896,231, 7-28-59, Cl. 12-12.2.
- Jorgensen, Clinton O., to Northrop Aircraft, Inc. Analogue divider. 2,877,948, 3-17-59, Cl. 235-61.
- Jorgensen, Earl R. Roller bearing construction. 2,889,180, 6-2-59, Cl. 308-6.
- Jorgensen, Gordon L. and I. A. Motor operated nut runner provided with magazine storage means. 2,868,053, 1-13-59, Cl. 81-57.
- Jorgensen, Irvin A.: *See—*  
Jorgensen, Gordon L. and I. A. 2,868,053.
- Jorgensen, Kristen, R. M. Williams, and L. S. Miller, to American-Marietta Co., Adhesive, Resin and Chemical Division. Material for and process of patching plywood sheets. 2,888,359, 5-26-59, Cl. 117-2.
- Jorgensen, Robert, to Buffalo Forge Co. Air conditioning units. 2,884,228, 4-28-59, Cl. 257-9.
- Jorgensen, Robert A., 1/2 to E. D. Farley. Stand and bracket. 2,914,283, 11-24-59, Cl. 248-125.
- Jorgenson, Gerald A., C. A. Kieffaber, and M. A. Stickelber, to Stickelber & Sons, Inc. Bakery goods making apparatus. 2,888,886, 6-2-59, Cl. 107-14.
- Jorgenson, Gerald A., C. A. Kieffaber, and M. A. Stickelber, to Stickelber & Sons, Inc. Bakery goods making method. 2,888,888, 6-2-59, Cl. 107-54.
- Jorgenson, Ralph J., to Pacific Coast Foil Co. Frozen food package. 2,878,128, 3-17-59, Cl. 99-192.
- Joris, George G.: *See—*  
Griffin, William D., and Joris. 2,882,322.
- Joris, George G., to Allied Chemical Corp. Processes for the purification of phenols. 2,910,511, 10-27-59, Cl. 260-62.1.
- Joris, George G., and L. C. Bostian, to Allied Chemical Corp. Removal of acidic impurities from crude phenolic products. 2,881,222, 4-7-59, Cl. 260-62.1.
- Jorn, Glenn L.: *See—*  
Zellinsky, Robert V., and Jorn. 2,913,098.
- Jörn, Raoul, to Metallummi G.m.b.H. Elastic wheels for vehicles. 2,900,001, 8-18-59, Cl. 152-49.
- Jorpes, Johan E., V. Mutt, S. Rastgeldi, and J. G. B. Linden, to Apoteksvarucentralen Vitrum Apotekareaktiebolaget. Alginic acid purification of insulin. 2,878,159, 3-17-59, Cl. 167-75.
- Josaitis, John J., to American Motors Corp. Refrigerating apparatus. 2,878,534, 3-24-59, Cl. 20-35.
- Josam Mfg. Co.: *See—*  
Jack, Fred C. 2,918,077.  
Manas, Vincent T. 2,901,754.  
Manas, Vincent T. 2,916,310.
- Joseloff, Stanley. Display. 2,913,840, 11-24-59, Cl. 40-28.1.
- Joseph, John L., and I. Dorfman, to Brrr Products Co., Inc. Folded blank structure for interlocking toy construction elements. 2,874,512, 2-24-59, Cl. 46-25.
- Joseph, Louis. Spring booster. 2,904,329, 9-15-59, Cl. 267-33.
- Joseph, Nicole M.: *See—*  
Jacob, Robert M., and Joseph. 2,916,493.
- Joseph, Pearl. Containers for cabinets. 2,893,806, 7-7-59, Cl. 312-249.
- Joseph, Perry R., S. Pakswar, and C. S. Szegho, to The Rauland Corp. Thermionic cathodes. 2,874,077, 2-17-59, Cl. 117-201.
- Joseph, Stanley M., to Stanthony Corp. Barbecue unit. 2,903,549, 9-8-59, Cl. 219-35.
- Joseph, William D.: *See—*  
Rockwell, Donald M., Keeley, and Joseph. 2,882,632.
- Josephson, Gilbert. Decorative article. 2,898,755, 8-11-59, Cl. 67-25.
- Josephson, Robert H., and C. B. Small, to Clevite Corp. Self-aligning bearing. 2,891,826, 6-23-59, Cl. 308-72.
- Josephson, Saul: *See—*  
Szasz, Emery. 2,894,402.
- Josephson, Vernal, and J. E. Hammel, to United States of America, Atomic Energy Commission. High energy gaseous plasma containment device. 2,868,991, 1-13-59, Cl. 250-84.5.
- Joslyn Mfg. & Supply Co.: *See—*  
Allen, William H. 2,908,122.  
Carlson, Donald E. 2,886,269.  
Huber, Ronald F. 2,906,922.  
Smalley, Burton M. 2,883,135.  
Smalley, Burton M. 2,883,136.  
Smalley, Burton M. 2,889,397.  
Smalley, Burton M. 2,906,379.  
Stanley, Alfred H. 2,909,590.  
Yonkers, Edward H., and Huber. 2,906,925.
- Jost Werke Josef Steingass G.m.b.H.: *See—*  
Georgi, Theodor. 2,910,306.
- Josutis, Willi. Flexible joints. 2,917,909, 12-22-59, Cl. 64-2.
- Jouchim, Raymond, to Societe Anonyme de Vehicules Industriels and d'Equipements Mechaniques (Saviem LRS). Machine tool. 2,890,628, 6-16-59, Cl. 90-11.
- Joublanc, Joseph C., to McGraw-Edison Co. Overload indicator for electrical apparatus. 2,886,805, 5-12-59, Cl. 340-253.
- Jouclard, Henri G. E. Internal combustion engines. 2,914,049, 11-24-59, Cl. 123-48.
- Joullie, Maurice, M. Laure, G. Maillard, and P. Muller, to Recherches et Propagande Scientifiques (Societe a Responsabilite Limitee). Process for the production of bis(chloromethyl) disulphide. 2,894,039, 7-7-59, Cl. 260-608.
- Jourdain, André P., to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. Expandable mandrel. 2,869,329, 1-20-59, Cl. 61-79.
- Jourdain, André P., to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. Grab-type tool for sinking wells in the ground. 2,879,974, 3-31-59, Cl. 255-65.
- Jourdain, Andre P., to Compagnie Internationale des Pieux Armes Frankignoul Societe Anonyme. Rotatable tool for sinking wells in the ground. 2,911,194, 11-3-59, Cl. 255-65.
- Journal Box Servicing Corp.: *See—*  
Potter, Thomas W. 2,897,018.  
Potter, Thomas W. 2,897,028.
- Jovanovich, Milton, M. W. Jumisco, and W. G. Jensen, to Ford Motor Co. Transmission shift control. 2,887,898, 5-26-59, Cl. 74-476.
- Jovanovich, Robert. Machine repair stand. 2,903,258, 9-8-59, Cl. 269-155.
- Jowitt, Hubert: *See—*  
Lacey, Richard N., and Jowitt. 2,904,596.
- Joy, Alden R.: *See—*  
Mucher, George J., and Joy. 2,906,984.
- Joy, Henry M., A. G. Horvath, and E. F. Steger, to Reliance Electric and Engineering Co. Electric motor. 2,911,548, 11-3-59, Cl. 310-77.
- Joy, Ivan L. Diode gating circuit. 2,900,503, 8-18-59, Cl. 250-27.
- Joy, Ivan L. Method and means for transmitting elastic waves. 2,913,602, 11-17-59, Cl. 310-8.3.
- Joy, Joseph F. Bed with invalid lift. 2,873,456, 2-17-59, Cl. 5-65.
- Joy, Joseph F. Bed with adjustable invalid lift. 2,873,457, 2-17-59, Cl. 5-83.
- Joy, Joseph F., to Joy Mfg. Co. Mobile conveyor apparatus for underground mines. 2,879,884, 3-31-59, Cl. 198-109.
- Joy, Joseph F., to Joy Mfg. Co. Apparatus for mine roof control. 2,899,800, 8-18-59, Cl. 61-45.
- Joy, Joseph F. Fishing reel and support therefor. 2,910,252, 10-27-59, Cl. 242-84.3.
- Joy, Joseph F., to Joy Mfg. Co. Continuous mining apparatus having core forming means and multiple core dislodging devices. 2,910,283, 10-27-59, Cl. 262-5.
- Joy, Kenneth E. Inflatable inclosure. 2,910,994, 11-3-59, Cl. 135-1.
- Joy Mfg. Co.: *See—*  
Abraham, Edward D. 2,880,842.  
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- Jumenko, Sergej. Table delicacy. 2,916,381, 12-8-59, Cl. 99-107.
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- Jung, Erlend V., to Aktiebolaget Landsverk. Screw presses. 2,912,923, 11-17-59, Cl. 100-117.
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- Jung, Jean-Pierre, to J. R. Geigy A.G. Monoazo dyestuffs. 2,909,516, 10-20-59, Cl. 260-196.
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- Jungermann, Eric, to Colgate-Palmolive Co. Novel higher aliphatic acid derivatives and compositions containing the same. 2,909,535, 10-20-59, Cl. 260-404.
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- Jungles, Robert N., to Cleveland Pneumatic Industries, Inc. Constant load metering device. 2,868,536, 1-13-59, Cl. 267-64.
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- Juraschek, Johann R.: See—
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- Juricek, Frank D. Pedal operated tuning control for a stringed instrument. 2,889,732, 6-9-59, Cl. 84-312.
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- Justason, Cameron E.: See—
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- Justice, Donald S. 2,867,097.
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- Justin, John S., Jr. Pre-molded box toe for boot. 2,878,597, 3-24-59, Cl. 36-77.
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- Justusson, William M.: See—
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- Kalleberg, Melvin O., to Minnesota Mining and Mfg. Co. Double-coated pressure-sensitive adhesive tape. 2,889,038, 6-2-59, Cl. 206-59.
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- Kammer, Karl. Implement for tying blood vessels. 2,898,915, 8-11-59, Cl. 128-326.
- Kammer, Karl. Devices for the gripping and ligaturing of the ends of tubular vessels. 2,898,916, 8-11-59, Cl. 128-328.
- Kammer, Karl. Thread for the production of knotted ligatures more especially for surgical purposes and particularly for the ligaturing of blood vessels during operations. 2,910,066, 10-27-59, Cl. 128-326.
- Kammerer, Leo P.: *See—*  
Haerther, Lester W., and Kammerer. 2,912,192.
- Kammritz, Arthur E. Apparatus and method for fitting struts to propeller shafts of boats and the like. 2,891,316, 6-23-59, Cl. 33-180.
- Kamp, Ewald A., and E. S. Wassel, to United States of America, Army. Drum actuating cam for revolver-type gun. 2,887,931, 5-26-59, Cl. 89-155.
- Kamp, Ewald A., and R. W. Roberts, to United States of America, Army. Recoilless gun for separate loading ammunition. 2,889,747, 6-9-59, Cl. 89-1.7.
- Kamp, Hans: *See—*  
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- Kamp, Hans, to Olympia Werke A. G. Typewriter carbon paper ribbon feeding device. 2,868,346, 1-13-59, Cl. 197-151.
- Kamp, Heinrich, to Buttner-Werke Akt. Apparatus for drying and simultaneously cooling white sugar coming from a drier. 2,869,249, 1-20-59, Cl. 34-65.
- Kamp, Johannes J. Ring modulator phase comparator. 2,905,896, 9-22-59, Cl. 324-87.
- Kamp, Johannes J., and J. L. Smals, to Foxboro Co. Amplifier for an induction flow meter. 2,887,878, 5-26-59, Cl. 73-194.
- Kamp, Leonard F.: *See—*  
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- Kampe, Dwight F., to Ford Motor Co. Soil working implement mounting. 2,905,255, 9-22-59, Cl. 172-441.
- Kampel, Everett. Line holding device for bricklaying. 2,893,125, 7-7-59, Cl. 33-85.
- Kampf, Friedrich, to Rosenkaimer G.m.b.H. Folding umbrella rib assembly. 2,889,841, 6-9-59, Cl. 135-25.
- Kampfer, Richard H. Conveyor feed control. 2,917,155, 12-15-59, Cl. 198-21.
- Kamphausen, Dan: *See—*  
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- Goldtrap, Charley L. 2,904,794.
- Kampmeier, Frederick J., to The Ingersoll Milling Machine Co. Guide construction. 2,890,083, 6-9-59, Cl. 308-6.
- Kampnagel Aktiengesellschaft: *See—*  
Lange, Heinrich. 2,912,123.
- Kamptner, Herbert: *See—*  
Krause, Walter, Krekeler, Wirtz, Kamptner, and Bachmann. 2,812,475.
- Kamrath, Herbert G.: *See—*  
Coates, Peter R., and Kamrath. 2,888,141.
- Kanamori, Kuro, K. Endo, K. Kodama, and M. Tokuhisa, to Yawata Seitetsu K.K. (Stock Co.) Method for controlling compositions of molten pig iron and slag in a blast furnace. 2,918,365, 12-22-59, Cl. 75-41.
- Kanda, Frank A., A. J. King, and C. C. Clark, to Olin Mathieson Chemical Corp. Preparation of diborane. 2,918,352, 12-22-59, Cl. 23-204.
- Kandle, Charles W. Spring loaded earth drill. 2,873,950, 2-17-59, Cl. 255-4.8.
- Kandle, Charles W. Method and apparatus for drilling large diameter holes. 2,912,225, 11-10-59, Cl. 255-1.8.
- Kandle, Charles W. Drill head for wing cutters. 2,912,228, 11-10-59, Cl. 255-76.
- Kandoian, Armig G., to International Telephone and Telegraph Corp. Antenna. 2,875,443, 2-24-59, Cl. 343-895.
- Kane, Alan H., to Haelan Laboratories, Inc., now by change of name to Connelly Containers, Inc. Dispenser for dispensing liquid by brush, swab or rod application. 2,887,708, 5-26-59, Cl. 15-136.
- Kane, Elizabeth B.: *See—*  
Blatz, Peter A. 2,909,008.
- Kane, Ernest M.: *See—*  
Johnson, Thomas H., Kane, and Tabor. 2,868,129.
- Kane, Florence: *See—*  
Wilkins, Lowell A., and Kane. 2,910,911.
- Kane, Frank A.: *See—*  
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- Kane, Frank A., Jr., and Frank A. Kane,  $\frac{1}{4}$  to G. F. Oberender and  $\frac{1}{4}$  to E. R. Posnack. Device for controlling the admission of fuel into internal combustion engines. 2,877,997, 3-17-59, Cl. 261-41.
- Kane, Gideon, deceased; S. Kane, administratrix. Drier for printed webs. 2,907,119, 10-6-59, Cl. 34-160.
- Kane, Henry S.: *See—*  
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- Kane, Isabelle M. Collapsible umbrella-type beach table. 2,905,513, 9-22-59, Cl. 311-17.
- Kane, James A.: *See—*  
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- Kane, John S.: *See*—  
Hill, Clifford W. and Kane. 2,906,854.  
Wojciak, Thaddeus J., Kane, and Stanchus. 2,876,334.
- Kane, Neil G.: *See*—  
Becker, August, and Kane. 2,896,412.
- Kane, Sylvena: *See*—  
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- Kane, Thomas C., to The Commercial Shearing and Stamping Co. Descaling apparatus. 2,900,703, 8-25-59, Cl. 29-81.
- Kane, Thomas C., to The Commercial Shearing and Stamping Co. Jet rings. 2,901,184, 8-25-59, Cl. 239-452.
- Kanegafuchi Ioseki Kabushiki Kaisha (Kanegafuchi Spinning Co., Ltd.): *See*—  
Urano, Yukio, and Hamahata. 2,886,940.
- Kang, Lawrence S. C. Planting machine. 2,890,665, 6-16-59, Cl. 111-3.
- Kangas, Charles H., to Phillips Petroleum Co. Automatic filter backwash system. 2,884,132, 4-28-59, Cl. 210-123.
- Kangas, Charles H., to Phillips Petroleum Co. Fluid seal for relatively rotating members. 2,908,521, 10-13-59, Cl. 288-16.
- Kango Electric Hammers Ltd.: *See*—  
Badcock, David N. 2,880,585.  
Powell, Harold W. 2,897,385.
- Kann, William L., to Steel Shot Producers, Inc. Induction melting furnace. 2,914,593, 11-24-59, Cl. 13-27.
- Kanne, William R., to United States of America, Atomic Energy Commission. Thermal couple for measuring temperature in a reactor. 2,914,594, 11-24-59, Cl. 136-4.
- Kannegiesser & Co. Maschinenfabrik G.m.b.H.: *See*—  
Kannegiesser, Karl H., and Juraschek. 2,898,020.
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- Kano, Hideo, H. Nishimura, K. Nakajima, and K. Ogata, to Shionogi & Co., Ltd. New sulfonamide and process for producing the same. 2,888,455, 5-26-59, Cl. 260-239.9.
- Kanolt, Clarence W., to Farrand Optical Co., Inc. Multifocal ophthalmic lenses. 2,878,721, 3-24-59, Cl. 88-54.
- Kanost, Harold S. Decorative type candle adapter. 2,888,816, 6-2-59, Cl. 67-23.
- Kanouse, Robert F. Anchor lifting and lower winch. 2,910,032, 10-27-59, Cl. 114-210.
- Kansas University Endowment Assn., The: *See*—  
Maloney, James O., and Teplitz. 2,898,388.
- Kant, Edwin S.: *See*—  
Alderman, Leon D., Cardani, Kant, and Kimball. 2,896,213.  
Crossen, William P., Hall, and Kant. 2,901,749.  
Hart, Fred V., and Kant. 2,879,526.
- Kant, Edwin S., to United Shoe Machinery Corp. Shoe unloading devices. 2,908,921, 10-20-59, Cl. 12-1.
- Kantebeen, Leonard J., to N. V. Centrale Suiker Maatschappij. Synthetic resin capable for binding organic atom complexes and process for preparing same. 2,875,160, 2-24-59, Cl. 260-21.
- Kanter, Jerome J., to Crane Co. Method of coating ferrous articles with magnesium and magnesium-base alloys. 2,912,346, 11-10-59, Cl. 117-51.
- Kanter, Jerome J., A. F. Lahr, and E. V. Havel, to Crane Co. Composite body of magnesium and steel, and method of making same. 2,911,710, 11-10-59, Cl. 29-497.5.
- Kantor, Norman H. Metering carton. 2,880,915, 4-7-59, Cl. 222-456.
- Kantor, Simon W.: *See*—  
Gilbert, Alfred R., and Kantor. 2,891,980.
- Kantor, Simon W., and A. R. Gilbert, to General Electric Co. Quaternary phosphonium compounds as polymerization catalysts for siloxanes. 2,883,366, 4-21-59, Cl. 260-46.5.
- Kanty, Charles L.: *See*—  
Drew, Stanley J., and Kanty. 2,898,823.
- Kanzelberger, Claude G.: *See*—  
Paulsen, Paul L., Hiers, and Kanzelberger. 2,899,772.
- Kao, John Y. L., to F. D. Farnam Co. Method for preparing a novel cork composition and products produced thereby. 2,884,060, 4-28-59, Cl. 162-169.
- Kao, Wilson S. Process for making photographic negative records and using the same for the production of three dimensional images. 2,891,339, 6-23-59, Cl. 41-25.
- Kapfer, Joseph A.: *See*—  
Baker, Howard E., and Kapfer. 2,913,845.
- Kapff, Sixt F., to Standard Oil Co. Hydrocarbon gas analyzer and method. 2,888,330, 5-26-59, Cl. 23-232.
- Kapff, Sixt F., to Standard Oil Co. Combustibles detector for gas chromatography. 2,901,329, 8-25-59, Cl. 23-255.
- Kapitula, John. Pistons. 2,918,337, 12-22-59, Cl. 309-4.
- Kaplan, Arthur M.: *See*—  
Rogers, Morris R., Kaplan, and Pillion. 2,887,262.  
Wilkins, James M. 2,880,753.
- Kaplan, Harry. Method of making a mold for casting a shoe last. 2,891,285, 6-23-59, Cl. 18-55.05.
- Kaplan, Henry, to Burroughs Corp. Pulse width modulator. 2,875,412, 2-24-59, Cl. 332-12.
- Kaplan, Jack, and F. T. Turner. Electro-mechanical resonant system. 2,872,578, 2-3-59, Cl. 250-36.
- Kaplan, Joseph. Raincoat. 2,897,507, 8-4-59, Cl. 2-87.
- Kaplan, Joseph. Twirling baton. 2,918,839, 12-29-59, Cl. 84-477.
- Kaplan, Julius. Sleeping-bag-tent construction. 2,907,056, 10-6-59, Cl. 5-343.
- Kaplan, Julius. Sleeping bag. 2,918,683, 12-29-59, Cl. 5-343.
- Kaplan, Leo I., to Poly Industries, Inc. Gas turbine jet engine starter with serially-connected concentrically-arranged combustion chambers. 2,914,918, 12-1-59, Cl. 60-39.17.
- Kaplan, Louis, to United States of America, Atomic Energy Commission. Solvent for extracting actinide salts. 2,910,442, 10-27-59, Cl. 252-364.
- Kaplan, Louis G.: *See*—  
Dreisin, Alexander, and Kaplan. 2,871,796.
- Kaplan, Martin, and D. E. Townsend, Jr., to Radio Corp. of America. Automatic programmed delivery system. 2,891,654, 6-23-59, Cl. 198-19.
- Kaplan, Mitzi. Cigarette carton. 2,867,368, 1-6-59, Cl. 229-17.
- Kaplan, Murray S. Coated fabric. 2,885,303, 5-5-59, Cl. 117-37.
- Kaplan, Philip D.: *See*—  
Godwin, Charles J., Hurowitz, Kaplan, Siegel, and Zebley. 2,896,314.
- Kaplan, Ruth. Liquid supply system for a weeping doll. 2,888,777, 6-2-59, Cl. 46-135.
- Kaplan, Shalom E., to The S. and F. Co. Foldable container. 2,894,708, 7-14-59, Cl. 248-99.
- Kaplon, Hilton C. Sludge digestion apparatus. 2,891,675, 6-23-59, Cl. 210-539.
- Kapp, Roland: *See*—  
Klein, Howard C., Di Salvo, and Kapp. 2,870,198.
- Kappa Trust: *See*—  
Kappeler, Gertrude C.: *See*—  
Kappeler, John A.,  $\frac{1}{2}$  to G. C. Kappeler. Cup holder. 2,875,966, 3-3-59, Cl. 248-1.
- Kappeler, Markus, and F. Frisch, to Sandoz A.G. Acid monoazo dyestuffs. 2,904,543, 9-15-59, Cl. 260-199.
- Kappelmann, Benjamin O. Cotton stripping machine. 2,903,835, 9-15-59, Cl. 56-33.
- Kappus, Peter G., to United States of America, Air Force. Supersonic variable throat nozzle. 2,880,576, 4-7-59, Cl. 60-35.6.
- Kaprelian, Edward K.: *See*—  
Castedello, William, and Kaprelian. 2,906,167.  
Castedello, William, Kaprelian, and Mayer. 2,905,050.
- Kaprelian, Edward K. Variable focal length lens system. 2,908,199, 10-13-59, Cl. 88-57.
- Karabats, Christopher, to Sanders Associates, Inc. Ceramic space-discharge tube. 2,887,605, 5-19-59, Cl. 313-244.
- Karabats, Christopher, and J. D. Le Van, to Sanders Associates, Inc. Modulator electron-discharge tube. 2,884,553, 4-28-59, Cl. 313-254.
- Karabin, Harry. Spring-biased shear joint. 2,898,678, 8-11-59, Cl. 30-269.
- Karal, Frank C., Jr.: *See*—  
Ely, John O., Summers, and Karal. 2,889,001.
- Karasek, Francis W., and R. J. Loyd, to Phillips Petroleum Co. Fluid blending. 2,879,140, 3-24-59, Cl. 23-232.
- Karasevich, John G. Dispenser for bobby-pins and the like. 2,874,703, 2-24-59, Cl. 132-1.
- Karassik, Igor J. Three-element feedwater control. 2,904,018, 9-15-59, Cl. 122-451.
- Karatzas, Alexander, and M. Hondropoulou. Process of lining the interior of a metal container with acid-resistant coating. 2,897,096, 7-28-59, Cl. 117-70.
- Karb, Enoch J.: *See*—  
MacLeod, David E., and Karb. 2,867,987.  
Luckhardt, Johannes. 2,870,821.
- Karbowiczek, Stanley W., to Honna Engineering Works. Reciprocating valve structure. 2,910,081, 10-27-59, Cl. 137-625.25.
- Karcher, Harry C., to General Motors Corp. Afterburner fuel injection system. 2,880,573, 4-7-59, Cl. 60-35.6.
- Karcher, Harry C., and O. T. Kreusser, to General Motors Corp. Augmented type afterburner for jet propelled aircraft. 2,882,679, 4-21-59, Cl. 60-35.6.
- Karcher, John C., and F. J. Allen, Jr., to Concho Petroleum Co. System for recovering uranium from its ores. 2,885,270, 5-5-59, Cl. 23-260.
- Kardas, Stanley J., to Water Resources Development Corp. Silver iodide generator. 2,917,464, 12-15-59, Cl. 252-359.
- Kardon, Stanley. Athletic shoe. 2,904,903, 9-22-59, Cl. 36-2.5.
- Kardorff, Leon, to Telecontrols-International, Inc. Device for filling electric battery cells. 2,899,481, 8-11-59, Cl. 136-162.
- Kardos, Otto: *See*—  
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- Kardos, Otto, and R. P. Neumann, to Hanson-Van Winkle-Munning Co. Electroplating duplex nickel coatings. 2,879,211, 3-24-59, Cl. 204-49.
- Kardys, Joseph A.: *See*—  
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- Karecki, Marion R.: *See*—  
Fisher, Daniel R., Jr., and Karecki. 2,867,711.
- Karelitz, Michael B.: *See*—  
Berthold, George H., Karelitz, and Mancib. 2,881,470.
- Karig, Erhardt, to Reimers-Getriebe K.G. Control mechanism for infinitely variable gear units. 2,909,072, 10-20-59, Cl. 74-230.17.
- Karig, Horace E. Jet driven torpedoes. 2,910,953, 11-3-59, Cl. 114-23.
- Karig, Horace E., to Waste King Corp. Dishwasher. 2,918,068, 12-22-59, Cl. 134-99.



- Karig, Horace E., and H. L. Smith, to Waste King Corp. Dishwasher door with air circulating means and moisture trap. 2,871,082, 1-27-59, Cl. 312-213.
- Karinen, Raymond S.: *See*—  
Bergsland, Charles H., James, Karinen, and Kwasniewski. 2,893,009.
- Karle, George P. Tail stock spindle. 2,889,731, 6-9-59, Cl. 82-31.
- Karlen, Harvey R., to Cory Corp. Hot water heater. 2,870,318, 1-20-59, Cl. 219-38.
- Karlen, Harvey R., and D. C. Eisdorath, to Cory Corp. Hot water dispenser. 2,869,760, 1-20-59, Cl. 222-76.
- Karlen, Robert P.: *See*—  
Akely, William S., and Karlen. 2,897,348.
- Karler, Arthur. Apparatus for electro-chromatographic separation. 2,875,144, 2-24-59, Cl. 204-299.
- Karler, Arthur, and L. F. Deckard; said Deckard assignor to said Karler. Means for controlling current density during continuous paper electrophoresis. 2,884,367, 4-28-59, Cl. 204-299.
- Karlet, Joseph G., and S. H. Tsiang, to Westinghouse Air Brake Co. Automatic control of railway classification yard switches. 2,910,578, 10-27-59, Cl. 246-2.
- Karlin, Anthony F., to Cleveland Pneumatic Industries, Inc. Actuator. 2,882,740, 4-21-59, Cl. 74-424.8.
- Karlinski, Robert M.: *See*—  
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- Karlinski, Theodore H. Floor level coupling for water closets. 2,908,513, 10-13-59, Cl. 285-58.
- Karll, Robert E.: *See*—  
Sabot, Albert R., and Karll. 2,875,189.
- Karlovsky, Jerry, to Goodman Mfg. Co. Boring type mining machine having pivotally mounted pusher plate wings. 2,885,196, 5-5-59, Cl. 262-7.
- Karlson, John C., to Bendix Aviation Corp. Compass system. 2,886,898, 5-19-59, Cl. 33-222.
- Karlson, John C., to Bendix Aviation Corp. Gyroscope. 2,897,676, 8-4-59, Cl. 74-5.41.
- Karlson, John C., to Bendix Aviation Corp. Demodulator. 2,898,462, 8-4-59, Cl. 250-31.
- Karlson, John E. Acoustic system. 2,896,736, 7-28-59, Cl. 181-30.
- Karlsruher, Gerald W., to Sylvania Electric Products, Inc. Mechanical drive and indicator. 2,909,067, 10-20-59, Cl. 74-10.9.
- Karlsson, Helge J., and S. S. Axelsson, to Aktiebolaget Bahco. Control valves for an appliance burning a gaseous fuel. 2,868,224, 1-13-59, Cl. 137-495.
- Karlsson, Hilmer, to The Air Preheater Corp. Pellet type heat exchanger. 2,911,198, 11-3-59, Cl. 257-55.
- Karlsson, Sven-Olof: *See*—  
Quistgaard, Erik V., and Karlsson. 2,912,874.
- Karlsson, Sven-Olof, and E. V. Quistgaard, to Aktiebolaget Volvo. Hydraulic change speed gearings. 2,905,025, 9-22-59, Cl. 74-677.
- Karmas, George, and R. A. Mallory, to Ortho Pharmaceutical Corp. Process of and composition for combating epilepsy. 2,883,392, 4-21-59, Cl. 260-310.
- Karmazin, John. Heat exchange device. 2,896,429, 7-28-59, Cl. 62-515.
- Karnahl, Friedrich H., to C. Kruse. Sheet folding machine with several folding devices. 2,912,238, 11-10-59, Cl. 270-81.
- Karnath, Günther: *See*—  
Karnath, Kurt, K. and G. 2,018,311.  
Karnath, Kürth, K.-J., and G. 2,894,763.
- Karnath, Klaus-Jürgen: *See*—  
Karnath, Kürth, K.-J., and G. 2,894,763.  
Karnath, Kurt, K. and G. 2,918,311.
- Karnath, Kurt, K. and G.; said K. and said G. Karnath, assors. to said Klaus-Jürgen Karnath. Trailer coupling with stationary coupling hook. 2,918,311, 12-22-59, Cl. 280-510.
- Karnath, Kürth, K.-J., and G.; said K. Karnath and said G. Karnath assors. to said K.-J. Karnath. Apparatus for disconnecting trailer service and mechanical couplings. 2,894,763, 7-14-59, Cl. 280-421.
- Karnbach, Hugo. Suspension filing system. 2,919,031, 12-20-59, Cl. 211-46.
- Karnes, Frank W. Taping tool. 2,912,851, 11-17-59, Cl. 72-136.
- Karney, John T.: *See*—  
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- Karney, Robert A.: *See*—  
McDaniel, Carter E., and J. T. and R. A. Karney. 2,890,082.
- Karoff Originals, Ltd.: *See*—  
Karoff, Robert B. 2,868,598.
- Karoff, Robert B., to Karoff Originals, Ltd. Handhold actuated foldable table. 2,868,598, 1-13-59, Cl. 311-62.
- Karolus, Roland: *See*—  
Buchmann, Gerhard, and Karolus. 2,872,532.
- Karos, Stephen: *See*—  
Jimcosky, Andrew, and Karos. 2,878,866.
- Karow, George F. Variable speed planetary gear transmission. 2,877,665, 3-17-59, Cl. 74-677.
- Karow, Kenneth A.: *See*—  
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- Karp, Arthur, and W. H. Yocom, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,882,438, 4-14-59, Cl. 315-3.5.
- Karp, David, H. Ham, J. Reckson, and W. Hoffman; said Ham, said Reckson and said Hoffman assors. to said Karp. Jewel mounting. 2,907,187, 10-6-59, Cl. 63-28.
- Karp, Sol: *See*—  
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- Karpel, William J.: *See*—  
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- Karpen, Edward W.: *See*—  
Close, Richard N., Karpen, Sard, and White. 2,917,737.
- Karpf, Nikolaus, to V. Linhof. Photographic camera. 2,909,110, 10-20-59, Cl. 95-44.
- Karpf, Nikolaus, to Valentin Linhof K.G. Camera with exchangeable back. 2,913,970, 11-24-59, Cl. 95-11.
- Karpiej, Chester, to Holley Carburetor Co. Fuel control for spark ignition internal combustion engines. 2,898,899, 8-11-59, Cl. 123-139.
- Karpiuk, Robert S., to The Dow Chemical Co. Recovery of chlorine. 2,881,054, 4-7-59, Cl. 23-219.
- Karpoff, David, to Mohasco Industries, Inc. Pile fabrics for floor covering use. 2,884,019, 4-28-59, Cl. 139-402.
- Karpoff, David, to Mohasco Industries, Inc. Pile fabric. 2,884,020, 4-28-59, Cl. 139-403.
- Karpoff, David, to Mohasco Industries, Inc. Method of weaving pile fabric floor coverings with pile containing loops and tufts. 2,899,985, 8-18-59, Cl. 139-39.
- Karpowicz, Benjamin, Jr., to Pak-Rapid, Inc. Method and apparatus for forming and sealing packages. 2,886,931, 5-19-59, Cl. 53-184.
- Karr, Clarence, Jr., to Gulf Research & Development Co. Separation process utilizing area partition chromatography. 2,912,426, 11-10-59, Cl. 260-96.5.
- Karr, Errol H., to Pennsalt Chemicals Corp. Electrolytic cell. 2,868,711, 1-13-59, Cl. 204-274.
- Karr, Michael B., and W. V. Binder for foundry sand molds and process of forming. 2,884,333, 4-28-59, Cl. 106-38.5.
- Karr, Nathaniel A.: *See*—  
Bernstein, Allan C. 2,881,365.
- Karr, Ralph J., to E. H. Sargent & Co. Automatic titrator circuit. 2,898,200, 8-4-59, Cl. 23-253.
- Karr, Theodore J.: *See*—  
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- Karr, William V.: *See*—  
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- Karraker, David G., to United States of America, Atomic Energy Commission. Polonium separation process. 2,894,817, 7-14-59, Cl. 23-102.
- Karrar, Sebastian: *See*—  
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- Karras, Jim V.: *See*—  
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- Karrer, Sebastian, to Minnesota Mining and Mfg. Co. Fluid heating and cooling apparatus. 2,910,836, 11-3-59, Cl. 62-3.
- Karry, Bert A. Attachment for fishing rods. 2,895,251, 7-21-59, Cl. 43-24.
- Karson, Jean: *See*—  
Cohen, Maurice, and Karson. 2,874,709.
- Karsted, Jessie W., and I. F. Sumner. Sound producer. 2,877,862, 3-17-59, Cl. 181-27.
- Karsten, Fred H., and J. E. Hill, to Chicago Aerial Industries, Inc. Arrangement for gyro-stabilized platform. 2,883,863, 4-28-59, Cl. 74-5.22.
- Karsten, Peter M.: *See*—  
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- Kartinos, Nicholas J., and W. W. Williams, to General Aniline & Film Corp. Fluorescent methine dyes. 2,914,551, 11-24-59, Cl. 260-465.
- Kartridg-Pak Machine Co.: *See*—  
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- Karwatt, Alvin F. and N. Rolling garbage can. 2,881,007, 4-7-59, Cl. 280-47.17.
- Karwatt, Nina: *See*—  
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- Karwkalits, Olin C., Jr. C. M. Vanderwaart, and F. H. Megson, to American Cyanamid Co. New catalyst for reducing nitrobenzene and the process of reducing nitrobenzene thereover. 2,891,094, 6-16-59, Cl. 260-580.
- Karwowska, Klara. Eyeglass wiper. 2,888,703, 6-2-59, Cl. 15-253.
- Kasak, Antonin J., to Bendix Aviation Corp. Extrusion nozzle. 2,875,728, 3-3-59, Cl. 118-410.
- Kascher, Henry M., to Eastman Kodak Co. Method for producing beads. 2,908,041, 10-13-59, Cl. 18-47.2.
- Kask, Paul J.: *See*—  
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- Kasmen, Edward J.: *See*—  
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- Kasminsky, Stanley G.: *See*—  
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- Kaspar, William F., 1/2 to J. C. Scoras. Handle. 2,895,757, 7-21-59, Cl. 287-98.
- Kasparson, Lennart A.: *See*—  
Comstock, George E., 3d, and Kasparson. 2,915,918.
- Kasper, Cass S. Automatic index table. 2,887,913, 5-26-59, Cl. 77-64.
- Kasper, Elmer J., to Royal Appliance Mfg. Co. Dolly for suction cleaner. 2,917,769, 12-22-59, Cl. 15-323.
- Kasper, Emil F., and J. Zoller, to The Singer Mfg. Co. Needle-jogging mechanisms for sewing machines. 2,887,967, 5-26-59, Cl. 112-158.



- Kasper, Louis, to Steel Heddle Mfg. Co. Expansion combs for textile machines. 2,890,516, 6-16-59, Cl. 28-55.
- Kass, Eric M., to Universal Leather Goods Co. Ltd. Mirror support. 2,878,725, 3-24-59, Cl. 88-97.
- Kass, Lawrence W., and P. D. Massey, to Grip Nut Co. Brake beam safety support. 2,880,826, 4-7-59, Cl. 188-210.
- Kass, Samuel M. Coffee mushroom. 2,882,811, 4-21-59, Cl. 99-312.
- Kass, Seymour, to Sperry Rand Corp. Tool. 2,906,013, 9-29-59, Cl. 29-278.
- Kass, Wilhelm: *See*—  
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- Kassel, Henry W.: *See*—  
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- Kassel, Louis S., and J. B. Pohlenz, to Universal Oil Products Co. Liquid-fluid contactor. 2,902,413, 9-1-59, Cl. 196-14.52.
- Kassick, Leonard R., to Grip Nut Co. Journal box lubricator. 2,909,395, 10-20-59, Cl. 308-88.
- Kassner, Donald E. Boot holder. 2,889,936, 6-9-59, Cl. 211-34.
- Kassner, Paul E. F., to North American Philips Co., Inc. Synchronous motor. 2,912,609, 11-10-59, Cl. 310-156.
- Kassner, Paul E. F., and F. C. W. Slooff, to North American Philips Co., Inc. Frequency converter. 2,878,439, 3-17-59, Cl. 321-63.
- Kast, George, W. E. Gilbert, and J. D. Scott, to Syntrol Co. Vibratory motor means having electronic constant amplitude feeder regulator. 2,885,617, 5-5-59, Cl. 318-128.
- Kastelic, Joseph: *See*—  
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- Kasten, Walter, to Bendix Aviation Corp. Filter element supporting plate and ferrule assembly. 2,872,044, 2-3-59, Cl. 210-323.
- Kastenbein, Ernest L.: *See*—  
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- Kästli, Leo. Process of puffing dry regenerated cellulose and cellulose acetate textile fibers by generating oxygen in situ and precipitating barium sulphate within the fibers. 2,913,769, 11-24-59, Cl. 18-48.
- Kastner, Donald E., to L. C. Thomson & Sons, Inc. Clamps. 2,897,569, 8-4-59, Cl. 24-279.
- Kastner, Edward C., to Akron Standard Mold Co. Reciprocating cutting with automatically interrupted feed. 2,895,550, 7-21-59, Cl. 164-48.
- Kastrup Maskinfabrik A/S: *See*—  
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- Kaszynski, Frank J., to J. S. Kamborian. Control valve for adhesive dispensing apparatus. 2,868,418, 1-13-59, Cl. 222-373.
- Kates, Charles, to Union Malleable Mfg. Co. Portable containers for pipe fittings and the like. 2,906,431, 9-29-59, Cl. 220-115.
- Kates, Rolf, to United States of America, Air Force. Photoelectric sine wave generator and system. 2,913,586, 11-17-59, Cl. 250-225.
- Kath, Alfred W., to R. P. Scherer Corp. Machine for making hard-shell gelatine capsules. 2,869,178, 1-20-59, Cl. 18-25.
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- Katon, Chris K. Mold and package for frozen confections. 2,890,122, 6-9-59, Cl. 99-180.
- Katshen, Bernard R.: *See*—  
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- Katterheinrich, Fred H.: *See*—  
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- Kattner, Wilbur T., to United States of America, Atomic Energy Commission. Separation of tin from alloys. 2,899,295, 8-11-59, Cl. 75-64.
- Katz, Aaron J. Container with collapsible tray. 2,886,229, 5-12-59, Cl. 229-1.5.
- Katz, Abraham, to Radio Corp. of America. Monitoring circuits. 2,904,781, 9-15-59, Cl. 340-174.
- Katz, Alex J.: *See*—  
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- Katz, Alex J., to Super Sagless Spring Corp. Mechanism for controlling the action of a retractable headrest extensible from a chair. 2,886,097, 5-12-59, Cl. 155-177.
- Katz, Alex J., to Super Sagless Spring Corp. Rocker lock mechanism. 2,907,373, 10-6-59, Cl. 155-72.
- Katz, Alexander. Modular construction kit. 2,904,927, 9-22-59, Cl. 46-19.
- Katz, David L., to United States of America, Army. Double expansion ball float gas system for a firearm. 2,872,851, 2-10-59, Cl. 89-193.
- Katz, Herman B. Clothes hanger. 2,872,088, 2-3-59, Cl. 223-91.
- Katz, Irving: *See*—  
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- Katz, Joseph J., and I. Sheft, to United States of America, Atomic Energy Commission. Method of preparing metal fluorides. 2,899,269, 8-11-59, Cl. 23-14.5.
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- Katz, Leon, A. Fuerst, and R. E. Brouillard, to General Aniline & Film Corp. Pigment dispersions. 2,907,670, 10-6-59, Cl. 106-308.
- Katz, Leon, D. W. Hein, J. E. Pretka, and R. S. Long, to American Cyanamid Co. Azo dyes from bis(p-aminophenyl) butadienes. 2,913,450, 11-17-59, Cl. 260-178.
- Katz, Louis. Grill accessory for electric toasters. 2,880,665, 4-7-59, Cl. 99-339.
- Katz, Manfred, to E. I. du Pont de Nemours and Co. Polyureas of aromatic diamines and aromatic diisocyanates. 2,888,438, 5-26-59, Cl. 260-77.5.
- Katz, Morris: *See*—  
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- Katz, Robert. Fluid pressure responsive door operator. 2,893,725, 7-7-59, Cl. 268-66.
- Katz, William E.: *See*—  
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- Katz, William J., to Chain Belt Co. Gas absorption apparatus. 2,888,091, 5-26-59, Cl. 183-2.
- Katz, William J., to Chain Belt Co. Grit washer. 2,906,401, 9-29-59, Cl. 209-159.
- Katzbeck, Walter J.: *See*—  
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- Katzenberg, Edgar M.: *See*—  
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- Katzenberger, Bernhard, to Brown, Boveri & Cie, Aktiengesellschaft. Sealed motor-compressor unit. 2,898,032, 8-4-59, Cl. 230-139.
- Katzin, Leonard I.: *See*—  
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- Katzin, Leonard I., R. G. Larson, R. C. Thompson, and Q. Van Winkle, to United States of America, Atomic Energy Commission. Method of preparing protactinium values. 2,887,355, 5-19-59, Cl. 23-14.5.
- Katzke, Ernest F., to Crane Packing Co. Method of and apparatus for lapping shoulders. 2,883,802, 4-28-59, Cl. 51-125.
- Katzman, Lawrence: *See*—  
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- Katzman, Max and L., M. L. Block, to Kaz Mfg. Co., Inc. Vaporizer carrier and stand. 2,886,793, 5-12-59, Cl. 339-58.
- Katzschmann, Ewald, to Chemische Werke Witten Gesellschaft mit beschränkter Haftung. Process of producing esters of phthalic acids by oxidation of xylene and toluic acid ester mixtures. 2,894,978, 7-14-59, Cl. 260-475.
- Kauder, Otto S., to Argus Chemical Corp. Process for the purification of organic solvents. 2,912,366, 11-10-59, Cl. 202-57.
- Kauer, James C., to E. I. du Pont de Nemours and Co. Metal complexes of azo diformate esters. 2,882,268, 4-14-59, Cl. 260-149.
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- Kauer, Kenneth C., and H. R. Slagh, to The Dow Chemical Co. O-biphenyl O,O-dialkyl phosphorothioates. 2,885,429, 5-5-59, Cl. 260-461.
- Kaufer, Helmut: *See*—  
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- Kauffman, Floyd L.: *See*—  
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- Kauffman, Floyd L., D. B. Van Dolah, and A. W. Sharp, to Swift & Co. Egg breaker and shell expresser. 2,898,961, 8-11-59, Cl. 146-2.
- Kauffman, Melvin R., and J. A. Dicken, Jr., to General Electric Co. Dishwasher with cover latching mechanism. 2,896,641, 7-28-59, Cl. 134-58.
- Kauffman, Robert C. Bath tub enclosure. 2,914,775, 12-1-59, Cl. 4-149.
- Kauffmann, William M.: *See*—  
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- Kauffmann, William M., to Worthington Corp. Internal combustion engine. 2,900,968, 8-25-59, Cl. 123-120.
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- Kaufman, Arthur W., and C. J. Votaw, to Bell Telephone Laboratories, Inc. Automatic teletypewriter station control system. 2,912,485, 11-10-59, Cl. 178-4.1.
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- Kaufman, David: *See*—  
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- Kaufman, Edwin N., to The Goldak Co. Bias control circuit. 2,867,735, 1-6-59, Cl. 307-88.5.
- Kaufman, George E., to The Hoover Co. Suction cleaner transport accessory. 2,876,479, 3-10-59, Cl. 15-323.



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- Kaufman, Harold B., Jr., and A. Weiss, to United States of America, Atomic Energy Commission. Reactor control device. 2,900,316, 8-18-59, Cl. 204-193.2.
- Kaufman, Harry E. Indicating means for use with plastering. 2,893,345, 7-7-59, Cl. 116-114.
- Kaufman, Herman, to Timely Novelty Corp. Friction tag holder. 2,918,742, 12-29-59, Cl. 40-23.
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- Kaufman, Paul. Analogue computer. 2,891,727, 6-23-59, Cl. 235-193.
- Kaufmann, Albert, to Scintilla Ltd. Power hand cutting tool. 2,914,099, 11-24-59, Cl. 143-68.
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- Kaufmann, Donald C., to United States of America, Army. Beam deflection. 2,885,596, 5-5-59, Cl. 315-24.
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- Kaufmann, John J., to Steel Heddle Mfg. Co. Loom harness. 2,905,204, 9-22-59, Cl. 139-92.
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- Kautz, George M., to Lauhoff Grain Co. Feeder construction. 2,898,052, 8-4-59, Cl. 241-84.
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- Kaye, Philip, and E. E. Tate, to L. R. Pellet. Diagonally retractable tooth brush. 2,908,928, 10-20-59, Cl. 15-184.
- Kaye, Robert K., to General Dynamics Corp. Telephone intercept system. 2,872,528, 2-3-59, Cl. 179-27.
- Kaye, Robert K., and W. W. Pharis, to General Dynamics Corp. Test connector circuit. 2,897,298, 7-28-59, Cl. 179-175.2.
- Kaye, Saul, to Ben Venue Laboratories, Inc. Non-inflammatory ethylene oxide sterilant. 2,891,838, 6-23-59, Cl. 21-58.
- Kayler, Frank H., to American Steel Foundries. Railway car connector. 2,908,402, 10-13-59, Cl. 213-75.
- Kaynee Co., The: *See*—  
 Kahn, Leon G. 2,893,012.
- Kayser, Bernard J., Jr. Alarm apparatus for motor vehicle operator. 2,875,430, 2-24-59, Cl. 340-279.
- Kayser, David L., to Union Carbide Corp. Leakage detector. 2,893,238, 7-7-59, Cl. 73-40.
- Kayser, Julius, & Co.: *See*—  
 Baker, Paul. 2,901,901.
- Kaysing, Carl C. Wire holder for flexible electric wires. 2,915,267, 12-1-59, Cl. 248-67.5.
- Kaz Mfg. Co., Inc.: *See*—  
 Katzman, Lawrence, Block, and Gershen. 2,885,750.  
 Katzman, Max and L., and Block. 2,886,793.
- Kazan, Benjamin: *See*—  
 Nicoll, Frederick H., and Kazan. 2,880,346.
- Kazan, Benjamin, to Radio Corp. of America. Electroluminescent device. 2,873,380, 2-10-59, Cl. 250-213.
- Kazan, Benjamin, to Radio Corp. of America. Photocell control apparatus. 2,875,348, 2-24-59, Cl. 250-206.
- Kazan, Benjamin, to Radio Corp. of America. Light controlled electrical circuit. 2,879,505, 3-24-59, Cl. 343-100.
- Kazan, Benjamin, to Radio Corp. of America. Stereoscopic X-ray intensification. 2,884,528, 4-28-59, Cl. 250-60.
- Kazan, Benjamin, to Radio Corp. of America. Picture producing devices. 2,884,566, 4-28-59, Cl. 315-169.
- Kazan, Benjamin, to Radio Corp. of America. Half-tone image production. 2,896,087, 7-21-59, Cl. 250-213.
- Kazan, Benjamin, to Radio Corp. of America. Electroluminescent device. 2,900,574, 8-18-59, Cl. 315-169.
- Kazan, Benjamin, to Radio Corp. of America. Light amplifying device. 2,905,830, 9-22-59, Cl. 250-213.
- Kazan, Benjamin, to Radio Corp. of America. Storage tube. 2,905,849, 9-22-59, Cl. 313-92.
- Kazan, Benjamin, to Radio Corp. of America. Electroluminescent device. 2,914,678, 11-24-59, Cl. 250-213.
- Kazan, Benjamin, to Radio Corp. of America. Electroluminescent device. 2,919,352, 12-29-59, Cl. 250-213.
- Kazeler, Herman H., to Phillips Petroleum Co. Hydraulic cements having an extended thickening time, and processes employing the same. 2,874,778, 2-24-59, Cl. 166-31.
- Kazenas, Zenon: *See*—  
 Webb, John M., and Kazenas. 2,886,869.
- Kazmierczak, Dyonizy. Rotary brush. 2,871,495, 2-3-59, Cl. 15-180.
- Kazmaier, Richard W., and G. Perry, to Libbey-Owens-Ford Glass Co. Shaping plastic sheets. 2,885,732, 5-12-59, Cl. 18-19.
- Kazmierzak, Julius J.: *See*—  
 Sherer, Albert L., and Kazmierzak. 2,902,044.
- Kazuk, Walter F., to Allen B. Du Mont Laboratories, Inc. Light source. 2,907,909, 10-6-59, Cl. 313-109.
- K'Burg, Robert T., to E. I. du Pont de Nemours & Co. Process for preparing symmetrical hexachlorodiphenyl urea. 2,878,284, 3-17-59, Cl. 260-553.
- K'Burg, Robert T., to E. I. du Pont de Nemours & Co. Process for preparing symmetrical hexachlorodiphenyl urea. 2,878,285, 3-17-59, Cl. 260-553.
- Keahy, Sammie G.: *See*—  
 Doolittle, Donald B., and Keahy. 2,906,475.
- Kealy, Thomas J., to E. I. du Pont de Nemours and Co. Method for preparing bicyclooctenones. 2,883,425, 4-21-59, Cl. 260-586.
- Kean, Clare H., deceased (by L. Kean, executrix), F. N. Tullos, and H. C. Hougen, to Jersey Production Research Co. Acoustic well logging apparatus. 2,894,597, 7-14-59, Cl. 181-5.
- Kean, Lucile: *See*—  
 Kean, Clare H., Tullos, and Hougen. 2,894,597.
- Kearby, Kenneth K.: *See*—  
 Kirshenbaum, Isidor, Kearby, and Ogorzaly. 2,884,371.
- Kearby, Kenneth K., to Esso Research and Engineering Co. Activated carbon-platinum-aluminum chloride hydroforming catalyst. 2,881,131, 4-7-59, Cl. 208-138.
- Kearby, Kenneth K., and I. Kirshenbaum, to Esso Research and Engineering Co. Hydrocracking of gas oils. 2,885,346, 5-5-59, Cl. 208-79.
- Kearby, Kenneth K., and G. R. Gilbert, to Esso Research and Engineering Co. Production of alumina. 2,893,837, 7-7-59, Cl. 23-142.
- Kearfott Co., Inc.: *See*—  
 Alvine, Samuel, Jr. 2,877,435.  
 Emerson, John F. 2,889,475.  
 Jenney, Alan M. 2,906,983.  
 Machlanski, Henry T. 2,896,868.
- Kearney, George W. Pipe aligning tool. 2,872,888, 2-10-59, Cl. 113-102.
- Kearney, James R., Corp.: *See*—  
 Gesellschaft, Robert A. 2,897,255.  
 Gesellschaft, Robert A. 2,901,573.  
 Ortwig, Thomas B. 2,879,348.
- Kearney, John F., and J. W. Soderberg, 1/4 to R. P. Strakos, and 1/4 to J. Malasky. Automatic proportional traffic control device. 2,892,995, 6-30-59, Cl. 340-31.
- Kearney, John R. Garment hanger. 2,903,169, 9-8-59, Cl. 223-88.
- Kearney, Joseph W., and W. H. Spencer, to Cutler-Hammer, Inc. Test apparatus. 2,868,978, 1-13-59, Cl. 250-36.
- Kearney, Thomas J.: *See*—  
 Jacke, Stanley E., Newsome, and Kearney. 2,900,038.
- Kearney, Thomas J., to Detrex Chemical Industries, Inc. Apparatus and method for fluid treatment of metallic slugs or the like. 2,894,484, 7-14-59, Cl. 118-58.
- Kearney, Thomas J., and E. J. McNamara, to Detrex Chemical Industries, Inc. Cleaning machines. 2,909,872, 10-27-59, Cl. 51-164.
- Kearney & Trecker Corp.: *See*—  
 Armitage, Joseph B., and Eserkahn. 2,914,992.  
 Armitage, Joseph B., and Flannery. 2,896,465.  
 Armitage, Joseph B., and Flannery. 2,908,178.  
 Davis, Jacob M., and Hochmuth. 2,903,569.  
 Hutchens, Morris L., Lenert, and Henderson. 2,900,849.  
 Hutchens, Morris L., Lenert, and Schalk. 2,867,154.  
 Riedel, Kurt A. 2,896,512.  
 Riedel, Kurt A. 2,908,204.  
 Schmidt, Alfred O. 2,884,838.  
 Sedgwick, Robert K. 2,911,662.  
 Senn, Jurg A., and H. R. Schlichting. 2,876,526.  
 Wetzel, Theodore A. 2,869,429.  
 Wetzel, Theodore A. 2,881,666.  
 Wetzel, Theodore A. 2,882,476.
- Kearney, William R., to General Motors Corp. Terminal board. 2,896,188, 7-21-59, Cl. 339-198.
- Kearns, Charles M., Jr., and W. H. Habicht, to United Aircraft Corp. Anti-vibrating solenoid valve. 2,868,494, 1-13-59, Cl. 251-64.
- Kearns, Veronica. Composite soles for the manufacture of custom made shoes. 2,884,718, 5-5-59, Cl. 36-30.
- Kearns, William J. L.: *See*—  
 Reilly, Park M., Lewis, and Kearns. 2,884,473.
- Kearns, William J. L., to Polymer Corp. Ltd. Hood. 2,888,333, 5-26-59, Cl. 23-288.
- Kearns, William J. L., to Polymer Corp. Ltd. Method of starting up a dehydrogenation process. 2,911,453, 11-3-59, Cl. 260-680.
- Kearse, Myra S. Pocket calendar device with punch means. 2,868,293, 1-13-59, Cl. 164-85.
- Kearse, George P., to Finney Mfg. Co. V. H. F. television antenna. 2,872,681, 2-3-59, Cl. 343-833.
- Keasbey & Mattison Co.: *See*—  
 Altemus, Daniel F., and Schneider. 2,871,031.  
 Ashman, Herbert W. 2,873,008.  
 Muehleck, Ernest, Kinney, and Lanz. 2,901,808.
- Keathley, Maurice F., Sr., and R. O. Manspeaker. Conveyor apparatus for foodstuffs. 2,880,850, 4-7-59, Cl. 198-185.
- Keating, Billy J. Letterpress hold-down wire. 2,916,286, 12-8-59, Cl. 271-89.
- Keating, Charles R., Jr., and M. Salak, to American Brake Shoe Co. Method of making railroad brake shoes. 2,902,752, 9-8-59, Cl. 29-407.
- Keating, David: *See*—  
 Lamberton, Clifford J., Christensen, and Keating. 2,878,455.
- Keating, Jerome V. Cigarette package. 2,904,169, 9-15-59, Cl. 206-41.
- Keating, John H., to Monarch Aluminum Mfg. Co. Method of melting aluminum ingots. 2,882,142, 4-14-59, Cl. 75-68.
- Keating, John H., to Monarch Aluminum Mfg. Co. Grinding and polishing machine. 2,896,378, 7-28-59, Cl. 51-145.
- Keating Mfg. Corp.: *See*—  
 Keating, Marion M. 2,900,712.



- Keating, Marion M., to Keating Mfg. Corp. Method of making sealed metallic containers. 2,900,712, 8-25-59, Cl. 29-422.
- Keating, Richard T. Toy igloo. 2,879,553, 3-31-59, Cl. 20-2.
- Keating, William T.: *See*—  
McKenney, Henry F., and Keating. 2,878,327.
- Keating, William T., and A. Richter, to Sperry-Rand Corp., Ford Instrument Co. Division. Device for determining liquid level and interface position. 2,911,828, 11-10-59, Cl. 73-290.
- Keblon, Earl R.: *See*—  
Lamb, Anthony H., and Keblon. 2,904,996.
- Kebrich, Leonard M., and A. W. Stroebel, to National Lead Co. Process for the manufacture of stabilizer-plasticizer compositions. 2,874,062, 2-17-59, Cl. 106-262.
- Kebrle, Jindrich: *See*—  
Hoffmann, Karl, and Kebrle. 2,875,212.
- Keck, Jack B., to Curtis Companies Inc. Cabinet construction. 2,874,015, 2-17-59, Cl. 312-263.
- Keck, Johannes, to Dr. Karl Thomae, G. m. b. H. Bifidogenic compositions. 2,872,382, 2-3-59, Cl. 195-100.
- Keck, Karl, to L. Schuler, A.G. Displaceable die holder for power press. 2,880,867, 4-7-59, Cl. 207-1.
- Keck, William J., to United States of America, Navy. Sustainer exhaust gas deflector. 2,871,658, 2-3-59, Cl. 60-35.6.
- Kee, Leland M., to Air Reduction Co., Inc. Welding rods and method of making same. 2,870,047, 1-20-59, Cl. 117-202.
- Keefe, Arthur. Insert for pneumatic tires. 2,910,106, 10-27-59, Cl. 152-363.
- Keefe, Bernard T. Educational apparatus for demonstrating gravitational effects. 2,913,834, 11-24-59, Cl. 35-19.
- Keefe, Frank J., Jr., to Farrington Mfg. Co. Armrest. 2,914,119, 11-24-59, Cl. 155-198.
- Keefe, Robert L., Jr., to E. I. du Pont de Nemours and Co. Process of cutting polyamide filaments. 2,887,155, 5-19-59, Cl. 164-17.
- Keefer, George E., to Owens-Illinois Glass Co. Apparatus for blanket charging glass batch in a glass furnace. 2,910,194, 10-27-59, Cl. 214-13.
- Keefer, George E., to Owens-Illinois Glass Co. Apparatus for blanket charging glass batch in a glass furnace. 2,910,196, 10-27-59, Cl. 214-13.2.
- Keefer, George E., to Owens-Illinois Glass Co. Method for blanket charging glass batch in a glass furnace. 2,910,199, 10-27-59, Cl. 214-152.
- Keefer, George E., to Owens-Illinois Glass Co. Bearing structure with gas-tight seal. 2,915,342, 12-1-59, Cl. 308-77.
- Keegan, Frank X.: *See*—  
Archer, Lee A., and Keegan. 2,882,509.
- Keegin, Curtis W. Vehicular signal system. 2,897,479, 7-28-59, Cl. 340-74.
- Keehn, Frank X. Wrecking bar. 2,910,271, 10-27-59, Cl. 254-129.
- Keehn, Robert D.: *See*—  
Couse, Kibbey W., and Keehn. 2,904,850.
- Keehn, George R., and J. G. Moorhead, to United States of America, Army. Setting mechanism. 2,881,634, 4-14-59, Cl. 74-479.
- Keehn-O Mfg. Co.: *See*—  
Keehn, Warner L. 2,879,081.
- Keehn, Robert D.: *See*—  
Couse, Kibbey W., and Keehn. 2,873,751.
- Keehn, Warner L., to Keehn-O Mfg. Co. Breakaway valve. 2,879,081, 3-24-59, Cl. 284-10.
- Keel, Adolf, to Vickers Inc. Servo control for power transmission. 2,870,746, 1-27-59, Cl. 121-41.
- Keelavite Co. Ltd., The: *See*—  
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- Reid, Eric W. 2,907,450.
- Keeler Brass Co.: *See*—  
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- Keeler, John R.: *See*—  
Saller, Henry A., and Keeler. 2,894,890.
- Keeler, Le Roy H.: *See*—  
Fonda, Jay C. 2,908,769.
- Keeler, William R., D. R. Douslin, and C. H. Deal, Jr., to Shell Development Co. Method for the recovery of hydrogen peroxide. 2,869,989, 1-20-59, Cl. 23-207.
- Keeler, George F., and L. A. Williams, Jr.; said Williams assor. to said Keeler. Dressing of abrasive tools. 2,905,605, 9-22-59, Cl. 204-143.
- Keeley, Armand E.: *See*—  
Rockwell, Donald M., Keeley, and Joseph. 2,882,632.
- Kee Lox Mfg. Co.: *See*—  
Harvey, Edmund N., Jr. 2,893,890.
- Keely, Clifford D.,  $\frac{1}{2}$  to R. J. Baisley. Machine for adhesively joining two surfaces. 2,898,816, 8-11-59, Cl. 93-36.
- Keely, Clifford D.,  $\frac{1}{2}$  to R. J. Baisley. Carton flap sealing machine. 2,898,820, 8-11-59, Cl. 93-49.
- Keely, Clifford D. Table tilt device for taper. 2,908,497, 10-13-59, Cl. 271-62.
- Keen, Clifford P. Wrestling helmet. 2,898,596, 8-11-59, Cl. 2-3.
- Keen, Everett M., and A. J. Siciliano, to Keen Mfg. Corp. Multiple nest structure for poultry. 2,892,447, 6-30-59, Cl. 119-45.
- Keen, Everett M., and A. J. Siciliano, to Keen Mfg. Corp. Supporting stand for feeder troughs and the like. 2,892,604, 6-30-59, Cl. 248-125.
- Keen, Harold H., to International Computers and Tabulators Ltd. Record controlled conveyor systems. 2,909,128, 10-20-59, Cl. 104-88.
- Keen Mfg. Corp.: *See*—  
Keen, Everett M., and Siciliano. 2,892,447.
- Keen, Everett M., and Siciliano. 2,892,604.
- Keen, William R., and E. J. Grajek, to Collins & Aikman Corp. Coated textile material and method of making same. 2,908,013, 10-13-59, Cl. 2-278.
- Keenan, John D., Jr.: *See*—  
Lewis, Frank M., Keenan, and Goldmann. 2,895,291.
- Sylvester, John D., Messmer, and Keenan. 2,913,875.
- Keene, Lee C.: *See*—  
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- Keene, Paul A.: *See*—  
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- Keene, Lester E., by T. Keene, executrix, to Underwood Corp. Carriage overbanking elimination. 2,897,942, 8-4-59, Cl. 197-63.
- Keene, Thelma: *See*—  
Keene, Lester E. 2,897,942.
- Keener, Dale M., to United States of America, Navy. Horizontal shock machine. 2,907,201, 10-6-59, Cl. 73-12.
- Keener, Howard N. Contact jaw assembly for electric welding. 2,900,489, 8-18-59, Cl. 219-136.
- Keener, Robert L. Right angle printed circuit connector. 2,910,628, 10-27-59, Cl. 317-101.
- Keepers, Harry R., to Browning Mfg. Co. Variable pitch sheave. 2,890,592, 6-16-59, Cl. 74-230.17.
- Keeprite Products Ltd.: *See*—  
Musson, Harry R. 2,874,550.
- Kees, George, Jr. Sub-level cutting tool. 2,876,777, 3-10-59, Cl. 128-304.
- Kees, George, Jr. Surgical instruments with drop lock. 2,876,778, 3-10-59, Cl. 128-346.
- Keese, Beverly W., to Rockwell Standard Corp. Tandem drive axle assembly with straight line through line drive connection. 2,870,853, 1-27-59, Cl. 180-22.
- Keese, Beverly W., to The Rockwell-Standard Corp. Tandem axle drive and lubricating means therefor. 2,870,854, 1-27-59, Cl. 180-22.
- Keese, Beverly W., and J. E. Williams, to Rockwell-Standard Corp. Vehicle drive mechanism. 2,915,920, 12-8-59, Cl. 74-701.
- Keesee, Roland R. Collapsible tube container and dispenser. 2,902,063, 9-1-59, Cl. 141-370.
- Keesling, Thomas B., to Canning Equipment Co. Fruit orientator, splitter and pitter. 2,918,098, 12-22-59, Cl. 146-28.
- Keesling, Thomas B., to Food Machinery and Chemical Corp. Feed mechanism. 2,889,911, 6-9-59, Cl. 198-26.
- Keevil, Henry W.: *See*—  
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- Kegerise, Wesley R., to The Carpenter Steel Co. Alloy steel. 2,891,859, 6-23-59, Cl. 75-128.
- Kegerise, Wesley R., and G. B. Heydt, to The Carpenter Steel Co. High temperature alloy steel. 2,875,042, 2-24-59, Cl. 75-126.
- Kegerise, Wesley R., and B. T. Lanphier, to The Carpenter Steel Co. Single phase austenitic alloy steel. 2,891,858, 6-23-59, Cl. 75-125.
- Kehaly, William J. Tunneling machine having a rotary cutting ring. 2,913,236, 11-17-59, Cl. 262-7.
- Kehe, Henry J.: *See*—  
Jansen, Jacob E., and Kehe. 2,877,209.
- Kehl, Lawrence J.: *See*—  
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- Kehler, Russell D., and A. R. Topfer, to Philco Corp. Improved apparatus for measuring punch-through voltage or a related quantity. 2,906,958, 9-29-59, Cl. 324-158.
- Kehler, Theodor K., to Hoerbiger & Co. Annular plate valve. 2,870,783, 1-27-59, Cl. 137-516.13.
- Kehm, Paul H., and W. F. Schultz, to General Motors Corp. Electric fuel pump system. 2,912,595, 11-10-59, Cl. 290-36.
- Kehoe, Ellsworth A.: *See*—  
Olson, Elmer, Kehoe, and Dermond. 2,899,951.
- Kehoe, John A. C.: *See*—  
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- Kehoe, Thomas J. Coffee makers. 2,868,110, 1-13-59, Cl. 99-299.
- Kehoe, William R., to American Meter Co., Inc. Gas pressure regulator. 2,898,928, 8-11-59, Cl. 137-80.
- Kehr, Abraham B., to Kehr Products Co. Compartmented package. 2,917,164, 12-15-59, Cl. 206-47.
- Kehr, Clifton L., to E. I. du Pont de Nemours and Co. Zinc halide complexes of 2-mercapto- and 2,2'-dithiobenzothiazole. 2,868,798, 1-13-59, Cl. 260-299.
- Kehr Products Co.: *See*—  
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- Kehrer, Charles F. Automatic sewing and handling machine. 2,874,659, 2-24-59, Cl. 112-10.
- Kehres, Joel L.: *See*—  
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- Kehrl, Howard H., to General Motors Corp. Clutch assembly. 2,885,047, 5-5-59, Cl. 192-68.
- Keicher, Georg: *See*—  
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- Keidel, Frederick A.: *See*—  
Flook, William M., Jr., and Keidel. 2,898,282.
- Keidel, Frederick A., to E. I. du Pont de Nemours and Co. Coulometric reagent generation. 2,900,317, 8-18-59, Cl. 204—195.
- Keighley, Lloyd M., to General Motors Corp. Ice block releaser and storage bucket. 2,903,865, 9-15-59, Cl. 62—344.
- Keightley, George M., to Jarvis Mfg., Inc. Automatic choke for shotguns. 2,867,932, 1-13-59, Cl. 42—79.
- Keil, Havard L.: *See*—  
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- Keil, Havard L., to Armour and Co. Method of preparing gelatin or glue. 2,908,615, 10-13-59, Cl. 195—6.
- Keil, Henry P., to The Fixture Hardware Corp. Combined moistening and contact pressure control for liquid process duplicating machines. 2,867,169, 1-6-59, Cl. 101—132.5.
- Keil, Joseph W., to Dow Corning Corp. Process of bonding polysiloxanes to a surface and the resulting product. 2,902,389, 9-1-59, Cl. 117—72.
- Keilig, Wolfgang, to Mix & Genest Akt. Marking device for edge-wise conveyor systems. 2,891,467, 6-23-59, Cl. 101—2.
- Keim, Gerald I., to Hercules Powder Co. Cationic-modified urea-formaldehyde resins. 2,884,407, 4-28-59, Cl. 260—67.5.
- Keim, Paul T., and R. C. Treseder, to General Motors Corp. Anti-skid hydraulic brake system. 2,869,687, 1-20-59, Cl. 188—181.
- Keimatsu, Katsutaro: *See*—  
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- Keinzle Apparate G. m. b. H.: *See*—  
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- Keir, Alexander J., and S. R. Hirsch, to Worthington Corp. Oil heating arrangement for rotary fluid compressor. 2,867,376, 1-6-59, Cl. 230—207.
- Keir, Alexander J., and M. S. Harvey, to Worthington Corp. Tool retainer for percussive tools. 2,911,224, 11-3-59, Cl. 279—19.5.
- Keir and Cawder Ltd.: *See*—  
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- Keirans, Joseph A., to Essex Wire Corp. Operating mechanism for electric switches. 2,892,059, 6-23-59, Cl. 200—105.
- Keiser, Rufus D.: *See*—  
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- Keiser, Russell W.: *See*—  
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- Keister, Robert G.: *See*—  
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- Keister, William, to Bell Telephone Laboratories, Inc. Automatic game-playing machine. 2,877,019, 3-10-59, Cl. 273—130.
- Keith, Arthur C.: *See*—  
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- Keith, Carl D.: *See*—  
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- Keith, Carl D., to Sinclair Refining Co. Alumina preparation. 2,894,915, 7-14-59, Cl. 252—463.
- Keith, Carl D., to Engelhard Industries, Inc. Process for preparing alumina trihydrate. 2,874,130, 2-17-59, Cl. 252—466.
- Keith, Carl D., to Sinclair Refining Co. Method for preparing aluminum hydrate compositions. 2,898,307, 8-4-59, Cl. 252—463.
- Keith, Carl D., to Sinclair Refining Co. Process for preparing a catalyst. 2,908,655, 10-13-59, Cl. 252—465.
- Keith, Carl D., to Engelhard Industries, Inc. Process of reforming gasoline with a platinum-on-alumina catalyst and method of preparing said catalyst composite. 2,909,481, 10-20-59, Cl. 208—138.
- Keith, Carl D., to Engelhard Industries, Inc. Method of preparing platinum-alumina catalyst. 2,914,485, 11-24-59, Cl. 252—441.
- Keith, Carl D., and A. P. Hael, to Engelhard Industries, Inc. Process for preparing alumina catalyst compositions. 2,867,588, 1-6-59, Cl. 252—466.
- Keith, Carl D., and B. Seligman, to Engelhard Industries, Inc. Calcination of macrosize alumina hydrate. 2,916,356, 12-8-59, Cl. 23—142.
- Keith, Donald G. Method of and apparatus for packaging flowable materials in thermoplastic sheet material. 2,898,714, 8-11-59, Cl. 53—30.
- Keith, George H.: *See*—  
Revere, Paul E., and Keith. 2,903,385.
- Keith, James V. Revolution indicating knob device. 2,901,998, 9-1-59, Cl. 116—115.
- Keith, John V., to Universal Winding Co. Winding machine and method of doffing and thread-in. 2,870,971, 1-27-59, Cl. 242—18.
- Keith, John V., and K. D. Kirkman, to Universal Winding Co. Two-for-one stop motion. 2,890,564, 6-16-59, Cl. 57—89.
- Keith, Percival C.: *See*—  
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- Keith, Percival C., to Hydrocarbon Research, Inc. Fluidized solids refluxing in hydrocarbon conversions. 2,885,342, 5-5-59, Cl. 208—59.
- Keith, Percival C., and F. Ringer, to Hydrocarbon Research, Inc. Coal hydrogenation. 2,885,337, 5-5-59, Cl. 208—8.
- Keith, Percival C., and H. N. Woebecke, to Hydrocarbon Research, Inc. Iron oxide reduction. 2,900,246, 8-18-59, Cl. 75—26.
- Keith, Ted W. Keyhole lighting fixture. 2,914,656, 11-24-59, Cl. 240—2.13.
- Keith, Wayland D.: *See*—  
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- Keith, Wayland D., and J. V. Hollowell; said Hollowell assor. to said Keith. Fluid coupled load braking apparatus. 2,883,013, 4-21-59, Cl. 192—2.
- Keith, Willis C., to Sinclair Refining Co. Thermal process for preparing butadiene from butene-2. 2,873,301, 2-10-59, Cl. 260—680.
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- Keizer, Eugene O., to Radio Corp. of America. Color television switching circuits. 2,873,406, 2-10-59, Cl. 315—26.
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- Kekenak, Charles, to General Steel Products Corp. Partition structures. 2,915,151, 12-1-59, Cl. 189—34.
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- Kelbel, Donald W., to Borg-Warner Corp. Valving controls. 2,877,668, 3-17-59, Cl. 74—788.
- Kelbel, Donald W., to Borg-Warner Corp. Transmission. 2,896,479, 7-28-59, Cl. 74—781.
- Kelchner, Harley E., to Burroughs Corp. Sheet feeding apparatus. 2,910,293, 10-27-59, Cl. 271—52.
- Kelco Co.: *See*—  
Gibson, Kenneth F. 2,918,375.  
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- Kelco Engineering Ltd.: *See*—  
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- Kelemen, Frank K., to KSM Products, Inc. Flux-charged arc welding studs. 2,885,228, 5-5-59, Cl. 287—20.2.
- Kelite Corp.: *See*—  
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- Kell, Waldo R., to Cen-Vi-Ro Pipe Corp. Anchor lug for pipe tension wire. 2,887,130, 5-19-59, Cl. 138—84.
- Kelleigh, Waldo J., to Electrical Apparatus Co., Inc. Clutch actuating device. 2,876,882, 3-10-59, Cl. 192—98.
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- Keller, Dan W., to Calumet Mfg. Co. Print washer. 2,877,700, 3-17-59, Cl. 95—97.
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- Keller, Herbert L., to The Vendo Co. Mechanism for discharging generally cylindrical articles from the bottom of a staggered stack thereof. 2,872,071, 2-3-59, Cl. 221—67.
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- Keller, John H., to General Motors Corp. Clutch operating mechanism. 2,882,744, 4-21-59, Cl. 74—512.
- Keller, Henry R. Circular lettering guide. 2,886,891, 5-19-59, Cl. 33—23.
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- Keller, Karl L. Precision parallel gauge. 2,867,909, 1-13-59, Cl. 33—162.
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- Keller, Robert R. Panel joints and panel joining devices. 2,888,112, 5-26-59, Cl. 189-36.
- Keller, Rudolf: *See*—
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- Zinke-Allmann, Leichte, Von Bank, and Keller. 2,905,598.
- Keller, Seymour P., to International Business Machines Corp. Low voltage indicator. 2,910,648, 10-27-59, Cl. 324-94.
- Keller, Wayne H.: *See*—
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- Keller, William J., to E. I. du Pont de Nemours and Co. Rosinate dispersing agents in chloroprene polymerization. 2,914,497, 11-24-59, Cl. 260-27.
- Keller, Wolfgang: *See*—
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- Rümmel, Theodor, Keller, and Quast. 2,913,561.
- Kellersman, Robert: *See*—
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- Kelley, Benjamin F. Hydraulic pipe tonging device. 2,871,743, 2-3-59, Cl. 81-53.
- Kelley, Carl S., to Phillips Petroleum Co. Heat exchanger which forms the sole fluid distribution means in a catalyst regenerator. 2,914,383, 11-24-59, Cl. 23-288.
- Kelley, Charles A.: *See*—
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- Kelley, Curtis P., to General Motors Corp. Refrigerating apparatus. 2,899,256, 8-11-59, Cl. 312-296.
- Kelley, Daniel J., and S. E. Lanham, to General Foods Corp. Coconut treating process and product. 2,917,745, 12-15-59, Cl. 99-125.
- Kelley, Everett J.: *See*—
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- Kelley, George B. Flexible conveyor. 2,880,847, 4-7-59, Cl. 198-109.
- Kelley, George G., to United States of America, Atomic Energy Commission. Multichannel analyzer. 2,912,577, 11-10-59, Cl. 250-27.
- Kelley, Gilbert A., to Surface Combustion Corp. Conditioning method and apparatus. 2,881,853, 4-14-59, Cl. 183-2.
- Kelley, Gilbert A., to Surface Combustion Corp. Air conditioning apparatus and method. 2,894,376, 7-14-59, Cl. 62-271.
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- Kelley, James H., and J. E. Eberhardt, to Bethlehem Steel Co. Coke gas and tar firing of open hearths. 2,891,609, 6-23-59, Cl. 158-117.5.
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- Kelly, John F.: *See*—
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- Kelley, John J. Protective covering for metals. 2,918,389, 12-22-59, Cl. 117-68.
- Kelley, Leon P. Safety hook. 2,872,717, 2-10-59, Cl. 24-232.
- Kelley, Maurice J.: *See*—
- Hunter, Joseph, Kelley, and Nothum. 2,918,428.
- Kelley, Oliver K., to General Motors Corp. Transmission control system. 2,875,643, 3-3-59, Cl. 74-645.
- Kelley, Oliver K., to General Motors Corp. Hydraulic torque converter. 2,882,684, 4-21-59, Cl. 60-54.
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- Kelley, Oliver K., to General Motors Corp. Plural step transmission. 2,884,813, 5-5-59, Cl. 74-754.
- Kelley, Oliver K. Automatic plural transmissions. 2,889,717, 6-9-59, Cl. 74-710.
- Kelley, Oliver K., to General Motors Corp. Transmission. 2,893,266, 7-7-59, Cl. 74-677.
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- Kelley, Oliver K., to General Motors Corp. Viscosimeter type governors. 2,906,518, 9-29-59, Cl. 264-14.
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- Kelley, Oliver K., to General Motors Corp. Reactor blade pitch control of a hydrodynamic torque converter. 2,911,786, 11-10-59, Cl. 60-12.
- Kelley, Oliver K., to General Motors Corp. Hydrodynamic system for liquid cooled friction brakes. 2,917,137, 12-15-59, Cl. 188-264.
- Kelley, Oliver K., G. K. Hause, and C. C. Wrigley, to General Motors Corp. Windshield cleaning apparatus. 2,882,545, 4-21-59, Cl. 15-250.4.
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- Kelley, Oliver K., G. K. Hause, and F. A. Swindell, to General Motors Corp. Reactor blade pitch of a hydrodynamic torque converter. 2,911,785, 11-10-59, Cl. 60-12.
- Kelley, Thomas H., to The Buckeye Cellulose Corp. Fatty acid recovery from soap stock. 2,877,249, 3-10-59, Cl. 260-418.
- Kelley, Walter A., and R. D. Mohler, to Motorola, Inc. Electronic horn. 2,910,688, 10-27-59, Cl. 340-384.
- Kelley, William B.: *See*—
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- Kelling, Leroy U. C., to General Electric Co. Follow-up control system. 2,870,386, 1-20-59, Cl. 318-30.
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- Kellinger, John. Game apparatus. 2,872,194, 2-3-59, Cl. 273-127.
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- Käll, Oscar E. 2,908,856.
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- Kellner, Jackson M., and J. M. Camp, to Jersey Production Research Co. Junk basket. 2,906,341, 9-29-59, Cl. 166-99.
- Kellner, Paul, and M. H. Block; said Block assor. to said Kellner. Body encircling garments. 2,914,070, 11-24-59, Cl. 128-558.
- Kellogg, Charles T., to Clemson Bros., Inc. Shuttle-pin clutch drive mechanism for lawn mowers. 2,905,294, 9-22-59, Cl. 192-46.
- Kellogg, Charles W. Gate valve. 2,891,762, 6-23-59, Cl. 251-327.
- Kellogg Co.: *See*—
- Raymer, Morris M., Sr., and Jenney. 2,888,155.
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- Wheeler, Will L., Hall, and Kellogg. 2,878,561.
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- Bednars, Charles, Smith, and Stanford. 2,881,128.
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- Burton, William P., Lefrancois, and Riblett. 2,888,307.
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- Copenhaver, John W., and Kwiatak. 2,882,310.
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- Davis, Horace R., and Brandon. 2,880,255.
- Davis, Horace R., and Sorensen. 2,870,163.
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- Degnen, William J. 2,919,240.
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- Dickinson, Norman L. 2,886,421.
- Diehl, Charles. 2,910,572.
- Frank, Wallace E., and Ohntrup. 2,870,427.
- Hanford, William E. 2,882,316.
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- King, Charles C. 2,890,256.
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- Kwiatak, Jack. 2,882,303.
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- Nathan, Marvin F. 2,899,284.
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- Osborne, John B. 2,919,244.
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- Owens, Robert M. 2,873,175.
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- Riblett, Earl W., Burton, Kaufman, and Lefrancois. 2,913,398.
- Rice, Louis F. 2,879,145.
- Rice, Louis F., Patton, Timson, and Partridge. 2,900,325.
- Rosshelm, David B. 2,901,592.
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- Schreiner, Warren C., and Walen. 2,912,301.
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 Ayers, David T., Jr. 2,876,627.  
 Ayers, David T., Jr. 2,877,873.  
 Ayers, David T., Jr. 2,883,971.  
 Ayers, David T., Jr. 2,896,586.  
 Ayers, David T., Jr. 2,900,563.  
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 Ayers, David T., Jr., and Hill. 2,896,584.  
 Barnes, William A. 2,888,614.  
 Barnes, William A. 2,889,622.  
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 Barnes, William A., and Zysk. 2,886,992.  
 Bauer, Albert. 2,885,781.  
 Clair, Verne, Jr. 2,894,322.  
 Dubilier, William. 2,894,321.  
 Hill, Edward G. 2,875,582.  
 Hill, Edward G. 2,876,044.  
 Hill, Edward G. 2,911,263.  
 Ingres, Jeannot G. 2,867,307.  
 Ingres, Jeannot G. 2,877,745.  
 Ingres, Jeannot G. 2,879,645.  
 Ingres, Jeannot G. 2,890,771.  
 Ingres, Jeannot G. 2,894,490.  
 Ingres, Jeannot G. 2,896,585.  
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 Ingres, Jeannot G. 2,905,151.  
 Ingres, Jeannot G. 2,905,152.  
 Ingres, Jeannot G. 2,910,048.  
 Rank, Travers L., and Wilderman. 2,882,775.  
 Ross, Elmer R. 2,887,183.  
 Rozmus, Walter J. 2,913,942.  
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 Schuster, Ludwig K., and Baldi. 2,911,332.  
 Sinclair, Charles W. 2,910,107.  
 Sinclair, Charles W., and Atkin. 2,911,028.  
 Sharpe, Frederick P. 2,915,164.  
 Sharpe, Frederick P. 2,917,100.  
 Stelzer, William. 2,883,830.  
 Stelzer, William. 2,883,831.  
 Stelzer, William. 2,883,970.  
 Stelzer, William. 2,913,877.  
 Stelzer, William, and Ayers. 2,879,747.  
 Stelzer, William, and Ayers. 2,918,041.  
 Whitten, Owen M. 2,884,291.  
 Whitten, Owen M. 2,911,004.  
 Kelsey-Hayes Co., Utica Drop Forge and Tool Division: *See*—  
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 Kelsey, James E. Artificial legs. 2,885,687, 5-12-59, Cl. 3-26.



- Kelsey, Lawrence C.: *See*—  
Kalmus, Henry P., and Kelsey. 2,918,583.
- Kelsey, Lawrence C., and S. H. Petry, to W. M. Welch Mfg. Co. Null indicating photometer. 2,868,995, 1-13-59, Cl. 250—210.
- Kelsey, William E.: *See*—  
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- Kelso, Robert G.: *See*—  
Hoaglin, Raymond L., Reid, and Kelso. 2,909,499.
- Kelson, John J., to The Torrington Co. Felting needle. 2,873,507, 2-17-59, Cl. 28—4.
- Kelter, Joseph J.: *See*—  
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- Keltner, Hugh R. Travelling lawn sprinkler. 2,905,392, 9-22-59, Cl. 239—183.
- Kelto, Rudolph E.: *See*—  
Heller, Herbert E., Kelto, Kuhn, and Rosing. 2,889,426.
- Kelto, Rudolph E., to Cutler-Hammer, Inc. Electromagnetic control device. 2,886,669, 5-12-59, Cl. 200—104.
- Kelton, Frank C., to Core Laboratories, Inc. Porosimeter and method of measuring porosity. 2,874,563, 2-24-59, Cl. 73—38.
- Kelton, Harold V.: *See*—  
Phelan, Louis A. M., and Kelton. 2,917,200.  
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- Kelver, William L., and A. M. Daily, to Chicago Telephone Supply Corp. Hermetically sealed variable resistor. 2,917,721, 12-15-59, Cl. 338—164.
- Kelvin & Hughes Ltd.: *See*—  
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Cullen, Graeme E., and Turner. 2,904,735.  
Griffiths, Francis M. 2,916,203.  
Phillips, Arthur C., and Myers. 2,896,447.  
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- Kemax Corp., The: *See*—  
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- Kemelhor, Robert E.: *See*—  
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- Kemeny, Janos: *See*—  
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- Kemlite Laboratories Inc.: *See*—  
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- Kemmerer, Ralph R., and L. A. Damasio, to Westinghouse Air Brake Co. Highway crossing protection control apparatus. 2,891,143, 6-16-59, Cl. 246—130.
- Kemnitz, Glen R.: *See*—  
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- Kemnitz, Warren N., to General Electric Co. Wheeled closure for tank type vacuum cleaner or the like. 2,914,333, 11-24-59, Cl. 280—5.
- Kemnitz, Warren N., to General Electric Co. Pipe coupling having a portion of the outer resilient tube in axial tension. 2,918,314, 12-22-59, Cl. 285—239.
- Kemp, C. M., Mfg. Co., The: *See*—  
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- Kemp, John: *See*—  
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- Kemp, Joseph W.: *See*—  
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- Kemp, Kenneth A. W., to C.A.V. Ltd. Liquid fuel pumps for internal combustion engines. 2,902,017, 9-1-59, Cl. 123—139.
- Kemp, Kenneth A. W., to C. A. V. Ltd. Liquid fuel injection pumps for internal combustion engines. 2,916,029, 12-8-59, Cl. 123—139.
- Kemp, Woodrow E., F. R. Charlton, and M. J. Waldron, to Koppers Co., Inc. Purification of naphthalene. 2,916,533, 12-8-59, Cl. 260—674.
- Kempen, Edward F., to The Don-It Co. Process of coating wood articles and article produced thereby. 2,875,093, 2-24-59, Cl. 117—67.
- Kempen, Edward F., to The Don-It Co. Process of finishing a wood core. 2,901,378, 8-25-59, Cl. 117—73.
- Kemper, Andries J.: *See*—  
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- Kemper, Charles R. Variable density article and method of making. 2,869,947, 1-20-59, Cl. 309—44.
- Kemper, James M.: *See*—  
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- Kempf, Walter R., to Hamilton Watch Co. Primary cell construction. 2,877,285, 3-10-59, Cl. 136—11.
- Kempton, Albert E.: *See*—  
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- Kempton, Marvin L., and E. J. Workman, to United States of America, Navy. Retardation device for the recovery of projectile components. 2,900,907, 8-25-59, Cl. 102—63.
- Kenaga, Eugene E., to The Dow Chemical Co. Fumigation with sulfurly fluoride. 2,875,127, 2-24-59, Cl. 167—39.
- Kenaston, Curtis. Toilet flush valve. 2,905,950, 9-29-59, Cl. 4—57.
- Kenco Chemical Co.: *See*—  
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- Kenco Products Corp.: *See*—  
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- Kendall, Alonzo B.: *See*—  
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- Kendall, Charles O., to Becton, Dickinson and Co. Syringe assembly. 2,880,725, 4-7-59, Cl. 128—218.
- Kendall, Charles O., to Becton, Dickinson and Co. Syringe assembly. 2,887,108, 5-19-59, Cl. 128—218.
- Kendall, Charles O., G. Powell, and S. S. Friedman. Package and packaged article. 2,893,546, 7-7-59, Cl. 206—45.34.
- Kendall Co., The: *See*—  
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Marshall, Preston F. 2,909,003.  
Mott, Carl W. 2,887,767.  
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- Kendall, Edgar H.: *See*—  
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Morris, James F. 2,879,547.
- Kendall, Edgar H., to Heppenstall Co. Tongs. 2,897,990, 8-4-59, Cl. 214—658.
- Kendall, Edgar H. Vibratory conveyor sand seals for pusher type furnaces. 2,917,298, 12-15-59, Cl. 263—28.
- Kendall, Edgar H., H. Terhune, and D. L. Lombard, 1/2 interest to each, Lombard Corp., and E. H. Kendall, d.b.a. Kendall Engineering Co. Counter-blow forging hammer. 2,914,971, 12-1-59, Cl. 78—42.
- Kendall, Edythe: *See*—  
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- Kendall, Edythe. Bathing suit and brassiere or like combination of wearing apparel. 2,880,731, 4-7-59, Cl. 128—454.
- Kendall Engineering Co.: *See*—  
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- Kendall, Frederick W. Turret lathes. 2,907,098, 10-6-59, Cl. 29—44.
- Kendall, George A., and J. S. Ross, to Wickes Machine Tool Division of The Wickes Corp. Center drive boring machine. 2,867,138, 1-6-59, Cl. 77—3.
- Kendall, George A., and N. E. Hess, to Wickes Machine Tool, Division of The Wickes Corp. Workpiece handling apparatus for center drive crankshaft lathes. 2,918,180, 12-22-59, Cl. 212—128.
- Kendall, Hugh C., to General Railway Signal Co. Speed measuring apparatus. 2,907,022, 9-29-59, Cl. 343—8.
- Kendall, James M. Analog to digital converter. 2,867,796, 1-6-59, Cl. 340—347.
- Kendall, James W.: *See*—  
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- Kendall, Myron A., and A. D. Sinden, to Stephens-Adamson Mfg. Co. System of passenger transportation. 2,905,100, 9-22-59, Cl. 104—25.
- Kendall Refining Co.: *See*—  
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- Kendall, Roy C., to Owens-Corning Fiberglas Corp. Insulating joint construction. 2,915,795, 12-8-59, Cl. 20—92.
- Kendall, Thomas L., and G. A. Rowls, to General Motors Corp. Storage battery. 2,890,262, 6-9-59, Cl. 136—170.
- Kendall, Willard E., to Cribben and Sexton Co. Incinerator. 2,905,115, 9-22-59, Cl. 110—8.
- Kendick Mfg. Co., Inc.: *See*—  
Bugg, Kenly C. 2,872,652.  
Bugg, Kenly C. 2,885,646.  
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Bugg, Kenly C. 2,904,745.  
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- Kendig, Robert M., to Westinghouse Air Brake Co. Emergency braking system for automotive vehicles. 2,876,045, 3-3-59, Cl. 303—63.
- Kendig, Robert M., to Westinghouse Air Brake Co. Fluid pressure operated flow control valve device. 2,883,144, 4-21-59, Cl. 251—58.
- Kendon Development Ltd.: *See*—  
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- Kendon, Owen M., to Kendon Development Ltd. Commercial water heater. 2,894,109, 7-7-59, Cl. 219—38.
- Kendrick, John S., to Raytheon Mfg. Co. Cabinets for electronic equipment. 2,893,000, 6-30-59, Cl. 340—367.
- Kendrick, Laurence W. Adhesive label dispenser. 2,883,044, 4-21-59, Cl. 206—56.
- Kenmore, Herbert, to National-Standard Co. Electrical communication wire. 2,918,722, 12-29-59, Cl. 29—183.5.
- Kenn Equipment Co.: *See*—  
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- Kennametal Inc.: *See*—  
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- Kennard, Dwight C., Jr. Vibrometer. 2,906,117, 9-29-59, Cl. 73—70.2.
- Kennard, Kenneth F. Sprinkling devices. 2,877,053, 3-10-59, Cl. 299—71.
- Kennatrack Corp.: *See*—  
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- Kennaugh, Edward M., to The Ohio State University Research Foundation. Dielectric reflector. 2,872,675, 2-3-59, Cl. 343—18.
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Last, Arthur W., and Marquardson. 2,875,896.  
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- Kenneday, John W.: *See*—  
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Dublin, James R., III, Kenneday, and O'Reilly. 2,911,048.
- Tausch, Gilbert H., Corley, and Kenneday. 2,888,080.  
Tausch, Gilbert H., Corley, and Kenneday. 2,894,588.  
Tausch, Gilbert H., and Kenneday. 2,906,345.



- Kenneday, John W., and J. R. Dublin, III, to Jersey Production Research Co. Seating member for well tools, 2,897,896, 8-4-59, Cl. 166—134.
- Kennedy, Absalom M., and J. M. Jernigan. Process and apparatus for electrolytically treating black liquor. 2,903,604, 9-22-59, Cl. 204—56.
- Kennedy, Anthony, Jr., L. J. Adams, H. L. Kirby, and G. J. Steinbronn, to John B. Stetson Co. Hat felting machine. 2,892,242, 6-30-59, Cl. 28—8.
- Kennedy, Bert S.: *See—*
- Kennedy, Robert E. 2,877,455.
- Kennedy, Charles J., to F. L. Moseley Co. Servo system. 2,881,375, 4-7-59, Cl. 318—28.
- Kennedy, Daniel T., and F. E. Heiberger, to Danly Machine Specialties, Inc. Servosystem adapted for die-forming press slide positioning. 2,889,507, 6-2-59, Cl. 318—29.
- Kennedy, Donald S. Self-sustaining building unit and wall. 2,918,151, 12-22-59, Cl. 189—34.
- Kennedy, Ernest N. Change key lock. 2,895,323, 7-21-59, Cl. 70—383.
- Kennedy, Frank J., to H. K. Porter Co., Inc. Header duct with outlet for cellular flooring. 2,894,534, 7-14-59, Cl. 138—48.
- Kennedy, Frank J., to H. K. Porter Co., Inc. Metal thread protector. 2,898,943, 8-11-59, Cl. 138—96.
- Kennedy, Frank J., to H. K. Porter Co., Inc. Floor tap for electric header duct system. 2,909,915, 10-27-59, Cl. 72—16.
- Kennedy, Harold T. Impact tools operated by compressible pressure fluid. 2,897,782, 8-4-59, Cl. 121—30.
- Kennedy, Herbert J.: *See—*
- Adams, John J., and Kennedy. 2,867,332.
- Kennedy, Jack H.: *See—*
- Farnsworth, Walter M., and Kennedy. 2,913,786.
- Kennedy, Jack W., and J. A. Ransom. Detachable safety guard for bathing table. 2,869,949, 1-20-59, Cl. 311—103.
- Kennedy, John, to United States of America, Atomic Energy Commission. Ion exchange substances by saponification of allyl phosphate polymers. 2,882,248, 4-14-59, Cl. 260—22.
- Kennedy, John H. Synthetic carpeting. 2,876,128, 3-3-59, Cl. 117—33.
- Kennedy, John L., R. C. Travis, and B. Wellman. Alertness indicator. 2,902,030, 9-1-59, Cl. 128—21.
- Kennedy, Joseph W.: *See—*
- Segre, Emilio, Kennedy, and Seaborg. 2,908,621.
- Kennedy, Leo. Beverage dispenser. 2,872,078, 2-3-59, Cl. 222—131.
- Kennedy, Paul B.: *See—*
- Ashbaugh, Fred E., and Kennedy. 2,897,461.
- Kennedy, Richard H., to United States of America, Atomic Energy Commission. Elution of uranium values from ion exchange resins. 2,914,378, 11-24-59, Cl. 23—14.5.
- Kennedy, Richard R.: *See—*
- Genter, Albert L., and R. R. and R. M. Kennedy. 2,893,957.
- Kennedy, Richard T., to Ekco Products Co. Pusher member assembly for strip type vegetable cutters. 2,911,023, 11-3-59, Cl. 146—169.
- Kennedy, Robert E., 40% to B. S. Kennedy. Speed indicator alarm system. 2,877,455, 3-10-59, Cl. 340—266.
- Kennedy, Robert M.: *See—*
- Donnell, Conrad K., Kennedy, and Schneider. 2,890,994.
- Genter, Albert L., and R. R. and R. M. Kennedy. 2,893,957.
- Kennedy, Robert M., to Sun Oil Co. Process of catalytic cracking with a siliceous catalyst containing lithium hydroxide. 2,891,904, 6-23-59, Cl. 208—118.
- Kennedy, Robert M., and J. L. Jezl, to Sun Oil Co. Polymerization of propylene using a three component catalyst containing solid metal halides and aluminum. 2,918,507, 12-22-59, Cl. 260—683.15.
- Kennedy, Ted, Jr. Casing spacer. 2,890,724, 6-16-59, Cl. 138—65.
- Kennedy, Thomas J.: *See—*
- Reynolds, William B., Wicklatz, and Kennedy. 2,908,665.
- Reynolds, William B., Wicklatz, and Kennedy. 2,908,668.
- Kennedy, Thomas J., and J. L. Holst, to Phillips Petroleum Co. Blend of butadiene-styrene copolymer and butadiene-unsaturated heterocyclic nitrogen base copolymer and method of producing the cured product thereof. 2,893,971, 7-7-59, Cl. 260—45.5.
- Kennedy Van Saun Mfg. & Eng. Corp.: *See—*
- Allen, Alan R. 2,888,324.
- Caldwell, Lawrence G. 2,907,606.
- Ferguson, Lester R. 2,899,246.
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- Kennedy, Wallace M.: *See—*
- Fisher, Walter S., and Kennedy. 2,886,022.
- Kennedy, Walter I. Disposable separable lock for safety pins. 2,895,196, 7-21-59, Cl. 24—156.
- Kennedy, Walter W., to Barber-Colman Co. Air distribution unit. 2,872,859, 2-10-59, Cl. 98—38.
- Kennedy, Walter W., to Barber-Colman Co. Air mixing damper. 2,891,576, 6-23-59, Cl. 137—613.
- Kennedy, William C. Key-operated fire hydrant. 2,869,576, 1-20-59, Cl. 137—296.
- Kennedy, William J.: *See—*
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- Kennedy, William M.: *See—*
- Carroll, Murray N., and Kennedy. 2,912,298.
- Kennedy, William P. Control for headlight beam switches. 2,900,570, 8-18-59, Cl. 315—83.1
- Kennedy, William, & Sons Ltd., The: *See—*
- Sandison, Alexander G. 2,899,069.
- Sandison, Alexander G. 2,900,077.
- Kennelly, Harry W., Jr.: *See—*
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- Kenner, Mary B. Sanitary belt with moisture proof napkin pocket. 2,881,761, 4-14-59, Cl. 128—289.
- Kennerley-Taylor, Horace, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Trigger mechanism for firearms. 2,909,100, 10-20-59, Cl. 89—140.
- Kennerty, Thomas H. Attachment for saw grinding machines. 2,867,953, 1-13-59, Cl. 51—168.
- Kenney, Clarence E., to Allis-Chalmers Mfg. Co. Elastic fluid turbine two speed drive arrangement. 2,910,894, 11-3-59, Cl. 74—812.
- Kenney, Harold E.: *See—*
- Wall, Monroe E., and Kenney. 2,895,953.
- Kenney, James C. Suit-hanger adapter. 2,876,939, 3-10-59, Cl. 223—88.
- Kenney, James T. Paint can holder. 2,911,016, 11-3-59, Cl. 141—328.
- Kenney, John T., and S. E. Gamarekian, to General Electric Co. Combustion system for jet engine starters. 2,873,577, 2-17-59, Cl. 60—39.14.
- Kenney, John W., Jr. Game. 2,905,472, 9-22-59, Cl. 273—129.
- Kenney Mfg. Co.: *See—*
- Cameron, Warren B. S. 2,918,245.
- Kenney, Nolan. Automobile seat. 2,903,043, 9-8-59, Cl. 155—5.
- Kenney, Robert W. Valve mechanism. 2,872,935, 2-10-59, Cl. 137—172.
- Kenney, Robert W., to Stanley G. Harwood. Valve mechanism for diverse fluids. 2,907,340, 10-6-59, Cl. 137—188.
- Kenney, William D., to Columbus Iron Works Co., Southern Plow Co. Division. Cultivating attachment. 2,876,852, 3-10-59, Cl. 72—42.
- Kenny, Charles R.: *See—*
- Flower, Robert A., and Kenny. 2,914,764.
- Kenny, Charles R., to General Precision Laboratory Inc. Pulse generator. 2,885,554, 5-5-59, Cl. 250—36.
- Kenny, Leslie W. Invisible auxiliary trousers and skirt belt. 2,896,220, 7-28-59, Cl. 2—319.
- Kenny, Morris: *See—*
- Gruettner, Gerhard G., Church, and Kenny. 2,910,390.
- Kenny, Vincent: *See—*
- Fischer, Paul W., Kenny, and Scheffel. 2,903,407.
- Kenosian, Harry, E. Seif, and D. A. Starr, Jr., to Burroughs Corp. Magnetic recording system. 2,876,058, 3-3-59, Cl. 346—74.
- Kenrich, Chester M., and B. L. Crew, to United States of America, Atomic Energy Commission. Binary excess-3 converter. 2,877,447, 3-10-59, Cl. 340—173.
- Kensel, Raymond J.: *See—*
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- Kent, Allen H. Automatic sound reproducing device. 2,893,738, 7-7-59, Cl. 274—9.
- Kent, Allen H., to Minitone, Inc. Miniature motor. 2,894,156, 7-7-59, Cl. 310—154.
- Kent, Brian E.: *See—*
- Sorensen, Knud B., and Kent. 2,886,113.
- Sorensen, Knud B., and Kent. 2,900,031.
- Kent, Donald W.: *See—*
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- Kent, Eugene A., and L. J. Sacco, Jr., to National Aluminate Corp. Antistripping agents for bituminous materials. 2,901,370, 8-25-59, Cl. 106—123.
- Kent, Francis J. Extrusion handling device. 2,914,170, 11-24-59, Cl. 207—1.
- Kent, Hans F. Pants protector. 2,906,038, 9-29-59, Cl. 36—2.
- Kent Mfg. Corp.: *See—*
- Batcheller, Hugh W. 2,872,658.
- Batcheller, Hugh W. 2,878,854.
- Kent, Maurice E. Heel rest for an accelerator. 2,915,917, 12-8-59, Cl. 74—564.
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- Bennett, Clifford H. 2,874,457.
- Bennett, Clifford H. 2,909,210.
- Cieslinski, Edward J. 2,867,950.
- Kent R. O., Co.: *See—*
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- Kent, Robert E.: *See—*
- Lambrecht, Joseph A., Hensley, Kent, and Lynch. 2,902,402.
- Kent, Russell R. Quiver for arrows. 2,908,432, 10-13-59, Cl. 224—5.
- Kent, Sheldon E., to Hodag Chemical Corp. Crystallizing of sugars. 2,871,148, 1-27-59, Cl. 127—58.
- Kent, Stephen D.: *See—*
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- Kentucky-Ohio Products Corp.: *See—*
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- Clore, Thomas H., and Carter. 2,881,497.
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- Kenworth Motor Truck Co., Division of Pacific: *See—*
- Norrie, Robert C. 2,891,786.
- Kenworthy, Charles C. Lip actuation of dummies by electrical signals. 2,890,535, 6-16-59, Cl. 40—28.3.



- Kenyon, Alonzo F., to Westinghouse Electric Corp. Excitation of dynamo-electric machines. 2,871,435, 1-27-59, Cl. 318-308.
- Kenyon, Arthur D. Means and method for assisting the birth of a child. 2,917,050, 12-15-59, Cl. 128-361.
- Kenyon, David E., to Sperry Rand Corp. Decoder circuit for teledata system. 2,884,523, 4-28-59, Cl. 250-27.
- Kenyon, George W., to Frink Sno-Plows, Inc. Tripping devices for snow plows. 2,877,573, 3-17-59, Cl. 37-42.
- Kenyon Laboratories, Inc.: *See*—
- Kenyon, Theodore W. 2,871,699.
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- Hillard, George O., Jr., and Kenyon. 2,913,504.
- Hochgraf, Norman N., Kenyon, and Langer. 2,908,671.
- McLean, Lawrence W., and Kenyon. 2,867,670.
- Kenyon, Philip, to Automatic Telephone & Electric Co. Ltd. Telegraph receivers. 2,901,541, 8-25-59, Cl. 178-88.
- Kenyon, Roger B., to Eastman Kodak Co. Method of manufacturing sheeting material. 2,878,521, 3-24-59, Cl. 13-57.
- Kenyon, Theodore W., to Kenyon Laboratories, Inc. Indicating instrument for helicopters or the like. 2,871,699, 2-3-59, Cl. 73-18.
- Kenyon, Theodore W., and S. Webster, to United Aircraft Corp. Variable boost servo-assisting system. 2,870,745, 1-27-59, Cl. 121-41.
- Kenyon, William, & Sons Inc.: *See*—
- Butcher, Oswald E. 2,879,639.
- Kenyon, William A. 2,896,396.
- Whitehead, Stanley. 2,892,302.
- Kenyon, William A., to William Kenyon & Sons Inc. Endless driving belt for spinning machines. 2,896,396, 7-28-59, Cl. 57-104.
- Kenzinger, Louis-Charles: *See*—
- Folliot, Albert E. J., and Kenzinger. 2,869,849.
- Keogh, Raymond J.: *See*—
- Burr, Robert P., and Keogh. 2,874,211.
- Keohane, Maurice J. Gramophone pick-ups. 2,868,892, 1-13-59, Cl. 179-100.41.
- Keonjian, Edward, to General Electric Co. Direct-coupled transistor amplifiers. 2,876,297, 3-3-59, Cl. 179-171.
- Keough, Frank J. Inflatable retention catheter. 2,912,981, 11-17-59, Cl. 128-349.
- Kephart, John W., Jr. Article stacking apparatus. 2,881,000, 4-7-59, Cl. 271-68.
- Kepkay, Leslie L., to Massey-Ferguson Inc. Bagger attachment for combines. 2,885,120, 5-5-59, Cl. 222-76.
- Keplinger, Livingston B., to American Flange & Mfg. Co., Inc. Resilient-collar-type closure for steel shipping and other metallic containers. 2,916,311, 12-8-59, Cl. 285-202.
- Kepler, Hugh G. Hydraulic clutch operating mechanism. 2,873,834, 2-17-59, Cl. 192-91.
- Keppel, Ernst, to Joh Vaillant, K.G. Water flow regulator for water heater. 2,901,175, 8-25-59, Cl. 236-25.
- Ker, James S. S.: *See*—
- Smee, Peter G., and Ker. 2,882,339.
- Kerby, Lawrence L. Two speed cam shaft. 2,871,837, 2-3-59, Cl. 123-90.
- Kerce, Woodrow. Insignia assemblies. 2,867,924, 1-13-59, Cl. 40-1.5.
- Kerecman, Michael, and R. W. Braund, to Jones & Laughlin Steel Corp. Reversible idler for conveyor belts. 2,909,272, 10-20-59, Cl. 198-202.
- Kerfoot, Franklin W., to Burroughs Corp. Band clutch. 2,878,684, 3-24-59, Cl. 74-222.
- Kerfoot, Franklin W., Jr.: *See*—
- Hebeler, Charles B., Kerfoot, and Weidenhammer. 2,915,911.
- Kerker, Richard, and L. A. Martin, to Douglas Aircraft Co., Inc. Stability control device for aircraft. 2,885,161, 5-5-59, Cl. 244-42.
- Kerkhoff, Franz: *See*—
- Günther, Paul, and Kerkhoff. 2,876,400.
- Kerkpliet, Ferdinand G. Conveyor with simultaneously controlled discharge openings. 2,907,500, 10-6-59, Cl. 222-311.
- Kerley, Bernard J., Jr. Method and apparatus for producing ammonium salts. 2,902,342, 9-1-59, Cl. 23-107.
- Kerley, James J., Jr.: *See*—
- Hartenstein, Raymond G., and Kerley. 2,873,109.
- Kerley, James J., Jr., and R. M. Sando, to Westinghouse Electric Corp. Shock and vibration isolator. 2,913,215, 11-17-59, Cl. 248-358.
- Kerley, Paul L., to United States of America, Atomic Energy Commission. Circular cavity slot antenna. 2,867,803, 1-6-59, Cl. 343-769.
- Kerlie, Walter L., to United States Steel Corp. Surface blowing process for making steel. 2,900,249, 8-18-59, Cl. 75-60.
- Kerman, Ernest. Filling cap for use with valued fountain pen. 2,868,172, 1-13-59, Cl. 120-46.
- Kern, Arthur H.: *See*—
- Ajouelo, Davis J. 2,910,026.
- Kern, Edward A.: *See*—
- McCandless, William, and Kern. 2,910,232.
- Kern, Emil: *See*—
- Baumann, Hans, and Kern. 2,872,449.
- Brunkhorst, Wilhelm, Kern, and Baumann. 2,906,588.
- Kern, George R., to Bowen & Co., Inc. Rotary dental tool. 2,871,562, 2-3-59, Cl. 32-27.
- Kern, Raymond T., Jr.: *See*—
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- Kern, Robert D., to Electric Control Corp. Constant frequency variable input speed alternator apparatuses. 2,891,213, 6-16-59, Cl. 322-42.
- Kern, Rudolf, and W. N. Grohs, to Rhein-Chemie G.m.b.H. Process for the manufacture of finely porous butadiene-styrene copolymers. 2,891,016, 6-16-59, Cl. 260-2.5.
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- Kern, Walter: *See*—
- Wegmann, Jacques, Kern, and Jenny. 2,888,312.
- Kern, Werner, and G. Dall' Asta, to Hercules Powder Co. Process for making diallylidene pentaerythritol copolymers. 2,902,476, 9-1-59, Cl. 260-78.5.
- Kernan, Paul, to Bendix Aviation Corp. Amplitude band selection circuit. 2,883,530, 4-21-59, Cl. 250-27.
- Kernan, Paul, to Bendix Aviation Corp. Amplitude band selection circuit. 2,898,461, 8-4-59, Cl. 250-27.
- Kernchen, Günter, to Olympia Werke A.G. Locking device for removable typewriter carriages. 2,917,154, 12-15-59, Cl. 197-193.
- Kerner, Charles A., to Northrop Aircraft, Inc. Gyroscopic top. 2,871,705, 2-3-59, Cl. 74-5.7.
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- Young, Charles A., and Kerns. 2,873,770.
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- Barrett, Robert F., and Kerns. 2,872,211.
- Kerns, Gordon D., to Standard Oil Co. Production of low cold-test oils by urea dewaxing. 2,911,350, 11-3-59, Cl. 208-25.
- Kerns Mfg. Corp.: *See*—
- Auman, Reiner J., and Meyerhoff. 2,891,358.
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- Baker, William R., Kerns, and Riedel. 2,868,974.
- Kerns, Quentin A., to United States of America, Atomic Energy Commission. Low-level direct current amplifier. 2,885,496, 5-5-59, Cl. 179-171.
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- Kerpchar, Michael, to Bendix Aviation Corp. Aircraft elevator controls during turns. 2,883,128, 4-21-59, Cl. 244-77.
- Kerr, Charles E.: *See*—
- Anderson, Gerald R., Hayes, Kerr, and Newburn. 2,872,017.
- Kerr, Charles E., to Food Machinery and Chemical Corp. Carton filling apparatus. 2,904,945, 9-22-59, Cl. 53-124.
- Kerr, Charles E., to Food Machinery and Chemical Corp. Carton filling apparatus. 2,910,212, 10-27-59, Cl. 222-168.5.
- Kerr, David C., and S. K. Kifer, to United States Steel Corp. Apparatus for handling pipe or the like. 2,873,840, 2-17-59, Cl. 198-28.
- Kerr, Fred S., to Holley Carburetor Co. Electronic speed governor. 2,908,264, 10-13-59, Cl. 123-102.
- Kerr, Gerald E., to United States of America, Atomic Energy Commission. Dimension measuring optical sighting device. 2,897,718, 8-4-59, Cl. 88-14.
- Kerr, John C.: *See*—
- Wright, George W., and Kerr. 2,910,080.
- Kerr Mfg. Co.: *See*—
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- Kerr-McGee Oil Industries, Inc.: *See*—
- Garwin, Leo. 2,904,527.
- Goren, Mayer B. 2,886,550.
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- Pickell, Marion W. 2,909,441.
- Wolfe, James D. 2,919,245.
- Kerr, Ralph L. Non-rotatable expansion coupling. 2,890,066, 6-9-59, Cl. 285-67.
- Kerr, Ralph W., to Corn Products Co. Paper size and method of preparation. 2,903,391, 9-8-59, Cl. 162-175.
- Kerr, Ralph W., and F. C. Cleveland, Jr., to Corn Products Co. Orthophosphate esters of starch. 2,884,413, 4-28-59, Cl. 260-233.5.
- Kerr, Wallace E. Method of drawing tubes. 2,886,170, 5-12-59, Cl. 205-8.
- Kerr, Wallace E. Draw buggy. 2,917,161, 12-15-59, Cl. 205-3.
- Kerr, Wayne, Laboratories Ltd., The: *See*—
- Calvert, Raymond. 2,880,390.
- Kerschner, Paul M., and B. W. Greenwald, to Cities Service Research and Development Co. Carbon functional organosiloxane dibasic acid esters. 2,907,783, 10-6-58, Cl. 260-448.2.
- Kerschner, Paul M., and B. W. Greenwald, to Cities Service Research and Development Co. Carbon functional siloxane polyesters. 2,916,507, 12-8-59, Cl. 260-448.2.
- Kersh, Ronald C. Apparatus for mixing and distributing water soluble material with water. 2,885,271, 5-5-59, Cl. 23-267.
- Kersh, Ronald C. Fluid check valve. 2,912,999, 11-17-59, Cl. 137-512.4.



- Kershaw, Henry. Rear view mirror for vehicles. 2,869,425, 1-20-59, Cl. 88-87.
- Kershaw Mfg. Co., Inc.: *See*—
- Fox, Herbert C., and Franklin. 2,887,135.
  - Kershaw, Royce. 2,869,159.
  - Kershaw, Royce. 2,886,904.
  - Kershaw, Royce. 2,908,228.
  - Kershaw, Royce G. 2,869,476.
- Kershaw, Peter L.: *See*—
- Steghart, Fritz L. F., and Kershaw. 2,917,702.
- Kershaw, Royce, to Kershaw Mfg. Co., Inc. Railroad track sweeper. 2,869,159, 1-20-59, Cl. 15-55.
- Kershaw, Royce, to Kershaw Mfg. Co., Inc. Apparatus for removing ballast from beneath railroad tracks. 2,886,904, 5-19-59, Cl. 37-104.
- Kershaw, Royce, to Kershaw Mfg. Co., Inc. Apparatus for removing and replacing cross ties in a railway track. 2,908,228, 10-13-59, Cl. 104-9.
- Kershaw, Royce G., to Kershaw Mfg. Co., Inc. Railroad track raising and ballast tamping apparatus. 2,869,476, 1-20-59, Cl. 104-12.
- Kershner, Osborn A., and A. D. Oshoy, to Lambert Brake Corp. Clutch and brake combination and hydraulic operating means therefor. 2,883,019, 4-21-59, Cl. 192-13.
- Kerslake, Cyril J., to The Plessey Co. Ltd. Circuit breakers. 2,901,720, 8-25-59, Cl. 338-163.
- Kerst, Herman: *See*—
- Gunderson, Lewis O., and Kerst. 2,902,447.
- Kersten, William H., to The Parker Pen Co. Writing instrument. 2,870,741, 1-27-59, Cl. 120-42.03.
- Kersten, William H., to The Parker Pen Co. Writing instrument. 2,888,907, 6-2-59, Cl. 120-42.03.
- Kerstetter, Donald R., to Sylvania Electric Products Inc. Cathode. 2,872,611, 2-3-59, Cl. 313-337.
- Kerstetter, Donald R., to Sylvania Electric Products Inc. Composite electrode structure. 2,904,717, 9-15-59, Cl. 313-355.
- Kerstetter, Donald R., and P. H. Sassaman, to Sylvania Electric Products Inc. Glass base grid. 2,889,483, 6-2-59, Cl. 313-299.
- Kersting, Bernard H., to The Wellman Engineering Co. Clamshell bucket-turning mechanism for bulk material handling apparatus. 2,896,795, 7-28-59, Cl. 212-81.
- Kerstner, Otto S., and L. C. Oswald, to Northrop Corp. Shock absorbing structure. 2,904,207, 9-15-59, Cl. 217-53.
- Kertell, Frank W.,  $\frac{1}{2}$  to C. G. Voglesong. Parking meter. 2,904,153, 9-15-59, Cl. 194-72.
- Kerwin, Joseph E. Electrical contact board game. 2,874,966, 2-24-59, Cl. 273-93.
- Kese, Arnold and Z. Calendar. Re. 24,711, 10-6-59, Cl. 40-108.
- Kese, Zenta: *See*—
- Kese, Arnold and Z. Re. 24,711.
- Keshler, Charles P., Jr.: *See*—
- Billings, Theodore E., Keshler, and Wainwright. 2,902,674.
- Kesler, Robert D., and D. D. Rabb, to United States of America, Atomic Energy Commission. Extraction of uranium. 2,897,045, 7-28-59, Cl. 23-14.5.
- Kesling, Elmer G. Calculator. 2,879,939, 3-31-59, Cl. 235-74.
- Kesling, Harold D. Dental appliance. 2,897,598, 8-4-59, Cl. 32-64.
- Kesling, Harold D. Light wire orthodontic attachment. 2,915,824, 12-8-59, Cl. 32-14.
- Kesling, Keith K.: *See*—
- Miller, Edwin J., and Kesling. 2,871,676.
- Kesling, Keith K., to General Motors Corp. Domestic appliance. 2,869,954, 1-20-59, Cl. 312-275.
- Kesling, Keith K., to General Motors Corp. Door mounting. 2,869,959, 1-20-59, Cl. 312-328.
- Kesling, Keith K., to General Motors Corp. Domestic appliance. 2,879,370, 3-24-59, Cl. 219-35.
- Kesling, Keith K., to General Motors Corp. Domestic appliance. 2,885,253, 5-5-59, Cl. 312-236.
- Kesling, Keith K., to General Motors Corp. Domestic appliance. 2,888,544, 5-26-59, Cl. 219-37.
- Kesling, Keith K., to General Motors Corp. Refrigerator cabinet safety door. 2,902,952, 9-8-59, Cl. 109-63.5.
- Kesling, Keith K., to General Motors Corp. Domestic appliance. 2,903,711, 9-15-59, Cl. 4-167.
- Kessell, Wallace E.: *See*—
- Moore, Robert E., and Kessell. 2,880,952.
- Kesselman, Jacob. Holder for milk cartons or the like. 2,868,411, 1-13-59, Cl. 220-85.
- Kesselman, Samuel A. Evaporative air coolers. 2,886,957, 5-19-59, Cl. 62-314.
- Kesselring, Fritz, and S. Hämmerli, to Siemens-Schuckertwerke Akt. Circuit interrupter. 2,897,408, 7-28-59, Cl. 317-60.
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- Kessi, Willy, to Stila S. A. Watertight wrist-watch case. 2,872,777, 2-10-59, Cl. 58-90.
- Kessler, Frank, to General Dynamics Corp. Automatic telephone system. 2,890,282, 6-9-59, Cl. 179-6.3.
- Kessler, Gerald. Screen spline with direct frictional engagement means. 2,897,889, 8-4-59, Cl. 160-392.
- Kessler, Gerhard, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus for measuring revolving speed or velocity ratios. 2,915,703, 12-1-59, Cl. 324-69.
- Kessler, Harold D.: *See*—
- Crossley, Frank A., and Kessler. 2,918,367.
- Kessler, Hilda. Dispenser package. 2,886,233, 5-12-59, Cl. 229-17.
- Kessler, Jack J., to UARCO, Inc. Deleaver. 2,872,187, 2-3-59, Cl. 271-2.1.
- Kessler, Jacob C. F., to American Enka Corp. Method for preparing an extrusion material from high molecular weight synthetic linear superpolymides. 2,906,732, 9-29-59, Cl. 260-45.95.
- Kessler, Jacob C. F., and B. Kamerbek, to American Enka Corp. Stocking manufacture. 2,913,801, 11-24-59, Cl. 28-74.
- Kessler, James R.: *See*—
- Blackburn, Alan B., Kessler, Skinner, and Smith. 2,876,847.
- Kessler, Joseph H., and W. Engels, to Bommer Spring Hinge Co. Inc. Mechanical connections. 2,904,825, 9-22-59, Cl. 16-169.
- Kessler, Joseph S., and W. Ebert, to Ladish Co. Adjustable toggle-type connecting assemblies. 2,869,211, 1-20-59, Cl. 24-270.
- Kessler, Milton. Structural window pane. 2,892,516, 6-30-59, Cl. 189-64.
- Kessler, Sebastian W., Jr., to Radio Corp. of America. Glass sealing. 2,876,596, 3-10-59, Cl. 49-81.
- Kessler, Vernon R., and W. A. La Grange, to Carrier Corp. Control center. 2,869,505, 1-20-59, Cl. 116-124.
- Kessler, Ward P., to Tusco Corp. Shower bath frame leveling device. 2,893,069, 7-7-59, Cl. 20-11.
- Kessler, William J., S. E. Smith, and S. P. Hersperger, Jr., to United States of America, Army. Means for direction finding and ranging on atmospherics. 2,883,663, 4-21-59, Cl. 343-123.
- Kestell, Thomas A., and R. Snape, to United Shoe Machinery Corp. Sewing machines. 2,888,892, 6-2-59, Cl. 112-38.
- Kesten, Ulrich, and H. J. Lurk, to Siemens & Halske Akt. Allocation of outgoing lines in automatic telecommunication systems. 2,904,635, 9-15-59, Cl. 179-18.
- Kester, Dwayne A., and W. A. Gross. Vehicle lamp. 2,908,808, 10-13-59, Cl. 240-8.2.
- Ketcham, Henry K. Doll construction. 2,884,739, 5-5-59, Cl. 46-163.
- Ketcham and McDougall Inc.: *See*—
- Bosland, James M. 2,907,085.
  - Bosland, James M. 2,916,837.
- Ketchledge, Raymond W.: *See*—
- Boyle, Willard S., and Ketchledge. 2,884,565.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Storage tube and circuit. 2,875,373, 2-24-59, Cl. 315-12.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Communication switching system employing gas tubes. 2,883,467, 4-21-59, Cl. 179-18.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Radiation sensitive scanning system. 2,897,369, 7-28-59, Cl. 250-83.3.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Modulating system. 2,902,659, 9-1-59, Cl. 332-47.
- Ketchledge, Raymond W., to Bell Telephone Laboratories, Inc. Electron beam positioning system. 2,916,660, 12-8-59, Cl. 315-8.5.
- Ketchpel, Paul A., Jr.: *See*—
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  - Haskell, Philip R., Ketchpel, and Knapik. 2,893,279.
- Ketchum, Arthur L., to Admiral Corp. Ultra-high frequency structures. 2,868,983, 1-13-59, Cl. 250-40.
- Kett Engineering Corp.: *See*—
- Wright, Gilbert M. 2,895,126.
- Ketter, Robert L., to Lehigh University. Moment measuring device. 2,882,722, 4-21-59, Cl. 73-133.
- Ketterer, Stanley J.: *See*—
- Perla, Martin R., and Ketterer. 2,906,220.
  - Smith, Darwin G., and Ketterer. 2,889,790.
- Ketterer, Stanley J., to The Singer Mfg. Co. Sewing machine supporting bases and carrying cases. 2,891,349, 6-23-59, Cl. 45-68.2.
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- Ketterer, Stanley J., and M. F. Ivanko, to The Singer Manufacturing Co. Start and stop motion mechanisms for sewing machines. 2,906,222, 9-29-59, Cl. 112-219.
- Kettle, Arthur B.: *See*—
- Lockhart, Marshall L. 2,893,396.
- Kettler, Alfred H., to United States of America, Navy. Sound powered phone. 2,896,026, 7-21-59, Cl. 179-115.
- Kettlety, Robert W.: *See*—
- Maure, Douglas R., and Kettlety. 2,907,888.
- Kettlewell, Eric: *See*—
- Baker, John E., Hogg, and Kettlewell. 2,887,615.
- Kettman, Joseph E.: *See*—
- Pearl, Leland L., and Kettman. 2,907,701.
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- Keutgen, William A., C. R. Davall, R. S. Daniels, and R. D. Noyes, to Union Carbide Corp. Abrasive articles and method of making the same. 2,901,337, 8-25-59, Cl. 51-298.
- Keuth, Heinz, H. Rotter, and P. Guillery, to Siemens-Schuckertwerke Akt. Heat-resistant electric insulation and method of manufacture. 2,906,649, 9-29-59, Cl. 117-230.
- Key, Don E., and D. G. Mahoney, to General Motors Corp. Storage battery and method of making same. 2,880,896, 4-7-59, Cl. 214-311.
- Key, Edward M.,  $\frac{1}{2}$  to H. B. Fischborn. Apparatus for making wood pulp chips. 2,899,992, 8-18-59, Cl. 144-162.
- Key, Edward M. Splitter knife. 2,913,024, 11-17-59, Cl. 143-143.
- Key, Laurence M. Tiller float or leveling drag. 2,868,306, 1-13-59, Cl. 172-200.
- Key, Theophilus D. Display supporting fixture. 2,903,227, 9-8-59, Cl. 248-356.
- Keyes, Clifford B., to J. W. Greer Co. Pallet loading apparatus. 2,878,948, 3-24-59, Cl. 214-6.
- Keyes, Clifford B., and W. Hill, to J. W. Greer Co. Conveyor tray assembly. 2,878,923, 3-24-59, Cl. 198-158.
- Keyes Fibre Co.: *See*—  
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- Keylwert, Johann, and K. Tromsick, to Klockner-Humboldt Deutz Akt. Valve controlled internal combustion engine. 2,869,525, 1-20-59, Cl. 123-90.
- Keys, Carlton A.: *See*—  
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- Keys, Conrad R. Load handling equipment and receptacles for vehicular transportation and discharge of loads. 2,909,296, 10-20-59, Cl. 214-310.
- Keyser, Johann J., to Schiess Akt. Coupling for interconnecting the individual sections of long compound rollers, drums, shafts, or the like of textile machines. 2,875,645, 3-3-59, Cl. 74-665.
- Keyser, Johann J., to Schiess Aktiengesellschaft. Double-belt drawing unit for spinning machines. 2,916,779, 12-15-59, Cl. 19-131.
- Keyser, Harold C., to American Steel Foundries. Axial load spring. 2,892,624, 6-30-59, Cl. 267-61.
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- Keyt, Donald E.: *See*—  
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- Keyt, Donald E., to Borg-Warner Corp. Servo valve. 2,909,195, 10-20-59, Cl. 137-623.
- Key-Tag Checking System Co., The: *See*—  
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- Kezerian, Charles: *See*—  
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- Khachikian, Yerem. Traction device. 2,870,814, 1-27-59, Cl. 152-218.
- Khalil, Seyed. Variable backspacing mechanism for proportional spacing typewriters. 2,872,014, 2-3-59, Cl. 197-84.
- Kharasch, Morris S., and W. Nudenberg, to Shell Development Co. Production of unsaturated polycarboxylic acids and esters. 2,870,200, 1-20-59, Cl. 260-533.
- Kharasch, Morris S., and W. Nudenberg. Inhibiting polymerization. 2,900,421, 8-18-59, Cl. 260-652.5.
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- Khoury, Alfred S.: *See*—  
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- Khyrn, Joseph X., to United States of America, Atomic Energy Commission. Adsorption method for separating metal cations. 2,877,094, 3-10-59, Cl. 23-23.
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- Kiba, Yoneo, to Continental Plastics Corp. Plastic pump impeller. 2,902,941, 9-8-59, Cl. 103-114.
- Kibbey, Donald R.: *See*—  
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- Kibby, Theodore A., to Gulf Oil Corp. Explosive device. 2,867,170, 1-6-59, Cl. 102-21.8.
- Kibby, Theodore A., to Gulf Oil Corp. Method of and apparatus for completing wells. 2,896,718, 7-28-59, Cl. 166-35.
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- Kibler, Charles J., A. Bell, and J. G. Smith, to Eastman Kodak Co. Linear polyesters and polyester-amides from 1,4-cyclohexanedimethanol. 2,901,466, 8-25-59, Cl. 260-75.
- Kibler, Louis E., and R. A. Sindall, Jr., to A. K. Robins & Co., Inc. Mushroom trimming machine. 2,877,816, 3-17-59, Cl. 146-81.
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- Kice, Jack W., and C. D. Mattingly, to The Coleman Co., Inc. Refrigerant cooler utilizing atmospheric condensate. 2,875,593, 3-2-59, Cl. 62-280.
- Kidd, Malcolm H., to The Dayton Rubber Co. Raw edge belt grinder. 2,912,797, 11-17-59, Cl. 51-80.
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- Kidd, Marshall C., and H. C. Goodrich, to Radio Corp. of America. Television receiver signal processing circuits. 2,906,817, 9-29-59, Cl. 178-7.3.
- Kidd, Ralph. Burial vault and casket. 2,882,584, 4-21-59, Cl. 27-11.
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- Kidde Textile Machinery Corp.: *See*—  
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- Kiebert, Martin V., Jr. Power amplifier and method of operation. 2,918,630, 12-22-59, Cl. 330-119.
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- Kieffaber, Harry D., to The Sheffield Corp. Pneumatic gage head. 2,898,683, 8-11-59, Cl. 33-147.
- Kiefer, Augustine J. Sliding multiple sash window or door. 2,897,552, 8-4-59, Cl. 20-19.
- Kiefer, John E.: *See*—  
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- Kiefer, John E., and G. P. Touey, to Eastman Kodak Co. Tobacco smoke filtering elements. 2,904,050, 9-15-59, Cl. 131-208.
- Kiefer, John M., Jr., to United States Steel Corp. Method of making bright-finished steel strip. 2,906,652, 9-29-59, Cl. 148-12.
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- Kiefer, Kurt T. Ventian blind and tilt control mechanism therefor. 2,898,986, 8-11-59, Cl. 160-168.
- Kiefer, William R.: *See*—  
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- Kiekhäfer, Elmer C. Outboard motor clamp screw. 2,890,845, 6-16-59, Cl. 248-4.
- Kiekhäfer, Elmer C. Centrifugal clutch. 2,901,075, 8-25-59, Cl. 192-105.
- Kiekhäfer, Elmer C. Vibration isolation of power head. 2,909,031, 10-20-59, Cl. 60-31.
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- Kielsmeier, Elwood W.: *See*—  
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- Kienle, Roy H.: *See*—  
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- Kier, Sven. Typewriter. 2,906,388, 9-29-59, Cl. 197—18.
- Kiernan, Conleth E., and W. K. Clark, to United States Rubber Co. Method of laminating vinyl chloride to metal with synthetic resin-rubber adhesive and resultant article. 2,872,366, 2-3-59, Cl. 154—129.
- Kiernan, Earl F. Method and apparatus for measurement of total sound power output of an ultrasonic transducer. 2,874,794, 2-24-59, Cl. 181—5.
- Kiernan, Earl F. Ultrasonic probe. 2,892,993, 6-30-59, Cl. 340—13.
- Kierulff, Jorgen V. Travelling ship-loading crane. 2,919,042, 12-29-59, Cl. 214—15.
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- Kiesling, Harry E., to United States Steel Corp. Apparatus for drilling radial holes. 2,898,783, 8-11-59, Cl. 77—27.
- Kiess, Arthur A.: *See*—  
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- Kietz, Hans, to Atlas-Werke Akt. Echo sounding recorder. 2,883,642, 4-21-59, Cl. 340—3.
- Kietzmann, Alfred E.: *See*—  
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- Kieweg, Homer E., to Commercial Solvents Corp. Process for making mixed fertilizers containing ammonium nitrate and calcium carbonate. 2,912,318, 11-10-59, Cl. 71—47.
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- Kifer, David E., to The L. R. Oatey Co. Roof flashing. 2,904,354, 9-15-59, Cl. 285—43.
- Kifer, Stanley K.: *See*—  
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- Kiffer, Alfred D., to Union Carbide Corp. Method and apparatus for producing ozone-carrier gas mixture. 2,872,397, 2-3-59, Cl. 204—176.
- Kiffer, Desire A., and L. D. Orser, to Chamberlain Corp. Power plant arrangement for mobile spray tank. 2,869,839, 1-20-59, Cl. 259—39.
- Kiffer, Desire A., and L. D. Orser, to Chamberlain Corp. Pulse pumps. 2,871,789, 2-3-59, Cl. 103—44.
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- Kihn, Harry, to Radio Corp. of America. Frequency control. 2,872,579, 2-3-59, Cl. 250—36.
- Kikta, Edward J., to The National Cash Register Co. Detachable support for electrical components. 2,879,492, 3-24-59, Cl. 339—17.
- Kilbane, James A., Jr., and S. H. Palmer. Tumbler. 2,898,711, 8-11-59, Cl. 51—164.
- Kilborn, Karl B., to The Goodyear Tire & Rubber Co. Method and apparatus for finishing molded articles. 2,908,936, 10-20-59, Cl. 18—1.
- Kilbourne, Harry W.: *See*—  
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- Kilbourne, James, to The Jeffrey Mfg. Co. Slack take up means for conveyor. 2,875,885, 3-3-59, Cl. 198—109.
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- Kilby, Jack S., to Globe-Union Inc. Plug-in circuit units. 2,892,130, 6-23-59, Cl. 317—101.
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- Kilcup, Ernest I., to Davol Rubber Co. Inhaler tube. 2,898,941, 8-11-59, Cl. 138—55.
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- Kile, Stephen L., to Basco Inc. Fuel control and ignition apparatus. 2,903,053, 9-8-59, Cl. 158—128.
- Kilgore, Charles R., to Thompson Products, Inc. Fulcrum adjuster. 2,873,730, 2-17-59, Cl. 129—90.
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- Killebrew, Jessie O. Door frame construction. 2,872,711, 2-10-59, Cl. 20—11.
- Killeen, George H., Jr. Device for compressing spring valves. 2,895,213, 7-21-59, Cl. 29—213.
- Killen, Clair R. Strip clamp. 2,879,568, 3-31-59, Cl. 24—66.
- Killen, Donald P. Nail clipper. 2,887,773, 5-26-59, Cl. 30—28.
- Killian, Claud R. Jet engine silencer. 2,882,991, 4-21-59, Cl. 181—57.
- Killian, Claud R. Tire tread. 2,913,032, 11-17-59, Cl. 152—209.
- Killian, Henry R., to Henry Pratt Co. Rotary positioner control unit for a valve. 2,911,953, 11-10-59, Cl. 121—41.
- Killian, George W., to General Dynamics Corp. Selector switch circuit. 2,872,526, 2-3-59, Cl. 179—18.
- Killian, Robert J., and G. M. Brown, to Automatic Steel Products, Inc. Method of forming multi-groove pulleys. 2,869,223, 1-20-59, Cl. 29—159.
- Killian, Robert J., and G. M. Brown, to Automatic Steel Products, Inc. Apparatus for forming multi-groove pulleys. 2,892,431, 6-30-59, Cl. 113—52.
- Killian, Stanley C., and W. O. Edison, to H. K. Porter Co. Method of operating inspection sections in bus enclosures. 2,872,218, 2-3-59, Cl. 285—369.
- Killingsworth, Cecil C. Gravel packing of wells. 2,896,714, 7-28-59, Cl. 166—15.
- Killion, John F.: *See*—  
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- Kilmartin, John A. Containers for cans. 2,889,957, 6-9-59, Cl. 220—115.
- Kilmer, George McQ. Devices adapted for assisting paralyzed or hemiplegic persons. 2,900,976, 8-25-59, Cl. 128—1.
- Kilmer, Thoburn H., to Air Reduction Co., Inc. Carbon dioxide indicator. 2,890,177, 6-9-59, Cl. 252—408.
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- Kilpatrick, Myron O., to Phillips Petroleum Co. Hydrocarbon conversion system. 2,906,792, 9-29-59, Cl. 260—683.
- Kilpatrick, Stanley A., to Kaiser Aluminum & Chemical Corp. Apparatus for casting of metal. 2,871,529, 2-3-59, Cl. 22—57.2.
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- Kimberlin, Charles N., Jr.: *See*—  
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- Kimball, John W. Cartridge case extractor for a firearm. 2,870,562, 1-27-59, Cl. 42—25.
- Kimball, Lawrence W., to Sylvania Electric Products Inc. Valve construction. 2,918,938, 12-29-59, Cl. 137—625.11.



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- Kimble, Donal G.: *See*—  
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- Kimble Glass Co.: *See*—  
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- Kimble, Harvey S., and N. F. McLeod, to Phillips Petroleum Co. Polymer-solvent separation process. 2,897,184, 7-28-59, Cl. 260—94.9.
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- Kimel, Walter: *See*—  
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- Kimes, Harold E., Corp.: *See*—  
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- Kimes, Robert: *See*—  
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- Kimm, Ewald J., and P. F. Early, to Standard-Thomson Corp. Vent valve mechanism. 2,889,845, 6-9-59, Cl. 137—80.
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- Kimmel, Ellsworth E., to Koppers Co., Inc. Hydrocarbon fuel composition and the method of operating a jet engine therewith. 2,867,081, 1-6-59, Cl. 60—35.4.
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- Kimmell, Garman O. Automatic dump valve systems. 2,869,569, 1-20-59, Cl. 137—188.
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- Kimura, Shuji, and J. N. Stich. Photographic fixer-hardener compositions. 2,871,121, 1-27-59, Cl. 96—61.
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- Kindig, Arnie J., to The Jeffrey Mfg. Co. Grease seal. 2,868,567, 1-13-59, Cl. 286—11.
- Kindig, Arnie J., to The Jeffrey Mfg. Co. Conveyor belt idler. 2,869,712, 1-20-59, Cl. 198—202.
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- Kindorf, Orlan C. Support for expansible conduit. 2,893,669, 7-7-59, Cl. 248—55.
- Kindred, Raymond L., to Phillips Petroleum Co. Computer for solving simultaneous equations. 2,872,113, 2-3-59, Cl. 235—61.
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- Kindseth, Harold V., to Bemis Bro. Bag Co. Method of making bag closure. 2,899,347, 8-11-59, Cl. 154—102.
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- King, Arthur A., Jr.: *See*—  
 Marganski, Joseph J., and King. 2,890,026.
- King, Bertell W. Concrete bulkhead, jetty or pile form. 2,902,743, 9-8-59, Cl. 25—131.
- King, Buford M., Jr., to The Upjohn Co. Dispensing container. 2,877,927, 3-17-59, Cl. 221—246.
- King, Burnham W., and G. D. Kelly, to General Electric Co. Ceramic coating for magnet wire. 2,879,185, 3-24-59, Cl. 117—223.
- King, Burnham W., Jr., and W. A. Hedden, to Bradley Mining Co. Antimony oxide glass. 2,918,382, 12-22-59, Cl. 106—47.
- King, Carl F., Jr., to Stephens-Adamson Mfg. Co. Seal for bearings. 2,884,285, 4-28-59, Cl. 308—187.2.
- King, Carl G., to Rotaprint Ltd. Control means for printing or duplicating machines. 2,863,456, 1-13-59, Cl. 235—132.
- King, Charles C., to The M. W. Kellogg Co. Pyrolytic hydrocarbon conversion process for making ethylene. 2,890,256, 6-9-59, Cl. 260—683.
- King, Charles C., and J. Hanisian, to The M. W. Kellogg Co. Process for the separate recovery of C and C hydrocarbons. 2,886,611, 5-12-59, Cl. 260—677.
- King, Charles H., Jr., to United Aircraft Corp. Propyl nitrate monofuel and method of use with nickel salts. 2,914,910, 12-1-59, Cl. 60—35.4.
- King, Charles H., Jr., and G. D. Lewis, to United Aircraft Corp. Combustion chamber for monofuels. 2,908,135, 10-13-59, Cl. 60—39.36.
- King, Charles L.: *See*—  
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- King, Charles S., to The Rover Co. Ltd. Fuel supply system for a gas turbine engine power plant. 2,874,765, 2-24-59, Cl. 158—36.4.
- King Container Corp.: *See*—  
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- King, Dale F., and L. A. Pockman. Process and plant for raising poultry and the like. 2,910,044, 10-27-59, Cl. 119—1.
- King, David W., to United States of America, Atomic Energy Commission. Hand truck for handling equipment. 2,874,860, 2-24-59, Cl. 214—130.



- King, Donald E., and R. K. Cowdery, to Allis-Chalmers Mfg. Co. Field current regulator with linear speed setting relationship. 2,882,477, 4-14-59, Cl. 318-357.
- King, Donald L., and K. L. Davis, to The Emco Corp. Pressure filter construction. 2,899,068, 8-11-59, Cl. 210-402.
- King, Donald M. Conveyors. 2,871,799, 2-3-59, Cl. 104-172.
- King, Donald M. Trolley assembly for conveyor systems. 2,892,419, 6-30-59, Cl. 105-155.
- King, Earle C., and R. C. Andrews, Jr., to Mine Safety Appliances Co. Method for disposing of alkali metals. 2,880,065, 3-31-59, Cl. 23-184.
- King, Edward L., to United States of America, Atomic Energy Commission. Plutonium purification process employing thorium pyrophosphate carrier. 2,884,305, 4-28-59, Cl. 23-14.5.
- King, Elise: *See*—
- King, Henry C. 2,880,937.
- King, George E.: *See*—
- Beck, Arnold H. W., Cutting, Brisbane, and King. 2,912,611.
- Giboney, Ray E., and King. 2,888,576.
- Scott, Thomas R., King, and Wilson. 2,910,394.
- King, George E., and R. E. Giboney, to Westinghouse Electric Corp. Punch press control. 2,905,838, 9-22-59, Cl. 307-112.
- King, George L., to Radio Frequency Laboratories. Teleprinter system. 2,919,301, 12-29-59, Cl. 178-2.
- King, Geo. W., Ltd.: *See*—
- Burrows, Arthur T. C. 2,869,477.
- Burrows, Arthur T. C. 2,872,056.
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- King, George W., to General Precision Laboratory Inc. Automatic iris control. 2,885,471, 5-5-59, Cl. 178-7.1.
- King, Harold W.: *See*—
- True, Charles H., Jr., and King. 2,897,501.
- King, Harry C., and W. H. Hough, to Sylvania Electric Products Inc. Clamp and mounting arrangement. 2,889,477, 6-2-59, Cl. 313-76.
- King, Harry C., to Sylvania Electric Products Inc. Resilient tube support. 2,904,617, 9-15-59, Cl. 174-52.
- King, Henry C., 40% to E. King. Power driven ambulatory irrigation sprinkler. 2,880,937, 4-7-59, Cl. 239-181.
- King, Herbert: *See*—
- Anderson, Malcolm, and King. 2,888,695.
- King, Herbert H. Test probe with retractable shield. 2,885,648, 5-5-59, Cl. 339-36.
- King, James M. Florists' accessories. 2,904,933, 9-22-59, Cl. 47-41.
- King, James R.: *See*—
- Haist, Grant M., and King. 2,875,048.
- King, Jarrett C.: *See*—
- King, Jerome: *See*—
- Hardwicke, James E., King, and Terrell. 2,885,407.
- King, John G., to Tricraft Products Corp. Emission type tube analyzer. 2,885,634, 5-5-59, Cl. 324-24.
- McDonald, Julius M., King, and Holland. 2,885,931.
- King, Karl C. Loading and unloading equipment. 2,876,917, 3-10-59, Cl. 214-82.
- King, Karl C. Harvester. 2,896,776, 7-28-59, Cl. 198-233.
- King, Kenneth G., and A. W. Tucker, to Westinghouse Brake and Signal Co. Ltd. Trigger circuit with memory action. 2,908,857, 10-13-59, Cl. 323-66.
- King, Kenneth L. Ski binding having automatically releasable heel anchor. 2,879,071, 3-24-59, Cl. 280-11.35.
- King, L. D. P., to United States of America, Atomic Energy Commission. Homogeneous nuclear power reactor. 2,902,424, 9-1-59, Cl. 204-193.2.
- King, Laurence F.: *See*—
- Sproule, Lorne W., King, and Pattenden. 2,883,342.
- King, Laurence F., to Esso Research and Engineering Co. Desulfurization process utilizing ethylene polyamine and sodium hydroxide. 2,906,706, 9-29-59, Cl. 208-231.
- King, Leland W.: *See*—
- Geddes, Norman B., and King. 2,914,190.
- King, Lyman S.: *See*—
- Crouch, John M., King, and Conley. 2,906,364.
- King, Norman: *See*—
- Barnett, Bartow B., and King. 2,868,553.
- King-O-Matic Equipment Corp.: *See*—
- McGihon, Leonard. 2,914,899.
- McGihon, Leonard. 2,915,309.
- King, Paul A.: *See*—
- Morton, Lester C., and King. 2,881,728.
- King, Paul J.: *See*—
- Wolfson, William B., King, Baer, and Clough. 2,897,095.
- King, Peter M.: *See*—
- Bray, Frederick H., King, and Hartley. 2,913,530.
- Bray, Frederick H., King, and Rice. 2,899,500.
- King, Ralph E., to General Electric Co. Refrigerator cabinet having drawer baffle means. 2,876,632, 3-10-59, Cl. 62-285.
- King, Ralph E., to General Electric Co. Refrigerator water cooler. 2,876,633, 3-10-59, Cl. 62-339.
- King, Richard C. Water craft for the transport of wheeled vehicles. 2,898,877, 8-11-59, Cl. 114-60.
- King, Robert B., to United States of America, Navy. Fuze. 2,883,933, 4-28-59, Cl. 102-81.
- King, Robert J., to McGraw-Edison Co. Heating units for ovens and the like. 2,875,313, 2-24-59, Cl. 219-19.
- King, Robert J. Garment hanger. 2,886,222, 5-12-59, Cl. 223-88.
- King, Robert W., Jr.: *See*—
- Doersam, Charles H., Jr., and King. 2,907,985.
- King Sales & Engineering Co.: *See*—
- McGihon, Leonard. 2,902,810.
- McGihon, Leonard. 2,909,876.
- King-Seely Corp.: *See*—
- Baker, Harry I. 2,890,429.
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- Bergsma, Rudolph. 2,890,645.
- Boddy, Leonard. 2,873,305.
- Boddy, Leonard. 2,910,569.
- Boddy, Leonard. 2,910,650.
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- Gaskell, Walter L. 2,873,773.
- Klavitter, Ernest L. 2,886,683.
- Klavitter, Ernest L. 2,914,760.
- Malecki, Witold. 2,876,792.
- Malecki, Witold. 2,888,031.
- Malecki, Witold, and Larsen. 2,911,054.
- Sivacek, Emil E. 2,887,084.
- Winther, Robert O. 2,883,512.
- King, William F. Switching device. 2,867,699, 1-6-59, Cl. 200-61.45.
- King, William F., to Eaton Mfg. Co. Electric coupling and brake. 2,871,383, 1-27-59, Cl. 310-96.
- King, William F., to General Motors Corp. Apparatus for compensating quadrature resolved unbalance components. 2,872,819, 2-10-59, Cl. 73-462.
- King, William H.: *See*—
- Bloch, Morton G., Houser, and King. 2,904,496.
- King, William H., to United States of America, Agriculture. Detoxifying cottonseed meal. 2,873,190, 2-10-59, Cl. 99-2.
- King, William H., A. M. Altschul, J. M. Dechary, and V. L. Frampton, to United States of America, Agriculture. Preparation of cottonseed meal suitable for unrestricted use in laying hen diets. 2,873,191, 2-10-59, Cl. 99-4.
- King, William H., Jr., to Esso Research and Engineering Co. Galvanometer digitizer. 2,883,649, 4-21-59, Cl. 340-190.
- King, William R.: *See*—
- Larson, Harold A., and King. 2,889,575.
- King, William R., to Phillips Petroleum Co. Method and apparatus for carbon black production. 2,892,684, 6-30-59, Cl. 23-209.6.
- King, William R., and W. H. Rushford, to Phillips Petroleum Co. Recovery and classification of solids. 2,880,819, 4-7-59, Cl. 183-58.
- Kingdom, John C.: *See*—
- Yule, William H. D., and Kingdom. 2,889,425.
- Kingdom, Ralph H., and R. J. Scheich, to Square D Co. Multipole circuit breaker. 2,889,428, 6-2-59, Cl. 200-116.
- Kingdon, Ralph H.: *See*—
- Stanback, Harris I., and Kingdom. 2,902,560.
- Stanback, Harris I., and Kingdom. 2,902,632.
- Kinghorn, Robert E.: *See*—
- Purswell, Guy, Kinghorn, and Smith. 2,888,298.
- Kingsbury, Chadwick B.: *See*—
- Carter, Ralph H., and Kingsbury. 2,881,584.
- Carter, Ralph H., Kingsbury, and Lamb. 2,900,783.
- Kingsbury, Chadwick B., to North American Rayon Corp. Stop motion device. 2,904,872, 9-22-59, Cl. 28-71.4.
- Kingsbury, Chester L., Jr., to Reserve Mining Co. Means for separating granular material. 2,919,024, 12-29-59, Cl. 209-159.
- Kingsbury, Ralph N., and R. F. Caroselli, to Owens-Corning Fiberglas Corp. Dye composition and method of dyeing tightly wound glass fibers with a water swellable material. 2,900,275, 8-18-59, Cl. 117-63.
- Kingsley, Lewis A. Lettering. 2,902,931, 9-8-59, Cl. 101-399.
- Kingsley, Lewis A. Wire aligning and tensioning mechanism. 2,909,341, 10-20-59, Cl. 242-151.
- Kingston, Donald L., and B. H. Leach, to Sylvania Electric Products Inc. Lamp bulb feeder. 2,917,169, 12-15-59, Cl. 209-80.
- Kingston Products Corp.: *See*—
- Dull, William B., and Daugherty. 2,876,313.
- Kelly, George M. 2,867,834.
- Kelly, George M. 2,868,321.
- Kinkaid, Robert J., to AMP Inc. Machine for applying connectors in strip form. 2,915,755, 12-8-59, Cl. 1-177.
- Kinhead, Alan, to William Wallace Co. Tube making machine. 2,911,932, 11-10-59, Cl. 113-33.
- Kinhead, Alan, to William Wallace Co. All purpose flue. 2,916,983, 12-15-59, Cl. 98-48.
- Kinkaid Industries Inc.: *See*—
- Collins, Solomon M. 2,897,514.
- Collins, Solomon M. 2,897,515.
- Kinkel, John F.: *See*—
- Bell, Norton W., and Kinkel. 2,909,622.
- Kinker, John C., Jr., to Apex Machine Mfg. Co., Inc. Tear strip for dispensing package. 2,888,180, 5-26-59, Cl. 225-39.
- Kinley, Myron M. Valves. 2,907,391, 10-6-59, Cl. 166-224.
- Kinnaman, Chalmers R. Commutator undercutting tools. 2,898,814, 8-11-59, Cl. 90-38.
- Kinnan, Walter E., to G. F. Dales. Method of making thermostats. 2,877,539, 3-17-59, Cl. 29-155.5.
- Kinnear, John. Surgical traction apparatus. 2,909,175, 10-20-59, Cl. 128-84.
- Kinnear, John A. C.: *See*—
- Mariner, Peter F., and Kinnear. 2,900,706.



- Kinnear, John A. C., to Elliott Brothers (London) Ltd. Manufacture of waveguide components. 2,870,524, 1-27-59, Cl. 29—155.5.
- Kinney, David C., and C. E. Sands, to Holley Carburetor Co. Temperature sensitive pump. 2,877,996, 3-17-59, Cl. 261—34.
- Kinney, George A., to E. I. du Pont de Nemours and Co. Apparatus for uniformly drawing a plurality of filaments. 2,874,410, 2-24-59, Cl. 18—8.
- Kinney, Harmon C.: *See*—  
Muehleck, Ernest, Kinney, and Lanz. 2,901,808.
- Kinney, James F. Air distributing system. 2,901,959, 9-1-59, Cl. 98—40.
- Kinney, John W., Jr. Surface projectile game. 2,905,471, 9-22-59, Cl. 273—108.
- Kinney, Layton C.: *See*—  
Thorp, Clark E., Kinney, and Gaynor. 2,876,188.
- Kinney, Paul W., and J. H. Prichard, to Celanese Corp. of America. Cellulose propionate compositions. 2,883,299, 4-21-59, Cl. 106—180.
- Kinney, S. P., Engineers, Inc.: *See*—  
Kinney, Selwyne P. 2,918,172.
- Kinney, Selwyne P., to S. P. Kinney Engineers, Inc. Automatic self-cleaning strainer. 2,918,172, 12-22-59, Cl. 210—392.
- Kinney, Theodore S. Storage tank. 2,888,545, 5-26-59, Cl. 219—39.
- Kinney, Theodore S. Immersion electric heater. 2,888,546, 5-26-59, Cl. 219—41.
- Kinney, Theodore S. Electric heater element. 2,912,664, 11-10-59, Cl. 338—229.
- Kinnison, Robert W. Filling nozzle with selective automatic shut-off. 2,870,799, 1-27-59, Cl. 141—209.
- Kinsella, Martin A.: *See*—  
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- Kinsey, Claude J., and J. H. Varterasian, to General Motors Corp. Balancing machine. 2,898,764, 8-11-59, Cl. 73—483.
- Kinsey, Douglas D., A. E. Johnson, and H. W. Ashby, to Crane Co. Waste valve mechanism. 2,910,704, 11-3-59, Cl. 4—199.
- Kinsey, Isaac: *See*—  
Miner, Charles, Jr., and Kinsey. 2,912,939.
- Kinsey, John A., Jr. Automatic door or like closure operator. 2,900,791, 8-25-59, Cl. 60—52.
- Kinsey, Lionel E. Garment hanger attachment. 2,907,505, 10-6-59, Cl. 223—95.
- Kinsley, Lewis H., Jr., and J. W. Anderson. Capper. 2,914,901, 12-1-59, Cl. 53—310.
- Kinsman, Clarence W. Pulley with punched bracket. 2,873,091, 2-10-59, Cl. 254—191.
- Kintner, Donald J., to Clary Corp. Cash register drawer selecting apparatus. 2,883,104, 4-21-59, Cl. 235—22.
- Kinzbach, Robert B. Automatic tubing spider assembly. 2,896,292, 7-28-59, Cl. 24—249.
- Kinzelman, Francis J., to J. R. Share. Rotary printing press for continuous metal strip. 2,890,653, 6-16-59, Cl. 101—178.
- Kinzer, Clarence M. Blade means. 2,891,334, 6-23-59, Cl. 37—143.
- Kinzer, Glenn W., to Chilean Nitrate Sales Corp. Iodonium compounds. 2,878,293, 3-17-59, Cl. 260—607.
- Kipnis, Abraham. Deep-fried extruded-dough comestible machine. 2,917,008, 12-15-59, Cl. 107—14.
- Kipp, Carl. Fixture for hanging mirrors, pictures and the like. 2,905,412, 9-22-59, Cl. 248—30.
- Kipp, Egbert M., to Aluminum Co. of America. Piston ring. 2,908,537, 10-13-59, Cl. 309—44.
- Kippe, Otto, to P. Tobeler, doing business under the name of Trans-Oceanic. Method of making lime-containing fertilizers and especially slag lime. 2,904,425, 9-15-59, Cl. 71—63.
- Kippe, Otto, 1/2 to P. O. Tobeler, d.b.a. Trans-Oceanic. Method of producing magnesium and calcium nitrate from dolomite. 2,912,306, 11-10-59, Cl. 23—201.
- Kippen, Albert J.: *See*—  
Bucheimer, George R., and Kippen. 2,917,213.
- Kippenhan, Beverly W., to International Business Machines Corp. Code generator. 2,884,625, 4-28-59, Cl. 340—345.
- Kippenhan, Dean O., to United States of America, Atomic Energy Commission. Phase detector. 2,903,581, 9-8-59, Cl. 250—27.
- Kipps, Harry J., to Socony Mobil Oil Co., Inc. Method of inhibiting formation of scale deposits. 2,890,175, 6-9-59, Cl. 252—181.
- Kippur, Perry R.: *See*—  
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- Kippur, Perry R.: *See*—  
Clark, Benjamin F., Gipstein, Higgins, and Kippur. 2,919,291.
- Kips, Eduard J. E., and J. W. Derksen. Traffic light switching arrangement. 2,878,423, 3-17-59, Cl. 315—163.
- Kiraly, Joseph L., to Aerosol Research Co. Aerosol valve assembly. 2,883,089, 4-21-59, Cl. 222—394.
- Kirby, Arthur F., to E. I. du Pont de Nemours and Co. Preparation of  $\alpha$ -chloroglutaric anhydride. 2,870,167, 1-20-59, Cl. 260—345.9.
- Kirby, Henry L.: *See*—  
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- Kirby, James B. Dish washing machine. 2,877,778, 3-17-59, Cl. 134—57.
- Kirby, Lawrence J., to Gulf Oil Corp. Controlling flow rates. 2,899,969, 8-18-59, Cl. 137—8.
- Kirby, Lo E. D. Disposable ash tray and cigarette snuffing device. 2,887,218, 5-19-59, Cl. 206—57.
- Kirby, Robert A., C. S. Clay, Jr., and H. B. Ferguson, to Jersey Production Research Co. Recording system. 2,894,797, 7-14-59, Cl. 346—74.
- Kirchel, Alan A.: *See*—  
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- Kircher, Albert, Jr., and D. A. Manion, Jr., to The W. J. Fitzpatrick Co. Method of making sausage emulsions. 2,874,054, 2-17-59, Cl. 99—109.
- Kircher, Charles E., Jr., R. J. Jones, and R. F. Kriz, to Detrex Chemical Industries, Inc. Apparatus for producing polyvinyl chloride. 2,880,076, 3-31-59, Cl. 23—260.
- Kircher, Charles E., Jr., and R. J. Jones, to Detrex Chemical Industries, Inc. Method of dehydrohalogenating halogenated hydrocarbons. 2,912,470, 11-10-59, Cl. 260—654.
- Kircher, Hartmann J., III: *See*—  
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- Kircher, Raymond J., to Bell Telephone Laboratories, Inc. Diode circuits. 2,899,569, 8-11-59, Cl. 307—88.5.
- Kircher, Raymond J., to Bell Telephone Laboratories, Inc. Testing apparatus. 2,908,860, 10-13-59, Cl. 324—028.
- Kirchner, Carroll T.: *See*—  
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- Kirchner, Francois F., to Schlumberger Well Surveying Corp. Magnetic resonance apparatus. 2,894,199, 7-7-59, Cl. 324—5.
- Kirchner, Francois F., and F. S. Replogle, Jr., to Schlumberger Well Surveying Corp. Magnet. 2,917,682, 12-15-59, Cl. 317—200.
- Kirchner, Frederick K., to Sterling Drug Inc. 2-aroylmethyl-3-oxo-3,4-dihydro-1,4,2-benzothiazines and their preparation. 2,894,946, 7-14-59, Cl. 260—245.
- Kirchner, Frederick K., and E. J. Alexander, to Sterling Drug Inc. 3-oxo-3,4-dihydro-1,4,2-benzothiazine-2-acetic acid hydrazides and their preparation. 2,879,270, 3-24-59, Cl. 260—243.
- Kirchhübel, Kurt: *See*—  
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- Kirchoff, Raymond F.: *See*—  
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- Kirgan, Edward L., to Elk Enterprises, Inc. Reflector target. 2,885,670, 5-5-59, Cl. 343—18.
- Kirk & Blum Mfg. Co., The: *See*—  
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- Hulton, Charles S., Mullenhagen, and Wiedenbein. 2,897,601.
- Kirk, Howard B., and C. F. Anspach. Beverage dispensing machine. 2,876,806, 3-10-59, Cl. 141—105.
- Kirk, Hubert R.: *See*—  
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- Kirk, James C.: *See*—  
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- Kirk, James E.: *See*—  
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- Kirk, Joseph S., to General Aniline & Film Corp. Dyeing of leather. 2,872,277, 2-3-59, Cl. 8—12.
- Kirk, Joseph S., to General Aniline & Film Corp. Dyeing of leather. 2,893,811, 7-7-59, Cl. 8—12.
- Kirk, Joseph S., to General Aniline & Film Corp. After-treatment of leather dyes. 2,908,543, 10-13-59, Cl. 8—13.
- Kirk, Norman, to General Electric Co. Apparatus for the continuous polymerization of organopolysiloxanes. 2,883,272, 4-21-59, Cl. 23—260.
- Kirk, Norman M. Hook for transporting meat in vehicles. 2,904,300, 9-15-59, Cl. 248—340.
- Kirk, Robert E., to General Motors Corp. Terminal connector for circuit boards. 2,911,610, 11-3-59, Cl. 339—17.
- Kirk, Walter B., to Westinghouse Air Brake Co. Fluid motor with slack adjuster valve. 2,875,864, 3-3-59, Cl. 188—196.
- Kirk, Walter B., to Westinghouse Air Brake Co. Master cylinder for hydraulic brake system. 2,917,900, 12-22-59, Cl. 60—54.6.
- Kirk, William A., and J. A. Brown, to Sperry Rand Corp. Shear bar mounting means to provide a curved cutting edge. 2,868,253, 1-13-59, Cl. 146—117.
- Kirk, William M. Animal scratching, medicating and oiling apparatus. 2,883,965, 4-28-59, Cl. 119—157.
- Kirka, Chester, to Machlett Laboratories, Inc. Terminal structures for valve tubes. 2,890,385, 6-9-59, Cl. 315—58.
- Kirkbride, Alec B.: *See*—  
Selby, James, Kirkbride, and Trebble. 2,899,850.
- Kirkbride, Chalmer G., and J. C. Dart, to Houdry Process Corp. Art of circulating contact material. 2,915,459, 12-1-59, Cl. 208—148.
- Kirkby, Henry W., and C. Sykes, to Firth-Vickers Stainless Steels Ltd. Ferritic alloy steels for use at elevated temperatures. 2,880,085, 3-31-59, Cl. 75—126.
- Kirkell, Leon H. Towel dispensing mechanism. 2,879,121, 3-24-59, Cl. 312—038.
- Kirkham, Don, and J. E. Adams, to Iowa State College Research Foundation, Inc. Apparatus for measuring diffusion coefficients of soil in place. 2,913,897, 11-24-59, Cl. 73—38.
- Kirkham, Peter, and R. G. R. Robinson, to Pye Ltd. Magnetic scanning circuits for cathode ray tubes. 2,899,578, 8-11-59, Cl. 313—76.



- Kirkham, Thomas A.: *See*—  
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- Kirkland, Earl V., and I. H. Lutz, to The American Oil Co. Glycol diesters. 2,871,248, 1-27-59, Cl. 260—410.6.
- Kirkland, Elmo R., Jr. Retriever for an underwater object. 2,879,618, 3-31-59, Cl. 43—17.2.
- Kirkland, Robert E., to Raytheon Co. Acoustic logs. 2,908,888, 10-13-59, Cl. 340—3.
- Kirkman, Kenneth D.: *See*—  
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- Kirkpatrick, Alton, to Stone & Webster Engineering Corp. Steam condenser deaeration. 2,873,096, 2-10-59, Cl. 157—24.
- Kirkpatrick, Claude L.: *See*—  
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- Kirkpatrick, John. Yieldable tenter frame support. 2,879,579, 3-31-59, Cl. 26—57.
- Kirkpatrick, Kenneth L.: *See*—  
Northcote, John A., and Kirkpatrick. 2,905,256.
- Kirkpatrick, Lawrence R. Trailer hitch. 2,902,294, 9-1-59, Cl. 280—512.
- Kirkpatrick, Leland W., to Rich Mfg. Corp. Valve material. 2,868,637, 1-13-59, Cl. 75—124.
- Kirkpatrick, Thomas P., to United States of America, Navy. Flue type acoustic hood. 2,892,507, 6-30-59, Cl. 181—36.
- Kirkpatrick, Vida E. Walking-aid apparatus. 2,872,967, 2-10-59, Cl. 155—22.
- Kirkpatrick, Willard H., to Visco Products Co. Resolving water-in-oil emulsions. 2,875,157, 2-24-59, Cl. 252—344.
- Kirkpatrick, Willard H., to Visco Products Co. Oxyalkylated hydroxy compounds. 2,881,204, 4-7-59, Cl. 260—484.
- Kirkpatrick, Willard H., to Visco Products Co. Breaking water-in-oil emulsions. 2,900,350, 8-18-59, Cl. 252—331.
- Kirkpatrick, Willard H., and V. L. Seale, to Visco Products Co. Pesticide emulsions containing an oxyethylated oxypropylated glycerine. 2,875,128, 2-24-59, Cl. 167—43.
- Kirkpatrick, Willard H., and V. L. Seale, to Visco Products Co. Diamine derivatives containing hydroxyalkyl groups. 2,884,459, 4-28-59, Cl. 260—584.
- Kirkpatrick, William D., and A. L. Newman, to Red Devil Tools. Paint tube squeezer. 2,874,525, 2-24-59, Cl. 53—268.
- Kirkpatrick, William D., and A. L. Newman,  $\frac{1}{2}$  to B. C. Jones, and  $\frac{3}{4}$  to Red Devil Tools. Dispensing device for collapsible tubes. 2,881,954, 4-14-59, Cl. 222—102.
- Kirkpatrick, William D., and A. L. Newman, to Red Devil Tools. Tool for removing end of collapsible walled tube. 2,897,700, 8-4-59, Cl. 81—334.
- Kirkpatrick, William E., to Bell Telephone Laboratories, Inc. Electron discharge device. 2,892,122, 6-23-59, Cl. 315—12.
- Kirkpatrick, William T., to Rowe Mfg. Co., Inc. Containers for columnar merchandising machine. 2,867,487, 1-6-59, Cl. 312—42.
- Kirkwood Commutator Co., The: *See*—  
Boyer, Robert H. 2,898,488.
- Kirkwood, Merseman L. Geographical timepiece. 2,910,825, 11-3-59, Cl. 58—43.
- Kirsch, Albert J.: *See*—  
Hensley, William L., Kirsch, and Layman. 2,889,293.
- Kirsch Co.: *See*—  
Bell, Ralph E. 2,913,212.  
Bell, Ralph E., and Ford. 2,889,573.
- Kirsch, Francis W.: *See*—  
Cornelius, Edward B., and Kirsch. 2,887,455.
- Kirschenbaum, Samuel. Capping device. Re. 24,695, 9-8-59, Cl. 222—421.
- Kirschenbaum, Samuel. Moistening devices. 2,868,244, 1-13-59, Cl. 141—198.
- Kirschke, Norman W., to General Electric Co. Oven with replaceable liner. 2,912,559, 11-10-59, Cl. 219—35.
- Kirschner, Benjamin. Collapsible steam cabinet. 2,873,453, 2-17-59, Cl. 4—160.
- Kirschner, Henry J.: *See*—  
Hendrickson, Ellis C., and Kirschner. 2,916,093.
- Kirschner, Wolfgang: *See*—  
Krekeler, Hans, Kirschner, Relken, and Waellnitz. 2,911,454.
- Kirscht, Arthur A., and L. Krivanek, to General Electric Co. Electrode drive control for electric arc furnace. 2,889,485, 6-2-59, Cl. 314—68.
- Kirshenbaum, Isidor: *See*—  
Baker, Edward G., and Kirshenbaum. 2,889,266.  
Baker, Edward G., and Kirshenbaum. 2,906,692.  
Gilbert, George R., and Kirshenbaum. 2,894,901.  
Hughes, Vincent L., Kirshenbaum, and Schetelich. 2,876,253.  
Hughes, Vincent L., Kirshenbaum, and Schetelich. 2,903,477.  
Hughes, Vincent L., Kirshenbaum, and Schetelich. 2,909,562.  
Kearby, Kenneth K., and Kirshenbaum. 2,885,346.  
McCulloch, William J. G., and Kirshenbaum. 2,885,442.
- Kirshenbaum, Isidor, K. K. Kearby, and H. J. Ogorzaly, to Esso Research and Engineering Co. Hydrocracking shale oil. 2,884,371, 4-28-59, Cl. 208—111.
- Kirshenbaum, Isidor, F. L. Jonach, and L. D. Etherington, to Esso Research and Engineering Co. Process for the separation of fluids by extractive distillation. 2,901,404, 8-25-59, Cl. 202—39.5.
- Kirshenbaum, Isidor, F. L. Jonach, and L. D. Etherington, to Esso Research and Engineering Co. Separation of liquids by altering their relative volatilities. 2,901,406, 8-25-59, Cl. 202—41.
- Kirshenbaum, Isidor, and J. A. Hinlicky, to Esso Research and Engineering Co. Preparation of eta alumina by acid hydrolysis. 2,903,418, 9-8-59, Cl. 208—138.
- Kirshenbaum, Isidor, V. L. Hughes, and F. W. Baner, to Esso Research and Engineering Co. Preparation of hydroxy acids. 2,909,538, 10-20-59, Cl. 260—409.
- Kirst, Werner: *See*—  
Kracker, Herbert, Bauer, Kirst, Lowenfeld, and Staab. 2,908,679.
- Kirstaedter, Imfried: *See*—  
Heidenhain, Johannes, and Kirstaedter. 2,914,756.
- Kirstahler, Alfred: *See*—  
Haas, Herman, Kirstahler, Gündel, and Strauss. 2,893,932.
- Kirstahler, Alfred, W.-D. Willmund, and W. Strauss, to Dehydtag, Deutsche Hydrierwerke G.m.b.H. Production of metal electrodeposits. 2,905,602, 9-22-59, Cl. 204—46.
- Kirvan, James: *See*—  
Greene, Otto W., and Kirvan. 2,870,982.
- Kisbany, Frederick N., to American Tape Co. Heat resistant pressure sensitive adhesive tapes and method of making. 2,881,096, 4-7-59, Cl. 117—122.
- Kise, William J. Remotely operated wrench adapter. 2,872,837, 2-10-59, Cl. 81—55.
- Kiser, Vernon W.: *See*—  
Henderson, David E., and Kiser. 2,905,276.
- Kish Industries, Inc.: *See*—  
Kish, Steven P., Donnell, and Graves. 2,878,063.
- Kish, Steven P., J. W. Donnell, and D. M. Graves, to Kish Industries, Inc. Resin gun. 2,878,063, 3-17-59, Cl. 299—86.
- Kishi, Hajime J.: *See*—  
Sharin, Samuel, Kishi, Sheridan, and Liquori. 2,919,306.
- Kishibay, Charles O., to The Singer Mfg. Co. Noise vibration damping for sewing machines. 2,883,955, 4-28-59, Cl. 112—258.
- Kishibay, Charles O., to The Singer Mfg. Co. Sewing machine supporting stand. 2,899,249, 8-11-59, Cl. 311—12.
- Kishline, Floyd F., and J. S. Voigt, to American Motors Corp. Vehicle wheel suspension. 2,876,018, 3-3-59, Cl. 280—106.5.
- Kissinger, Arthur Y., and W. S. Snyder. Electrician's tool. 2,875,651, 3-3-59, Cl. 77—73.
- Kissling, Lehr F., to Columbia-Southern Chemical Corp. Purification of trichloroethylene. 2,883,494, 5-26-59, Cl. 260—654.
- Kissling, Lehr F., to Columbia-Southern Chemical Corp. Purification of perchloroethylene. 2,888,495, 5-26-59, Cl. 260—654.
- Kissling, Lehr F., to Columbia-Southern Chemical Corp. Process for removing phenol. 2,911,363, 11-3-59, Cl. 210—32.
- Kissman, Henry M.: *See*—  
Baker, Bernard R., and Kissman. 2,875,194.
- Kissman, Henry M., and M. J. Weiss, to American Cyanamid Co. Ribofuranosyl derivatives of 6-aralkylamino and 6-heterocyclicalkylaminopurines. 2,881,164, 4-7-59, Cl. 260—211.5.
- Kistiakowsky, George B.: *See*—  
MacDougall, Duncan P., Fye, and Kistiakowsky. 2,918,362.
- Kistler, Max W., to American Brake Shoe Co. Blowers for railway switches. 2,886,266, 5-12-59, Cl. 246—428.
- Kistner, Harold J., and O. F. Moneagle, to International Business Machines Corp. Character positioning means in wire printers. 2,881,697, 4-14-59, Cl. 101—93.
- Kistner, Merrill M. Steam iron. 2,883,778, 4-28-59, Cl. 38—77.
- Kistner, Merrill M. Steam iron. 2,887,800, 5-26-59, Cl. 38—77.
- Kistner, Merrill M. Steam iron. 2,903,804, 9-15-59, Cl. 38—77.
- Kita, Donald A.: *See*—  
Bloom, Barry M., Kita, Laubach, and Shull. 2,891,080.  
Shull, Gilbert M., and Kita. 2,905,592.
- Kita, Donald A., to Chas. Pfizer & Co., Inc. Fermentation process for the production of glutamic acid. 2,877,160, 3-10-59, Cl. 195—30.
- Kita, Donald A., and G. M. Shull, to Chas. Pfizer & Co. Preparation of a steroid compound. 2,903,398, 9-3-59, Cl. 195—51.
- Kitahara, Kiyoshi. Method of producing narrow fabrics by cutting a specially woven wide fabric containing synthetic fibre wefts, by the aid of electrical heating of interwoven metal wires. 2,898,663, 8-11-59, Cl. 28—72.
- Kitano, Akitoshi. Driving apparatus comprising modified elliptic gear wheels. 2,897,765, 8-4-59, Cl. 103—126.
- Kitazono, Loren S. Package carrier for baby carriages. 2,911,130, 11-3-59, Cl. 224—42.44.
- Kitchen, Harry D.: *See*—  
Parker, Daniel B., and Kitchen. 2,870,953.
- Kitchen, John A., to Lucas-Rotax Ltd. Air heating apparatus. 2,916,032, 12-8-59, Cl. 126—116.
- Kitchen, John A., and F. R. Denham, to Lucas-Rotax Ltd. Gaseous fuel combustion apparatus. 2,898,978, 8-11-59, Cl. 158—7.
- Kitchen-Quip, Inc.: *See*—  
Metralier, Francis M. 2,873,131.



- Kitchens, Garry C.: *See*—  
Fiore, Alphonse T., Kitchens, and Saunders. 2,889,254.
- Kitchens of Sara Lee, Inc.: *See*—  
Kollman, Jack, and Storrie. 2,917,272.
- Kittrell, R. L. Welding apparatus. 2,892,070, 6-23-59, Cl. 219-125.
- Kittrell, R. L. Welding apparatus for forming stringer beads. 2,892,071, 6-23-59, Cl. 219-125.
- Kittrell, R. L. Welding apparatus for use with flexible dam. 2,906,851, 9-29-59, Cl. 219-60.
- Kitselman, Harry L., to Indiana Steel & Wire Co., Inc. Dead-end. 2,912,816, 11-17-59, Cl. 57-145.
- Kitselman, Harry L., and A. W. Holmes, to Indiana Steel & Wire Co., Inc. Line wire support. 2,897,256, 7-28-59, Cl. 174-173.
- Kitson, Gerald L. Annular poultry nest. 2,886,001, 5-12-59, Cl. 119-45.
- Kitt, James O.: *See*—  
Brinkman, William H. 2,916,866.
- Kitter, Volda: *See*—  
Carroll, Benjamin, and Kitter. 2,902,405.
- Kittl, Emil. Oscillator frequency control. 2,905,906, 9-22-59, Cl. 331-113.
- Kittleman, Robert H.: *See*—  
Ellerman, Harry E., and Kittleman. 2,889,531.
- Kittleson, Allen R.: *See*—  
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- Kittleson, Allen R., to Esso Research and Engineering Co. Polymerization process. 2,898,329, 8-4-59, Cl. 260-94.9.
- Kittleson, Allen R., R. M. Thomas, and A. Voorhies, Jr., to Esso Research and Engineering Co. Polymerization process. 2,916,478, 12-8-59, Cl. 260-94.9.
- Kittridge, George D., to Phillips Petroleum Co. Removal of carbon deposits in jet engines. 2,890,569, 6-16-59, Cl. 60-39.09.
- Kittrell, Norman G., and H. E. Pietschker, to Texaco Inc. Means for detecting stuffing box leakage. 2,915,975, 12-8-59, Cl. 103-25.
- Kitts, Harry R., to S. E. Binish. Breaker point filing device. 2,893,108, 7-7-59, Cl. 209-76.
- Kivari, Arthur M., to Process Engineers Inc. Treatment of aqueous wastes containing hydrocarbons. 2,876,863, 3-10-59, Cl. 183-114.
- Kivela, Stanley E. Combination knife and slitting tool. 2,869,232, 1-20-59, Cl. 30-161.
- Kivela, Stanley E. Sizing gauge for hardware items. 2,896,333, 7-28-59, Cl. 33-178.
- Kivela, Stanley E. Drain plug. 2,915,762, 12-8-59, Cl. 4-295.
- Kivell, Wayne A., to Dorr-Oliver Inc. Combined anaerobic treatment and clarification unit. 2,889,929, 6-9-59, Cl. 210-194.
- Kivett, Jerome S., to Regal Plastic Co. Foldable luggage. 2,878,907, 3-24-59, Cl. 190-41.
- Kivisto, Lauri J., and T. R. Seddon, to International Harvester Co. Servo-motor. 2,897,787, 8-4-59, Cl. 121-41.
- Kiyota, Takayuki: *See*—  
Suyama, Hidenari, Kobayashi, Sakata, Hata, Uzunaki, Ishii, Kiyota, and Haioka. 2,890,927.
- Kiyuna, Paul C. Vacuum type dispenser. 2,901,151, 8-25-59, Cl. 222-456.
- Kizaur, Arthur J., to General Electric Co. Inspection apparatus. 2,885,557, 5-5-59, Cl. 250-52.
- Kizaur, Arthur J., to General Electric Co. Table structure. 2,898,471, 8-4-59, Cl. 250-54.
- Kizaur, Arthur J., to General Electric Co. Tilttable table. 2,901,302, 8-25-59, Cl. 311-6.
- Kizaur, Arthur J., and R. J. Mueller, to General Electric Co. Fluid pressure operated serialographic apparatus and equipment embodying same. 2,890,346, 6-9-59, Cl. 250-66.
- Kjekstad, Johannes. Stabilizers for ships. 2,878,772, 3-24-59, Cl. 114-126.
- Kjell-Berger, Sven O. K., to Rockwool Aktiebolaget. Arrangement and method for the production of mats or similar flat formations of mineral wool. 2,888,060, 5-26-59, Cl. 154-27.
- Kjellman, Thomas K.: *See*—  
Coit, Rutger B., and Kjellman. 2,915,725.
- Kjellman, Thomas K., and L. E. Wood, to Bendix Aviation Corp. Humidistat. 2,897,304, 7-28-59, Cl. 200-61.06.
- Kjellsen, Arvid G., and H. L. Blust, to Radio Corp. of America. Dispensing apparatus. 2,918,198, 12-22-59, Cl. 221-211.
- Kjonaas, Manley, and L. V. Brown, to Sinclair Refining Co. Process for preparing stable high detergency barium sulfonates. 2,881,206, 4-7-59, Cl. 260-504.
- Klaassen, William,  $\frac{1}{2}$  to J. M. Terhaar and  $\frac{1}{3}$  to G. E. Howell. Form dressing device. 2,909,168, 10-20-59, Cl. 125-11.
- Klaber, George B., to A C F Industries, Inc. Fuel injection nozzle. 2,904,264, 9-15-59, Cl. 239-533.
- Klaboch, Ladislav, and M. Stastny, to Vyzkumny A Zhusebni Letecky Ustav. Measuring elements for measuring of forces. 2,904,997, 9-22-59, Cl. 73-141.
- Klabunde, Otto. Drafting board. 2,918,726, 12-29-59, Cl. 33-80.
- Klabunde, Otto. Boat reciprocating paddle device. 2,918,891, 12-29-59, Cl. 115-31.
- Klafstad, Erling, to Manning, Maxwell & Moore, Inc. Balanced bellows valve for back-pressure service with supplementary means for non-vented bonnets. 2,878,828, 3-24-59, Cl. 137-478.
- Klafter, Manfred: *See*—  
Kohlwey, Johann F., and Klafter. 2,877,478.
- Klager, Karl: *See*—  
Frankel, Milton B., and Klager. 2,880,232.
- Stoll, Karl. 2,902,855.
- Klager, Karl, to Aerojet-General Corp.  $\alpha, \alpha, \omega, \omega$ -tetrahalo- $\alpha, \omega$ -dinitroalkanes. 2,888,493, 5-26-59, Cl. 260-644.
- Klager, Karl. Salts of tetranitrodiethylamines. 2,891,994, 6-23-59, Cl. 260-577.
- Klager, Karl. Tetranitrodiethylamine salts. 2,901,512, 8-25-59, Cl. 260-583.
- Klahr, Edwin E., and G. R. Stafford, deceased (V. H. Stafford, administratrix), to Camp and McInnes, Inc. Methods of producing ornamented knitted fabrics. 2,892,330, 6-30-59, Cl. 66-14.
- Klahre, Hugo, to Consolidated Trimming Corp. Header-tape. 2,904,080, 9-15-59, Cl. 139-390.
- Klamn, Carl E., and L. D. Bizak, to Parker-Hannifin Corp. Hand tool for flaring tube ends. 2,896,691, 7-28-59, Cl. 153-79.
- Klamp, Paul: *See*—  
Bishop, Leonard J., and Klamp. 2,868,138.
- Klamp, Paul, to Mechanical Handling Systems, Inc. Power and free conveyor system. 2,868,139, 1-13-59, Cl. 104-88.
- Klamp, Paul, to Mechanical Handling Systems, Inc. Conveyor system. 2,894,460, 7-14-59, Cl. 104-88.
- Klamp, Paul, and G. E. Perkins, to Mechanical Handling Systems, Inc. Conveyor system. 2,918,881, 12-29-59, Cl. 104-88.
- Klamp, William. Door operator and control therefor. 2,887,311, 5-19-59, Cl. 268-59.
- Klancke, John H.: *See*—  
Carlson, Byron, and Klancke. 2,903,991.
- Klancnik, Frank J., Jr., to Hi-Lo TV Antenna Corp. Adjustable antenna structure. 2,885,674, 5-5-59, Cl. 343-747.
- Klancnik, Frank J., Jr., to Hi-Lo TV Antenna Corp. Helical antenna component and adjustable mounting means therefor. 2,895,130, 7-14-59, Cl. 343-747.
- Klancnik, Frank J., Jr., to Hi-Lo TV Antenna Corp. Antenna structure. 2,903,694, 9-8-59, Cl. 343-805.
- Klang, Leon R. Concrete block mold. 2,899,734, 8-18-59, Cl. 25-118.
- Klank, Walter C., Jr., to United Aircraft Products, Inc. Mounting plate assembly with latched bolts. 2,907,419, 10-6-59, Cl. 189-36.
- Klann, Paul A. Electrically controlled pneumatic valve for electric organs. 2,909,094, 10-20-59, Cl. 84-339.
- Klapka, Karl J., to Wheel Trueing Tool Co. Drilling machine. 2,870,994, 1-27-59, Cl. 255-53.
- Klapper, Herbert J., to Superior Sewing Machine & Supply Corp. Thread cutter. 2,867,184, 1-6-59, Cl. 112-252.
- Klappert, Helmut: *See*—  
Rosch, Georg, Klappert, Wolf, and Eibl. 2,898,177.
- Klaren, Cornelis, and J. Minnema. Selector valve. 2,888,952, 6-2-59, Cl. 137-625.11.
- Klasek, Frank A.: *See*—  
Cihlar, Anthony J., and Klasek. 2,881,820.
- Klasens, Hendrik A.: *See*—  
Dijkstra, Rinse, de Jonge, and Klasens. 2,873,205.
- Klasens, Hendrik A., to North American Philips Co., Inc. Red luminescent material. 2,901,436, 8-25-59, Cl. 252-301.4.
- Klasung, Arthur P., to Central States Paper & Bag Co. Machines for making vacuum cleaner bags. 2,867,183, 1-6-59, Cl. 112-10.
- Klasing, Arthur P., and W. J. Rice, to Central States Paper & Bag Co. Bag. 2,880,925, 4-7-59, Cl. 229-53.
- Klasing, Arthur P., and W. J. Rice, to Central States Paper & Bag Co. Packaging material. 2,916,053, 12-8-59, Cl. 138-49.
- Klasing, Charles L., Jr. Detachable brake beam support. 2,886,146, 5-12-59, Cl. 188-219.1.
- Klasing Hand Brake Co.: *See*—  
Sale, William H. 2,878,081.
- Sale, William H. 2,886,381.
- Sale, William H. 2,895,749.
- Sale, William H. 2,906,566.
- Klasky, Morris B. Adapter for toilet tissue holder. 2,873,928, 2-17-59, Cl. 242-68.
- Klassen, Alice M., and J. G. Mattress construction. 2,879,523, 3-31-59, Cl. 5-352.
- Klassen, Bernard, to Klassen Enterprises, Inc. Electric can opener. 2,871,559, 2-3-59, Cl. 30-4.
- Klassen Enterprises, Inc.: *See*—  
Klassen, Bernard. 2,871,559.
- Klassen, Johnny G.: *See*—  
Klassen, Alice M., and J. G. 2,879,523.
- Klassen, Stephen L., to Thermo Electric Co., Inc. Connectors. 2,897,470, 7-28-59, Cl. 339-89.
- Klauber Games, Inc.: *See*—  
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- Klauder Weldon Giles Machine Co.: *See*—  
Rosenthal, Daniel W., and Horswood. 2,904,407.
- Klaue, Hermann, to M. Straus. Disk brakes. 2,883,007, 4-21-59, Cl. 188-72.



- Klaue, Hermann. Reciprocating piston internal combustion engine. 2,913,914, 11-24-59, Cl. 74-129.
- Klaue, Hermann. Disc brake, particularly for motor vehicles. 2,914,141, 11-24-59, Cl. 188-72.
- Klaue, Hermann. Disc brakes, particularly for motor vehicles. 2,914,142, 11-24-59, Cl. 188-72.
- Klaui, Heinrich, to Hoffmann-La Roche Inc. Esters of vitamin. 2,871,261, 1-27-59, Cl. 260-485.
- Klaui, Heinrich, to Hoffmann-La Roche Inc. Stabilization of panthenol. 2,898,373, 8-4-59, Cl. 260-561.
- Klaui, Heinrich, and H. Moor, to Hoffmann-La Roche Inc. Carotenoid preparations. 2,874,058, 2-17-59, Cl. 99-148.
- Klaus, Ernst M.: *See—*
- Pleitgen, Max G., and Klaus. 2,916,111.
- Klaus, Murrel C.: *See—*
- Hintze, Alma J., and Klaus. 2,871,785.
- Klausmann, Milton H., to Seal-Spout Corp. Machine for inserting pouring spouts into containers. 2,892,430, 6-30-59, Cl. 113-1.
- Klausmann, Milton H., to Seal-Spout Corp. Combined multiple compartment container and pouring spout. 2,898,004, 8-4-59, Cl. 222-129.
- Klausner, Emanuel S., Inc.: *See—*
- Wursch, Walter. 2,884,698.
- Klauss, Erich: *See—*
- Lang, Kurt, Barthel, Ladewig, Hans, Reichelt, Klauss, and Schädlich. 2,916,771.
- Klavitter, Ernest L., to King-Seeley Corp. Temperature measuring device. 2,886,683, 5-12-59, Cl. 201-63.
- Klavitter, Ernest L., to King-Seeley Corp. Remote control indicating system. 2,914,760, 11-24-59, Cl. 340-378.
- Klawitter, Charles. Boat mooring apparatus. 2,871,813, 2-3-59, Cl. 114-230.
- Klebba, Arthur A.: *See—*
- Barstrom, Knut A., and Klebba. 2,887,353.
- Kleber, Luther A.: *See—*
- Walcher, Edwin A., Sr., Kleber, and Gezelius. 2,884,671.
- Klecker, Joseph G., Y. M. Miller, A. W. Sieving, and J. R. Rediger, to Caterpillar Tractor Co. Gear type power transmission and controls therefor. 2,869,382, 1-20-59, Cl. 74-360.
- Kleczeck, Walter S., to General Electric Co. Vent and relief valve. 2,882,924, 4-21-59, Cl. 137-522.
- Kleczeck, Walter S., to United States of America, Army. Pressure regulator. 2,899,168, 8-11-59, Cl. 251-62.
- Klee, Helmuth, to Knapsack-Griesheim Akt. Process for preparing ferrosilicon particles. 2,878,518, 3-24-59, Cl. 18-47.3.
- Kleemann, Alois, R. Keller, and J. Bindler, to J. R. Geigy, A.-G. Process to reduce the felting and creasing of wool. 2,897,041, 7-28-59, Cl. 8-127.6.
- Kleemann, Alois, and J. Bindler, to J. R. Geigy, A.-G. Decylthioacetic acid diethanolamide as fungicidal agent. 2,899,354, 8-11-59, Cl. 167-22.
- Kleemann, Eugene: *See—*
- Raes, Oscar M., and Kleemann. 2,893,790.
- Kleemann, Karl: *See—*
- Benink, Christian J. M., and Kleemann. 2,893,335.
- Kleen-Stick Products, Inc.: *See—*
- Cole, Gerald E. 2,912,140.
- Kleer Kleen Mfg. Co.: *See—*
- Eash, Owen J. 2,913,207.
- Kleff Products, Inc.: *See—*
- Epstein, Harry. 2,918,652.
- Kleiber, Carl E., to Esso Research and Engineering Co. Combination fluid solids reactor and thermal cracking unit. 2,890,993, 6-16-59, Cl. 208-48.
- Kleid, Boris, to Arnold-Copeland Co., Inc. Fluid dispenser. 2,884,164, 4-28-59, Cl. 222-207.
- Kleiman, Morton, and J. C. Tapas, to Velsicol Chemical Corp. Production of monochlorocyclopentadiene. 2,904,599, 9-15-59, Cl. 260-648.
- Klein, Adolph: *See—*
- Janney, Thomas T., and Klein. 2,876,525.
- Klein, Alexander. Hydraulic cementitious mixtures. 2,900,265, 8-18-59, Cl. 106-91.
- Klein, Alois A., to Horace T. Potts Co. Apparatus for bending tube blanks. 2,918,102, 12-22-59, Cl. 153-48.
- Klein, Andrew J., to McGraw-Edison Co. Tool for tapering conduit or pipe ends. 2,868,085, 1-13-59, Cl. 90-12.
- Klein, Arthur R., to Eaton Mfg. Co. Wire retainer clip. 2,892,234, 6-30-59, Cl. 24-259.
- Klein, Bernhard K. Jointing of elastic bodies. 2,910,314, 10-27-59, Cl. 287-119.
- Klein, Charles, to Vertipile, Inc. Ornamental material and method for making same. 2,900,270, 8-18-59, Cl. 117-25.
- Klein, Clarence F., to The Lord Baltimore Press, Inc. Method of opening and resealing a carton. 2,916,859, 12-15-59, Cl. 53-21.
- Klein, Charles H., to The National Telephone Supply Co. Wire connecting device. 2,871,045, 1-27-59, Cl. 287-75.
- Klein, Charles H., to The National Telephone Supply Co. Adjustable multiple lever tool. 2,910,900, 11-3-59, Cl. 81-15.
- Klein Chocolate Co.: *See—*
- Musser, Jay C. 2,883,286.
- Klein, Clarence J., to Bendix Aviation Corp. Solenoid operated valve with provision for safe failure. 2,867,236, 1-6-59, Cl. 137-623.
- Klein, Clifford J., to Specialties Development Corp. Electrical network automatically responsive to a rate of change of a condition and a predetermined change of the condition. 2,906,928, 9-29-59, Cl. 317-153.
- Klein, David X.: *See—*
- Girard, Theodore A., and Klein. 2,899,465.
- Steinhardt, David, Klein, and Barth. 2,915,560.
- Klein, David X., to Heyden Newport Chemical Corp. Sunburn preventive N-salicyl-p-aminophenol compositions. 2,874,090, 2-17-59, Cl. 167-90.
- Klein, Dietrich J., to Warwick Mfg. Corp. Tape recorder. 2,868,471, 1-13-59, Cl. 242-55.12.
- Klein, Elias, and J. W. Weaver, to United States of America, Army. Field treatment for making cellulosic fabrics flameproof and resistant to certain chemical warfare gases. 2,911,322, 11-3-59, Cl. 117-76.
- Klein, Eugene A.: *See—*
- Bain, Joseph P., Booth, Hunt, and Klein. 2,871,268.
- Klein, Friedrich: *See—*
- Möller, Alfred, and Klein. 2,882,791.
- Klein, Gerald I., to United States of America, Navy. Pulsed magnetron instability detector. 2,895,107, 7-14-59, Cl. 331-87.
- Klein, Gunnar. Method of making utility and decorative article of stainless steel. 2,869,265, 1-20-59, Cl. 41-26.
- Klein, Harold J., to Douglas Aircraft Co., Inc. Vortex inhibitor for aircraft jet engines. 2,915,262, 12-1-59, Cl. 244-74.
- Klein, Hens, to Badische Anilin- & Soda Fabrik Akt. Production of acetylene using methane. 2,875,259, 2-24-59, Cl. 260-679.
- Klein, Howard C.: *See—*
- Grassetti, Davide R., and Klein. 2,891,986.
- Grassetti, Davide R., and Klein. 2,913,487.
- Klein, Howard C., to Nopco Chemical Co. Preparation of vitamin A acid and vitamin A alcohol. 2,907,796, 10-6-59, Cl. 260-617.
- Klein, Howard C., W. A. Di Salvo, and R. Kapp, to Nopco Chemical Co. Production of choline salts. 2,870,198, 1-20-59, Cl. 260-501.
- Klein, John F.: *See—*
- Forrer, Gilbert R., and Klein. 2,876,363.
- Klein, Joseph J.: *See—*
- Muskat, Irving E., and Klein. 2,879,197.
- Klein, Keith W., to General Electric Co. Time control switch. 2,890,300, 6-9-59, Cl. 200-38.
- Klein, Martin E.: *See—*
- Chanzit, Lawrence, and Klein. 2,902,654.
- Klein, Martin L., to North American Aviation, Inc. Arbitrary function generator. 2,918,669, 12-22-59, Cl. 340-355.
- Klein, Mathias A., Jr., to Mathias Klein & Sons. Long nose flush cutting pliers. 2,903,790, 9-15-59, Cl. 30-134.
- Klein, Mathias, & Sons: *See—*
- Klein, Mathias A., Jr. 2,903,790.
- Klein, Norman E.: *See—*
- Wright, Edward J., and Klein. 2,890,565.
- Klein, Norman E., to Deering Milliken Research Corp. Spinning apparatus. 2,869,315, 1-20-59, Cl. 57-58.84.
- Klein, Norman E., and E. J. Wright, to Deering Milliken Research Corp. Apparatus for plying yarns. 2,914,903, 12-1-59, Cl. 57-58.3.
- Klein, Richard: *See—*
- Coogan, John H., and Klein. 2,891,245.
- Klein, Robert L. Self opening window structure. 2,917,791, 12-22-59, Cl. 20-42.
- Klein, S., Department Stores, Inc.: *See—*
- Moore, Norman. 2,901,307.
- Klein, Samuel. Curing of meats. 2,875,068, 2-24-59, Cl. 99-159.
- Klein, Samuel. Sodium free meat curing. 2,910,369, 10-27-59, Cl. 99-159.
- Klein, Stephen V.: *See—*
- Engleson, Harry E., and Klein. 2,884,117.
- Klein, Stephen V., to F. B. Redington Co. Counting device. 2,870,962, 1-27-59, Cl. 235-144.
- Klein, Victor G.: *See—*
- Mueller, Carl H., and Klein. 2,908,898.
- Klein, Victor G., J. R. Graef, and O. C. Lyles, to The McNeil Machine & Engineering Co. Lubricant gun. 2,886,215, 5-12-59, Cl. 222-256.
- Klein, Walter A.: *See—*
- Lincoln, Henry A., and Klein. 2,888,181.
- Klein, Walter W.: *See—*
- Salisbury, John D., Klein, and Hansen. 2,883,536.
- Klein, Werner, and W. Friz, to International Standard Electric Corp. Traveling wave tube of high amplification. 2,871,393, 1-27-59, Cl. 315-3.5.
- Klein, Werner, and W. Friz, to International Standard Electric Corp. High compression beam generating system especially for velocity modulated tubes. 2,905,847, 9-22-59, Cl. 313-79.
- Klein, Werner, W. Friz, and G. Osswald, to International Standard Electric Corp. Coupling arrangement for traveling wave tubes. 2,908,843, 10-13-59, Cl. 315-3.5.
- Klein, Werner, and W. Friz, to International Standard Electric Corp. Attenuation for traveling-wave tubes. 2,911,599, 11-3-59, Cl. 333-31.
- Klein, Wilhelm: *See—*
- Ostermann, Max, and Klein. 2,911,875.
- Kleine, Werner K. M., to Maskinfirma R. L. Carlstedt. Drill shank for drills. 2,895,355, 7-21-59, Cl. 77-68.



- Kleinewefers, Joh., Sohne: *See*—  
Bohme, Hans F. 2,869,459.
- Kleingers, Alfred B., Jr.: *See*—  
Bergstein, Frank D., Kleingers, and Nerenberg. 2,891,453.
- Kleingers, Alfred B., Jr., to The Interstate Folding Box Co. Handle structures for boxes and method of fabricating same. 2,918,206, 12-22-59, Cl. 229-52.
- Kleinholz, Milton P.: *See*—  
Nelson, John W., and Kleinholz. 2,899,388.
- Kleinholz, Milton P., to Sinclair Refining Co. Method of reducing corrosiveness of lubricating oils by hydrogenation. 2,893,286, 8-4-59, Cl. 208-264.
- Kleinman, Jacob L. Helmslets. 2,878,478, 3-24-59, Cl. 2-3.
- Kleinman, Jacob L. Brassieres. 2,900,983, 8-25-59, Cl. 128-482.
- Kleinman, Jacob L. Shaving implements having an assembled hingeable shearing section. 2,908,074, 10-13-59, Cl. 30-41.
- Kleinman, Jules M., to Avco Mfg. Corp. Linear sawtooth wave generator. 2,905,819, 9-22-59, Cl. 250-27.
- Kleinman, Mitchell: *See*—  
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- Kleinschmidt, Edward F., to Kleinschmidt Laboratories, Inc. Rotary typewheel printer. 2,891,648, 6-23-59, Cl. 197-12.
- Kleinschmidt Laboratories, Inc.: *See*—  
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- Kleint, Roderic E.: *See*—  
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- Kleinvogel, Hans-Joachim, and D. von Haebler. Siemens-Schuckertwerke A. G. Contact circuit for short circuiting device. 2,872,634, 2-3-59, Cl. 321-11.
- Kleinvogel, Hans-Joachim, and F. Notzold, to Siemens-Schuckertwerke A. G. Constant current flux reversal circuit for mechanical rectifiers. 2,883,600, 4-21-59, Cl. 321-48.
- Kleis, Derk: *See*—  
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- Kleis, Derk, and H. J. De Witt, to North American Philips Co., Inc. Magnetic erasing head. 2,882,347, 4-14-59, Cl. 179-100.2.
- Kleiser, James M. Thinning implement for plant seedlings. 2,879,855, 3-31-59, Cl. 172-526.
- Kleiss, Louis D., to Phillips Petroleum Co. Apparatus and process for solvent extraction. 2,911,361, 11-3-59, Cl. 208-311.
- Kleiss, Louis D., and L. W. Morgan, to Phillips Petroleum Co. Fluid separation process control. 2,917,437, 12-15-59, Cl. 202-160.
- Kleist, Herman W., to Dole Refrigerating Co. Eutectic blower unit for refrigerating spaces. 2,875,595, 3-3-59, Cl. 62-419.
- Kleist, Herman W., to Dole Refrigerating Co. Refrigerant plates. 2,889,694, 6-9-59, Cl. 62-439.
- Kleist, Herman W., and J. E. Hutchinson, to Dole Refrigerating Co. Heat exchange assembly and control. 2,885,866, 5-12-59, Cl. 62-156.
- Klemas, Seymour, and J. R. and L. M. Kaye. Power tooth brush. 2,911,660, 11-10-59, Cl. 15-28.
- Klement, John F., to Ampco Metal, Inc. Method of heat treating aluminum bronze alloy and product thereof. 2,870,051, 1-20-59, Cl. 148-21.92.
- Klement, John F., to Ampco Metal, Inc. Aluminum bronze alloy containing manganese and having improved wear resistance. 2,874,042, 2-17-59, Cl. 75-161.
- Klemm, Ernst, to H. Berg. Device for laying fencing material. 2,908,132, 10-13-59, Cl. 57-1.
- Klemm, Herman G., to Massey-Ferguson Inc. Air intake system for motor vehicles. 2,875,840, 3-3-59, Cl. 180-54.
- Klemm, William A., to Kaiser Aluminum & Chemical Corp. Method for treating materials. 2,891,297, 6-23-59, Cl. 25-155.5.
- Klempay, Raymond T. Welding apparatus, particularly for continuous strip lines. 2,874,266, 2-17-59, Cl. 219-124.
- Klemperer, Hans, to Apra Precipitator Corp. Precipitator flashover control through current and voltage response. 2,881,855, 4-14-59, Cl. 183-7.
- Klemperer, Hans, to Apra Precipitator Corp. Purging continuously energized electrostatic precipitator. 2,887,175, 5-19-59, Cl. 183-7.
- Klempt, Walter: *See*—  
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- Grosskinsky, Otto, Juttner, Klempt, and Thurauf. 2,879,288.
- Klemt, Gunter, to Jos. Schneider & Co. Means for adjusting interchangeable parts of photographic objectives. 2,879,693, 3-31-59, Cl. 88-57.
- Klemt, Günter, to Jos. Schneider & Co., Optische Werke. Varifocal objective system. 2,906,172, 9-29-59, Cl. 88-57.
- Klemt, Günter, and K. H. Macher, to Jos. Schneider & Co. Optical system with large effective image angle. 2,897,725, 8-4-59, Cl. 88-57.
- Klemt, Günter, and H. Macher, to Jos. Schneider & Co. High-speed telephoto objective. 2,906,173, 9-29-59, Cl. 88-57.
- Klenk, Karl J. Hand shear for cutting plastic laminate. 2,869,235, 1-20-59, Cl. 30-252.
- Klenz, Karl A.: *See*—  
Lando, Ellis A., and Klenz. 2,884,052.
- Klenz, Karl A. Vertical Venetian blind. 2,869,636, 1-20-59, Cl. 160-168.
- Kleparchuk, Peter. Device for the removal of tires and king pins. 2,873,795, 2-17-59, Cl. 157-1.17.
- Klepp, George F., to International Standard Electric Corp. Electric discharge devices. 2,880,350, 3-31-59, Cl. 313-258.
- Klepp, George F., to International Standard Electric Corp. Gas-filled electric discharge tube. 2,894,164, 7-7-59, Cl. 313-188.
- Klepp, George F., and D. Miller, to International Standard Electric Corp. Electric gaseous discharge tubes. 2,874,324, 2-17-59, Cl. 313-185.
- Klepper, Hans. Lining for water-proof clothing. 2,884,639, 5-5-59, Cl. 2-97.
- Klessig, Ernst F., and R. B. Pettibone, to Vickers Inc. Power transmission. 2,880,674, 4-7-59, Cl. 103-42.
- Klette, Hermann, to E. M. H. Radde. Subcutaneous hormone pellets. 2,895,875, 7-21-59, Cl. 167-58.
- Kletke, Ernst, and G. Engelmann, to Telefunken G. m. b. H. Tuner and range switch. 2,867,765, 1-6-59, Cl. 323-74.
- Klibanow, David W. Trailer constructions. 2,877,509, 3-17-59, Cl. 20-2.
- Klich, Roger H., and E. J. Wenninger, to Teletype Corp. Feed out mechanism for telegraph printers. 2,906,820, 9-29-59, Cl. 178-25.
- Klie, Robert H., to Bell Telephone Laboratories, Inc. Overload protection circuit. 2,916,708, 12-8-59, Cl. 333-18.
- Klier, Gregor: *See*—  
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- Kliesch, Günter, to Siemens-Schuckertwerke A. G. Constant current circuit for mechanical rectifiers. 2,883,601, 4-21-59, Cl. 321-48.
- Kliesch, Günter, to Siemens-Schuckertwerke A. G. Base load circuit for mechanical rectifiers. 2,883,602, 4-21-59, Cl. 321-48.
- Klikunas, Richard V.: *See*—  
Rike, Frederick F., and Klikunas. 2,867,228.
- Klim, Bertha G. Paper roll holder. 2,916,223, 12-8-59, Cl. 242-55.2.
- Klimkowski, Robert J., and R. T. Florence, to A. B. Dick Co. Azo dye duplicating process. 2,873,668, 2-17-59, Cl. 101-149.4.
- Kline, Adolph M.: *See*—  
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- Kline, Edgar A., R. E. Crouse, and R. F. Leu. Dental cutting tool. 2,901,826, 9-1-59, Cl. 32-48.
- Kline, Granville B., to Eli Lilly and Co. Process for synthesizing glutamine. 2,873,294, 2-10-59, Cl. 260-518.
- Kline, Harry E., and S. O. Vifot, to J. I. Case Co. Root crop harvester. 2,869,652, 1-20-59, Cl. 171-115.
- Kline, Hayden B., and E. Levy, to Industrial Rayon Corp. Method for handling a plurality of yarns. 2,887,843, 5-26-59, Cl. 57-157.
- Kline, Herbert S. Locking mechanism for legs of folding tables. 2,872,262, 2-3-59, Cl. 31-88.
- Kline, Herbert J. Thermal regulated mechanical movements. 2,917,932, 12-22-59, Cl. 74-100.
- Kline, Herbert S., Sr., to The Monroe Co. Folding brace. 2,877,075, 3-10-59, Cl. 311-98.
- Kline, Jack, and M. R. Richmond, to Sanders Associates, Inc. Coherent-pulsed oscillator. 2,901,707, 8-25-59, Cl. 331-173.
- Kline, Leo, and A. D. Singleton, to National Dairy Products Corp. Egg whites. 2,881,077, 4-7-59, Cl. 99-113.
- Kline, Paul C., to General Motors Corp. Ignition distributor. 2,889,418, 6-2-59, Cl. 200-19.
- Kline, Ralph W.: *See*—  
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- Kline, Sidney R.: *See*—  
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- Kling, Fred E. Hot gas filters. 2,871,977, 2-3-59, Cl. 183-45.
- Kling, Nelson G., to Technicon International Ltd. Automatic immersion apparatus. 2,872,893, 2-10-59, Cl. 118-10.
- Kling, Robert W., to Athey Products Corp. Ejector type load hauling vehicle. 2,876,918, 3-10-59, Cl. 214-82.
- Klinga, Karl I., to Aktiebolaget Cellico. Method of and means for manufacturing sulphit cellulose. 2,891,886, 6-23-59, Cl. 162-37.
- Klingelberg, W. Ferd., Sohne: *See*—  
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- Lindner, Wolfram. 2,881,508.
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- Wagner, Erich. 2,909,844.
- Wagner, Erich, and Walder. 2,895,227.
- Klinger, Guy G.: *See*—  
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- Klingler, Karl A. Pressurized extensible seals. 2,870,638, 1-27-59, Cl. 74-18.2.
- Klingler, Karl A. Two-way ball valves. 2,874,929, 2-24-59, Cl. 251-129.
- Klingler, Karl A. Lubricator for railroad car axle journal box. 2,875,003, 2-24-59, Cl. 308-88.
- Klingler, Karl A. Filler plate for journal boxes. 2,890,084, 6-9-59, Cl. 308-80.
- Klingler, Karl A. Valve structure. 2,899,169, 8-11-59, Cl. 251-107.
- Klingler, Karl A. Multi-way pivoted valve unit. 2,912,012, 11-10-59, Cl. 137-625.44.



- Klingler, Karl A. Seals for jars and the like. 2,916,173, 12-8-59, Cl. 215-40.
- Klingsberg, Erwin: *See*—  
Hardy, William B., and Klingsberg. 2,900,401.
- Klingsberg, Erwin, to American Cyanamid Co. Production of triazoles and amidrazones of the anthraquinone series. 2,884,424, 4-28-59, Cl. 260-308.
- Klingsberg, Erwin, to American Cyanamid Co. Production of triaryl 1,2,4-triazoles. 2,888,461, 5-26-59, Cl. 260-296.
- Klingsberg, Erwin, to American Cyanamid Co. Anthraquinone triazoles. 2,898,343, 8-4-59, Cl. 260-308.
- Klingspor, Carl. Grinding bodies. 2,871,633, 2-3-59, Cl. 51-207.
- Klink, John: *See*—  
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- Klink, John, to Standard Gage Co., Inc. Gage having a series of reeds to support the movable contact. 2,893,129, 7-7-59, Cl. 33-147.
- Klinkhamer, Jacob F., C. M. Van Der Burgt, and J. M. Cluwen, to North American Philips Co., Inc. Electromechanical amplifier. 2,901,555, 8-25-59, Cl. 179-171.
- Klint, Robert V.: *See*—  
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- Klint, Robert V., to General Electric Co. Vibration damping. 2,916,258, 12-8-59, Cl. 253-77.
- Klint, Robert V., and A. J. Nerad, to General Electric Co. Damping turbine buckets. 2,913,221, 11-17-59, Cl. 253-77.
- Klinzing, August F. Flight conveyor guide for barn cleaners. 2,872,022, 2-3-59, Cl. 198-137.
- Kloze, Oscar, and J. T. Liebrand, to Chas. Pfizer & Co., Inc. Pharmaceutical compositions. 2,887,436, 5-19-59, Cl. 167-81.
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- Kloze, Oscar, and J. T. Liebrand, to Chas. Pfizer & Co., Inc. Palatable antihistamine tablet. 2,887,439, 5-19-59, Cl. 167-82.
- Klipp, Jerome M., and R. J. Abramson. Disposable shopper's cart. 2,868,557, 1-13-59, Cl. 280-47.13.
- Klipper, Stanley, to Polaroid Electronics Corp. D.C. level setter for A.C. amplifiers. 2,895,017, 7-14-59, Cl. 179-171.
- Klipstein, Donald L.: *See*—  
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- Klisch, John A. Quick opening and locking mechanism. 2,879,988, 3-31-59, Cl. 268-98.
- Klitzner, Harry, Co., Inc.: *See*—  
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- Klitzner, Robert A., to Harry Klitzner Co., Inc. Badge construction. 2,877,578, 3-17-59, Cl. 40-1.5.
- Klix, Martin G. A. Safety bumper. 2,903,289, 9-8-59, Cl. 293-72.
- Klockgether, Helfried: *See*—  
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- Klockgether, Helfried, E. Müller, and A. Ossenbrunner, to Agfa Akt. Process for the retreatment of foils consisting of highly polymeric substances for the application of hydrophilic colloids. 2,874,046, 2-17-59, Cl. 96-87.
- Klockner-Georgsmarienwerke, Aktiengesellschaft: *See*—  
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- Klockner-Humboldt-Deutz Akt.: *See*—  
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- Kloepfer, Harry, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Molding composition comprising polyvinyl chloride or polyethylene and a metal oxide. 2,874,140, 2-17-59, Cl. 260-41.
- Kloepfer, Harry, and O. Schweitzer, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Preservation of the fluidity of polymethyl-methacrylate by the addition of finely divided silica. 2,882,254, 4-14-59, Cl. 260-41.
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- Klohs, Murlie W., F. Keller, and R. E. Williams, to Riker Laboratories, Inc. Process for making d,l-methysticin and d,l-dihydromethysticin. 2,870,164, 1-20-59, Cl. 260-340.5.
- Klompas, Joseph R., to Northrop Aircraft, Inc. Breakaway band-type clamp for flanged pipes. 2,882,071, 4-14-59, Cl. 285-18.
- Klompars, William, and C. D. Vellaire, to The Upjohn Co. Fungicidal composition comprising cycloheximide and solubilized lignin. 2,871,155, 1-27-59, Cl. 167-42.
- Klompas, Nicholas. Annular fairing structure for the rear frame housing of a gas turbine engine. 2,877,623, 3-17-59, Cl. 60-35.6.
- Klompas, Nicholas, and J. T. Purvis, to Orenda Engines Ltd. Segmented stator ring assembly. 2,917,276, 12-15-59, Cl. 253-78.
- Kloote, George E.: *See*—  
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- Kloote, George E., G. D. Meier, and J. A. Potchen, to Haskellite Mfg. Corp. Enclosures for refrigerated areas. 2,896,271, 7-28-59, Cl. 20-4.
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- Klooz, Paul W., to The Holo-Krome Screw Corp. Apparatus for trimming sequentially the opposite ends of an elongated workpiece. 2,881,452, 4-14-59, Cl. 10-9.
- Klooz, Paul W., to The Holo-Krome Screw Corp. Forging apparatus and stock warming means therefor. 2,901,583, 8-25-59, Cl. 219-10.49.
- Klope, Joseph C., and R. G. Chapman, to Pfadler Permutit Inc. Insulated storage tank and method of making a storage tank. 2,869,751, 1-20-59, Cl. 220-15.
- Klopf, Adam F.: *See*—  
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- Klopfenstein, King L.: *See*—  
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- Klopp, Edward M., to P. R. Mallory & Co. Inc. Corrosion inhibitors for dry cells. 2,897,250, 7-28-59, Cl. 136-107.
- Kloppenburg, Cornelis C.: *See*—  
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- Klöß, Heinrich, and W. Schacht, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of alkylmercuric-salts. 2,917,526, 12-15-59, Cl. 260-431.
- Kloss, Richard, to Klockner-Humboldt-Deutz Aktiengesellschaft. Internal combustion engine. 2,897,801, 8-4-59, Cl. 123-41.12.
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- Kloss, Richard, to Klockner-Humboldt-Deutz Akt. Fuel injection engine. 2,902,986, 9-8-59, Cl. 123-41.12.
- Klosterman, Richard L.: *See*—  
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- Klothen, Irving: *See*—  
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- Klotsch, Paul, to Ford Motor Co. Bounce chamber control mechanism for a free piston engine. 2,916,025, 12-8-59, Cl. 123-46.
- Klotz, Herman J., to International Business Machines Corp. Punching machine. 2,880,800, 4-7-59, Cl. 164-115.
- Klotz, Herman J., and V. L. Hudson, to International Business Machines Corp. Decoding analyzer. 2,879,331, 3-24-59, Cl. 178-26.
- Klotz, Lyell J., to Lloyd Brothers, Inc. Diocetyl sodium sulfosuccinate solutions in capsules. 2,885,322, 5-5-59, Cl. 167-156.
- Kloud, Jan, to Vyzkumny a zkusobni letecky ustav. Elastic coupling. 2,895,316, 7-21-59, Cl. 64-27.
- Klouse, Walter F.: *See*—  
Crehan, William J., Klouse, and Talmey. 2,908,568.
- Klug, Clarence: *See*—  
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- Klug, Eugene D., to Hercules Powder Co. Method for preparation of 3,3-disubstituted oxetane polymers. 2,895,931, 7-21-59, Cl. 260-2.
- Klug, Harry A. Engine charge-forming means. 2,884,918, 5-5-59, Cl. 123-139.
- Kluge, Adolph, Jr., to J. M. Nash Co. Method and machine for finishing the inner surfaces of hollow workpieces. 2,901,871, 9-1-59, Cl. 51-145.
- Kluge, Herman D., and F. W. Moore, to The Texas Co. Alkylation catalyst. 2,868,823, 1-13-59, Cl. 260-448.
- Kluge, Herman D., and K. Drake, to The Texas Co. Preparation of calcium phenolates and sulfurized derivatives thereof. 2,870,134, 1-20-59, Cl. 260-137.
- Kluge, Herman F., to Donley Bros. Co. Incinerator push door. 2,903,115, 9-8-59, Cl. 193-34.
- Klugman, Ira L. Precision grinding machine. 2,869,292, 1-20-59, Cl. 51-122.
- Klumb, George A., Jr.: *See*—  
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- Klyce, Battle H.: *See*—  
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- Kmetz, Joseph: *See*—  
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- Kmiecik, Leopold J., to McDonnell & Miller, Inc. Sealing means. 2,867,123, 1-6-59, Cl. 74-18.1.
- Kmiecik, Leopold J., to McDonnell & Miller, Inc. Valve construction. 2,875,978, 3-3-59, Cl. 251-333.
- Knaack, Howard S.: *See*—  
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- Knaak, William O.: *See*—  
Halbrook, James W., and Knaak. 2,919,107.
- Knaff, Leo, to Swift & Co. Method of manufacturing dry sausage and casing therefor. 2,882,163, 4-14-59, Cl. 99-109.



- Knaggs, Edward A.: *See*—  
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- Knandel, George J.: *See*—  
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- Knapp, Richard P., J. D. Moore, and M. H. Parks, to Jersey Production Research Co. Completion of wells under water. 2,906,500, 9-29-59, Cl. 255-1.8.
- Knappik, Frank P.: *See*—  
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- Knapp, Andrew S., to Knapp-Monarch Co. Electric baker. 2,886,686, 5-12-59, Cl. 219-35.
- Knapp, Andrew S., to Knapp-Monarch Co. Thermostat for multi-purpose cooker. 2,888,548, 5-26-59, Cl. 219-43.
- Knapp, Bernard L., to Diamond Alkali Co. Apparatus for separating solid-liquid-gas mixtures. 2,871,108, 1-27-59, Cl. 23-288.
- Knapp, Carroll L., Jr.: *See*—  
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- Knapp, Earle L., to Armco Steel Corp. Method and apparatus for metallic coating of metallic strands. 2,914,423, 11-24-59, Cl. 118-102.
- Knapp, George S., to The Homer Laughlin China Co. Dinnerware making apparatus. 2,902,740, 9-8-59, Cl. 25-22.
- Knapp, George S., to The Homer Laughlin China Co. Dinnerware making apparatus. 2,903,121, 9-8-59, Cl. 198-20.
- Knapp, James E.: *See*—  
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- Knapp Mills Inc.: *See*—  
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- Knapp-Monarch Co.: *See*—  
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- Knapp, Richard P., to Jersey Production Research Co. Positioning of cylindrical elements. 2,910,834, 11-3-59, Cl. 61-46.5.
- Knapp, Robert S., to Knapp-Monarch Co. Self-cleaning and metering liquid spray valve structure. 2,899,108, 8-11-59, Cl. 222-151.
- Knapp, Robert S., to Knapp-Monarch Co. Timer-switch for mixer stand. 2,903,249, 9-8-59, Cl. 259-108.
- Knapp, Walter R., to Link Aviation, Inc. Apparatus for obtaining sine and cosine function motion from rotary motion. 2,912,161, 11-10-59, Cl. 235-61.
- Knapp, William E.: *See*—  
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- Knapp, William E., and R. R. Roth, to Minneapolis-Moline Co. Transport axle lifting linkage. 2,876,017, 3-3-59, Cl. 280-47.
- Knapp, William E., and W. T. Bolckom, to American Metalurgical Products Co. Alloys. 2,888,741, 6-2-59, Cl. 29-194.
- Knapsack-Griesheim Akt.: *See*—  
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- Knarzer, Herman C., to Dille & McGuire Mfg. Co. Quick adjustment means for rotary lawn mowers. 2,894,761, 7-14-59, Cl. 280-44.
- Knarzer, Herman C., to Dille & McGuire Mfg. Co. Lawn mower adjustment mechanism. 2,909,884, 10-27-59, Cl. 56-25.4.
- Knasko, Joseph J. Method and system for adjusting television. 2,873,313, 2-10-59, Cl. 178-7.5.
- Knauer, Erwin R.: *See*—  
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- Knaus, Joseph A.: *See*—  
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- Knauss, Dalton L., to Hoffman Electronics Corp. Blocking oscillator. 2,894,212, 7-7-59, Cl. 331-148.
- Knauth, Berthold A. Flowmeter. 2,906,121, 9-29-59, Cl. 73-229.
- Knauth, Berthold A. Mechanism for measuring linear flow in flowmeters as a function of rotary motion therein. 2,915,606, 12-1-59, Cl. 200-87.
- Knebel, Herman C., to S. H. Pomeroy Co., Inc. Retractable jambs for reversible windows. 2,876,506, 3-10-59, Cl. 20-53.
- Knebel, Herman C., to S. H. Pomeroy Co., Inc. Automatic fire window structure. 2,878,906, 3-24-59, Cl. 189-74.
- Knebel, Herman C., to S. H. Pomeroy Co., Inc. Metallic window structures. 2,892,517, 6-30-59, Cl. 189-75.
- Knebel, Herman C., to S. H. Pomeroy Co., Inc. Automatic fire window. 2,896,753, 7-28-59, Cl. 189-74.
- Knecht, Emil. Record changer. 2,902,285, 9-1-59, Cl. 274-10.
- Knechtli, Ronald C.: *See*—  
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 Eichenbaum, Arie L., and Knechtli. 2,881,349.
- Knechtli, Ronald C., to Radio Corp. of America. Electron gun structure. 2,902,623, 9-1-59, Cl. 315-15.
- Kneib, Vincent J. Bale loading machine. 2,909,264, 10-20-59, Cl. 198-7.
- Kneisel, Joseph P., to Pacific Wood Products Co. Process and composition for dyeing patterns into plywood wall paneling. 2,897,040, 7-28-59, Cl. 8-6.5.
- Knell, Martin, and H. Kroll, to Geigy Chemical Corp. Polyhydroxyethyl polyamine compound. 2,906,762, 9-29-59, Cl. 260-439.
- Knepshield, Robert E., and J. Conto, to International Rectifier Corp. Electrical component mounting arrangement and method. 2,908,850, 10-13-59, Cl. 317-234.
- Kneusel, Raymond H. P., to Crown Cork & Seal Co., Inc. Metal container having a metal plug and a plastic pouring spout surrounding said plug. 2,873,897, 2-17-59, Cl. 222-567.
- Knickerbocker, Floyd B.: *See*—  
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- Knickerbocker Plastic Co., Inc.: *See*—  
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- Knickerbocker Rubber Co., Not Inc.: *See*—  
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- Kniefel, Joseph A. Machine for laying flexible pipe with attached risers. 2,909,134, 10-20-59, Cl. 111-5.
- Kniepkamp, Ernst: *See*—  
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 Reuter, Franz G., Ulderup, and Kniepkamp. 2,917,348.
- Kniepkamp, Heinrich, and G. Ziegler, to Siemens & Halske Akt. Method of and apparatus for producing semiconductor material. 2,876,147, 3-3-59, Cl. 148-1.5.
- Knight, Albert J., to International Telephone and Telegraph Corp. Image storage screens and method of making same. 2,901,649, 8-25-59, Cl. 313-68.
- Knight, Arthur P.: *See*—  
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- Knight, Arthur R. Coupling means for barges and the like. 2,917,018, 12-15-59, Cl. 114-235.
- Knight, Basil E., to C.A.V. Ltd. Air filters. 2,891,631, 6-23-59, Cl. 183-36.
- Knight, Cyril H., to Dorr-Oliver Inc. Furnace structure. 2,891,846, 6-23-59, Cl. 23-284.
- Knight, Earl V. Vehicle of the full trailer type. 2,877,858, 3-17-59, Cl. 180-14.
- Knight, Geoffrey, Jr., D. E. Humez, and R. A. Johnson, to United Aircraft Corp. Transistor measuring method and apparatus. 2,911,594, 11-3-59, Cl. 324-158.
- Knight, Harmon M.: *See*—  
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 Lee, Robert J., Kelly, and Knight. 2,918,504.
- Knight, Henry D., to The British Thomson-Houston Co. Ltd. Electric discharge devices of the mercury cathode type. 2,886,732, 5-12-59, Cl. 313-164.
- Knight, Hogan B.: *See*—  
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- Knight, James O., to L. R. Nelson Mfg. Co., Inc. Coupling for interconnected multiple tube hose. 2,877,028, 3-10-59, Cl. 285-137.
- Knight, Kenneth H. Fruit and vegetable cutter. 2,912,757, 11-17-59, Cl. 30-303.
- Knight Leather Products, Inc.: *See*—  
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- Knight, Leonard M., and R. Chapman. Steering mechanism for camera dolly. 2,901,265, 8-25-59, Cl. 280-91.
- Knight, Lorin, to The British Tabulating Machine Co. Ltd. Electronic computing apparatus. 2,873,366, 2-10-59, Cl. 250-27.
- Knight Newspapers, Inc.: *See*—  
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- Knight, Norman H., to The Upjohn Co. Isothermal distillation molecular weight apparatus. 2,901,328, 8-25-59, Cl. 23-253.
- Knight, Philip L., to Surface Combustion Corp. Burner apparatus. 2,873,798, 2-17-59, Cl. 158-109.
- Knight, Philip L., to Surface Combustion Corp. Internal-combustion burners. 2,876,831, 3-10-59, Cl. 158-99.
- Knight, Robert D., and T. Melville, to United States Steel Corp. Tie for fastening a line wire to an insulator. 2,911,695, 11-10-59, Cl. 24-81.
- Knight, Robert L. Bathtub cleaning apparatus. 2,870,457, 1-27-59, Cl. 4-173.
- Knight, Ronald G.: *See*—  
 Bray, Frederick H., and Knight. 2,872,527.  
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 Bray, Frederick H., and Knight. 2,914,615.



- Knight, Theodore L., and W. J. Bichell, to Bendix Aviation Corp. Mechanical coupler. 2,875,598, 3-3-59, Cl. 64-15.
- Knight, Warren N. N., to The British Petroleum Co. Ltd. Thermal reforming of a catalytic reformate. 2,897,132, 7-28-59, Cl. 208-65.
- Knighton, Daniel J., D. G. Haser, and G. A. Fiedler, to United States of America, Navy. Mooring device for seaplanes. 2,874,921, 2-24-59, Cl. 244-115.
- Knights, James, Co., The: *See—*  
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- Knipe, Arthur C. Apparatus for soilless cultivation, particularly gravel culture. 2,880,549, 4-7-59, Cl. 47-38.
- Knitmode Mills, Inc.: *See—*  
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- Knittel, Emil E. Combined clutch brake. 2,888,115, 5-26-59, Cl. 192-18.
- Knobel, Fritz. Adapting apparatus for fluorescent lamps. 2,894,232, 7-7-59, Cl. 336-90.
- Knobloch, James O., to Standard Oil Co. Process for production of aromatic polycarboxylic acids. 2,880,237, 3-31-59, Cl. 260-524.
- Knobloch, James O., and H. P. Liao, to Standard Oil Co. Trimellitic double anhydride. 2,911,416, 11-3-59, Cl. 260-346.3.
- Knoblock, Frederick D., and A. C. Koett, to Auto Glass Mfg. Co. Folding support base for table top. 2,902,325, 9-1-59, Cl. 311-37.
- Knoche, Raymond E. Apparatus for feeding loose-leaf metal of assembling a color television tube. 2,871,087, 1-27-59, Cl. 316-19.
- Knoche, Rudolf, to Farbenfabriken Bayer Akt. Perylene tetracarboxylic acid diimide dyestuff. 2,888,460, 5-26-59, Cl. 260-281.
- Knochel, William J.: *See—*  
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- Knochel, William J., to Westinghouse Electric Corp. Method arches. 2,879,919, 3-31-59, Cl. 221-277.
- Knochenhauer, Fritz, to VEB Funkwerk Kopenick. Oscillation-free journalling device for magnetic recording apparatus. 2,897,015, 7-28-59, Cl. 308-2.
- Knodel, Carl W., Jr. Vehicle window screen. 2,881,831, 4-14-59, Cl. 160-105.
- Knoebel, Donald E., to Westinghouse Electric Corp. Television receiver apparatus. 2,917,659, 12-15-59, Cl. 315-22.
- Knoebel, Walter C., to McQuay-Norris Mfg. Co. Piston ring assembly. 2,918,340, 12-22-59, Cl. 309-44.
- Knohl, Herbert, to The Kendall Co. Surgical stocking. 2,883,842, 4-28-59, Cl. 66-178.
- Knokey, Erwin W., to Diamond Lumber Co. Clipper and control therefor including a disc type selector means. 2,904,111, 9-15-59, Cl. 164-48.
- Knold, James P., to Armstrong Cork Co. Thermal insulation, building construction, and method of protecting thermal insulation against moisture attack. 2,887,426, 5-19-59, Cl. 154-142.
- Knoll A.G., Chemische Fabriken: *See—*  
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- Knoll Associates, Inc.: *See—*  
Savage, Robert H., and Schultz. 2,900,014.
- Knoll-Drake Products, Inc.: *See—*  
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- Knoll, Fritz. Cutting tool having a retractable protective casing. 2,911,717, 11-10-59, Cl. 30-272.
- Knoll, Karl, H.-W. Rotter, and S. Voll, to Siemens-Schuckertwerke Akt. Method for making commutators. 2,887,764, 5-26-59, Cl. 29-155.54.
- Knoll, Karl, and G. Gahn, to Siemens-Schuckertwerke Aktiengesellschaft. High temperature-resisting insulating coatings of increased durability and methods of producing same. 2,906,009, 9-29-59, Cl. 29-195.
- Knoll, Marvin E.: *See—*  
Bondley, Ralph J., and Knoll. 2,888,406.
- Knoll, Max, and P. Rudnick, to United States of America, Army. Electron storage device. 2,870,360, 1-20-59, Cl. 313-68.
- Knoll, Rudolf, to Opalite, Inc. Method of producing glaze coatings on cement or concrete walls and plates. 2,882,180, 4-14-59, Cl. 117-54.
- Knollenberg, Rudolf, and C. Hahn, to Schroder & Co. Process for making margarine. 2,915,401, 12-1-59, Cl. 99-122.
- Knopf, Kenneth K. Prime mover of the gas turbine type. 2,867,980, 1-13-59, Cl. 60-39.37.
- Knopf, Oscar A. Multiple harness attachment for a loom. 2,903,019, 9-8-59, Cl. 139-29.
- Knopp, Inc.: *See—*  
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- Knops, Ivan P., and D. C. Camps, to The De La Rue Co. Ltd. Rotary printing presses. 2,887,046, 5-19-59, Cl. 101-248.
- Knops, Ivan P., and D. C. Camps, to The De La Rue Co. Ltd. Rotary printing machines. 2,901,970, 9-1-59, Cl. 101-247.
- Knorr-Bremse G. m. b. H.: *See—*  
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Hockel, Hans L., and Ueckert. 2,871,835.  
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- Knorr, Lester L. Pipe expander. 2,905,226, 9-22-59, Cl. 153-79.
- Knosp, Robert N., C. E. Linden, and F. O. Wetzel, to The Fostick Machine Tool Co. Radial drill spindle feed. 2,882,761, 4-21-59, Cl. 77-28.
- Knosp, Robert N., C. E. Linden, and F. O. Wetzel, to The Fostick Machine Tool Co. Dial operated measuring apparatus for machine tools. 2,908,978, 10-20-59, Cl. 33-125.
- Knoth, Frederick, Jr.: *See—*  
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- Knott, Clyde L., and E. A. Deschenes, to United Shoe Machinery Corp. Lasting machines. 2,891,266, 6-23-59, Cl. 12-12.21.
- Knott, Edward B.: *See—*  
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- Knott, Joseph F., and S. Heselov. Bin dispenser. 2,888,145, 5-26-59, Cl. 21-49.
- Knott, Ralph D., and M. R. P. Young, to The General Electric Co. Ltd. Manufacture of semiconductor devices. 2,898,668, 8-11-59, Cl. 29-25.3.
- Knotz, Florian F. Manufacture of thiophosphorylchloride. 2,915,361, 12-1-59, Cl. 23-14.
- Knowles, Buford L. Garage tool. 2,883,071, 4-21-59, Cl. 214-1.
- Knowles, Edward R., to The Specialty Papers Co. Apparatus for injection molding of plastic bottles. 2,872,700, 2-10-59, Cl. 18-5.
- Knowles, Edward R. Apparatus for molding articles. 2,890,485, 6-16-59, Cl. 18-19.
- Knowles, Edward R., to The Specialty Papers Co. Plastic molding machine. 2,913,762, 11-24-59, Cl. 18-5.
- Knowles, Hugh S.: *See—*  
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- Knowles, Hugh S., and W. A. Plice, to Industrial Research Products Inc. Electro-mechanical transducing device. 2,912,522, 11-10-59, Cl. 179-108.
- Knowles, Hugh S., and J. E. Mullen, to Industrial Research Products Inc. Electro-acoustic transducer. 2,912,523, 11-10-59, Cl. 179-108.
- Knowles, John G. Hydraulic brake systems. 2,884,095, 4-28-59, Cl. 188-74.
- Knowles, M. B.: *See—*  
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- Knowles, Reginald A. Tensioning arrangement for framed flexible materials. 2,893,162, 7-7-59, Cl. 45-24.
- Knowles, William L. Process of bending wood. 2,874,753, 2-24-59, Cl. 154-33.05.
- Knowles, William S., and J. Dazzi, to Monsanto Chemical Co. Light stable halogen-containing resins containing phosphate ester and an aryl alkane sulfonate. 2,885,377, 5-5-59, Cl. 260-30.6.
- Knox, David C. Hematological tray. 2,880,865, 4-7-59, Cl. 206-72.
- Knox, David M. Picture supporting means. 2,881,544, 4-14-59, Cl. 40-156.
- Knox, David M. Ensemble for pictures and the like. 2,888,764, 6-2-59, Cl. 40-152.
- Knox, David M. Holder for pictures. 2,888,765, 6-2-59, Cl. 40-152.
- Knox, David M. Picture holder. 2,901,850, 9-1-59, Cl. 40-152.
- Knox, David R., and S. Gondek, to Bundy Tubing Co. Bending pad structure and associated apparatus for bending tube. 2,876,823, 3-10-59, Cl. 153-46.
- Knox, David R., and S. Gondek, to Bundy Tubing Co. Tube bending apparatus. 2,918,100, 12-22-59, Cl. 153-48.
- Knox, Donald G., to The National Supply Co. Free piston pumping device for gas wells and oil wells. 2,918,015, 12-22-59, Cl. 103-52.
- Knox, Granville S., to Hydril Co. Gate valve. 2,876,986, 3-10-59, Cl. 251-200.
- Knox, Granville S., to Hydril Co. Retractable seal valve. 2,883,146, 4-21-59, Cl. 251-159.
- Knox, Granville S., to Hydril Co. Rotatable well pressure seal. 2,904,357, 9-15-59, Cl. 286-16.1.
- Knox, Granville S., to Hydril Co. Sealed joint for tubing. 2,907,589, 10-6-59, Cl. 285-95.
- Knox, Granville S., to Hydril Co. Gate valve. 2,911,186, 11-3-59, Cl. 251-191.
- Knox Manufacturing Co.: *See—*  
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- Knudsen, Knud J., to The Lewis Engineering Co. Thermocouple cold junction compensator. 2,871,701, 2-3-59, Cl. 73-361.
- Knudsen, Knud J., to The Lewis Engineering Co. Multiple testing meter. 2,886,776, 5-12-59, Cl. 324-73.
- Knudsen, Knud J., to The Lewis Engineering Co. Instrument relay. 2,894,179, 7-7-59, Cl. 317-146.
- Knudsen, Mildred P.: *See—*  
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- Knudsen, Roy F.: *See—*  
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- Knudsen, William C., to California Research Corp. Off-shore seismic prospecting. 2,877,859, 3-17-59, Cl. 181-5.
- Knudson, Giltner J., to Bendix Aviation Corp. Ignition and starting electrical circuit. 2,883,560, 4-21-59, Cl. 307-10.
- Knudson, Warren A., J. T. Gier, and R. V. Dunkle, said Gier and said Dunkle assors, to said Knudson. Apparatus for determining thermal conductance and resistance. 2,878,669, 3-24-59, Cl. 73-15.



- Knuppel, Helmut: *See*—  
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- Knüppel, Helmut, to Dortmund-Hörder Hüttenunion Aktiengesellschaft. Operation of glow discharges. 2,911,570, 11-3-59, Cl. 315—325.
- Knüppel, Helmut, to Dortmund-Hörder Hüttenunion Aktiengesellschaft. Operation of glow discharges. 2,911,571, 11-3-59, Cl. 315—340.
- Knusli, Enrico: *See*—  
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Gysin, Hans, and Knusli. 2,909,420.  
Gysin, Hans, and Knusli. 2,909,421.
- Knuth, Charles J.: *See*—  
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Bavley, Abraham, Knuth, and Thomas. 2,886,544.
- Knuth, Eugene W. Garment hanger. 2,884,171, 4-28-59, Cl. 223—98.
- Knutsen, Knut A., to Compagnie des Machines Bull. Electromechanized actuating means in wire printing machines. 2,869,455, 1-20-59, Cl. 101—93.
- Knutson, Arthur: *See*—  
Mosher, Walter W., Jr., and Goldammer. 2,893,143.
- Knutson, Harold and H. G. Power ventilator for roofs. 2,868,105, 1-13-59, Cl. 98—43.
- Knutson, Harold and H. G. Roof ventilator. 2,868,106, 1-13-59, Cl. 98—43.
- Knutson, Harold and H. G. Air scupper. 2,898,841, 8-11-59, Cl. 98—116.
- Knutson, Harold G.: *See*—  
Knutson, Harold and H. G. 2,868,105.  
Knutson, Harold and H. G. 2,868,106.  
Knutson, Harold and H. G. 2,898,841.
- Knutsson-Hall, Folke K.: *See*—  
Hjelm, Arvid, and Knutsson-Hall. 2,871,637.
- Kobayashi, Eiji: *See*—  
Suyama, Hidenari, Kobayashi, Sakata, Hata, Uzumaki, Ishii, Kiyota, and Haioka. 2,890,927.
- Kobayashi, Takizo, to K. Tanaka. Flash lighting operating circuit for a fluorescent discharge lamp. 2,906,923, 9-29-59, Cl. 315—100.
- Kobayashi, Tsunetoshi. Vacuum loss indicator for sealed containers. 2,880,691, 4-7-59, Cl. 116—114.
- Kobbe, John R., and W. J. Polits, to Tektronix, Inc. Electrical probe. 2,883,619, 4-21-59, Cl. 324—72.5.
- Kobe, Inc.: *See*—  
Coberly, Clarence J. 2,869,470.  
Coberly, Clarence J. 2,910,945.
- Kober, Ehrenfried: *See*—  
Grundmann, Christoph J., and Kober. 2,867,621.
- Kober, William, to TKM Electric Corp. Dynamoelectric machine. 2,873,395, 2-10-59, Cl. 310—112.
- Kober, William. Electric generator and regulator. 2,892,144, 6-23-59, Cl. 322—49.
- Koble, Robert A.: *See*—  
Davison, Joseph W., Williams, and Koble. 2,905,734.  
Williams, Jack R., and Koble. 2,909,038.
- Koble, Robert A., to Phillips Petroleum Co. Purification of gases. 2,907,409, 10-6-59, Cl. 183—115.
- Koble, Robert A., to Phillips Petroleum Co. Olefin purification by solvent extraction. 2,908,731, 10-13-59, Cl. 260—677.
- Kobler, Jan K., to Finney Mfg. Co. Dual bank antenna array. 2,893,004, 6-30-59, Cl. 343—818.
- Kobler, Richard, to McGraw-Edison Co. Dictation equipment. 2,881,264, 4-7-59, Cl. 179—100.4.
- Koblitz, Francis F., to Callery Chemical Co. Production of boron trifluoride dihydrate. 2,919,177, 12-29-59, Cl. 23—205.
- Kobryner, Herman H., to Murray Mfg. Corp. Enclosure. 2,877,919, 3-17-59, Cl. 220—3.8.
- Kobryner, Herman H., to Murray Mfg. Corp. Pullout switch. 2,907,849, 10-6-59, Cl. 200—119.
- Kobs, Roger D., to Northrup, King & Co. Method of forming seed starters. 2,867,946, 1-13-59, Cl. 47—58.
- Kobs, Roger D., to Northrup, King & Co. Combination seed merchandising and germinating package. 2,893,168, 7-7-59, Cl. 47—37.
- Kobuke, Yoshimasa: *See*—  
Uehara, Yasuo, Kobuke, and Tomishima. 2,882,238.
- Kobus, Anton: *See*—  
Ziesche, Kurt, Kobus, and May. 2,905,020.
- Kobusch, Helmut: *See*—  
Darmann, Otto, Kobusch, and Speith. 2,900,285.
- Kobylinski, Alfred W., to United States of America, Navy. Positive cable terminal nut locking device. 2,879,089, 3-24-59, Cl. 287—75.
- Kocay, Witold R., and A. O. Mogenssen, to American Cyanamid Co. Apparatus embodying a liquid applicator. 2,885,878, 5-12-59, Cl. 68—205.
- Kocee, Jime,  $\frac{1}{4}$  each to L. and T. Economou, P. A. Castles, L. P. Golfos, J. M. Hontalas, and A. J. Mathews. Combustion device. 2,889,002, 6-2-59, Cl. 183—6.
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- Kocen, Leonard A.: *See*—  
Goodman, Walter. 2,872,090.
- Koch, Alfred R., to Minneapolis-Honeywell Regulator Co. Safety control system. 2,882,456, 4-14-59, Cl. 317—141.
- Koch, Carl. Photographic camera. 2,909,974, 10-27-59, Cl. 95—11.
- Koch, Earl E., and H. G. McCarty, to Sperry Rand Corp. Yoke retainer for separable drive shafts between vehicles. 2,885,015, 5-5-59, Cl. 180—14.
- Koch Engineering Co., Inc.: *See*—  
Koch, Fred C. 2,887,307.  
Koch, Fred C. 2,889,003.  
Koch, Fred C. 2,889,140.  
Thrift, Griffin C. 2,903,251.
- Koch, Eugene C., and K. J. Ray, to Foster Wheeler Corp. Electric fluid heater. 2,868,944, 1-13-59, Cl. 219—38.
- Koch, Fred C., to Koch Engineering Co., Inc. Industrial water cooling tower. 2,887,307, 5-19-59, Cl. 261—24.
- Koch, Fred C., to Koch Engineering Co., Inc. Cooling tower. 2,889,003, 6-2-59, Cl. 183—13.
- Koch, Fred C., to Koch Engineering Co., Inc. Industrial water-cooling tower construction. 2,889,140, 6-2-59, Cl. 261—24.
- Koch, Fred C., and W. D. Shields, to Voss Engineering Co. Radial tilt roller levelers. 2,890,738, 6-16-59, Cl. 153—107.
- Koch, Friedrich-Karl: *See*—  
Louis, Claus, Sieber, and Koch. 2,867,823.
- Koch, Fritz, to W. Koch. Magnet game or toy. 2,908,110, 10-13-59, Cl. 46—238.
- Koch, Gustav H., and R. S. Radcliffe, to Westinghouse Electric Corp. Air translating apparatus. 2,872,988, 2-10-59, Cl. 170—169.
- Koch, H., & Sons: *See*—  
Gaylord, John A. 2,895,200.
- Koch, Hans J.: *See*—  
Koch, Hans R. W. A. and H. J. 2,895,720.
- Koch, Hans R. W. A. and H. J. Apparatus for treating granular material. 2,895,720, 7-21-59, Cl. 259—5.
- Koch, Henry J., to National Union Radio Corp., now by change of name to National Union Electric Corp. Method of manufacturing an electron tube. 2,889,670, 6-9-59, Cl. 53—9.
- Koch, Herbert, and W. Huisken, to Studiengesellschaft Kohle mit beschränkter Haftung. Process for the production of carboxylic acids. 2,876,241, 3-3-59, Cl. 260—413.
- Koch, Leonard J., to United States of America, Atomic Energy Commission. Method and apparatus for improving performance of a fast reactor. 2,870,076, 1-20-59, Cl. 204—193.2.
- Koch, Leonard J., to United States of America, Atomic Energy Commission. Indexing mechanism. 2,905,338, 9-22-59, Cl. 214—1.
- Koch, Melvin B., to Animal Trap Co. of America. Automatic carton packing machine. 2,900,773, 8-25-59, Cl. 53—62.
- Koch, Paul H., to The Babcock & Wilcox Co. Method of and apparatus for vapor superheat temperature control with gas recirculation. 2,871,833, 2-3-59, Cl. 122—478.
- Koch, Paul H., to The Babcock & Wilcox Co. Vapor generating and superheating unit with recirculated gas introduction to a pulverized coal fired furnace for superheat control. 2,882,871, 4-21-59, Cl. 122—478.
- Koch, Paul H., to The Babcock & Wilcox Co. Vapor generating and superheating unit having multiple entry of returned heating gases. 2,884,909, 5-5-59, Cl. 122—478.
- Koch, Paul H., to The Babcock & Wilcox Co. Steam generating and superheating unit with recirculated gas introduction at one end of hopper bottom furnace. 2,897,796, 8-4-59, Cl. 122—478.
- Koch, Paul H., to The Babcock & Wilcox Co. Steam generating, superheating, and reheating unit, and method effected thereby. 2,897,797, 8-4-59, Cl. 122—478.
- Koch Refrigerators, Inc.: *See*—  
Litman, Chester K. 2,883,253.
- Koch, Richard C., to I. D. E. A., Inc. Transistor oscillator-mixer with received and local oscillations applied between emitter and base. 2,880,312, 3-31-59, Cl. 250—20.
- Koch, Richard C., to I. D. E. A., Inc. Transistor radio apparatus. 2,892,931, 6-30-59, Cl. 250—20.
- Koch, Robert C., to The Firestone Tire & Rubber Co. Coated tubeless tire chafer strip. 2,879,824, 3-31-59, Cl. 152—362.
- Koch, Robert C., to The Firestone Tire & Rubber Co. Tire chafer. 2,905,222, 9-22-59, Cl. 152—362.
- Koch, Robert H., General Motors Corp. Method of making bearings. 2,913,859, 11-24-59, Cl. 51—291.
- Koch, Royal G., and H. O. Spaulding. Valve for liquid reservoirs and particularly for water closets with water control means. 2,869,141, 1-20-59, Cl. 4—56.
- Koch, Walter, to Manufacturers Chemical Corp. Preparation of diffusion coatings on metals. 2,887,407, 5-19-59, Cl. 117—107.
- Koch, Walter T., M. R. Lytton, and E. A. Wielicki, to American Viscose Corp. Polypinates. 2,892,814, 6-30-59, Cl. 260—75.
- Koch, Werner, to Faber & Schleicher Akt. Ink roller interrupter for rotary printing machines. 2,875,692, 3-3-59, Cl. 101—352.
- Koch, Werner, to Faber & Schleicher Akt. Gripper for use in printing machines. 2,882,049, 4-14-59, Cl. 271—79.
- Koch, Werner, to Faber & Schleicher Akt. Device for drying the blanket cylinders in offset printing machines. 2,884,855, 5-5-59, Cl. 101—142.



- Koch, Wilhelm, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Solid, stable diazonium compound and a process of preparing the same. 2,897,187, 7-28-59, Cl. 260-141.
- Koch, Wolfgang: *See—*  
Koch, Fritz. 2,908,110.
- Kochale, Ernest P., Jr.: *See—*  
Akely, William S., and Kochale. 2,914,657.
- Kochendorfer, Fredrick A. Combined dishwasher and sink apparatus. 2,912,988, 11-17-59, Cl. 134-58.
- Kocher, Earl T., to Visco Products Co. Surface active dicarboxylic acid esters of polyalkylene oxides. 2,911,434, 11-3-59, Cl. 260-475.
- Kocher, Erich J., to The Vilter Mfg. Co. Refrigerant receiver and oil separator. 2,867,098, 1-6-59, Cl. 62-473.
- Kocher, Erich J., and W. I. Grant, to The Vilter Mfg. Co. Refrigerated hermetically sealed motors. 2,891,391, 6-23-59, Cl. 62-475.
- Kocher, Erich J., and S. A. Tomkowlak, to The Vilter Mfg. Co. Gauge mounting. 2,897,675, 8-4-59, Cl. 73-420.
- Kochevar, Henry J., to Bendix Aviation Corp. Electronic bias switch. 2,890,332, 6-9-59, Cl. 250-2.
- Kochevar, Joseph F., and J. H. Reichwein, to Revcor, Inc. Blower wheel construction. 2,915,240, 12-1-59, Cl. 230-134.
- Kochheim, Gerhard: *See—*  
Kuntz, Josef. 2,893,225.
- Kochjohann, Ernst: *See—*  
Thielen, Anton, and Kochjohann. 2,889,574.
- Koci, Jerry C., to Chicago Dynamic Industries, Inc. Sliding disc game. 2,878,022, 3-17-59, Cl. 273-126.
- Koci, Ludvik J.: *See—*  
Jepson, Ivar, and Koci. 2,903,552.
- Koci, Ludvik J., to Sunbeam Corp. Calendar mechanism. 2,886,910, 5-19-59, Cl. 40-112.
- Koci, Ludvik J., to Sunbeam Corp. Combined waffle baker and grill. 2,899,888, 8-18-59, Cl. 99-331.
- Kock, Winston E.: *See—*  
Bogert, Bruce P., and Kock. 2,890,285.
- Kock, Winston E., to Bell Telephone Laboratories, Inc. Acoustic transmission systems. 2,872,994, 2-10-59, Cl. 181-5.
- Kock, Winston E., to Bell Telephone Laboratories, Inc. Apparatus for utilization of higher order acoustic waves. 2,912,061, 11-10-59, Cl. 181-31.
- Kock, Winston E., and R. L. Miller, to Bell Telephone Laboratories, Inc. Two-way television over telephone lines. 2,895,005, 7-14-59, Cl. 178-5.6.
- Kocks, Friedrich. Apparatus for making slotted tubes. 2,911,030, 11-3-59, Cl. 153-32.
- Kocks, Friedrich. Apparatus for conveying ingots and the like. 2,919,125, 12-29-59, Cl. 266-5.
- Kocks, Friedrich, and A. Hinkel. Inductor device. 2,873,344, 2-10-59, Cl. 219-10.43.
- Kocourek, Robert J. Wiper mechanism. 2,895,157, 7-21-59, Cl. 15-253.
- Koesi, Louis. Speed limiting device for vehicles. 2,906,141, 9-29-59, Cl. 74-482.
- Koda, Arthur J., to C. P. Clare & Co. Contact structure for mercury relays. 2,914,634, 11-24-59, Cl. 200-112.
- Koda, Arthur J., and J. W. Scannell, to C. P. Clare & Co. Center stable polar relay. 2,888,533, 5-26-59, Cl. 200-93.
- Koda, Nobuo J.: *See—*  
Smith, George F., and Koda. 2,887,597.
- Kodama, George T., deceased, by L. T. Kodama, administrator, to Sprague Electric Co. Electrical capacitor. 2,895,093, 7-14-59, Cl. 317-242.
- Kodama, Koretaka: *See—*  
Kanamori, Kuro, Endo, Kodama, and Tokuhisa. 2,918,365.
- Kodama, Lloyd T.: *See—*  
Kodama, George T. 2,895,093.
- Kodra, Esper, to Joy Mfg. Co. Compressor. 2,873,061, 2-10-59, Cl. 230-212.
- Kodra, Esper, and E. J. Doperalski, to Joy Mfg. Co. Piston assembly. 2,911,271, 11-3-59, Cl. 309-29.
- Kodras, Rudolph, to International Minerals & Chemicals Corp. Synthesis of glutamic acid. 2,897,209, 7-28-59, Cl. 260-326.3.
- Kodras, Rudolph, to International Minerals & Chemical Corp. Glutaric acid compound. 2,904,555, 9-15-59, Cl. 260-339.
- Koe, Billie K.: *See—*  
Celmer, Walter D., and Koe. 2,891,051.
- Koebel Diamond Tool Co.: *See—*  
Jahnke, David H. 2,870,993.
- Koehl, Frank J., to Ford Motor Co. Brake actuating mechanism for motor vehicle. 2,869,394, 1-20-59, Cl. 74-520.
- Koehl, Herman, to C. E. M. Co. Button with interchangeable inlay. 2,881,495, 4-14-59, Cl. 24-113.
- Koehl, Herman, to C.E.M. Co. Self coring grommet. 2,901,800, 9-1-59, Cl. 24-141.
- Koehler Aircraft Products Co.: *See—*  
Koehler, Gordon T. 2,869,577.
- Koehler, Gordon T. 2,916,255.
- Koehler, Albert T., H. Palmleaf, and M. E. Ross, to A. J. Gorrard & Co. Strapping seal and package therefor. 2,881,915, 4-14-59, Cl. 206-65.
- Koehler, Edwin H. Slide fastener guard. 2,911,699, 11-10-59, Cl. 24-205.15.
- Koehler, Gordon T., to Koehler Aircraft Products Co. Fluid quantity control. 2,869,577, 1-20-59, Cl. 137-414.
- Koehler, Gordon T., to Koehler Aircraft Products Co. Diaphragm valve. 2,916,255, 12-8-59, Cl. 251-331.
- Koehler Mfg. Co.: *See—*  
Lozeau, Homer A. 2,898,539.
- Poole, Alton B. 2,912,479.
- Koehler, Max. Piston ring and method of making same. 2,910,333, 10-27-59, Cl. 309-44.
- Koehler, Robert B., to International Business Machines Corp. Gas tube accumulator carry circuit. 2,872,108, 2-3-59, Cl. 235-61.
- Koelle, Otto, to Will Corp. Flexible coupled manometer. 2,894,393, 7-14-59, Cl. 73-401.
- Koehn, Lorenz: *See—*  
Brüne, Herbert, and Koehn. 2,872,060.
- Koehring Co.: *See—*  
Martinson, Edwin O. 2,885,043.
- Purcell, Howard M. 2,913,994.
- Roberts, Howard C. 2,880,985.
- Koelwijn, Arie, to North American Philips Co., Inc. Glow discharge tube. 2,872,608, 2-3-59, Cl. 313-198.
- Koelsch, Albert C., Jr., and R. B. De Lano, Jr., to International Business Machines Corp. Electro-optical display apparatus. 2,909,973, 10-27-59, Cl. 95-4.5.
- Koelsch, Henry J. Lever tool. 2,891,766, 6-23-59, Cl. 254-120.
- Koelsch, Walter: *See—*  
Pistor, Hans J., and Koelsch. 2,878,258.
- Koenecke, Donald F., to Esso Research and Engineering Co. Viscosity stable oxidized polymer solutions. 2,908,585, 10-13-59, Cl. 106-287.
- Koenig, Emil L., deceased; C. Peterson, executor. Detector and lock control for drawbridge lift rails. 2,875,325, 2-24-59, Cl. 246-118.
- Koenig, Eugene H., to Keuffel & Esser Co. Scribing instrument. 2,902,760, 9-8-59, Cl. 30-164.9.
- Koenig, Eugene H., to Keuffel & Esser Co. Scribing instrument. 2,902,761, 9-8-59, Cl. 30-164.9.
- Koenig, Gerald W.: *See—*  
Koenig, Roger T., and G. W. 2,915,333.
- Koenig, Joseph L., to Koenig & Uekermann K.G. Detachable collar construction. 2,885,682, 5-12-59, Cl. 2-124.
- Koenig, Karl T., to North American Aviation, Inc. Locking device for torqued nuts. 2,880,637, 4-7-59, Cl. 81-10.
- Koenig, Martin F., to Cutler-Hammer, Inc. Electric switches of the cam-lever-operated type. Re. 24,725, 10-27-59, Cl. 200-153.
- Koenig, Martin F., to Cutler-Hammer, Inc. Electric switches of the cam-lever operated type. 2,868,929, 1-13-59, Cl. 200-153.
- Koenig, Martin F., to Cutler-Hammer, Inc. Snap switches. 2,918,544, 12-22-59, Cl. 200-76.
- Koenig, Nathan H., and D. Swern, to United States of America, Agriculture. (Alkylthio)-, (acetylthio)- and (arythio)-undecanoic acids. 2,892,852, 6-30-59, Cl. 260-400.
- Koenig, Nathan H., and D. Swern, to United States of America, Agriculture. (Alkyl and aryl sulfinyl)- and (alkyl and aryl sulfonyl)-undecanoic acids. 2,892,853, 6-30-59, Cl. 260-400.
- Koenig, Paul H.: *See—*  
De Pew, Thomas N., Sardo, and Koenig. 2,873,935.
- Koenig, Paul W., to General Electric Co. Semiconductor devices. 2,876,399, 3-3-59, Cl. 317-234.
- Koenig, Robert H., to Tapewitch Corp. of America. Tape switch. 2,896,042, 7-21-59, Cl. 200-86.
- Koenig, Roger T., and G. W. Irrigation pipe carrier. 2,915,333, 12-1-59, Cl. 294-104.
- Koenig & Uekermann K.G.: *See—*  
Koenig, Joseph L. 2,885,682.
- Koenig, Walter, Jr., to Bell Telephone Laboratories, Inc. Relay chain circuit. 2,895,088, 7-14-59, Cl. 317-139.
- Koenig, William E. Juice extractor. 2,870,653, 1-27-59, Cl. 74-721.
- Koenigsberg, Max, to The Englander Co., Inc. Innerspring foam mattress. 2,874,389, 2-24-59, Cl. 5-351.
- Koepke, John F., J. J. Zimsky, and W. A. Mocker, to McGraw-Edison Co. Encased electrical apparatus having pressure relief means. 2,904,616, 9-15-59, Cl. 174-11.
- Koepfel, Beverly W., to Seismograph Service Corp. Radio location system. 2,871,474, 1-27-59, Cl. 343-105.
- Koepfel, Fred K.: *See—*  
Kunkel, Gerhardt P., and Koepfel. 2,894,263.
- Kunkel, Gerhardt P., and Koepfel. 2,915,083.
- Koerber, William C. Automotive indicator. 2,912,776, 11-17-59, Cl. 40-70.
- Koerner, Harry E.: *See—*  
Guentner, Robert L., and Koerner. 2,892,089.
- Koerner, Harry E., to Westinghouse Electric Corp. X-ray apparatus. 2,892,090, 6-23-59, Cl. 250-66.
- Koert, Hubert: *See—*  
Bader, Erich, and Koert. 2,894,932.
- Koeske, Tom J., to Chain Belt Co. Cantilevered chain take-up for settling tanks. 2,909,274, 10-20-59, Cl. 198-208.
- Koester, Charles J., to American Optical Co. Half-shade devices for use with polarizing instruments. 2,880,648, 4-7-59, Cl. 88-39.
- Koester, Melvin C., to Libbey-Owens-Ford Glass Co. Shipping container for glass sheets. 2,873,024, 2-10-59, Cl. 206-62.
- Koester, Roland: *See—*  
Ziegler, Karl, and Koester. 2,909,547.
- Koetke, Friedrich A. K., to Dreher Mfg. Co. Artificial joint. 2,877,033, 3-10-59, Cl. 287-99.



- Koets, Augustinus A. A. M., J. C. van Vessem, and W. A. Roovers, to North American Philips Co., Inc. Semi-conductor device. 2,877,392, 3-10-59, Cl. 317-234.
- Koett, Albert C.: *See*—  
Knoblock, Frederick D., and Koett. 2,902,325.
- Kofahl, David C., to Richfield Oil Corp. Releasing head for submarine conductor casing. 2,917,281, 12-15-59, Cl. 255-2.5.
- Koffler, Robert W.: *See*—  
Richmond, Francis M., Pennington, and Koffler. 2,909,426.
- Koffler, Sol. Feet for luggage. 2,895,574, 7-21-59, Cl. 190-37.
- Kofoed, Ione E.: *See*—  
Darnutzer, Donna J., Marsh, and Kofoed. 2,892,909.
- Koft, Emil, Jr.: *See*—  
Ciapetta, Frank G., Koft, and Meisel. 2,876,268.
- Kogan, Jack. Window screen for an automobile. 2,873,800, 2-17-59, Cl. 160-180.
- Kohfeldt, Walter C., and F. J. Hebert, to Esso Research and Engineering Co. Removing and preventing coke formation in tubular heaters by use of potassium carbonate. 2,893,941, 7-7-59, Cl. 208-48.
- Koh-i-noor Prosecc n. Nisou, narodni podnik: *See*—  
Cupak, Karel. 2,902,878.  
Cupak, Karel. 2,905,002.
- Kohinoor, Waldes, Inc.: *See*—  
Erdmann, Hans. 2,900,107.
- Kohl, Douglas A., to General Mills, Inc. Masking method of producing a humidity sensor. 2,906,648, 9-29-59, Cl. 117-211.
- Kohl, Douglas A., to General Mills, Inc. Coating and grinding method of making a humidity sensor. 2,908,595, 10-13-59, Cl. 117-212.
- Kohl, Gerald C. Self-retracting nozzle unit for subsurface water sprinkler systems. 2,901,183, 8-25-59, Cl. 239-205.
- Kohl, Karl, to Karl Mayer, Erste Hessische Wirkmaschinen-Fabrik G.m.b.H. Needle holder. 2,902,847, 9-8-59, Cl. 66-114.
- Kohlenscheidungs-Gesellschaft m. b. H.: *See*—  
Braun, Georg. 2,899,942.  
Fischer, Adalbert. 2,873,037.  
Korner, Alfred. 2,917,011.  
Krug, Julius, and Goltz. 2,917,248.  
Steinert, Gerhard. 2,902,017.
- Kohler, Daniel C. Brake system for tractor trailers. 2,905,273, 9-22-59, Cl. 188-3.
- Köhler, Eduard. Dispensing machine. 2,904,215, 9-15-59, Cl. 221-81.
- Kohler, Fred. Arc suppressor for dielectric heating equipment. 2,896,055, 7-21-59, Cl. 219-1077.
- Kohler, Fred, and W. C. Rudd, to Magnetic Heating Corp. Welding of strip ends and the like. 2,919,342, 12-29-59, Cl. 219-104.
- Kohler, Frederick K.: *See*—  
Kohler, Paul F. and F. K. 2,892,332.
- Köhler, Gerhard A., to Schiess Akt. Twisting spindle. 2,875,573, 3-3-59, Cl. 57-102.
- Kohler, Hans W., to United States of America, Army. Generation of waves having accurately predetermined phase settings. 2,910,586, 10-27-59, Cl. 250-27.
- Kohler, Hans W., to United States of America, Army. Electronic direction sensitive doppler device. 2,911,641, 11-3-59, Cl. 343-12.
- Kohler, Jacob W. L.: *See*—  
Jonkers, Cornelius O., and Köhler. 2,872,789.  
Jonkers, Cornelius O., and Köhler. 2,897,655.  
Van der Ster, Johannes, and Kohler. 2,875,587.
- Köhler, Jacob W. L., to North American Philips Co., Inc. Single-acting hot-gas reciprocating engine. 2,872,779, 2-10-59, Cl. 60-24.
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- Köhler, Jacob W. L., and J. J. W. Den Haan, to North American Philips Co., Inc. Metal piston. 2,898,166, 8-4-59, Cl. 309-23.
- Köhler, Jacob W. L., and H. Fokker, to North American Philips Co., Inc. Cold-gas refrigerating apparatus. 2,907,175, 10-6-59, Cl. 62-6.
- Kohler, Paul F. and F. K. Sinkers-retrieving jack-spring and operating mechanism. 2,892,332, 6-30-59, Cl. 66-110.
- Kohler, Paul, D. Porret, and F. Tetaz, to Ciba Ltd. Process for the manufacture of trialkyl phosphites. 2,905,705, 9-22-59, Cl. 260-461.
- Kohler, Rudolf, and W. Dierich, to Henkel & Cie. G.m.b.H. Amides of alginic acid. 2,881,161, 4-7-59, Cl. 260-209.6.
- Kohler, Rudolf, and H. Pietsch, to Henkel & Cie. G.m.b.H. Synthetic resins, and process of making same. 2,915,484, 12-1-59, Cl. 260-18.
- Köhler, Rudolf, and W. Dierichs, to Henkel & Cie. G.m.b.H. Product and process for the production of aqueous gels. 2,919,198, 12-29-59, Cl. 99-131.
- Köhler, Werner: *See*—  
Gieray, Konrad, Köhler, and Recken. 2,913,894.
- Köhler, Werner H., to Daimler-Benz Aktiengesellschaft. Indicating instrument with noise-absorbing properties, particularly a speedometer for vehicles. 2,915,304, 12-1-59, Cl. 264-1.
- Kohlhagen, Walter, to The E. Ingraham Co. Commutator-type electric motor of temperature-controlled output torque. 2,891,182, 6-16-59, Cl. 310-40.
- Kohlhagen, Walter, to The E. Ingraham Co. Commutator-type electric motor of regulated output torque. 2,897,381, 7-28-59, Cl. 310-40.
- Kohlhagen, Walter, to The E. Ingraham Co. Commutator-type electric motor of regulated output torque. 2,905,839, 9-22-59, Cl. 310-40.
- Kohls, Erich E.: *See*—  
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- Kohman, Girard T., to Bell Telephone Laboratories, Inc. Growing of quartz crystals. 2,895,812, 7-21-59, Cl. 23-301.
- Kohman, Girard T., W. P. Mason, and K. B. McAfee, Jr., to Bell Telephone Laboratories, Inc. Separation of gases by diffusion. 2,892,508, 6-30-59, Cl. 183-2.
- Kohman, Truman P., and B. B. Weissbourd, to United States of America, Atomic Energy Commission. Measuring apparatus. 2,874,306, 2-17-59, 250-83.6.
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- Kohn, Gustave K., to California Spray-Chemical Corp. Method of inhibiting corrosion of ferrous metal surfaces. 2,873,252, 2-10-59, Cl. 252-8.55.
- Kohn, James P.: *See*—  
Kurata, Fred, and Kohn. 2,900,797.  
Kurata, Fred, and Kohn. 2,901,326.
- Kohn, Samuel, and H. Bourdot, to Office National d'Etudes et de Recherches Aeronautiques. Preparation of organo-halo-silanes. 2,904,574, 9-15-59, Cl. 260-448.2.
- Kohn, Samuel T., to Sorensen & Co., Inc. Voltage regulator. 2,914,721, 11-24-59, Cl. 323-60.
- Kohn, Stéphane, to Forges et Ateliers de Constructions Electriques de Jeumont. Electric circuit-breakers. 2,878,402, 3-17-59, Cl. 307-133.
- Köhenkamp, Johann D., H. F. J. Sprengel, and H. P. Tietgen, to H. C. Stulcken Sohn. Loading devices of ships. 2,914,193, 11-24-59, Cl. 212-3.
- Kohner, Melvin, and J. A. Wright, to Supreme Products Corp. Cutters for electric shavers. 2,900,719, 8-25-59, Cl. 30-43.
- Kohtaki, Teizo. Plunger pump assembly. 2,890,656, 6-16-59, Cl. 103-5.
- Koistinen, Arnold A. Floral display container. 2,908,112, 10-13-59, Cl. 47-41.
- Koivisto, Sulo C., and C. W. van't Veld. Portable refrigeration unit. 2,871,674, 2-3-59, Cl. 62-232.
- Kojima, Seiichi. Method of making laminated furniture or part thereof. 2,903,390, 9-8-59, Cl. 154-125.
- Kojis, John J.: *See*—  
De Neergaard, Leif E. 2,882,475.  
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- Kok, Cornelis J. M. Door latch. 2,881,020, 4-7-59, Cl. 292-78.
- Kokes, Richard J.: *See*—  
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- Kokko, Paul N. Collapsible steering column. 2,905,018, 9-22-59, Cl. 74-493.
- Kokus, Michael: *See*—  
Jacobs, David A., Kokus, and Gabriele. 2,908,281.
- Kokusai Denki Kabushiki Kaisha: *See*—  
Ichijo, Bunjiro. 2,906,950.
- Kokusai Denshin Denwa Co., Ltd.: *See*—  
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- Kolar, Joseph F. Valve actuator for fluid connector. 2,896,971, 7-28-59, Cl. 284-4.
- Kolar, Peter D.: *See*—  
Harrington, Robert D., Heveran, and Kolar. 2,896,035.
- Kolb, Andrew L., to Kaiser Aluminum & Chemical Corp. Article of manufacture. 2,901,723, 8-25-59, Cl. 339-114.
- Kolb, Armstrong H. Two-legged folding table construction. 2,879,118, 3-24-59, Cl. 311-80.
- Kolb, Arthur F.: *See*—  
Rosing, Theodore F., Kolb, and Kuhn. 2,875,297.
- Kolb, Günter, and W. Becker, to Farbenfabriken Bayer Akt. Terpolymers of diolefins with half-esters of maleic acid and a monoolefinic monomer. 2,891,039, 6-16-59, Cl. 260-78.5.
- Kolb, Kenneth E., to Standard Oil Co. Process for preparing glycol esters of benzene dicarboxylic acids. 2,901,505, 8-25-59, Cl. 260-475.
- Kolb, Paul, G. F. Arkless, and J. R. Bolter, to C. A. Parsons & Co. Ltd. Axial locking of rotor blades for turbines and the like. 2,867,408, 1-6-59, Cl. 253-77.
- Kolb, Walter J. Traffic signal adaptor unit. 2,871,599, 2-3-59, Cl. 40-131.
- Kolb, Wilhelm: *See*—  
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Müller, Wilhelm. 2,891,709.
- Kolbe, Adelbert E., to General Motors Corp. Inlet manifold. 2,882,875, 4-21-59, Cl. 123-52.
- Kolbe, Adelbert E., to General Motors Corp. Interior ventilation system. 2,907,309, 10-6-59, Cl. 123-41.86.



- Kolbe, Adelbert E., to General Motors Corp. Oil separator for engine crankcase ventilation system. 2,916,020, 12-8-59, Cl. 121-194.
- Kolbe, Adelbert E., and W. W. Rohrbacher, to General Motors Corp. Engine cooling system. 2,909,162, 10-20-59, Cl. 123-41.73.
- Kolbe, Frank F., to The Maumee Collieries Co. Method of blasting. 2,903,969, 9-15-59, Cl. 102-23.
- Kolbe, Frank F., to The United Electric Coal Companies. Excavating apparatus. 2,909,855, 10-27-59, Cl. 37-189.
- Kolbe, Joachim. Non-metallic fluid pressure springs for 2-motion center banking cars. 2,887,323, 5-19-59, Cl. 230-112.
- Kolbe, Raymond G., deceased; R. C. Gibbons, executrix of said R. G. Kolbe; 10% to D. and M. Grantham. Device for connecting drill steels with a source of fluid under pressure. 2,889,157, 6-2-59, Cl. 285-81.
- Kolbe, William H.: See—  
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- Kolbe, William H., to General Motors Corp. Fuel injection enrichment device. 2,911,203, 11-3-59, Cl. 261-37.
- Kölbel, Herbert, and P. Ackermann. Apparatus for carbon monoxide hydrogenation. 2,868,627, 1-13-59, Cl. 23-288.
- Kölbel, Herbert, and F. Engelhardt, to Rheinpreussen Aktiengesellschaft fuer Bergbau und Chemie. Synthesis of hydrocarbons and oxygen-containing organic compounds. 2,917,531, 12-15-59, Cl. 260-449.6.
- Kolbl, Franz, and K. Messner, to Schwarzkopf Development Corp. Sintering of shaped cemented metal bodies. 2,894,836, 7-14-59, Cl. 75-200.
- Kolcast Industries, Inc.: See—  
Schilling, Lewis R. 2,871,528.
- Kolesa, Thomas J., to General Steel Castings Corp. Railway vehicle body and truck assembly. 2,891,486, 6-23-59, Cl. 105-199.
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- Kolesh, Victor A., to Simonds Saw & Steel Co. Hard metal tipped saw. 2,880,768, 4-7-59, Cl. 143-133.
- Kolesnik, Michael, and G. E. Kelly, to Radio Corp. of America. Electron beam convergence apparatus. 2,880,364, 3-31-59, Cl. 315-22.
- Koletsy, Harold S. Self-balancing temperature responsive system. 2,877,650, 8-17-59, Cl. 73-360.
- Kolfenbach, John J.: See—  
O'Halloran, Rosemary, and Kolfenbach. 2,913,898.  
Vesterdal, Hans G., and Kolfenbach. 2,879,785.
- Kollmbat, Peter, to J. K. Gardner. Means for mounting blades in woodworking chippers. 2,889,861, 6-9-59, Cl. 144-219.
- Kolip, Hubert, to The Dalemill Co. Blank forming apparatus including blank turning mechanisms. 2,881,453, 4-14-59, Cl. 10-72.
- Kolisch, Emil, to Continental Electrolog Corp. Equipment for determining the center of gravity of an aircraft. 2,872,807, 2-10-59, Cl. 73-65.
- Kolisch, Emil, to Continental Electrolog Corp. Equipment for planning the loading of aircraft. 2,901,171, 8-25-59, Cl. 235-151.
- Koliss, Peter P., to Bell Telephone Laboratories, Inc. Combined splice closure and cable terminal for plastic sheathed cable. 2,891,101, 6-16-59, Cl. 174-59.
- Kolk, Anthony J., Jr., and D. E. Davis, to Horizons Titanium Inc. Production of titanium trihalides. 2,894,887, 7-14-59, Cl. 204-64.
- Kolka, Alfred J.: See—  
Closson, Rex D., Liggett, and Kolka. 2,868,842.
- Kolkman, Dirk, to North American Phillips Co., Inc. Electric discharge tube. 2,890,364, 6-9-59, Cl. 313-109.
- Koller, Charles R., to E. I. du Pont de Nemours and Co. Process for forming films and filaments directly from polymer intermediates. Re. 24,689, 8-25-59, Cl. 18-54.
- Koller, Eugen J.: See—  
Zickendraht, Christian, and Koller. 2,897,207.
- Koller, Lewis R.: See—  
Coghill, Henry D., and Koller. 2,867,541.
- Kölliker, Hans P.: See—  
Hindermann, Peter, Kölliker, and Trautzi. 2,870,173.
- Kolling, Helmut: See—  
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- Kolling, Helmut, F. Rappen, and W. Reiffert, to Ruhrchemie Akt. Water-free polishes containing partially neutralized wax-acid paraffin. 2,871,210, 1-27-59, Cl. 260-23.
- Kolling, Helmut, and F. Rappen, to Ruhrchemie Akt. Waxes suitable for self-polishing aqueous emulsions. 2,874,061, 2-17-59, Cl. 106-10.
- Kolling, Helmut, and F. Rappen, to Ruhrchemie Akt. Elastic high molecular weight hydroxyl group containing materials. 2,874,194, 2-17-59, Cl. 260-638.
- Kolling, Helmut, and E. Stiebling, to Ruhrchemie Akt. Process for producing auxiliary liquids for the polymerization of ethylene. 2,880,163, 3-31-59, Cl. 208-91.
- Kolling, Helmut, H. Noeske, and F. Rappen, to Ruhrchemie Akt. Process for the conversion of paraffin into rubber-like products. 2,892,877, 6-30-59, Cl. 260-677.
- Kolling, Helmut, and N. Geiser, to Ruhrchemie Aktiengesellschaft. Process for producing auxiliary liquids for the polymerization of ethylene. 2,919,242, 12-29-59, Cl. 208-143.
- Kolling, Johann: See—  
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- Kollman, Jack, and A. Storrie, to Kitchens of Sara Lee, Inc. Apparatus for dispensing heavy consistency fluid. 2,917,272, 12-15-59, Cl. 251-209.
- Kollmann, Karl A., to Daimler-Benz Akt. Hydrostatic power transmissions and brakes. 2,907,230, 10-6-59, Cl. 74-687.
- Kollmann, Karl A., and U. Eitze, to Daimler-Benz Aktiengesellschaft. Hydrodynamic coupling, especially for motor vehicles. 2,917,899, 12-22-59, Cl. 60-54.
- Kollmann, Karl J. Joint for sewer snakes. 2,892,649, 6-30-59, Cl. 287-103.
- Kollmann, Karl J. Reel for a garden hose. 2,911,996, 11-10-59, Cl. 137-355.12.
- Kollmann, Odilo: See—  
Podschus, Ernst, and Kollmann. 2,888,322.
- Kollmorgen, Ernst O., and H. D. Wintle, Jr., to Kollmorgen Optical Corp. Hot-wire reticule. 2,909,838, 10-27-59, Cl. 33-50.
- Kollmorgen Optical Corp.: See—  
Kollmorgen, Ernst O., and Wintle. 2,909,838.  
Rawlings, John L., and Ciaffardini. 2,884,831.
- Kollock, Alan S. Film holder. 2,894,141, 7-7-59, Cl. 250-68.
- Kolloff, Harold G., and P. H. Seay, to The Upjohn Co. (2-propyl-4-pentenyl) urea. 2,875,246, 2-24-59, Cl. 260-553.
- Kollonitsch, Janos, to Metal Hydrides Inc. Reaction product of aluminum hydride and a boric acid ester. 2,903,470, 9-8-59, Cl. 260-448.
- Kollonitsch, Janos, to Metal Hydrides Inc. Method for preparing a complex of an aluminum alcoholate with aluminum and boron hydrides. 2,903,471, 9-8-59, Cl. 260-448.
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- Kolls, Ernest W., and J. E. Scanlan. Coupling means for implements having detachable power units. 2,908,153, 10-13-59, Cl. 64-27.
- Kollsman Instrument Corp.: See—  
Carbonara, Victor E. 2,894,330.  
McLaughlin, Robert. 2,894,392.  
O'Maley, James B., Barnes, and Hansell. 2,905,828.  
Wengryn, Michael. 2,885,619.
- Kollsman, Paul. Apparatus for modifying the chemical composition of fluids by ion transfer. 2,872,407, 2-3-59, Cl. 204-301.
- Kollsman, Paul. Tortuous path for prevention of polarization in electro-dialysis. 2,891,900, 6-23-59, Cl. 204-301.
- Kolm, Ulrich, to I. B. M. Deutschland-Internationale Büro Maschinen Gesellschaft m.b.H. Record controlled machine. 2,894,627, 7-14-59, Cl. 209-110.
- Kolmar Laboratories, Inc.: See—  
Hampel, Louis A., and Wick. 2,900,664.  
Wick, Waldemar J. 2,873,229.
- Kolner, Samuel J., to Phillips Petroleum Co. Separation by crystallization. 2,886,587, 5-12-59, Cl. 260-475.
- Kolnes, Kenneth O.: See—  
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- Kolodney, Morris, to United States of America, Atomic Energy Commission. Anodic treatment of uranium. 2,872,387, 2-3-59, Cl. 204-15.
- Kolodney, Morris, to United States of America, Atomic Energy Commission. Preparation of plutonium. 2,893,928, 7-7-59, Cl. 204-15.
- Kolodney, Morris, to United States of America, Atomic Energy Commission. Stripping process for plutonium. 2,907,700, 10-6-59, Cl. 204-15.
- Kolodney, Morris, to United States of America, Atomic Energy Commission. Plutonium cleaning process. 2,915,387, 12-1-59, Cl. 75-97.
- Kolodny, Edwin R.: See—  
Morgan, Russell L., and Kolodny. 2,868,753.
- Kolodziej, Edwin S., to R. R. Donnelley & Sons Co. Apparatus for improved control of paper web position. 2,868,541, 1-13-59, Cl. 271-2.6.
- Kolpek, Robert A., to General Telephone Laboratories, Inc. Telegraph switching center arrangement. 2,905,745, 9-22-59, Cl. 178-2.
- Kolpin, Howard H. Firearm case attachment. 2,872,960, 2-10-59, Cl. 150-52.
- Kolpin, Howard H. Firearm case with rubber bumper. 2,901,018, 8-25-59, Cl. 150-52.
- Kolstad, Oscar. Scooter sled with adjustable handle bars. 2,894,760, 7-14-59, Cl. 280-22.
- Kolthoff, C. Paul, Jr., to International Harvester Co. Synchronizing device for free piston engines. 2,876,751, 3-10-59, Cl. 123-46.
- Kolthoff, C. Paul, Jr., to International Harvester Co. Spring valve. 2,895,503, 7-21-59, Cl. 137-535.
- Kolthoff, C. Paul, Jr., to International Harvester Co. Reduced length free piston engine. 2,897,803, 8-4-59, Cl. 123-46.
- Kolthoff, C. Paul, Jr., to International Harvester Co. Flexible tube connector with internal resilient securing means. 2,902,298, 9-1-59, Cl. 285-239.
- Kolthoff, C. Paul, Jr., and M. M. Jones, to International Harvester Co. Matrix and edge sealing means for rotary regenerator. 2,909,363, 10-20-59, Cl. 257-269.



- Koltvedt, Abel. Brush or the like having removable head. 2,900,654, 8-25-59, Cl. 15-176.
- Koltvedt, Abel. Combination awning shutter. 2,916,783, 12-15-59, Cl. 20-37.5.
- Kolwicz, Stanley J. Air actuated toy. 2,907,138, 10-6-59, Cl. 46-53.
- Kolze, Herbert F.: *See*—  
Nicolai, Harold, and Kolze. 2,912,943.
- Komarewsky, Vasilii I., to Heavy Minerals Co. Dehydrogenation of alcohols. 2,884,460, 4-28-59, Cl. 260-603.
- Komarik, Stephan L., to The Griffith Laboratories, Inc. Meat-curing process. 2,902,369, 9-1-59, Cl. 99-159.
- Komline-Sanderson Engineering Corp.: *See*—  
Komline, Thomas R. 2,895,614.  
Myers, Robert B. 2,894,632.
- Komline, Thomas R., to Komline-Sanderson Engineering Corp. Filtering unit. 2,895,614, 7-21-59, Cl. 210-401.
- Kömm, Nikolaus, to Kugelfischer Georg Schafer & Co. Double-row barrel roller bearing. 2,881,035, 4-7-59, Cl. 308-212.
- Kommanditbolaget Irving & Frisell: *See*—  
Frisell, Erik H. 2,893,018.
- Kommanditgesellschaft Dr. Ing. Rudolf Hell: *See*—  
Hell, Rudolf. 2,892,887.
- Komori, Hiromu. Seat attachment for a chair. 2,904,102, 9-15-59, Cl. 155-131.
- Komori, Isamu: *See*—  
Ogawa, Tetsuo, Komori, Kawaoka, Ishiwata, and Fujiyama. 2,905,710.
- Komp, Matthew E.: *See*—  
Taylor, Charles W., and Komp. 2,885,379.
- Kompelien, Arlon D., and B. H. Pinckaers, to Minneapolis-Honeywell Regulator Co. Semiconductor apparatus. 2,888,627, 5-26-59, Cl. 321-9.
- Kompfner, Rudolf: *See*—  
Heffner, Hubert, and Kompfner. 2,891,191.
- Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,867,744, 1-6-59, Cl. 315-3.5.
- Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,895,071, 7-14-59, Cl. 315-3.6.
- Kompfner, Rudolf, to Bell Telephone Laboratories, Inc. Apparatus utilizing slalom focusing. 2,899,597, 8-11-59, Cl. 315-3.6.
- Kompfner, Rudolf, and K. M. Poole, to Bell Telephone Laboratories, Inc. Direct view storage tube. 2,879,442, 3-24-59, Cl. 315-12.
- Kompfner, Rudolf, and H. Suhl, to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission device. 2,911,554, 11-3-59, Cl. 315-3.5.
- Kompfner, Rudolf, and N. T. Williams, to Bell Telephone Laboratories, Inc. Backward wave amplifier. 2,916,657, 12-8-59, Cl. 315-3.6.
- Komrosky, Stanley C. Poppet controlled gate valve. 2,879,800, 3-31-59, Cl. 137-630.15.
- Konazewski, William P.: *See*—  
Taylor, Arthur S., and Konazewski. 2,891,468.
- Konazewski, William P., and G. S. Bott, to American Cyanamid Co. Planetary driven linear suture grinder. 2,918,759, 12-29-59, Cl. 51-87.
- Kondo, Fusakichi. Positive and automatic warp let-off apparatus for power looms. 2,888,955, 6-2-59, Cl. 139-99.
- Konefes, Joseph H.: *See*—  
Schory, Kenneth P., Turko, and Konefes. 2,898,174.
- Konen, James C., and R. A. Boller, to Archer-Daniels-Midland Co. Modified oil copolymers and process for preparing same. 2,877,194, 3-10-59, Cl. 260-22.
- Kong, Daniel, to International Rectifier Corp. Semiconductor rectifier. 2,915,680, 12-1-59, Cl. 317-101.
- Kongable, Lowell S., to Motorola, Inc. Horizontal sweep circuit. 2,886,741, 5-12-59, Cl. 315-27.
- König, Josef: *See*—  
Schlmer, Robert, Voit, Hartmann, König, Thumult, and Ziemer. 2,910,423.  
Torke, Erich, and König. 2,876,062.
- König, Philipp, to Metallgesellschaft Aktiengesellschaft. Solvent extraction apparatus. 2,907,640, 10-6-59, Cl. 223-270.
- König, Theodor: *See*—  
Von Friedrich, Adolf, and König. 2,872,446.
- König, Wilhelm A., to Industrie-Werke Karlsruhe Akt. Winding device for spooling machines, especially for synthetic threads. 2,869,796, 1-20-59, Cl. 242-35.5.
- Konikson, Ernest R. Animated display. 2,884,200, 4-28-59, Cl. 239-19.
- Koninklijke Industriele Maatschappij voorheen Noury & Van Der Lande N.V.: *See*—  
Van Gelder, Dirk W. 2,916,515.
- Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V.: *See*—  
Van Zijp, Antonius J. 2,892,552.
- Koninklijke Rotterdamse Lloyd N.V.: *See*—  
Vossnack, Ernst, and Visscher. 2,916,429.
- Konkle, George M., J. A. McHard, and K. E. Polmanteer, to Dow Corning Corp. Siloxane elastomers compounded with hydroxylated silanes. 2,890,188, 6-9-59, Cl. 260-29.1.
- Konkle, Raymond L. Servicing stand. 2,872,252, 2-3-59, Cl. 304-2.
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- Kono Mfg. Co. Inc.: *See*—  
Kono, Alexander. 2,872,843.
- Konopka, Alfred Z., and R. O. Lightfoot, to Paddock Pool Equipment Co. Filter for swimming pools. 2,914,180, 11-24-59, Cl. 210-407.
- Konrad, Jakob, and H.-J. Ramundt, to Man, Maschinenfabrik Augsburg-Nürnberg A.G. Injection nozzle. 2,886,014, 5-12-59, Cl. 123-32.
- Konrad, William L., to Westinghouse Air Brake Co. Servo ratiometer having automatic phase selection. 2,904,753, 9-15-59, Cl. 324-99.
- Konstrukt Praha, narodni podnik: *See*—  
Koucky, Josef, and F. 2,874,501.
- Kontak Mfg. Co. Ltd.: *See*—  
Bradley, John R. 2,902,936.
- Konwya, Robert J. Curb and pavement finishing machine. 2,881,683, 4-14-59, Cl. 94-45.
- Konyha, Peter P.: *See*—  
Sims, Everett E., Konyha, and Petersen. 2,900,970.
- Koob, Bernard H., to Lynch Corp. Timer for container manufacturing machines. 2,881,803, 4-14-59, Cl. 137-634.
- Koorman, Peter A.: *See*—  
Vander Berg, Mike, and Koolman. 2,914,866.
- Kooistra, Clarence, to Hoover Ball and Bearing Co. Seal construction for anti-friction bearing. 2,888,304, 5-26-59, Cl. 308-187.2.
- Kooistra, John A., to Davis & Furber Machine Co. Means for mounting the top rolls of a spinning frame for quick threading of roving. 2,871,650, 2-3-59, Cl. 57-90.
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- Kookoey, Frederic F. Collapsible packing case. 2,868,406, 1-13-59, Cl. 220-7.
- Koon, Raymond E. Refrigerator with freezing and normal cooling compartments. 2,869,331, 1-20-59, Cl. 62-207.
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- Koons, Harold O., to The Electric Products Co. Turning bar fulcrum for electric motors. 2,879,414, 3-24-59, Cl. 310-41.
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- Koontz, Franklin H., and J. R. Schaefgen, to E. I. du Pont de Nemours and Co. Condensation polymers of 4-hydroxypyridine. 2,915,505, 12-1-59, Cl. 260-77.5.
- Koontz-Wagner Electric Co., Inc.: *See*—  
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- Koonz, John C., to The Magnavox Co. Power generating device for projectiles. 2,873,678, 2-17-59, Cl. 102-70.
- Koopal, Sieds, to Stamicarbon N.V. Manufacture of calcium carbide in shaft furnace. 2,880,069, 3-31-59, Cl. 23-208.
- Kooperativa Forbundet, Ekonomisk Forening: *See*—  
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- Koopman, Harmannus: *See*—  
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- Koos, Milton, Jr. Wire stripper. 2,902,894, 9-8-59, Cl. 81-9.5.
- Koot, John T.: *See*—  
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- Koot, Paul, to American Enka Corp. Cellulose sponge composition containing polyethylene terephthalate fiber and method of making. 2,914,493, 11-24-59, Cl. 260-2.5.
- Kopacki, Adam F., to The Linen Thread Co., Inc. Netting treatment process. 2,870,669, 1-27-59, Cl. 87-1.
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- Kopecky, Louis E. Lindane vaporizer. 2,882,640, 4-21-59, Cl. 43-129.
- Kopeikin, Roy A.: *See*—  
Hagenbook, Loy D., and Kopeikin. 2,903,770.
- Kopf, Joseph L.: *See*—  
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- Kopf, Joseph L., to Jabez Burns & Sons, Inc. Method of roasting. 2,887,383, 5-19-59, Cl. 99-68.
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- Kopf, Rowland J., and R. Marsh, to Olin Mathieson Chemical Corp. Fastener gripping device for a power actuated tool. 2,891,249, 6-23-59, Cl. 1-44.5.
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- Kopings Mekaniska Verkstads Aktiebolag: *See*—  
Wahlgren, Frans K. H. 2,890,606.
- Kopke, Ernst W., to Ultra-Suco Co. Clarification and demineralization process for B-molasses and similar materials containing concentrated impurities. 2,868,677, 1-13-59, Cl. 127-46.
- Köpke, Günter, and K. Ulbricht, to Gutehoffnungshütte Sterkade Akt. Device for feeding an additive to a melt. 2,869,857, 1-20-59, Cl. 266-34.
- Kopman, Francis R. Repeating cross bow. 2,918,050, 12-22-59, Cl. 124-25.
- Kopp, Fritz: *See*—  
Bregenzner, Kurt. 2,897,651.
- Kopp, Jean E. Infinitely variable friction drive. 2,886,986, 5-19-59, Cl. 74-796.



- Kopp, Marvin, to General Aniline & Film Corp. Heavy duty liquid detergent. 2,914,482, 11-24-59, Cl. 252-152.
- Koppe, Paul J.: *See*—
- Hofer, Eugene G., Koppe, and Mischnick. 2,875,420.
- Koppel, Harold H., and S. G. Kasminsky, to Bailey Meter Co. Telemetering system. 2,875,427, 2-24-59, Cl. 340-150.
- Koppel, Margaret G. Manicure kit. 2,874,707, 2-24-59, Cl. 132-79.
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- Koppelman, Edward. Creel. 2,885,158, 5-5-59, Cl. 242-131.
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- Black, John F. 2,905,989.
- Bonstedt, Kurt P. 2,870,192.
- Burke, Kenneth R. 2,901,424.
- Corson, Ben B., and Schwartzman. 2,873,300.
- Corwin, John F. 2,873,260.
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- Detrick, Robert S. 2,898,223.
- Detrick, Robert S. and Lauer. 2,890,254.
- Doak, Kenneth W. 2,907,756.
- Dobratz, Elmer H. 2,892,738.
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- Donath, Ernest E. 2,919,231.
- Drenning, John W. 2,906,809.
- Easton, Rufus. 2,882,571.
- Fedan, Sidney H., and Ely. 2,918,977.
- Goldstein, Irving S. 2,909,450.
- Goldstein, Irving S., and Dreher. 2,917,408.
- Haas, James P. 2,879,845.
- Haas, James P. 2,906,106.
- Häberle, Albert. 2,876,172.
- Hmiel, Stanley E. 2,898,233.
- Hollingsworth, Pierce. 2,919,137.
- Hooker, George W. 2,899,417.
- Ingram, Alvin R., and Irvine. 2,878,198.
- Irvine, Robert L. 2,915,881.
- Kemp, Woodrow E., Charlton, and Waldron. 2,916,533.
- Killoran, John J., and D'Alelio. 2,894,918.
- Kimmel, Ellsworth E. 2,867,081.
- Lagarias, John S. 2,906,369.
- Lemmerman, Richard D. 2,918,984.
- Leston, Gerd, and Robbins. 2,884,471.
- Malkomes, Walter. 2,894,649.
- Martin, John W., Jr. 2,900,373.
- O'Brochta, John. 2,916,494.
- Pittman, Charles U., and Christensen. 2,888,357.
- Powell, Russell A. 2,890,038.
- St. Clair, William E. 2,892,809.
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- Schappert, Hans M. 2,885,389.
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- Schmalenbach, Adolf. 2,898,389.
- Schwartzman, Louis H., and Corson. 2,913,440.
- Schweinberg, Fred M. 2,881,488.
- Schweinberg, Fred M. 2,910,746.
- Stein, Philip C. 2,908,516.
- Sturrock, Murray G., Cline, and Robinson. 2,898,350.
- Totzek, Friedrich. 2,898,204.
- Totzek, Friedrich. 2,905,544.
- Turner, John. 2,867,288.
- Van Ackeren, Joseph, and Helm. 2,913,374.
- Kops, Earl A., to General Dynamics Corp. Optical inspection device for transparent sheet material. 2,902,898, 9-8-59, Cl. 88-14.
- Kopsch, Heinz: *See*—
- Kroepelin, Hans, and Kopsch. 2,878,177.
- Korach, Malcolm, to Columbia-Southern Chemical Corp. Preparation of peracids. 2,877,266, 3-10-59, Cl. 260-502.
- Korach, Malcolm, to Columbia-Southern Chemical Corp. 3,4 monoepoxide of cyclopentadiene and its homopolymer. 2,916,462, 12-8-59, Cl. 260-2.
- Koranye, Theodore D.: *See*—
- Johnson, Reynold B., Moneagle, Koranye, Jurgens, and Prater. 2,889,110.
- Körbel, Ruth: *See*—
- Kraut, Heinrich, and Körbel. 2,890,986.
- Korbel, Willy: *See*—
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- Esenwein, Albert. 2,877,884.
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- Pollmann, Max. 2,902,140.
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- Richter, Willy. 2,881,767.
- Ritcher, Willy, and Neubert. 2,868,211.
- Körber, Kurt, & Co. K.G.: *See*—Continued
- Ritscher, Arthur, and Schubert. 2,918,197.
- Schlossmacher, Hubert. 2,873,746.
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- Schlossmacher, Hubert. 2,902,141.
- Schubert, Bernhard. 2,873,719.
- Stelzer, Carl. 2,874,701.
- Korchynsky, Michael, to Union Carbide Corp. Low alloy ferritic steel for high temperature application. 2,871,117, 1-27-59, Cl. 75-123.
- Kordes, Heinrich: *See*—
- Reuter, Gottfried, and Kordes. 2,895,175.
- Kordes, Heinrich, to Klockner-Georgsmarienwerke, Aktiengesellschaft. Disc wheels. 2,898,142, 8-4-59, Cl. 295-11.
- Koren, Saul, to Radio Corp. of America. Television test apparatus. 2,896,109, 7-21-59, Cl. 315-8.5.
- Koret, Inc.: *See*—
- Koret, Richard. 2,875,802.
- Koret, Richard, to Koret, Inc. Handbag, purse, or the like. 2,875,802, 3-3-59, Cl. 150-28.
- Koretzky, Herman: *See*—
- Foulke, Donald G., Kardos, and Koretzky. 2,881,121.
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- Korger, Gerhard: *See*—
- Ruschig, Heinrich, Wagner, Aumuller, Korger, Scholz, and Bander. 2,891,960.
- Korienek, Stephen J. Auxiliary air metering device for internal combustion engines. 2,876,757, 3-10-59, Cl. 123-124.
- Korka, Eugene A., to National Gypsum Co. Ceiling suspension system. 2,915,275, 12-1-59, Cl. 248-327.
- Korman, Jerome: *See*—
- Hogg, John A., and Korman. 2,874,173.
- Hogg, John A., and Korman. 2,885,413.
- Korman, Jerome, to The Upjohn Co. 6-ethoxybenzothiazole-2-sulfonamide. 2,868,800, 1-13-59, Cl. 260-306.6.
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- Korman, Jerome, to The Upjohn Co. 5-lower-carboxamido-1,3,4-thiadiazole-2-sulfenamide. 2,899,439, 8-11-59, Cl. 260-306.8.
- Korman, Jerome, to The Upjohn Co. Organic compounds and process. 2,901,508, 8-25-59, Cl. 260-562.
- Korman, Jerome, and J. A. Hogg, to The Upjohn Co. 1,4,17(20)-pregnatrienes. 2,873,271, 2-10-59, Cl. 260-239.5.
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- Korn, Bernard B., to Hughes Aircraft Co. Locking apparatus. 2,904,143, 9-15-59, Cl. 189-36.
- Korn, Elizabeth P.: *See*—
- Korn, Arthur, Hess, and Ruskin. 2,894,259.
- Korn, Irvin I.: *See*—
- Golden, Daniel, and Korn. 2,917,726.
- Korn, Robert, to Carl Bruns Werkzeugfabrik G.m.b.H. Trapezoidal linkage for vehicles. 2,917,103, 12-15-59, Cl. 155-9.
- Kornei, Otto, to Clevite Corp. Flux responsive magnetic reproducer head. 2,905,770, 9-22-59, Cl. 179-100.2.
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- Korner, Alfred, to Kohlenscheidungs-Gesellschaft, m.b.H. Apparatus and method for melting fly ash in a tangentially fired furnace chamber. 2,917,011, 12-15-59, Cl. 110-28.
- Korner, John, to Procosol Chemical Co., Inc. (also known as Proco-Sol Chemical Co.) Procaine-2-pyrrolidone-5-carboxylate. 2,890,979, 6-16-59, Cl. 167-52.
- Körner, Peter, to International Business Machines Corp. Typewriter attachment. 2,889,908, 6-9-59, Cl. 197-151.
- Korner, Renzo L., G. N. Rieger, and W. H. McCurdy, to Westinghouse Electric Corp. Method for baking and exhausting electron discharge devices. 2,871,086, 1-27-59, Cl. 316-4.
- Kornfeld, Heinrich: *See*—
- Müller, Wilhelm, Kornfeld, and Becker. 2,891,294.
- Kornfeldt, Paul: *See*—
- Pettersson, Gustaf A., and Kornfeldt. 2,918,611.
- Korodi, Paul C., to Westinghouse Electric Corp. Magnetic latch. 2,904,364, 9-15-59, Cl. 292-251.5.
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- Korol, Peter, and H. G. Woehrlé, Jr., to General Electric Co. Shaft support. 2,884,283, 4-28-59, Cl. 308-15.
- Koros, Leslie L., to Radio Corp. of America. Protective system. 2,910,626, 10-27-59, Cl. 317-16.
- Koros, Leslie L., R. N. Clark, and M. W. Duris, to Radio Corp. of America. Coaxial line vacuum tube circuit. 2,885,642, 5-5-59, Cl. 333-82.



- Korpi, Karl J.: *See*—  
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Korpi, Karl J., and R. C. Johnson, to The Lumus Co. Method of refining metals. 2,890,952, 6-16-59, Cl. 75-34.1.  
Korpmann, Ralf. Temperature indicator. 2,889,799, 6-9-59, Cl. 116-114.  
Korry, Boris V. Indicia panels. 2,890,445, 6-9-59, Cl. 340-378.  
Korsgren, Theodore Y., Sr.: *See*—  
Haydon, Arthur W., and Korsgren. 2,878,348.  
Korsmo, Conrad P. Permanent waving rod. 2,896,638, 7-28-59, Cl. 132-42.  
Kortchmar, Emil. Pressure relief valve for fluid pressure systems. 2,873,941, 2-17-59, Cl. 251-148.  
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Schunck, Horst L. P. 2,910,078.  
Korth, John A., to Corn Products Co. Precooked starch process involving sequestering agent. 2,884,346, 4-28-59, Cl. 127-32.  
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Koska, Thomas O., to Victor Mfg. & Gasket Co. Face type sealing device. 2,884,267, 4-28-59, Cl. 286-11.  
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Kosche, Horst, to Henkel & Cie., G.m.b.H. Method of preparing esters of cellulose ether carboxylic acids. 2,912,430, 11-10-59, Cl. 260-226.  
Kosek, Joseph A., to Lockheed Aircraft Corp. Power brake having work supporting platen with heating means for work. 2,893,459, 7-7-59, Cl. 153-21.  
Koser, Arthur J. Rotary barbecue grill. 2,883,924, 4-28-59, Cl. 99-427.  
Koser, Herman G. Silo construction. 2,870,984, 1-27-59, Cl. 248-229.  
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Kosfeld, Milton M., to General Electric Co. Superheat coil by-pass in refrigerating apparatus. 2,904,971, 9-22-59, Cl. 62-196.  
Kosfeld, Milton M., to General Electric Co. Variable displacement rotary compressor. 2,904,973, 9-22-59, Cl. 62-324.  
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Tiers, George V. D., and Koshar. 2,877,267.  
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Kosloski, Clement L.: *See*—  
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Koslow, George. Photothermic relay and control system. 2,867,703, 1-6-59, Cl. 200-138.  
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Kosmin, Milton, and V. R. Gaertner, to Monsanto Chemical Co. Nematocide. 2,879,199, 3-24-59, Cl. 167-33.  
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Kosowsky, David L., to Hermes Electronics Co. Crystal discriminator network. 2,913,580, 11-17-59, Cl. 250-27.  
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Hodges, Merwyn E., Koss, and Seeley. 2,879,454.  
Kossura, Lew. Thrust rolling-bearings of large diameters. 2,869,943, 1-20-59, Cl. 308-235.  
Kostecki, Edward Z., to Standard Coil Products Co., Inc. U.H.F.-V.H.F. tuners. 2,886,700, 5-12-59, Cl. 250-20.  
Kosten, Leendert, to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Single pass magnetic reader and recorder. 2,904,775, 9-15-59, Cl. 340-174.  
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Kostyrka, Thaddaus A. Automatic driving center. 2,897,708, 8-4-59, Cl. 82-33.  
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Kotanchik, Joseph N., and N. F. Dow, to United States of America, Navy. Loading unit for a combined load testing machine. 2,885,888, 5-12-59, Cl. 73-93.  
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Koump, Vladimir I. Revolving headlights. 2,892,928, 6-30-59, Cl. 240-61.6.  
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Kouns, Herbert H.: *See*—  
Davis, Howard C., and Kouns. 2,886,619.  
Koup, Alfred L., to United States of America, Navy. Detachable wheel assembly drive unit. 2,869,662, 1-20-59, Cl. 180-55.  
Koury, Frederic, to Sylvania Electric Products Inc. Light amplifier and storage device. 2,878,394, 3-17-59, Cl. 250-80.  
Koustas, Peter, to Radio Corp. of America. Self-pulsing traveling wave tube circuits. 2,878,385, 3-17-59, Cl. 250-36.



- Kovac, George M.: *See*—  
Renaud, Harold J., and Kovac. 2,874,907.
- Kovac, Steve, Jr., to Sewer-O-Matic, Inc. Automatic extensible standpipe. 2,912,111, 11-10-59, Cl. 210-119.
- Kovach, Louis: *See*—  
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- Kovach, Stephen M.: *See*—  
Sanford, Robert A., and Kovach. 2,916,529.
- Kovacs, Louis. Slidably mounted article carrying member unit. 2,917,185, 12-15-59, Cl. 211-94.
- Kovacs, Louis A.: *See*—  
Smith, Julian K., and Kovacs. 2,869,774.
- Kovács, Theodor. Fountain pens. 2,891,512, 6-23-59, Cl. 120-42.6.
- Kovarik, Jerry C.: *See*—  
Harrison, Milo A., and Kovarik. 2,888,175.
- Kovaszny, Leslie S. G. Electro-optical contour outlining apparatus. 2,900,442, 8-18-59, Cl. 178-6.
- Kovaszny, Leslie S. G., and H. M. Joseph, to United States of America, Commerce. Electro-optical contour enhancement. 2,903,507, 9-8-59, Cl. 178-6.
- Kowal, Leonard J., to Imperial Brass Mfg. Co. Tube bender scale means. 2,887,917, 5-26-59, Cl. 81-15.
- Kowal, Leonard J., to The Imperial Brass Mfg. Co. Flaring tool with lost motion connection providing automatic burrishing. 2,893,463, 7-7-59, Cl. 153-79.
- Kowaleski, Clarence W. Pferd, and R. K. Walker, to Bell Telephone Laboratories, Inc. Coin testing mechanism. 2,903,117, 9-8-59, Cl. 194-97.
- Kowalewski, John J.: *See*—  
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- Kowalewski, John J., to Electrolux Corp. Multiple purpose cleaning tool. 2,883,696, 4-28-59, Cl. 15-417.
- Kowalik, John J., to International Harvester Co. Side draft control wheel for side delivery rakes. 2,889,153, 6-2-59, Cl. 280-93.
- Kowalski, Chester. Air-brake bleeder system. 2,867,479, 1-6-59, Cl. 303-70.
- Kowolik, Ernest J.: *See*—  
Fisher, James W., Kowolik, and Stone. 2,917,474.
- Kozacka, Frederick J.: *See*—  
Swain, Kenneth W., Kozacka, and Salzer. 2,871,314.
- Kozacka, Frederick J., to Chase-Shawmut Co. Fuses with fulgurite suppressing means. 2,892,061, 6-23-59, Cl. 200-120.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Fusible protective devices. 2,895,031, 7-14-59, Cl. 200-120.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Miniaturized high current-carrying capacity current-limiting fuses with built-in indicating plungers. 2,914,636, 11-24-59, Cl. 200-121.
- Kozacka, Frederick J., to The Chase-Shawmut Co. Fuses with built-in indicating plungers. 2,918,551, 12-22-59, Cl. 200-121.
- Kozacka, Frederick J. Integrated molded case circuit breaker current-limiting fuse units. 2,919,328, 12-29-59, Cl. 200-114.
- Kozacka, Joseph S., to Skil Corp. Abrasive unit. 2,895,267, 7-21-59, Cl. 51-194.
- Kozak, John, to Owens-Illinois Glass Co. Apparatus and method for applying conductive coatings to insulators. 2,867,551, 1-6-59, Cl. 117-201.
- Kozakiewicz, Bernie A.: *See*—  
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- Kozel, Harry: *See*—  
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- Kozel, James A.: *See*—  
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- Kozel, James A., to The Dole Valve Co. Actuating valve. 2,918,937, 12-29-59, Cl. 137-620.
- Kozel, James A., and V. E. Rimsha, to The Dole Valve Co. Thermostatic mixing valve assembly. 2,872,116, 2-3-59, Cl. 236-12.
- Kozel, James A., and V. E. Rimsha, to The Dole Valve Co. Thermostatically controlled mixing valve. 2,889,113, 6-2-59, Cl. 236-12.
- Kozeny, Oral A.: *See*—  
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- Kozikowski, Felix, and F. A. Pearson, to Eagle Signal Corp. Delayed circuit closers. 2,900,049, 8-18-59, Cl. 188-1.
- Kozikowski, John, to Ethyl Corp. Friedel-Crafts reaction with metal cyclopentadienyl compounds. 2,916,503, 12-8-59, Cl. 260-429.
- Kozikowski, John, and M. L. Larson, to Ethyl Corp. Process for the preparation of hydrocarbon manganese carbonyl compounds. 2,870,180, 1-20-59, Cl. 260-429.
- Kozinski, Richard R.: *See*—  
Benfield, John D., and Kozinski. 2,906,149.
- Kozlovic, John M., and R. E. Frink, to Westinghouse Electric Corp. Circuit interrupters. 2,889,433, 6-2-59, Cl. 200-144.
- Kozlow, Jerome F.: *See*—  
Hensen, Carl W., and Kozlow. 2,901,631.
- Kozub, Stanley S. Drive assembly for automobiles. 2,909,233, 10-20-59, Cl. 180-73.
- Kraay, Robert A., to Western Electric Co., Inc. Apparatus for dynamically gaging relay contacts. 2,916,692, 12-8-59, Cl. 324-28.
- Kraayeveld, Peter J., and A. J. Kemper, to North American Philips Co., Inc. Device for determining the relative deviation in percent of the mean frequencies of pulse sources. 2,904,690, 9-15-59, Cl. 250-83.3.
- Kraayeveld, Pieter J.: *See*—  
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- Krach, Ray W.: *See*—  
Rose, Clarence W., Krach, and Ross. 2,886,227.
- Kracker, Herbert, R. Mohr, and R. Bamberger, to Farbwerke Hoechst Akt. Monoazo-dyestuffs insoluble in water. 2,872,441, 2-3-59, Cl. 260-157.
- Kracker, Herbert, F. Bauer, W. Kirst, R. Lowenfeld, and W. Staab, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Azo-dyestuffs insoluble in water. 2,908,679, 10-13-59, Cl. 260-188.
- Kracker, Herbert, and H. Albert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Solid, stable diazonium compounds. 2,914,521, 11-24-59, Cl. 260-141.
- Kradion Corp.: *See*—  
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- Kraeger, Gordon W., to United States of America, Navy. Trigger synchronizing system for sequential lobing radar installations. 2,907,025, 9-29-59, Cl. 343-16.
- Kraemer, Clifford J.: *See*—  
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- Kraemer, Ludwig J. Carriage with reversible body. 2,886,340, 5-12-59, Cl. 280-47.39.
- Kraemer, Rudolf C. Jar lid lifter. 2,895,630, 7-21-59, Cl. 215-46.
- Kraemer, Willis F. Fixture protecting apron for use while shaving. 2,876,471, 3-10-59, Cl. 15-1.
- Kraft, Joseph M. Device for determining axial force exerted by a screw from torque measurements. 2,888,825, 6-2-59, Cl. 73-139.
- Kraft, August L.: *See*—  
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- Kraft, El Roy J., to The Dole Valve Co. Water tempering valve. 2,895,676, 7-21-59, Cl. 236-12.
- Kraft Foods Co.: *See*—  
Ganter, Bertin C. 2,874,821.
- Loew, Theodore. 2,871,515.
- Stapf, Robert J. 2,885,292.
- Kraft, George H., H. W. Grossen, and K. Bell, to National Dairy Products Corp. Wrapper feed mechanism. 2,869,868, 1-20-59, Cl. 271-31.
- Kraft, Helmut, to Knoll A.-G., Chemische Fabriken. 1,4-diphenyl-3,5-diketopyrrolidine compounds and compositions. 2,909,465, 10-20-59, Cl. 167-65.
- Kraft, Herman T., to The General Tire and Rubber Co. Method and apparatus for applying preformed bands to a tire building machine. 2,871,912, 2-3-59, Cl. 154-9.
- Kraft, Herman T., to The General Tire & Rubber Co. Vehicle suspension and brake system. 2,909,244, 10-20-59, Cl. 188-29.
- Kraft, Joseph K., and L. R. Rissler, to Westinghouse Electric Corp. Elevator closure systems. 2,878,898, 3-24-59, Cl. 187-52.
- Kraft, Richard A.: *See*—  
Massman, Albert W., and Kraft. 2,872,512.
- Kraft, Richard A., to Motorola, Inc. Television receiver. 2,872,510, 2-3-59, Cl. 178-7.3.
- Kraft, Richard A., to Motorola, Inc. Television receiver. 2,872,513, 2-3-59, Cl. 178-7.3.
- Kraft, Richard A., to Motorola, Inc. Television synchronization. 2,873,369, 2-10-59, Cl. 250-36.
- Kraft, Richard A., to Motorola, Inc. Non-blocking wave receiver circuit with automatic gain control. 2,885,473, 5-5-59, Cl. 178-7.3.
- Kraft, Wheaton W., to The Lummus Co. Distillation in stages. 2,881,136, 4-7-59, Cl. 208-354.
- Kraft, William M., to Heyden Newport Chemical Corp. Pentaerythritol-acrolein reaction products and method of producing same. 2,870,121, 1-20-59, Cl. 260-67.
- Kraft, William M., to Heyden Newport Chemical Corp. Modified acrolein-pentaerythritol reaction products and their production. 2,915,498, 12-1-59, Cl. 260-47.
- Kraft, William M., and H. M. Metz, to Heyden Newport Chemical Corp. Benzoic acid-modified alkyd resins and their production. 2,915,488, 12-1-59, Cl. 260-22.
- Kraftson, Harry A., and E. M. Yard, to Leeds and Northrup Co. Systems for obtaining gas samples for analysis. 2,895,335, 7-21-59, Cl. 73-421.5.
- Kragh, James V.: *See*—  
Culleton, Robert J., and Kragh. 2,899,114.
- Krahe, Lawrence R., to Andrew Corp. Combination feed for reflector dish-type antenna. 2,898,591, 8-4-59, Cl. 343-782.
- Krahn, Vincent F., to Ford Motor Co. Crop pickup mechanism. 2,893,537, 7-7-59, Cl. 198-104.
- Kralman, Eugene A., to Union Carbide Corp. Maleimide polymers. 2,890,206, 6-9-59, Cl. 260-63.
- Kralman, Eugene A., to Union Carbide Corp. Maleimide polymers. 2,890,207, 6-9-59, Cl. 260-78.
- Kraissl Co., Inc. The: *See*—  
Walter, Andrew J., Jr. 2,899,232.
- Kraissl, Frederick, Jr. Air filter sump and jet. 2,890,763, 6-16-59, Cl. 183-49.
- Krajewski, Eugene: *See*—  
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- Krajewski, Richard M., and H. C. Kelly, to The Dow Chemical Co. Stabilized ethyl cellulose hot melt compositions. 2,887,396, 5-19-59, Cl. 106-177.



- Krajewski, Sophia: *See*—  
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- Krakora, James J., Jr.: *See*—  
 Parmet, Bernard S., and Krakora. 2,885,468.
- Krakusky, James J.: *See*—  
 Hewitt, Ernest W., and Krakusky. 2,868,874.
- Krall, Friedrich, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Sealing elements, especially flanges, and process for their production. 2,899,535, 8-11-59, Cl. 219-69.
- Krall, Friedrich, W. Scheibe, and R. Schuster, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Concentric power connection for induction furnaces. 2,890,258, 6-9-59, Cl. 13-31.
- Krall, Richard C.: *See*—  
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- Kralowetz, Bruno. Milling cutter. 2,903,783, 9-15-59, Cl. 29-105.
- Kralowetz, Bruno. Stretch-forging machine. 2,903,923, 9-15-59, Cl. 78-20.
- Krambo, Victor P., and A. E. Stones, to Triplex Mfg. Co. Dual voltage flasher device. 2,917,604, 12-15-59, Cl. 200-113.
- Kramcsak, Michael, Jr., to The Bassick Co. Brake-equipped caster. 2,878,899, 3-24-59, Cl. 188-2.
- Kramen, Frank H.: *See*—  
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- Kramer, Andrew E. Vehicle roof clearance signal means. 2,894,087, 7-7-59, Cl. 200-61.44.
- Kramer, Cecil H. Fishing lure. 2,908,988, 10-20-59, Cl. 43-42.06.
- Kramer, Clarence F., to Ford Motor Co. Hood latch. 2,877,038, 3-10-59, Cl. 292-216.
- Kramer, Clarence F., to Ford Motor Co. Windshield wiper construction. 2,885,709, 5-12-59, Cl. 15-255.
- Kramer, Daniel E.: *See*—  
 Malkoff, Hyman, and Kramer. 2,892,318.
- Kramer, Daniel E., to Mercer Engineering Co. Means and method for controlling high side pressure in heat transfer systems of the compression type. 2,869,330, 1-20-59, Cl. 62-117.
- Kramer, Eugene. Clamps. 2,898,069, 8-4-59, Cl. 248-226.
- Kramer, Franklin: *See*—  
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- Rosenthal, Harold, Kramer, Steigmann, and Tole. 2,886,443.
- Rosenthal, Harold, Kramer, Steigmann, and Tole. 2,886,445.
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- Kramer, Franklin, and H. Rosenthal, to General Foods Corp. Chewing gum and method of producing. 2,886,440, 5-12-59, Cl. 99-135.
- Kramer, Franklin, H. Rosenthal, and A. F. Tole, to General Foods Corp. Product and process. 2,886,441, 5-12-59, Cl. 99-135.
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- Kramer, Franklin, H. Rosenthal, and A. F. Tole, to General Foods Corp. Technique for making chewing gum and the resulting product. 2,886,447, 5-12-59, Cl. 99-135.
- Kramer, Franklin, H. Rosenthal, and A. F. Tole, to General Foods Corp. Method of making chewing gum and chewing gum product. 2,886,448, 5-12-59, Cl. 99-135.
- Kramer, Henry P., and M. V. Mathews, to Bell Telephone Laboratories, Inc. Reduction of redundancy and bandwidth. 2,911,476, 11-3-59, Cl. 179-15.55.
- Kramer, Howard O.: *See*—  
 Dean, Gilbert L., and Kramer. 2,896,355.
- Kramer, Irving, and V. L. Dion, to Kradion Corp. Tea bag squeezer and spoon. 2,887,948, 5-26-59, Cl. 100-213.
- Kramer, Israel, to Mercer Engineering Co. Reversible air conditioning system with hot gas defrosting means. 2,878,654, 3-24-59, Cl. 62-278.
- Kramer, Israel, to Mercer Engineering Co. Refrigerating system with hot gas defrosting means and adapted for use with a low temperature compressor. 2,916,893, 12-15-59, Cl. 62-196.
- Kramer, Jack A. Folding serving tray for automobiles and the like. 2,889,051, 6-2-59, Cl. 211-74.
- Kramer, Jacob: *See*—  
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- Kramer, Joseph, and G. E. Struble, to The Diamond Gardner Corp. Box. 2,916,196, 12-8-59, Cl. 229-52.
- Kramer, Leo, to Controls Co. of America. Impact electric switch construction. 2,899,519, 8-11-59, Cl. 200-104.
- Kramer, Max: *See*—  
 Hintzmann, Karl, and Kramer. 2,886,580.
- Kramer, Max J., and R. N. Wagner, to Aluminum Co. of America. Power metering system. 2,901,701, 8-25-59, Cl. 324-117.
- Kramer, Nellius G.: *See*—  
 Lufjckx, Willem L. M., and Kramer. 2,917,552.
- Kramer, Nelson H. Animal leash. 2,911,947, 11-10-59, Cl. 119-109.
- Kramer, Otto L. Detachable connecting means between a textile switch and a post binder. 2,904,900, 9-22-59, Cl. 35-55.
- Kramer, Paul. Support for tampons. 2,877,767, 3-17-59, Cl. 128-270.
- Kramer, Paul H. Safety brake construction. 2,905,278, 9-22-59, Cl. 188-152.
- Kramer, Roger G.: *See*—  
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- Kramer, Stanley I., to Fairchild Engine and Airplane Corp. System for testing electric signal transfer devices with parabolic testing signal. 2,909,726, 10-20-59, Cl. 324-57.
- Kramer Trenton Co.: *See*—  
 Malkoff, Hyman. 2,879,024.
- Malkoff, Hyman, and Kramer. 2,892,318.
- Kramer, Vance M., and L. W. Carlton. Recording apparatus. 2,879,953, 3-31-59, Cl. 242-54.
- Kramer, Vance M., and L. W. Carlton. Apparatus for use in making rubber tubing. 2,888,712, 6-2-59, Cl. 18-19.
- Kramer, Vance M., and L. W. Carlton. Spirally corrugated rubber tubing with integral cylindrical end connectors. 2,909,198, 10-20-59, Cl. 138-49.
- Kramer, Victor. Interleaved check and envelope inserts for check books. 2,887,326, 5-19-59, Cl. 281-3.
- Kramer, Waldemar, to A. O. Smith Corp. Material handling apparatus. 2,902,178, 9-1-59, Cl. 214-1.
- Kramig, Anna L.: *See*—  
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- Kramig, Robert E., Jr. 2,913,788.
- Kramig, Robert E., Jr., deceased (A. L. Kramig, executrix and trustee of the estate of said R. E. Kramig, Jr.). Casting of ingots. 2,913,785, 11-24-59, Cl. 22-139.
- Kramig, Robert E., Jr., deceased (A. L. Kramig, executrix and trustee of the estate of said R. E. Kramig, Jr.). Method of casting ingots. 2,913,788, 11-24-59, Cl. 22-200.
- Kramis, Charles J., to E. I. du Pont de Nemours and Co. Production of sodium methoxide. 2,877,274, 3-10-59, Cl. 260-632.
- Kramskoy, Charles M., to Electric & Musical Industries Ltd. Electrical pulse generator chain circuits and gating circuits embodying such chain circuits. 2,906,869, 9-29-59, Cl. 250-27.
- Krance, Earl O.: *See*—  
 Fouse, Samuel S., and Krance. 2,871,285.
- Krandall, Sidney. Finger ring having two internal finger gripping means with diverging ends. 2,873,586, 2-17-59, Cl. 63-15.6.
- Kraner, Hobart M., to Bethlehem Steel Co. Low fired silica brick. 2,901,367, 8-25-59, Cl. 106-69.
- Krantz, Evert, to A. B. Svenska Flaktfabriken. Circulating gaseous medium through rotating drums. 2,877,562, 3-17-59, Cl. 34-29.
- Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Apparatus for supplying and mixing a liquid into a gaseous medium. 2,883,167, 4-21-59, Cl. 261-16.
- Krantz, Evert, and K.-E. Sjalén, to Aktiebolaget Svenska Flaktfabriken. Apparatus for separating dust or liquid drops from a gaseous medium. 2,881,858, 4-14-59, Cl. 183-24.
- Krantz, Frank M., to United States of America, Air Force. Level indicating device. 2,910,782, 11-3-59, Cl. 33-206.
- Krantz, Frank M., and R. F. Huelskamp, to United States of America, Navy. Automatic range system transmission means. 2,867,128, 1-6-59, Cl. 74-378.
- Krantz, Hubert K., to Bell Telephone Laboratories, Inc. Electric circuit connector. 2,882,514, 4-14-59, Cl. 339-256.
- Krantz, Karl W., to General Electric Co. Reacting ethylene glycol with methylsilsesquioxane to form water-soluble product. 2,887,467, 5-19-59, Cl. 260-46.5.
- Krantz, Karl W., to General Electric Co. Novel organosilicon compositions. 2,916,461, 12-8-59, Cl. 260-2.
- Kranz, Carl L., and T. A. Groner. Composition for building blocks. 2,899,325, 8-11-59, Cl. 106-93.
- Krapcho, John, and W. A. Lott, to Olin Mathieson Chemical Corp. Acid-addition, quaternary salts and method of preparing same. 2,918,470, 12-22-59, Cl. 260-286.
- Krapf, John A. Piston cushioned fluid pressure actuator. 2,882,869, 4-21-59, Cl. 121-132.
- Krapf, John A. Valve mechanism for controlling delivery of fluid under pressure to a fluid operated motor. 2,891,518, 6-23-59, Cl. 121-46.5.
- Krasberg, Bruce. Die stop mechanism. 2,879,989, 3-31-59, Cl. 269-132.
- Krase, Fred J., and E. K. Olendzki, to H. K. Porter Co. (Delaware). Switch means. 2,897,323, 7-28-59, Cl. 200-146.
- Kraske, William A.: *See*—  
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- Krasker, Abraham. Instantaneous coffee beverage. 2,885,290, 5-5-59, Cl. 99-77.1.
- Krasney, Norman: *See*—  
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- Krasney, Norman. Packaged goods dispensing machine. 2,884,110, 4-28-59, Cl. 194-10.
- Krasno, Maxwell R., to United States of America, Navy. Signal coupling device. 2,894,231, 7-7-59, Cl. 336-83.
- Krasnow, David and K. Belt buckle. 2,905,994, 9-29-59, Cl. 24-182.
- Krasnow, Kenneth: *See*—  
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- Krasnow, Leonard L.: *See*—  
 Furman, Louis J., and Krasnow. 2,908,205.
- Krastchew, Christoslaw. Refrigeration cooling of electrical machines. 2,898,484, 8-4-59, Cl. 310-52.



- Krastel, Adolph H.: *See*—  
 Carlsen, Leonard O., and Krastel. 2,898,780.  
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- Kraszewski, Samuel. Wax applicator. 2,877,476, 3-17-59, Cl. 15-98.
- Kratt, William. Plastic pitch pipe. 2,871,747, 2-3-59, Cl. 84-456.
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- Kratz, George F. Anti-skid device. 2,915,101, 12-1-59, Cl. 152-222.
- Kratz, Hans: *See*—  
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- Kratzert, Clifford F. Decoy. 2,885,813, 5-12-59, Cl. 43-3.
- Kraus, Bernice L. Garments. 2,883,667, 4-28-59, Cl. 2-75.
- Kraus, Charles E., to Excelsomatic, Inc. Power transmission device. 2,881,622, 4-14-59, Cl. 74-193.
- Kraus, Edmund J.: *See*—  
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- Kraus, Elmer J.: *See*—  
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- Kraus, Gerard, to Phillips Petroleum Co. Rubber-resin adhesive solution, process for preparation, and laminated product obtained therewith. 2,901,448, 8-25-59, Cl. 260-5.
- Kraus, Harold. Illuminated picture display device. 2,906,048, 9-29-59, Cl. 40-152.2.
- Kraus, Henry D. Automotive safety switch. 2,870,280, 1-20-59, Cl. 200-61.52.
- Kraus, Kurt A.: *See*—  
 Van Winkle, Quentin, and Kraus. 2,910,345.
- Kraus, Kurt A., and G. E. Moore, to United States of America, Atomic Energy Commission. Recovery of protoactinium. 2,872,284, 2-3-59, Cl. 23-14.5.
- Kraus, Leon S. Method and apparatus for increasing gas absorption in liquids. 2,911,205, 11-3-59, Cl. 261-122.
- Kraus, Ludwig: *See*—  
 Uhlenhaut, Rudolf E., Kraus, and Weller. 2,918,148.
- Kraus, Ludwig, to Daimler-Benz Akt. Universal joint. 2,874,556, 2-24-59, Cl. 64-8.
- Kraus, Ludwig, to Daimler-Benz Aktiengesellschaft. Vehicle having four-wheel drive with offset flywheel. 2,915,133, 12-1-59, Cl. 180-44.
- Kraus, Robert A. and E. J. Method of die forming internal threads. 2,870,465, 1-27-59, Cl. 10-152.
- Krause, Alfred J., to Hughes Aircraft Co. Hermetically sealed housing. 2,911,604, 11-3-59, Cl. 336-90.
- Krause, Anthony V. D.: *See*—  
 Booth, George A., and Krause. 2,879,583.
- Krause, August, to Mak Maschinenbau Kiel Akt. Spinning mule. 2,883,823, 4-28-59, Cl. 57-40.
- Krause, August L., and W. A. Gigger, to Brown & Sharpe Mfg. Co. Adjustable dial. 2,914,153, 11-24-59, Cl. 192-8.
- Krause, Bruno. Plant potting machine. 2,869,283, 1-20-59, Cl. 47-1.
- Krause, Charles A.: *See*—  
 Schoen, Seymour, and Krause. 2,873,384.
- Krause, Chas. A., to Milling Co.: *See*—  
 Wimmer, Ernest L. 2,881,086.
- Wimmer, Ernest L. 2,910,467.
- Wimmer, Ernest L., and Meindl. 2,894,859.
- Krause, Frank R., to Thompson Products, Inc. Machine for rolling metal. 2,878,697, 3-24-59, Cl. 80-26.
- Kraut, Heinrich, and W. Korbel, to Farbenfabriken Bayer Aktiengesellschaft. Stable kallikrein preparations. 2,916,418, 12-8-59, Cl. 167-74.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Deck latch structure. 2,877,039, 3-10-59, Cl. 292-216.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Control mechanism. 2,884,805, 5-5-59, Cl. 74-531.
- Krause, Herbert, to Chicago Forging and Mfg. Co. Emergency brakes and releases therefor. 2,893,262, 7-7-59, Cl. 74-538.
- Krause, Jack H.: *See*—  
 Voltz, Sterling E., Krause, and Erner. 2,891,965.
- Krause, John F., Jr., to General American Transportation Corp. Railway refrigerator cars. 2,918,806, 12-29-59, Cl. 62-239.
- Krause, Leonard M.: *See*—  
 Miller, William G., and Krause. 2,869,660.
- Krause, Leonard M., to Massey-Ferguson Inc. Grain drill. 2,912,089, 11-10-59, Cl. 193-9.
- Krause, Norman R., S. C. Heth, and J. S. Naery, to J. I. Case Co. Sheet metal sickle guard forming process. 2,887,761, 5-26-59, Cl. 29-148.3.
- Krause, Walter: *See*—  
 Waldenmaier, Heinz W., and Krause. 2,881,795.
- Krause, Walter, H. Krekeler, R. Wirtz, H. Kamptner, and D. Bachmann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Manufacture of low molecular unsaturated hydrocarbons. 2,912,475, 11-10-59, Cl. 260-679.
- Krause, Walter W., and A. E. Schwaneke, to Dormeyer Corp. Electric steam iron. 2,883,779, 4-28-59, Cl. 38-77.
- Krause, William F., and E. C. Neuhaus, to Western Electric Co., Inc. Split die reciprocating bender with ejection feature. 2,894,557, 7-14-59, Cl. 153-21.
- Krauss, Carl. Roll-about stand for fans and similar appliances. 2,868,558, 1-13-59, Cl. 280-47.13.
- Krauss, Fred W. Combined fish lure and bait holder. 2,895,254, 7-21-59, Cl. 43-44.6.
- Krauss, John E., and D. R. Nixon. Conveyor belt protector. 2,906,396, 9-29-59, Cl. 198-229.
- Krauss, Otto, and H. Waldenburger, to Firma Triumph Werke Nuernberg A.G. Mechanical connections. 2,904,288, 9-15-59, Cl. 248-25.
- Krauss, Paul, to General Electrical Co. Bus bar distribution system. 2,906,808, 9-29-59, Cl. 174-72.
- Krauss & Reichert, Spezialmaschinenfabrik und Apparatebau: *See*—  
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- Krauss, Walter: *See*—  
 Frank, Gunter, Wegler, and Krauss. 2,891,970.
- Krausz, Alfred, to North American Aviation, Inc. Magnetic amplifier circuits. 2,918,620, 12-22-59, Cl. 323-89.
- Kraut, Heinrich, and K. Körbel, to Farbenfabriken Bayer Akt. Process for preparing kallikrein inactivator. 2,890,986, 6-16-59, Cl. 167-74.
- Kraut, Theodore: *See*—  
 Clinton, William P., Guggenheim, Kraut, and Stinchfield. 2,915,403.
- Krauthakel, Alfred: *See*—  
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- Krautkrimer, Adam. Snout and cap for a container. 2,911,128, 11-3-59, Cl. 222-543.
- Krautwurst, Homer V., to General Motors Corp. Cigar lighter and mounting therefor. 2,916,596, 12-8-59, Cl. 219-32.
- Krautwurst, Homer V., and D. G. Denning, to General Motors Corp. Cigar lighter assembly. 2,883,510, 4-21-59, Cl. 219-32.
- Kravik, Ormund A., to Nobles Engineering Co. Ammunition storage box. 2,874,615, 2-24-59, Cl. 89-34.
- Kravits, Arthur, to Licencia Találmanyokát Ertékesítő Vállalat. Vaporizer for diesel engines. 2,896,856, 7-28-59, Cl. 239-132.
- Kravitz, Harvey, and N. Lettvin. Means and method for vaccinating. 2,876,774, 3-10-59, Cl. 128-253.
- Kray, Raymond J., and F. Brown, to Celanese Corp. of America. Diacetals. 2,915,530, 12-1-59, Cl. 260-340.7.
- Kray, Raymond J., and F. Brown, to Celanese Corp. of America. Polymers. 2,917,484, 12-15-59, Cl. 260-45.4.
- Krazinski, Leo C.: *See*—  
 Lindridge, Charles D. 2,888,517.
- Krchma, Ignace J., to E. I. du Pont de Nemours and Co. Production of silicon. 2,909,411, 10-20-59, Cl. 23-223.5.
- Krchma, Ignace J., and C. M. Olson, to E. I. du Pont de Nemours and Co. Production of elemental silicon. 2,883,269, 4-21-59, Cl. 23-223.5.
- Krchma, Ludwig C., to Socony Mobil Oil Co., Inc. Method of cooling thermoplastic and viscous materials. 2,878,650, 3-24-59, Cl. 62-98.
- Kreamer, William H., to American Viscose Corp. Metering pump. 2,869,473, 1-20-59, Cl. 103-126.
- Krebs, Herman E.: *See*—  
 Shaw, Ernest C. 2,889,035.
- Krebs, John R., to Standard Oil Co. Fluidized solids contacting apparatus. 2,893,849, 7-7-59, Cl. 23-284.
- Krebs, Robert W.: *See*—  
 Griffin, Lindsay I., Jr., Newchurch, Krebs, and Stringer. 2,886,514.
- Krebs, Robert W., and J. W. Brown, to Esso Research and Engineering Co. Method of mixing liquids and solids in a fluidized hydrocarbon conversion process. 2,872,411, 2-3-59, Cl. 208-157.
- Krebs, Robert W., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Coking heavy oils with inert solids in two stages. 2,899,376, 8-11-59, Cl. 208-53.
- Krebs, Robin W.: *See*—  
 Kimberlin, Charles N., Jr., and Krebs. 2,880,167.
- Kreft, Leon J., to A. Tashjian. Emergency splint compress. 2,868,193, 1-13-59, Cl. 128-89.
- Kregelin, Horst: *See*—  
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- Kreher, Rudolf. Ink supply devices for manifold printers. 2,893,318, 7-7-59, Cl. 101-366.
- Kreidler, Alfred. Apparatus for the production of hollow metallic articles. 2,893,553, 7-7-59, Cl. 207-3.
- Kreier, George J., Jr. Method for making color-patterned fiber glass sheet. 2,905,580, 9-22-59, Cl. 154-121.
- Kreil, Albert: *See*—  
 Rische, Kurt, Kreil, and Marek. 2,908,404.
- Kreimeier, Oscar R., to E. I. du Pont de Nemours and Co. Process for recovering lead from by-product lead materials. 2,899,296, 8-11-59, Cl. 75-77.
- Kreinick, Horace C., and S. Jenkins, to Ajax Condenser Co., Inc. Capacitor tube closing and forming machine. 2,885,852, 5-12-59, Cl. 53-378.
- Kreis, Hans, to Helopharm W. Petrik & Co. K.G. Process for the production of water-soluble antithrombotic organic salt preparations. 2,907,789, 10-6-59, Cl. 260-492.2.
- Kreis, Oscar C., to General Motors Corp. Gear wheels. 2,869,388, 1-20-59, Cl. 74-443.
- Kreiss, Theo R. Power units for wagon drills. 2,879,857, 3-31-59, Cl. 180-62.
- Kreissler, Karl-Heinz. Apparatus for producing and automatically delivering fruit-flavored soda water into drinking vessels. 2,872,952, 2-10-59, Cl. 141-105.
- Kreiter, Richard F. Lever actuated toggle device for disassembling machine elements. 2,904,955, 9-22-59, Cl. 59-7.
- Kreitsek, Edward E., and V. O. Bartels, to Raytheon Co. Elapsed time indicators. 2,910,647, 10-27-59, Cl. 324-68.



- Krekeler, Claude B.: *See*—  
Bruestle, Armin O., and Krekeler. 2,916,275.  
Cartledge, John R., and Krekeler. 2,913,917.
- Krekeler, Hans: *See*—  
Krause, Walter, Krekeler, Wirtz, Kamptner, and Bachmann. 2,912,475.
- Krekeler, Hans, W. Kirschner, G. Relken, and O. Waelnitz, to Farbwerke Hoechst Aktiengesellschaft vormals meister Lucius & Bruning, Hydrocarbon cracking process to produce olefins. 2,911,454, 11-3-59, Cl. 260-683.
- Krekovich, James J.: *See*—  
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Lohnes, Howard E., and Krekovich. 2,884,738.
- Krellner, Clement H., to Speer Carbon Co. Resistors with integral molded metal terminals. 2,903,666, 9-8-59, Cl. 338-330.
- Krellner, Clement H., to Speer Carbon Co. Molded zigzag resistor and method of making. 2,907,971, 10-6-59, Cl. 338-293.
- Krellner, Walter G., to Stackpole Carbon Co. Shaft seal. 2,886,352, 5-12-59, Cl. 286-11.13.
- Krembs, George M., to Ampex Corp. Magnetic transducing device and circuit therefor. 2,916,639, 12-8-59, Cl. 307-88.5.
- Kremen, Jerome, and J. J. Shapiro, to American Instrument Co., Inc. Optical system for the measurement of turbidity. 2,873,644, 2-17-59, Cl. 88-14.
- Kremen, Samuel, Method and the machine for stretching dressed fur or leather skins. 2,884,777, 5-5-59, Cl. 69-42.
- Kremen, Seymour S., and R. L. Southwood, to Leather Research Corp. Dehydration of untanned skins with water-miscible organic solvent containing a relatively non-hydroscopic organic compound. 2,917,833, 12-22-59, Cl. 34-9.
- Kremer, Charles J., to The Atlantic Refining Co. Resins. 2,886,542, 5-12-59, Cl. 260-17.3.
- Kremer, Jacob E. Drafting kit assembly. 2,897,032, 7-28-59, Cl. 312-231.
- Kremers, Howard E., D. W. Newman, and F. C. Kautzky, to American Potash & Chemical Corp. Process for extracting rare earths from ores and residues. 2,900,231, 8-18-59, Cl. 23-19.
- Kremiller, Arthur E.: *See*—  
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Goldring, John E., and Kremiller. 2,889,150.
- Krenkler, Karl, to Firma Paul Lechler. Method of preparing a coal tar pitch emulsion. 2,888,358, 5-26-59, Cl. 106-277.
- Krenzke, John G., to U.S. Slicing Machine Co., Inc. Meat and bone saw. 2,884,026, 4-28-59, Cl. 143-27.
- Krepps, James E., Jr., to Sarkes Tarzian, Inc. Ultra-high-frequency tuner for television receivers. 2,871,358, 1-27-59, Cl. 250-40.
- Kreps, Robert W. F., W. F. De Wit, and G. Schuur, to Shell Development Co. Process for recovering di-isopropylbenzene-di-hydroperoxide from di-isopropylbenzene oxidation products. 2,915,557, 12-1-59, Cl. 260-610.
- Kreske, Walter J. Retracting flange device. 2,898,137, 8-4-59, Cl. 287-52.7.
- Kreske, Walter J. Locking mechanisms for telescoping members. 2,915,327, 12-1-59, Cl. 287-58.
- Kresl, Elmer R. Hoist with chain takeup. 2,898,083, 8-4-59, Cl. 254-17.3.
- Kress, Bernard H., to Quaker Chemical Products Corp. Polymeric acetals. 2,878,294, 3-17-59, Cl. 260-615.
- Kress, Bernard H., to Quaker Chemical Products Corp. Process of insolubilizing proteins. 2,868,773, 1-13-59, Cl. 260-112.
- Kress, Bernard H., to Quaker Chemical Products Corp. Water-soluble acetals of glutaraldehyde and method of making same. 2,885,443, 5-5-59, Cl. 260-615.
- Kress, Bernard H., to Quaker Chemical Products Corp. Amine modified acetals. 2,890,242, 6-9-59, Cl. 260-501.
- Kress, Bernard H., to Quaker Chemical Products Corp. Amino triazine modified polyacetals. 2,895,923, 7-21-59, Cl. 260-2.
- Kress, Bernard H., to Quaker Chemical Products Corp. Phenol modified polyacetals. 2,902,470, 9-1-59, Cl. 260-47.
- Kress, Bernard H., to Quaker Chemical Products Corp. Process for the dimensional control of cellulosic materials. 2,903,328, 9-8-59, Cl. 8-116.
- Kress, Bernard H., to Quaker Chemical Products Corp. Process of treating cellulosic fabric and the product resulting therefrom. 2,917,411, 12-15-59, Cl. 117-139.4.
- Kress, James H.: *See*—  
Allen, James R., Kress, and Bunnelle. 2,892,312.
- Kress, Ralph H. Vehicle wheel suspension structure. 2,914,337, 11-24-59, Cl. 280-96.2.
- Kress, Ralph H. Equalized vehicle fluid suspension means. 2,914,338, 11-24-59, Cl. 280-104.
- Kresse, Alois: *See*—  
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- Kressin, William E., to Seaman-Andwall Corp. Compaction roller with retractable transporting wheels. 2,878,731, 3-24-59, Cl. 94-50.
- Kressin, William E. Flexible coupling. 2,892,327, 6-30-59, Cl. 64-14.
- Kressman, Theodore R. E., F. L. Tye, and H. R. Bott. Electrolytic cells. 2,894,894, 7-14-59, Cl. 204-301.
- Kretschmer, Charles H., and H. J. Martin. Method and machine for taping. 2,910,205, 10-27-59, Cl. 216-21.
- Kretschmer, Willi, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Propellant systems for reaction motors. 2,906,091, 9-29-59, Cl. 60-35.6.
- Kretz, Herman C., to Cooper Alloy Corp. Shell molding. 2,913,337, 11-17-59, Cl. 75-129.
- Kretzmer, Ernest R.: *See*—  
Fleckenstein, William O., Kretzmer, and Michel. 2,909,601.  
Graham, Robert E., and Kretzmer. 2,883,562.
- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Temperature sensitive transistor control circuit. 2,871,376, 1-27-59, Cl. 307-88.5.
- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Method and apparatus for reducing television bandwidth. 2,906,816, 9-29-59, Cl. 178-6.8.
- Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. High resolution scanning system. 2,911,463, 11-3-59, Cl. 178-6.
- Kretzmer, Minor G., Jr., and R. C. Townsend, to North and Judd Mfg. Co. Apparatus for the treatment of toilet waste. 2,911,364, 11-3-59, Cl. 210-207.
- Kreuchen, Karl H.: *See*—  
Pearce, Albert F., and Kreuchen. 2,904,719.
- Kreuchen, Karl H., to Electric & Musical Industries Ltd. Electron discharge devices. 2,894,169, 7-7-59, Cl. 315-5.38.
- Kreusser, Otto T.: *See*—  
Karcher, Harry C., and Kreusser. 2,882,679.
- Kreuter, Kenneth G., to Penn Controls Inc. Compensated anticipating thermostat. 2,870,965, 1-27-59, Cl. 236-68.
- Kreuttnner, Joseph W., to Buensod-Stacey, Inc. Air conditioning distributor unit. 2,880,743, 4-7-59, Cl. 137-111.
- Kreuttnner, Joseph W., to Buensod-Stacey, Inc. Air conditioning apparatus. 2,880,752, 4-7-59, Cl. 137-486.
- Kreuttnner, Joseph W., to Buensod-Stacey, Inc. Flow control device. 2,906,287, 9-29-59, Cl. 137-489.
- Kreutzberger, Alfred: *See*—  
Grundmann, Christoph J., and Kreutzberger. 2,872,485.  
Grundmann, Christoph J., and Kreutzberger. 2,884,383.  
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- Krewer, William A.: *See*—  
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Remes, Nathaniel L., and Krewer. 2,891,072.  
Remes, Nathaniel L., and Krewer. 2,900,392.
- Krewson, Charles F., and E. J. Saggese, to United States of America, Agriculture. Terpene phenoxycetate growth regulators. 2,868,634, 1-13-59, Cl. 71-2.6.
- Kreysa, Frank J., to St. John's University. Antimicrobial chemical compounds derived from alkoxyphenyl glycidic acid. 2,918,466, 12-22-59, Cl. 260-247.2.
- Kridel, Donald J., to Eastman Kodak Co. Stabilized photographic developers for color photography. 2,875,049, 2-24-59, Cl. 96-66.
- Krieble, Vernon K., to The American Sealants Co. Compositions containing hydroperoxide polymerization catalyst and acrylate acid diester. 2,895,950, 7-21-59, Cl. 260-89.5.
- Krieble, Vernon K., to The American Sealant Co. Packaged metal fasteners and bonding agent. 2,901,099, 8-25-59, Cl. 206-47.
- Kriegbaum, Otto: *See*—  
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- Krieger, Alan T. Fire detecting device. 2,871,815, 2-3-59, Cl. 116-106.
- Krieger, Charles J., to United States of America, Navy. Multi-channel variable magnetic delay device. 2,907,008, 9-29-59, Cl. 340-174.
- Krieger, Manny. Loader attachments for tractors. 2,914,201, 11-24-59, Cl. 214-131.
- Krieger, Richard S., and W. J. Porter, to Parkmaster Systems Inc. Elevator levelling mechanism. 2,891,636, 6-23-59, Cl. 187-17.
- Krieger, Robert J., to Titanium Metals Corp. of America. Fabrication of consumable electrodes. 2,897,340, 7-28-59, Cl. 219-117.
- Krieger, Robert R. Firearm cartridge magazine. 2,875,544, 3-3-59, Cl. 42-18.
- Krier, Joseph A.: *See*—  
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- Krigsman, Harry: *See*—  
Miller, Harold, and Krigsman. 2,871,497.
- Krikorian, Albert P. Reclining chair. 2,897,877, 8-4-59, Cl. 155-106.
- Krill, Donald F., to Erie Resistor Corp. Package for electric components. 2,881,911, 4-14-59, Cl. 206-56.
- Krimmel, Carl P., to G. D. Searle & Co. Derivatives of 1,1-bis [4-oxo-5-hydroxy-6-(4H-pyran-1-yl)] dimethylamine. 2,907,772, 10-6-59, Cl. 260-345.9.
- Krimmel, Carl P., to G. D. Searle & Co. Amino derivatives of 4H-pyran-4-ones. 2,907,773, 10-6-59, Cl. 260-345.9.
- Kringlen, John A. Lifting and lowering mechanism for tail gates. 2,873,868, 2-17-59, Cl. 214-75.
- Krischal, Hans G.: *See*—  
Fowler, Benjamin T., Hoare, and Krischal. 2,911,368.
- Krist, William M., and J. S. Czapiewski. Metal barrel or drum top cutter. 2,886,887, 5-19-59, Cl. 30-4.
- Kristensen, Arthur W., to Unilever N.V. Pneumatic unloading devices. 2,905,506, 9-22-59, Cl. 302-58.
- Kristoffersen, Viggo, to Gotaas-Larsen, Inc. Tanker ventilating and drying system. 2,909,111, 10-20-59, Cl. 98-39.



- Kritchever, Mathew F., 25% to H. Dawson. Method for the decontamination of metal foils. 2,857,912, 1-13-59, Cl. 34—1.
- Kritchever, Mathew F., 25% to H. Dawson. Electrostatic discharge treating apparatus. 2,916,620, 12-8-59, Cl. 250—49.5.
- Kritz, Jack. Continuously indicating electroacoustic densitometer. 2,869,337, 1-20-59, Cl. 73—32.
- Kritz, Jack. Densitometer. 2,903,884, 9-15-59, Cl. 73—32.
- Kritz, Jack. Ultrasonic densitometer. 2,903,885, 9-15-59, Cl. 73—32.
- Kritz, Jack. Mass flow fluid measurement. 2,911,825, 11-10-59, Cl. 73—194.
- Kritz, Jack. Flowmeter. 2,911,826, 11-10-59, Cl. 73—194.
- Kritz, Jack. Electroacoustic flowmeter. 2,912,856, 11-17-59, Cl. 73—194.
- Kritzer, Richard W. Refrigerating apparatus. 2,892,321, 6-30-59, Cl. 62—196.
- Kritzer, Richard W. Baseboard radiators. 2,903,245, 9-8-59, Cl. 257—133.
- Kritzer, Richard W. Baseboard radiators. 2,903,246, 9-8-59, Cl. 257—133.
- Kritzer, Richard W. Radiators of the baseboard type. 2,903,247, 9-8-59, Cl. 257—137.
- Kritzer, Richard W. Fabrication of heat transfer units. 2,913,806, 11-24-59, Cl. 29—33.
- Krivanek, Louis: *See—*
- Kirscht, Arthur A., and Krivanek. 2,889,485.
- Krivis, Eugene H. Tool for drapery pins. 2,888,680, 6-2-59, Cl. 1—46.
- Krivoussieff, Valentine: *See—*
- Bovie, Valentine. 2,901,838.
- Kriz, Robert F.: *See—*
- Kircher, Charles E., Jr., Jones, and Kriz. 2,880,076.
- Krizan, Roy. Damping means for vehicle dip and sway. 2,877,872, 3-17-59, Cl. 188—88.
- Krizka, Jerry S.: *See—*
- Welliver, Laurence G., and Krizka. 2,893,865.
- Welliver, Laurence G., and Krizka. 2,902,367.
- Krizka, Jerry S., to General Aniline & Film Corp. Stabilizer for single powder photographic developer. 2,915,394, 12-1-59, Cl. 96—66.
- Kroeger, Edward P., to The B. F. Goodrich Co. Vibration isolation mounting. 2,888,232, 5-26-59, Cl. 248—358.
- Kroeger, William J.: *See—*
- Schecter, George, and Kroeger. 2,918,005.
- Kroeger, William J., and S. D. Rollé. Single power stroke thruster with split cartridge case lock. 2,912,901, 11-17-59, Cl. 89—1.
- Kroegel, Rolf H. W., to Sealor Corp. Shaft seal for gas turbines and the like. 2,867,458, 1-6-59, Cl. 286—22.
- Kroegel, Rolf H. W., to Sealor Corp. Sealing ring assembly. 2,914,348, 11-24-59, Cl. 286—24.
- Kroegel, Rolf H. W., and W. F. Lubach, to United States of America, Navy. Pump. 2,883,213, 4-21-59, Cl. 286—11.14.
- Kroeker, Sanford P.: *See—*
- Lovelady, Isaac W., and Kroeker. 2,882,994.
- Kroemer, John H., and J. T. Davidson, to The Standard Register Co. Autographic register. 2,873,983, 2-17-59, Cl. 282—16.
- Kroenlein, Henry A. Ellipsograph. 2,879,596, 3-31-59, Cl. 33—31.
- Kroepelin, Hans, and H. Kopsch, to H. Kroepelin. Process for cracking hydrocarbons in the liquid state. 2,878,177, 3-17-59, Cl. 204—172.
- Kroeper, Hugo, F. Wirth, and O. Huchler, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of phthalic acid esters by the carbonylation of halogenated benzene compounds. 2,914,554, 11-24-59, Cl. 260—475.
- Krofta, Milos. Process and apparatus for waste liquid purification. 2,874,842, 2-24-59, Cl. 210—70.
- Krogl, Christopher J., to Western Electric Co., Inc. Automatic fluid distribution system. 2,900,176, 8-18-59, Cl. 259—95.
- Kröger, Ferdinand A., and D. de Nobel, to North American Philips Co., Inc. Asymmetrically conductive device. 2,890,142, 6-9-59, Cl. 148—33.
- Kroger, Marlin G., to Motorola, Inc. Television receiver. 2,880,271, 3-31-59, Cl. 178—7.3.
- Kroger, Marlin G., to Motorola, Inc. Device for cathode ray tube. 2,880,339, 3-31-59, Cl. 313—75.
- Kroger, Marlin G., to Motorola, Inc. Automatic frequency control. 2,905,903, 9-22-59, Cl. 331—20.
- Kroger, Rudolf W. Permanently installed dual storm window. 2,871,933, 2-3-59, Cl. 160—41.
- Kroger, Wolf: *See—*
- Gossen, Hans, Kroger, and Illing. 2,879,702.
- Krohe, Walter: *See—*
- Kaulen, Robert, and Krohe. 2,883,961.
- Krohm, Fred A., to The Anderson Co. Control for use with a wiper motor. 2,877,659, 3-17-59, Cl. 74—502.
- Krohm, Fred A., to The Anderson Co. Drive shaft mechanism for windshield wiper arms. 2,878,506, 3-24-59, Cl. 15—253.
- Krohm, Fred A., to The Anderson Co. Valve structure in a fluid motor. 2,878,833, 3-24-59, Cl. 137—624.
- Krohm, Fred A., to The Anderson Co. Windshield wiper blade assembly and pressure device therefor. 2,897,529, 8-4-59, Cl. 15—245.
- Krohm, Fred A., to The Anderson Co. Defroster. 2,899,526, 8-11-59, Cl. 219—19.
- Krohm, Fred A., to The Anderson Co. Bag and support therefor. 2,908,462, 10-13-59, Cl. 248—95.
- Krohm, Fred A., to The Anderson Co. Windshield wiper arm. 2,918,690, 12-29-59, Cl. 15—255.
- Krohn, Gilbert S.: *See—*
- Caine, Rolland H., and Krohn. 2,916,982.
- Krohn, Lawrence H.: *See—*
- Coleman, Eugene W., and Krohn. 2,891,167.
- Krokos, Raymond M., and M. Nichols, Jr., to Evans Products Co. Bicycle pedal. 2,899,842, 8-18-59, Cl. 74—594.4.
- Krol, Stanley J., and E. I. Coulon, to Malco Mfg. Co. Terminal lug. 2,914,745, 11-24-59, Cl. 339—220.
- Kroll, Alvin F., K. E. Atwood, and F. M. Mehle, to Bailey Meter Co. Density control. 2,886,051, 5-12-59, Cl. 137—91.
- Kroll, Eberhard. Apparatus for automatically placing articles in layers in containers particularly fish in barrels. 2,883,816, 4-28-59, Cl. 53—244.
- Kroll, Emanuel: *See—*
- Owens, Robert G., and Kroll. 2,896,237.
- Kroll, Everett R., to Deere & Co. Leveling control for hill-side machines. 2,872,200, 2-3-59, Cl. 280—6.
- Kroll, Ferdinand P. Vault lock. 2,895,761, 7-21-59, Cl. 292—302.
- Kroll, George: *See—*
- Dubinsky, Milton. 2,894,743.
- Kroll, Harley E.: *See—*
- Benson, Don O., Kroll, and Chou. 2,877,619.
- Kroll, Harry: *See—*
- Knell, Martin, and Kroll. 2,906,762.
- Spivak, John D., Peterson, and Kroll. 2,908,648.
- Kroll, Harry, and J. Antognini, to Gelgy Chemical Corp. Chelated iron compositions. 2,891,854, 6-23-59, Cl. 71—1.
- Kroll, Sanford: *See—*
- Dubinsky, Milton. 2,894,743.
- Kroll, Wilhelm J., N. P. Nies, and E. W. Fajans, to United States Borax & Chemical Corp. Production of elemental boron. 2,893,842, 7-7-59, Cl. 23—209.
- Krom, Myron E.: *See—*
- Abbott, George F., Jr., Krom, Mehring, and Whitney. 2,894,072.
- Blount, Frank E., and Krom. 2,894,073.
- Kromer, Franklin A. Vehicle filler tube locking bracket. 2,869,918, 1-20-59, Cl. 296—1.
- Kromer, Karl: *See—*
- Weise, Johannes, Fischer, Hahn, Kromer, and Noack. 2,893,301.
- Kromex Corp.: *See—*
- Billig, Ralph B., and Ziskin. 2,897,996.
- Kromex Corp., The: *See—*
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- Kromschroder, G., Aktiengesellschaft: *See—*
- Drabik, Josef, Rings, and Vogel. 2,911,998.
- Rings, Franz. 2,881,012.
- Rings, Franz. 2,913,259.
- Kron, Carl M., to Phillips Petroleum Co. Cyclohexane recovery. 2,891,100, 6-16-59, Cl. 260—668.
- Kron, Eugene, to Federal Electric Products Co. Insulation support for bus-bars. 2,881,242, 4-7-59, Cl. 174—99.
- Kron, Harold O., and W. Denkowski, to Philadelphia Gear Corp. Valve operators. 2,878,687, 3-24-59, Cl. 74—424.8.
- Kron, Harold O., and W. J. Denkowski, to Philadelphia Gear Corp. Valve control apparatus. 2,912,087, 11-10-59, Cl. 192—48.
- Kronacher, Gerald, to Bell Telephone Laboratories, Inc. Dual phase shift conversion circuits. 2,894,256, 7-7-59, Cl. 340—347.
- Kronacher, Gerald, to Bell Telephone Laboratories, Inc. Time interval encoder. 2,896,160, 7-21-59, Cl. 324—68.
- Kronacher, Hermann: *See—*
- Fischer, Thomas, Kronacher, and Kaess. 2,917,371.
- Kaess, Franz, Kronacher, Arnolds, and Wehrheim. 2,906,604.
- Kaess, Franz, Kronacher, and Becker-Boost. 2,884,307.
- Kaess, Franz J., Fischer, Gotzinger, and Kronacher. 2,886,417.
- Krone, Ben W., to Rockford Medical Foundation. Surgical device. 2,874,384, 2-24-59, Cl. 1—49.
- Krone, Raymond E., to General Electric Co. Wire mesh supported refractory. 2,867,112, 1-6-59, Cl. 72—50.
- Kronenberg, Marvin H.: *See—*
- Avins, Jack, and Kronenberg. 2,898,398.
- Kronenthal, Richard L., to Colgate-Palmolive Co. Electrolysis process. 2,867,569, 1-6-59, Cl. 204—72.
- Kronfuss, Karl. Garage. 2,875,910, 3-3-59, Cl. 214—16.1.
- Kronman, Albert F. Label moistening and applying device. 2,891,692, 6-23-59, Cl. 216—52.
- Kronoff, Clarence R., to Crompton & Knowles Corp. Picker stick giveaway. 2,890,726, 6-16-59, Cl. 139—156.
- Kronoff, Clarence R., to Crompton & Knowles Corp. Harness mechanism for loom. 2,907,352, 10-6-59, Cl. 137—58.
- Kronsbein, Ruth: *See—*
- Bellmann, Eugen. 2,872,802.
- Kroo, Alexander A.: *See—*
- Hoyer, Arnold. 2,905,042.
- Kroo, Emil: *See—*
- Hoyer, Arnold. 2,905,042.
- Kroon, Ray L. Anti-skid device for tires. 2,904,093, 9-15-59, Cl. 152—210.
- Kropik, Ernst: *See—*
- Ernst, Hellmut, Zapp, and Kropik. 2,880,963.



- Kropp, Donald E.: *See*—  
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- Kropp Forge Co.: *See*—  
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- Kropp, Paul M., Jr.: *See*—  
Schmall, Wilbur A., and Kropp. 2,913,563.
- Kropp, Willis A., to International Business Machines Corp.  
Card collecting rack. 2,872,185, 2-3-59, Cl. 270-58.
- Kropp, Willis A., to International Business Machines Corp.  
Synchronous motor secondary clock. 2,880,569, 4-7-59, Cl. 58-34.
- Kross, William J., to Western Electric Co., Inc. Safety device for article feeding mechanism. 2,873,845, 2-17-59, Cl. 198-221.
- Krotz, Albert. Meat mincing machine. 2,869,601, 1-20-59, Cl. 146-67.
- Krotz, Alvin S. Four wheel driven and steered vehicle. 2,910,131, 10-27-59, Cl. 180-45.
- Kroviak, John E. Clip board attachment. 2,876,022, 3-3-59, Cl. 281-44.
- Krow, Cecil J. Fuel feeding means. 2,918,079, 12-22-59, Cl. 137-340.
- Kroyer, Karl K. K. Refrigerating systems. 2,884,765, 5-5-59, Cl. 62-231.
- Krstansky, James J., and G. A. Mitchell, to Western Electric Co., Inc. Energy-measuring apparatus. 2,877,428, 3-10-59, Cl. 333-22.
- Kruchten, Edward Q. Work holding device. 2,881,645, 4-14-59, Cl. 77-63.
- Krueckeberg, Christian W.: *See*—  
Jauch, Robert J., Krueckeberg, and Hoover. 2,882,534.
- Krueckenberg, Franz: *See*—  
Haug, Albert. 2,884,869.
- Krueckenberg, Winfried, to Farbenfabriken Bayer Akt. Food additives. 2,878,124, 3-17-59, Cl. 99-4.
- Krueckenberg, Winfried, to Farbenfabriken Bayer Akt. Water insoluble monoazo dyestuffs. 2,888,450, 5-26-59, Cl. 260-155.
- Krueckenberg, Winfried, to Farbenfabriken Bayer Akt. Food additives. 2,891,863, 6-23-59, Cl. 99-2.
- Krueckenberg, Winfried, to Farbenfabriken Bayer Aktiengesellschaft. Process of dyeing polyester materials. 2,898,178, 8-4-59, Cl. 8-41.
- Krueckenberg, Winfried, and B. Homeyer, to Farbenfabriken Bayer Akt. Compositions and methods of combating nematodes employing hydrazino-bis-(dithiocarbonic acid-esters). 2,874,086, 2-17-59, Cl. 167-22.
- Krueckenberg, Winfried, and L. Eue, to Farbenfabriken Bayer Akt. Method of killing weeds. 2,875,031, 2-24-59, Cl. 71-2.5.
- Kruczynski, Anthony. Collapsible ice shanty sled. 2,891,562, 6-23-59, Cl. 135-1.
- Kruder, George A., to American Machine & Foundry Co. Method and apparatus for delivering and scaling dough. 2,882,839, 4-21-59, Cl. 107-54.
- Krueck, Charles J.: *See*—  
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- Krueger, Alfred P., to Derby Sealers, Inc. Tape dispenser and folder. 2,899,198, 8-11-59, Cl. 270-68.
- Krueger, Frank W.: *See*—  
Stahl, Robert J., and Krueger. 2,901,805.
- Krueger, Fred: *See*—  
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- Krueger, Fred C. Propeller housing attachments. 2,917,019, 12-15-59, Cl. 115-35.
- Krueger, Geraldine L.: *See*—  
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- Krueger, Glenn N.: *See*—  
Palopoli, Frank P., Krueger, and Tilford. 2,886,570.
- Krueger, Glenn N.: *See*—  
Chase, Corson W., and Krueger. 2,895,187.
- Krueger, Harvey F. and R. F.  $\frac{1}{2}$  to Gadget-Of-The-Month Club, Inc. Educational puzzle game. 2,872,741, 2-10-59, Cl. 35-9.
- Krueger, Herman A. Measuring and dispenser device. 2,869,592, 1-20-59, Cl. 141-160.
- Krueger, Leonard C., to Wausau Iron Works. Adjustable snow plow. 2,904,904, 9-22-59, Cl. 37-44.
- Krueger, Leslie: *See*—  
Winther, Simon P. 2,917,825.
- Krueger, Roland F., and L. C. Vogel, to Union Oil Co. of California. Method and apparatus for perforating well casings. 2,895,554, 7-21-59, Cl. 166-35.
- Krueger, Rudolph E. Anti-icing control system. 2,868,483, 1-13-59, Cl. 244-134.
- Krueger, Rudolph E., to United Aircraft Corp. Pressure control mechanism. 2,905,071, 9-22-59, Cl. 98-1.5.
- Krueger, Ruth F.: *See*—  
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- Krueger, Wolfgang: *See*—  
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- Kruesl, Geoffrey G. 10% to A. C. Nolte, Sr. Radio direction finder. 2,910,693, 10-27-59, Cl. 343-113.
- Krug, Julius, and L. Goltz, to Kohlenscheidungs-Gesellschaft, m.b.H. Pulverizing system. 2,917,248, 12-15-59, Cl. 241-275.
- Krug, Newton J., to The Mosler Safe Co. Night depository. 2,901,165, 8-25-59, Cl. 232-44.
- Krug, Robert H.: *See*—  
Tierney, Raymond B., and Krug. 2,897,225.
- Krüger, August: *See*—  
Sobisch, Johannes, and Krüger. 2,915,962.
- Krüger, Bodo, to North American Philips Co., Inc. Voltage converter. 2,881,380, 4-7-59, Cl. 321-2.
- Kruger, Floyd H.: *See*—  
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- Kruger, Lew: *See*—  
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- Kruger, Lew. Paint brush and roller cover cleaning appliance. 2,912,769, 11-17-59, Cl. 34-58.
- Kruger, Mandell M., to L. Kruger. Paint brush and roller cover cleaning appliance. 2,884,709, 5-5-59, Cl. 34-58.
- Kruger, Michael H., to Smithcraft Corp. Joints and method of making joints. 2,918,995, 12-29-59, Cl. 189-82.
- Krüger, Otto, and W. Stratmann, to National Biscuit Co. Process and machine for coating articles with chocolate or the like. 2,915,024, 12-1-59, Cl. 107-54.
- Kruthof, Jakob, to International Standard Electric Corp. Crossbar switch. 2,867,691, 1-6-59, Cl. 179-27.54.
- Kruthof, Jakob, L. J. G. Nys, and J. L. J. Donceel, to International Standard Electric Corp. Operating mechanism. 2,892,134, 6-23-59, Cl. 317-191.
- Kruk, John, to Rogan Bros. Power-operated screw feed and drive mechanism. 2,904,084, 9-15-59, Cl. 144-32.
- Krukemeier, John E. Water supply actuated medicinal additive proportioning device. 2,887,094, 5-19-59, Cl. 121-164.
- Krukonis, Alexander C., to Crompton & Knowles Corp. Method of assembling and wrapping articles. 2,895,272, 7-21-59, Cl. 53-21.
- Krukonis, Alexander C., to Crompton & Knowles Corp. Package of articles. 2,895,601, 7-21-59, Cl. 206-45.31.
- Krukowski, John K., to Champion Corp. Potato harvester and separating means therefor. 2,901,048, 8-25-59, Cl. 171-28.
- Krukowski, Richard E., to Leed Research Co. Battery case filling plug and liquid level indicator. 2,886,624, 5-12-59, Cl. 136-177.
- Krumbein, Jacob P.: *See*—  
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- Krumhansl, James A.: *See*—  
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- Krumme, Walter, to W. Ferd. Klingenberg Sohne. Process and machine for the production of bevel gears. 2,881,665, 4-14-59, Cl. 90-5.
- Krummel, Clyde H.: *See*—  
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- Krumrei, William C., to The Procter & Gamble Co. Liquid detergent composition. 2,877,186, 3-10-59, Cl. 252-138.
- Krumrei, William C., B. Strain, and H. J. Peddicord, to The Procter & Gamble Co. Clear liquid detergent composition. 2,877,185, 3-10-59, Cl. 252-137.
- Kruper, Andrew P.: *See*—  
Melamed, Nathan T., and Kruper. 2,888,513.
- Kruper, Andrew P., to Westinghouse Electric Corp. Image intensifier. 2,875,360, 2-24-59, Cl. 313-66.
- Kruper, Andrew P., to Westinghouse Electric Corp. Photo-transistor design. 2,897,421, 7-28-59, Cl. 317-235.
- Kruper, Andrew P., and T. Miller, to Westinghouse Electric Corp. Apparatus for reducing control current for picture tube employing multiple deflection. 2,875,375, 2-24-59, Cl. 315-21.
- Krupp, Anton M., to General Electric Co. Doweled base for adjustable directional lamp. 2,918,645, 12-22-59, Cl. 339-2.
- Krupp, Fried, Mortoren- und Kraftwagenfabriken, G. m. b. H.: *See*—  
Cambeis, Walter. 2,874,002.
- Krupp, Robert F., to Gerber Products Co. Pressure regulating valve. 2,891,570, 6-23-59, Cl. 137-509.
- Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Curved guide rail for container conveyor transfer. 2,897,947, 8-4-59, Cl. 198-28.
- Krupp, Robert F., and J. K. Wagner, to Gerber Products Co. Container case feeding and opening means. 2,918,773, 12-29-59, Cl. 53-382.
- Kruppke, Eugen: *See*—  
Kern, Rudolf, Scheurer, Zorn, and Kruppke. 2,895,914.
- Krusche, Edwin C. Windshield washer device. 2,866,996, 1-6-59, Cl. 15-250.4.
- Kruschik, Julius, to Rich. Klinger Aktiengesellschaft. Valves. 2,915,087, 12-1-59, Cl. 137-625.37.
- Kruse, Carl W.: *See*—  
Karnahl, Friedrich H. 2,912,238.
- Louthan, Rector P., and Kruse. 2,886,593.
- Kruse, Eugene H., and M. E. Rieke. Electrical fixture mounting support. 2,881,924, 4-14-59, Cl. 211-26.
- Kruse, Helmut: *See*—  
Barchmann, Helmut, Freier, and Kruse. 2,916,609.
- Kruse, Marvin A., to Ferro Corp. Aluminum sheathed heating elements in aluminum die castings. 2,890,318, 6-9-59, Cl. 219-34.
- Kruse, Marvin A., to Ferro Corp. Combination oven and heating unit. 2,918,560, 12-22-59, Cl. 219-35.
- Kruse, Norman F., to Central Soya Co., Inc. Preparation of flaked hull product. 2,904,435, 9-15-59, Cl. 99-2.
- Kruse, Paul W., to International Telephone and Telegraph Corp. Image intensifiers. 2,892,096, 6-23-59, Cl. 250-213.
- Kruse, Ralph H. Suction electrode. 2,880,729, 4-7-59, Cl. 128-404.



- Kruse, Theodore J., Jr., to Esso Research and Engineering Co. Process and apparatus for controlling the rate of addition of fluidized particles. 2,916,441, 12-8-59, Cl. 208-152.
- Krusik, Russell D. Evaporation apparatus. 2,901,586, 8-25-59, Cl. 219-35.
- Kruspe, Henry R.: *See*—  
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- Kruty, Samuel: *See*—  
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- Kruffy, Piet C., to Foster Grant Co., Inc. Process for reclaiming nylon. 2,872,420, 2-3-59, Cl. 260-23.
- Kryeske, Raymond. Coin mailer. 2,878,988, 3-24-59, Cl. 229-92.9.
- Krynak, Michael S. Warning signal for rail car. 2,900,948, 8-25-59, Cl. 116-60.
- Krystek, Stanley, to Radio Corp. of America. Testing probes. 2,912,647, 11-10-59, Cl. 324-72.5.
- Krystosek, Joseph W. Clamping structure. 2,912,213, 11-10-59, Cl. 248-361.
- Krystyan, Karol J., J. F. Lauritsen, and B. G. Voorhees, to General Electric Co. Illuminated oil-tight pushbutton. 2,914,705, 11-24-59, Cl. 317-99.
- Krzyszewski, Walter: *See*—  
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- Krzyszewski, Boleslaw: *See*—  
Finlayson, Donald, Harcolinski, and Krzesinski. 2,888,711.
- Krzikalla, Hans, H. Engel, W. Wolf, and H. Pohlemann, to Badische Anilin- & Soda-Fabrik Akt. Lubricating oil compositions. 2,905,639, 9-22-59, Cl. 252-32.7.
- Ksiazek, Frank T., to Radio Corp. of America. Printed circuit for multi-stage wave amplifier. 2,895,020, 7-14-59, Cl. 179-171.
- Kuba, Samuel, to Western Electric Co., Inc. Brazing apparatus. 2,912,950, 11-17-59, Cl. 113-59.
- Kuba, Samuel, and R. C. Shafer, to Western Electric Co., Inc. Article loading and unloading apparatus. 2,913,130, 11-17-59, Cl. 214-1.
- Kubatzky, Theodore O.: *See*—  
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- Kubatzky, Woodrow P. and T. O., to Winco Ventilator Co. Window and screen construction. 2,884,056, 4-28-59, Cl. 160-362.
- Kubico, Michael A., and R. N. MacDonald, to E. I. du Pont de Nemours and Co. Stabilization of polyoxymethylene with ureas and thioureas. 2,893,972, 7-7-59, Cl. 260-45.8.
- Kubik, John T. Pump and turbine hydraulic transmission driven by an internal combustion engine having starter means therefor. 2,914,909, 12-1-59, Cl. 60-12.
- Kubiliunas, Ignas B. Heating element for plastic. 2,886,850, 5-19-59, Cl. 18-30.
- Kubis, Heribert, to M. A. N. Maschinenfabrik Augsburg-Nuernberg A.G. Werke Nuernberg. Lubricating system for internal combustion engines. 2,913,069, 11-17-59, Cl. 184-6.
- Kublanow, Joseph. Side wall mounting. 2,880,472, 4-7-59, Cl. 20-5.
- Kubler, Donald G.: *See*—  
Montagna, Amelio E., Kubler, and Brezinski. 2,876,239.
- Kubler, Donald G., to Union Carbide Corp. 6-epoxyalkyl ethers of aliphatic tetrahydropyran-2-carboxylates. 2,870,166, 1-20-59, Cl. 260-345.8.
- Kubler, Donald G., to Union Carbide Corp. Process for making 2-alkoxy- and 2-alkoxyalkoxy-5,6-dihydro-1,2-pyrans. 2,905,699, 9-22-59, Cl. 260-345.9.
- Kubler, Ernest F., to General Electric Co. Phase shifting network. 2,887,648, 5-19-59, Cl. 323-125.
- Kubler, Ernest F., to General Electric Co. Conversion network. 2,899,629, 8-11-59, Cl. 321-39.
- Kubo, James J. Gun sling. 2,884,172, 4-28-59, Cl. 224-1.
- Kubodera, Hisayoshi. Bearing. 2,897,017, 7-28-59, Cl. 308-15.
- Kubota, Tadashi, to Tamura Works, Ltd. Non-corrosive soldering flux for electrical application. 2,904,459, 9-15-59, Cl. 148-23.
- Kubsh, Leroy M., and V. L. Loffboro, to Gardner Machine Co. Reinforcing cylinder-type abrasive wheels. 2,900,241, 8-18-59, Cl. 51-293.
- Kucera, Clement M., and R. G. Peter, to Reed Roller Bit Co. Laminated drill collar. 2,883,158, 4-21-59, Cl. 255-28.
- Kucera, Peter. Glass shaping apparatus. 2,879,628, 3-31-59, Cl. 49-1.
- Kuch, Allan L., to A. L. Kuch, Jr. Rubber band gun. 2,878,802, 3-24-59, Cl. 124-19.
- Kuch, Allan L., Jr.: *See*—  
Kuch, Allan L. 2,878,802.
- Kuch, Carl: *See*—  
Nusslein, Joseph, Kuch, and Bartl. 2,901,311.
- Kuchan, Walter V. Automatic telephone system and electromagnetic actuating mechanism therefor. 2,895,013, 7-14-59, Cl. 179-27.54.
- Kuchen, Wilhelm: *See*—  
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- Kuchenbecker, Harold R., and O. H. Arent. Frameless sportsman's and utility trailers. 2,907,601, 10-6-59, Cl. 296-23.
- Kuchenbecker, Morris W., to American Can Co. Cover locking carton. 2,889,103, 6-2-59, Cl. 229-45.
- Kucher, Andrew A., to Ford Motor Co. Tape recorder and player. 2,879,341, 3-24-59, Cl. 179-100.2.
- Kuchinsky, Saul, to Burroughs Corp. Coding system. 2,876,350, 3-3-59, Cl. 250-27.
- Kuchinsky, Saul, to Burroughs Corp. Electronic device and circuits. 2,892,959, 6-30-59, Cl. 315-8.6.
- Kuck, John H.: *See*—  
Hopkins, John J., and Kuck. 2,911,639.
- Kucklinsky, Frederick W., and A. D. Farnow, to Container Equipment Corp. Mechanism for feeding and setting up collapsed cartons. 2,916,974, 12-15-59, Cl. 93-53.
- Kucyn, Chester J., to Republic Aviation Corp. Tool for electro-shaping. 2,909,641, 10-20-59, Cl. 219-69.
- Kuczynski, Eugene R.: *See*—  
Eckfeldt, Edgar L., and Kuczynski. 2,888,640.
- Kuder, Milton L., to United States of America, Commerce. Electronic analogue-to-digital converter. 2,870,436, 1-20-59, Cl. 340-347.
- Kuder, Milton L., to United States of America, Commerce. Balance detector used in electronic analogue-to-digital converter. 2,871,351, 1-27-59, Cl. 250-27.
- Kuder, Milton L. Antenna pattern recorder. 2,878,468, 3-17-59, Cl. 343-100.
- Kuder, Milton L., to United States of America, Commerce. Automatic information sorting system. 2,907,011, 9-29-59, Cl. 340-174.
- Kudoh, Keizo. Ballast for fluorescent lamp. 2,878,425, 3-17-59, Cl. 315-284.
- Kuebler, Robert A.: *See*—  
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Fulton, John W., and Kuebler. 2,918,644.
- Kuebler, Robert A., to General Electric Co. Lamp base terminal welding. 2,892,923, 6-30-59, Cl. 219-117.
- Kuehl, Ernest M. Artificial fishing lure. 2,898,699, 8-11-59, Cl. 43-42.09.
- Kuehl, Frederick A., Jr., to Merck & Co., Inc. Stabilized and reactivated ACTH preparation and processes of producing same. 2,904,471, 9-15-59, Cl. 167-74.
- Kuehl, Thomas J., to Fiat Metal Mfg. Co. Gravity hinge. 2,904,824, 9-22-59, Cl. 16-153.
- Kuehn, John P., to Pickering Associates, Inc. Directional electrostatic speaker assembly. 2,916,562, 12-8-59, Cl. 179-147.
- Kuehn, Rudolph L., and R. K. Seigle, to Hymac Corp. Sawtooth voltage generator. 2,900,502, 8-18-59, Cl. 250-27.
- Kuehne, Martin E., to Ciba Pharmaceutical Products, Inc. Process for the preparation of lactones in the yohimbane series. 2,901,483, 8-25-59, Cl. 260-286.
- Kuehner, Richard L., to Borg-Warner Corp. Dissolver. 2,874,032, 2-17-59, Cl. 23-267.
- Kuehner, Richard L., and N. E. Hopkins, to Borg-Warner Corp. Method of deodorizing and sterilizing air in enclosed spaces. 2,876,507, 3-10-59, Cl. 21-53.
- Kuemmerling, Karl. Saw scabbard. 2,867,363, 1-6-59, Cl. 224-2.
- Kuenappel, Friedhelm: *See*—  
Wilkenloh, Wilhelm, Jaeger, and Kuenappel. 2,910,281.
- Kueneman, Don: *See*—  
Kueneman, John R. and D. 2,915,157.
- Kueneman, John R. and D. Overload release device. 2,915,157, 12-1-59, Cl. 192-56.
- Kuenig, Klaas J.: *See*—  
De Jonge, Jelis, Jonker, Kuenig, and Dippel. 2,868,643.
- Kuenning, Robert W.: *See*—  
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Hartwig, Edward C., Kuenning, and Acker. 2,874,235.
- Kueser, John J., to Knapp-Monarch Co. Electric baker. Re. 24,738, 11-24-59, Cl. 219-35.
- Kueser, John J., to Knapp-Monarch Co. Handle for cooking vessel. 2,886,206, 5-12-59, Cl. 220-94.
- Kueser, John J., to Knapp-Monarch Co. Coffee maker and thermostat construction therefor. 2,896,062, 7-21-59, Cl. 219-44.
- Kuester, Harlan D., to Cockshutt Farm Equipment, Ltd. Agricultural vehicle. 2,880,811, 4-7-59, Cl. 172-75.
- Kueter, Kenneth E., and W. S. Maxim, to The Kemax Corp. Spray gun. 2,910,248, 10-27-59, Cl. 239-413.
- Kuffer, Clarence O., to Aerosol Research Co. Aerosol valve assembly. 2,913,154, 11-17-59, Cl. 222-513.
- Kuffer, Johannes, to Telefunken G.m.b.H. Filament tensioning. 2,908,842, 10-13-59, Cl. 313-278.
- Kufner, Charles W.: *See*—  
Cloyd, Harold S., and Kufner. 2,919,055.
- Kugel, Fritz K., to J. M. Voith. G. m. b. H., Maschinenfabrik. Hydraulic coupling. 2,875,581, 3-3-59, Cl. 60-54.
- Kugelfischer Georg Schafer & Co.: *See*—  
Komm, Nikolaus. 2,881,035.
- Kugler, Edwin R. Barrel lifting device. 2,879,102, 3-24-59, Cl. 294-106.
- Kugler, Carl J.: *See*—  
Riester, Hubert A., Jr., and Kugler. 2,903,323.
- Kugler, Heinz W.: *See*—  
Crosby, William H., and Kugler. 2,881,756.
- Kugler, Herbert M.: *See*—  
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- Kugler, Walter: *See*—  
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- Kuhl, Charles F., Jr., L. E. Tank, and D. F. Tinari, to Aircraft Armaments, Inc. Radio receiver alarm. 2,882,390, 4-14-59, Cl. 250-20.
- Kuhl, Walter H.: *See*—  
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- Kuhlenkamp, Alfred, to Mathema Corp. Reg. Trust. Gun sight. 2,904,887, 9-22-59, Cl. 33-49.
- Kuhlschmidt, Donald, and C. O. Fowler, to Whirlpool Corp. Support for air conditioning apparatus. 2,891,754, 6-23-59, Cl. 248-208.
- Kuhlman, Arthur L. Neckwear construction. 2,886,823, 5-19-59, Cl. 2-145.
- Kuhlman, Arthur L. Drinking cup construction. 2,912,134, 11-10-59, Cl. 220-20.
- Kuhlman Electric Co.: See—
- Gakle, Wendolyn F., Leffer, Warner, and Holmgren. 2,878,855.
- Waite, Clayland M. 2,918,541.
- Kuhlmann, Kurt: See—
- Tsunoda, Kenneth, and Kuhlmann. 2,907,176.
- Kuhlmann, Wilhelm, B. Pagenstedt, and C. W. Brabender. Process and apparatus for improving the baking properties of wheat flour. 2,880,093, 3-31-59, Cl. 99-93.
- Kuhlmeier, Robert H. Refrigeration equipment for insulated trucks and vehicles. 2,895,309, 7-21-59, Cl. 62-186.
- Kühn, Alfred, to Simens & Halske Akt. Pneumatic dispatch carrier. 2,888,218, 5-26-59, Cl. 243-32.
- Kuhn, Alfred S. Metallized electrical capacitor. 2,891,204, 6-16-59, Cl. 317-260.
- Kuhn, Clarence W.: See—
- Heller, Herbert E., Kelto, Kuhn, and Rosing. 2,889,426.
- Rosing, Theodore F., Kolb, and Kuhn. 2,875,297.
- Kuhn, Clarence W., to Cutler-Hammer, Inc. Thermal switches. 2,916,586, 12-8-59, Cl. 200-113.
- Kuhn, Clarence W., and G. R. Radley, to Cutler-Hammer, Inc. Electrical resistor units. 2,874,257, 2-17-59, Cl. 201-74.
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- Kuhn, Clarence W., and T. F. Rosing, to Cutler-Hammer, Inc. Electric control device. 2,908,784, 10-13-59, Cl. 200-104.
- Kuhn, Donald H., to General Electric Co. Signal processing arrangement. 2,901,745, 8-25-59, Cl. 343-77.
- Kuhn, Edward H., to Allen-Bradley Co. Continuously adjustable limit switch. 2,903,528, 9-8-59, Cl. 200-38.
- Kuhn, Edward H., and L. H. Matthias, to Allen-Bradley Co. Contact structure for electromagnetic actuator. 2,919,327, 12-29-59, Cl. 200-104.
- Kuhn, Gotthard: See—
- Berthmann, Adolf, Kuhn, and Kaufer. 2,908,560.
- Kuhn, Hans H.: See—
- Hoffmann, Ulrich, Hopff, and Kuhn. 2,882,269.
- Kuhn, Heinrich: See—
- Landrum, Billy F., Kahrs, and Kuhn. 2,909,571.
- Kuhn, John, to The Garrett Corp. Radial wheel construction. 2,873,945, 2-17-59, Cl. 253-39.15.
- Kuhn, Kurt W.: See—
- Arrasmith, William C., and Kuhn. 2,880,370.
- Kuhn, Robert A., and C. A. Hanser, to American Electrical Heater Co. Steam iron. 2,887,799, 5-26-59, Cl. 38-77.
- Kuhnappel, Robert H., and J. H. Wyman, to Bendix Aviation Corp. Vacuum furnace. 2,880,982, 4-7-59, Cl. 263-6.
- Kuhnau, Richard A. Packer unit for trucks. 2,911,119, 11-3-59, Cl. 214-82.
- Kuhnert, Alfred R., and B. J. Rothe, to VEB Zeiss Ikon Dresden. Cinematograph apparatus. 2,901,940, 9-1-59, Cl. 88-17.
- Kuhnert, Rudolf, to VEB Zeiss Ikon Dresden. Motion picture projector changing-over system for magnetic and optical scanning. 2,886,649, 5-12-59, Cl. 179-100.1.
- Kuhnhausen, Herman F. Power transmitting mechanism. 2,910,875, 11-3-59, Cl. 74-40.
- Kuhnl, Leopold K.: See—
- Preis, Carl G., and Kuhn. 2,911,714.
- Kuhnl, Leopold K., to Eversharp, Inc. Safety razor for receiving blades from a magazine. 2,911,713, 11-10-59, Cl. 30-62.
- Kuhnl, Leopold K., to Eversharp, Inc. Razor blade knife. 2,914,850, 12-1-59, Cl. 30-156.
- Kuhrmeyer, Carl A., R. Owen, and J. R. Favorite, to Minnesota Mining & Mfg. Co. Thermocopying machine. 2,891,165, 6-16-59, Cl. 250-65.
- Kuhrmeyer, Carl A., D. G. Kimble, and C. S. Miller, to Minnesota Mining & Mfg. Co. Shadow thermoprinting. 2,919,349, 12-29-59, Cl. 250-65.
- Kuhr, Friedrich: See—
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- Kuhr, Friedrich, to Siemens-Schuckertwerke Akt. Hall effect device. 2,877,394, 3-10-59, Cl. 317-234.
- Kuhr, Friedrich, and K. Maaz, to Siemens-Schuckertwerke Akt. Electric current measuring transformer. 2,886,779, 5-12-59, Cl. 324-127.
- Kuhr, Noel H., and M. I. Van Graafeiland, to Eastman Kodak Co. Method of producing bakery products. 2,871,124, 1-27-59, Cl. 99-91.
- Kuhr, Noel H., and M. I. Van Graafeiland, to Eastman Kodak Co. Method of making bakery products. 2,871,125, 1-27-59, Cl. 99-91.
- Kuhr, Noel H., and M. I. Van Graafeiland, to Eastman Kodak Co. Method of preparing bakery products. 2,871,128, 1-27-59, Cl. 99-118.
- Kuiper, James R., to R. C. Allen Business Machines, Inc. Gyroscopic stabilizer. 2,871,707, 2-3-59, Cl. 74-5.22.
- Kujanik, Joseph A., Jr. Collapsible tube and cap. 2,917,209, 12-15-59, Cl. 222-512.
- Kuka, Kai-Kobad S., to The Clark Controller Co. Electric hoist controls. 2,902,635, 9-1-59, Cl. 318-258.
- Kukin, Ira, and H. Sonneborn III, to L. Sonneborn Sons, Inc. Rescue marker for water-borne objects. 2,916,344, 12-8-59, Cl. 8-3.
- Kukla, Edward T. Boat lantern holder. 2,872,146, 2-3-59, Cl. 248-229.
- Kuklinski, Henry W., to Carrier Corp. Transportation refrigeration system. 2,907,182, 10-6-59, Cl. 62-158.
- Kukuk, Wilhelm, to Optische Werke C. A. Steinheil Sohne G.m.b.H. Photographic objective. 2,879,705, 3-31-59, Cl. 95-64.
- Kulesar, Frank, to Clevite Corp. Titanate ceramic compositions and articles. 2,911,370, 11-3-59, Cl. 252-62.9.
- Kulesar, Frank, and C. G. Cmolik, to Clevite Corp. Ferroelectric ceramic composition. 2,906,710, 9-29-59, Cl. 252-62.9.
- Kulesza, Chester P., to Reynolds Metals Co. Vacuum package. 2,870,954, 1-27-59, Cl. 229-62.5.
- Kulesza, Frank W., to International Business Machines Corp. Erasure of imprinted magnetic markings. 2,884,348, 4-28-59, Cl. 134-1.
- Kulhavy, George W., and R. L. Coleman, to The Carter-Waters Corp. Control joint for building blocks. 2,869,356, 1-20-59, Cl. 72-107.
- Kulick, Andrew, Jr.: See—
- Barabutes, Theodore, and Kulick. 2,900,607.
- Barabutes, Theodore, and Kulick. 2,900,627.
- Kulick, George. Device for delivering measured quantities of liquid. 2,879,767, 3-31-59, Cl. 128-227.
- Kulicke, Frederick W., Jr.: See—
- Soffa, Albert, and Kulicke. 2,893,297.
- Kulik, Metro D., to Consolidation Coal Co. Method of removing finely divided solid particles from hydrocarbonaceous liquids. 2,871,181, 1-27-59, Cl. 208-45.
- Kuljian Corp.: See—
- Kuljian, Harry A., and Fadden. 2,870,751.
- Kuljian, Harry A. Liquid storing and liquid flow distributing and modulating device. 2,903,166, 9-8-59, Cl. 222-478.
- Kuljian, Harry A., and W. J. Fadden, Jr., to The Kuljian Corp. Pumps liquid heater and translator. 2,870,751, 1-27-59, Cl. 122-451.
- Kulka Electric Corp.: See—
- Kulka, Eugene R. 2,883,639.
- Kulka, Eugene R., to Kulka Electric Corp. Lampholders for asymmetric tubular lamps. 2,883,639, 4-21-59, Cl. 339-52.
- Kulka, Thomas S. Combined housing and tape retaining means for tape holding reels. 2,867,318, 1-6-59, Cl. 206-59.
- Kull, Leo. Program clock. 2,918,969, 12-29-59, Cl. 161-1.
- Kullenberg, Fred J., to W. P. Fuller & Co. Paint for highway marking and the like. 2,879,171, 3-24-59, Cl. 106-170.
- Kulluck, Jacob J. Gun cartridge. 2,897,757, 8-4-59, Cl. 102-38.
- Kulo, Thomas E.: See—
- Rogier, Clarence F., Kulo, and Singer. 2,918,766.
- Kum, Stanley L.: See—
- Williams, John L., and Kum. 2,893,684.
- Kumada, Makoto: See—
- Kuriyagawa, Mamoru, and Kumada. 2,881,197.
- Kuriyagawa, Mamoru, and Kumada. 2,908,698.
- Kumagai, Tom T., to Hughes Aircraft Co. Error detecting system. 2,897,480, 7-28-59, Cl. 340-147.
- Kumler, Stanley B.: See—
- Kumler, William L. and S. B. 2,915,319.
- Kumler, William L. and S. B. Camera dolly with differential steering mechanism. 2,915,319, 12-1-59, Cl. 280-91.
- Kumm, Emerson L., to Curtiss-Wright Corp. Resonant combustion apparatus. 2,911,957, 11-10-59, Cl. 122-16.
- Kumm, William H.: See—
- Heazel, Vincent M., Jr., and Kumm. 2,902,630.
- Kummer, Ernst W. Sheet folding and envelope filling machine. 2,912,807, 11-17-59, Cl. 53-117.
- Kummer, Ernst W. Apparatus for handling and filling envelopes. 2,915,863, 12-8-59, Cl. 53-117.
- Kummer, Ernst W. Automatic sheet folding and envelope feeding machine. 2,915,864, 12-8-59, Cl. 53-117.
- Kummer, Keith F., to McGraw-Edison Co. Static-wire support. 2,903,214, 9-8-59, Cl. 248-71.
- Kummich, Maria K.: See—
- Kummich, Theodor F., and Grabow. 2,883,020.
- Kummich, Theodor F., deceased, by M. K. Kummich, administrator, and F. Grabow, to Daimler-Benz Akt. Shifting device for claw clutches. 2,883,020, 4-21-59, Cl. 192-18.
- Kumnick, Miles C., and J. F. Lontz, to E. I. du Pont de Nemours and Co. Coating of fibrous structures with tetrafluoroethylene polymer. 2,876,131, 3-3-59, Cl. 117-47.
- Kumnick, Miles C., and J. F. Lontz, to E. I. du Pont de Nemours and Co. Stabilization of polytetrafluoroethylene filler slurries. 2,891,921, 6-23-59, Cl. 260-29.6.
- Kump, Ernest J. Prefabricated building construction. 2,883,711, 4-28-59, Cl. 20-2.
- Kumper, Beverly D., to United States of America, Army. Magnetron amplifier. 2,897,401, 7-28-59, Cl. 315-39.63.
- Kun, Kenneth A., and J. A. Schmidlein, to American Cyanamid Co. Process for the manufacture of methylol melamines and alkylated methylol melamines. 2,918,452, 12-22-59, Cl. 260-67.6.



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- Kunce, Basil H., J. T. Long, Jr., and G. G. Olson, to Fleeta Foods Corp. Process for making corn chips. 2,916,378, 12-8-59, Cl. 99-80.
- Kunkel, Heinz. Telephone set. 2,894,075, 7-7-59, Cl. 179-81.
- Kündig, Werner: *See*—  
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- Kundiger, Donald G., and E. B. Ovist, to The Dow Chemical Co. Bis( $\alpha$ -chloro-isobutyrate)s of dihydroxybenzenes. 2,873,293, 2-10-59, Cl. 260-479.
- Kundiger, Donald G., and C. R. Dick, to The Dow Chemical Co. 3,3-dichloro-2-methylallyl oxime ethers. 2,880,238, 3-31-59, Cl. 260-566.
- Kundiger, Donald G., and E. B. W. Ovist, to The Dow Chemical Co. 4-chloro-5,7-dihydroxy-2-methyl-1-indanone. 2,881,218, 4-7-59, Cl. 260-590.
- Kundiger, Donald G., and E. B. W. Ovist, to The Dow Chemical Co. Hydroxy-methylindanone oximes and method. 2,882,318, 4-14-59, Cl. 260-566.
- Kundiger, Donald G., and H. Pledger, Jr., to The Dow Chemical Co. 3,3-dichloro-2-methylallylamines. 2,891,064, 6-16-59, Cl. 260-293.
- Kuner-Empson Co.: *See*—  
Aldridge, John E. 2,867,247.
- Kunes, Earle C., to The Singer Mfg. Co. Presser roller attachments. 2,891,496, 6-23-59, Cl. 112-214.
- Kunetka, Robert E.: *See*—  
Allen, Joseph C., and Kunetka. 2,871,941.  
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- Kung, Frederick E., to Columbia-Southern Chemical Corp. Manufacture of carbon tetrachloride. 2,892,875, 6-30-59, Cl. 260-664.
- Kung, Frederick E., to Columbia-Southern Chemical Corp. Manufacture of benzene hexachloride. 2,911,342, 11-3-59, Cl. 204-163.
- Kunik, I. Jordan: *See*—  
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- Kunkel, Albert A.: *See*—  
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Kunkel, Aloysius T. 2,917,796.
- Kunkel, Aloysius T., deceased, by A. A. Kunkel, administrator. Metal window. Re. 2,470,4, 9-29-59, Cl. 189-75.
- Kunkel, Aloysius T. Weatherstripping for thresholds. 2,880,477, 4-7-59, Cl. 20-69.
- Kunkel, Aloysius T. Auxiliary window panel and fastener therefor. 2,883,716, 4-28-59, Cl. 20-561.
- Kunkel, Aloysius T., deceased; A. A. Kunkel, administrator. Sliding window construction. 2,889,590, 6-9-59, Cl. 20-522.
- Kunkel, Aloysius T., deceased; A. A. Kunkel, administrator. Liner for frame members. 2,917,788, 12-22-59, Cl. 20-11.
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- Kunkel, Bill B.: *See*—  
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- Kunkel, Edward J. Hydraulic ram pump. 2,887,956, 5-26-59, Cl. 103-77.
- Kunkel, Gerhardt P., and F. K. Koepfel. Flooding control device for toilet commodes. 2,894,263, 7-14-59, Cl. 4-1.
- Kunkel, Gerhardt P., and F. K. Koepfel. Catch basin backup control. 2,915,083, 12-1-59, Cl. 137-433.
- Kunkel Industries, Inc.: *See*—  
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- Kunkle Valve Co.: *See*—  
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- Kunkler, William J. Device for supporting books. 2,911,103, 11-3-59, Cl. 211-43.
- Kunreuther, Frederick, to Shell Development Co. Process for the production of gasoline from petroleum residues. 2,871,184, 1-27-59, Cl. 208-55.
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- Kunstadt, George H., to Raytheon Mfg. Co. Sweep amplifiers. 2,892,961, 6-30-59, Cl. 315-27.
- Kunstzijdespinnerij Nyma N. V.: *See*—  
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- Kuntz, Josef, to G. Kochheim. Flat knitting apparatus for manufacturing rib knit fabric. 2,893,225, 7-7-59, Cl. 66-64.
- Kunz, Charles B.: *See*—  
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- Kunz, Eric C. Animal feed. 2,910,361, 10-27-59, Cl. 99-6.
- Kunz, Friedrich: *See*—  
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- Kunz, Hugo A. Paper roll holder and cutter with printing attachment. 2,893,316, 7-7-59, Cl. 101-226.
- Kunz, Jacob T., to Schulmerich Electronics, Inc. Striking mechanism for music instrument. 2,873,640, 2-17-59, Cl. 84-405.
- Kunz, Jacob T., to Schulmerich Electronics, Inc. Free-free type tone generating bar. 2,898,795, 8-11-59, Cl. 84-403.
- Kunz, William J., Jr., and W. C. Wintrobe, to Bendix Aviation Corp. Voltage contouring device. 2,880,581, 4-7-59, Cl. 60-3928.
- Kunz, William R., to United States of America, Army. Firing mechanism for an automatic firearm. 2,887,012, 5-19-59, Cl. 89-131.
- Kunze, Willy, to Atlas Werke Akt. Alarm device for radar equipment. 2,891,243, 6-16-59, Cl. 343-5.
- Kunzi, Hugo H., and H. S. Meat chopper having axially reciprocating annular knives. 2,875,798, 3-3-59, Cl. 146-78.
- Kunzi, Hugo S.: *See*—  
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- Kunzl, Josef. Device for supply and removal of air. 2,915,792, 12-8-59, Cl. 20-42.
- Kunzman, Francis A.: *See*—  
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- Kunzmann, Karl, to VEB Fernmeldewerk Arnstadt. Polarized relay. 2,898,527, 8-4-59, Cl. 317-172.
- Kuo, Chi-Sheng, to Chemical Construction Corp. Closure and seal for pressure vessels. 2,903,152, 9-8-59, Cl. 220-46.
- Kupchick, John J., to Martin-Rockwell Corp. Seals for rotatable members. 2,886,347, 5-12-59, Cl. 286-5.
- Kupchinsky, Leonard, and F. A. Layne, to Ferro Corp. Tile setter. 2,897,571, 8-4-59, Cl. 25-153.
- Kuper, Heinrich: *See*—  
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- Kupferberg, Alfred B., and H. O. Singher, to Ortho Pharmaceutical Corp. Quaternary ammonium salt and N-thiotrichloromethyl hydantoin vaginal composition. 2,886,487, 5-12-59, Cl. 167-58.
- Kupka, John J., to McKiernan-Terry Corp. Lubrication of power hammers. 2,879,864, 3-31-59, Cl. 184-7.
- Kupka, John J., to McKiernan-Terry Corp. Underwater pile hammer. 2,904,964, 9-22-59, Cl. 61-76.
- Kupstas, Edward E.: *See*—  
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- Kuras, Henry F.: *See*—  
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- Kuras, Manfred H. Motor vehicle muffler. 2,896,739, 7-28-59, Cl. 181-46.
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- Kurata, Fred, and J. P. Kohn. Separation of normally gaseous acidic components and methane. 2,900,797, 8-25-59, Cl. 62-12.
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- Kurath, Ernst, to Wisconsin Laboratories, Inc. Conditioning container for brushes. 2,883,043, 4-21-59, Cl. 206-151.
- Kurek, Thaddeus M., R. G. Popp, and D. C. Jones, to The Martin Co. Towing hook for seaplanes. 2,872,890, 12-10-59, Cl. 114-235.
- Kurihara, Chuji: *See*—  
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- Kurita, Kentaro, to Hitachi Ltd. Static shielding of transformer windings. 2,905,911, 9-22-59, Cl. 336-70.
- Kuriyagawa, Mamoru, and M. Kumada, to Tokyo Shibaura Electric Co., Ltd. Process of preparing alkylaloxysilanes. 2,881,197, 4-7-59, Cl. 260-448.8.
- Kuriyagawa, Mamoru, and M. Kumada, to Tokyo Shibaura Electric Co., Ltd. Process of preparing hexaalkyldisilane. 2,908,698, 10-13-59, Cl. 260-448.2.
- Kurk Products Co.: *See*—  
Kirkjian, Yervant H. 2,889,064.
- Kurka, Charles A.: *See*—  
Hulzschuh, Donald L., Kurka, Phillips, and Streeter. 2,905,908.
- Kurkjian, Yervant H., to Kurk Products Co. Flange locking and distortion preventing means. 2,889,064, 6-2-59, Cl. 215-11.
- Kurlash Co., Inc.: *See*—  
Flynn, John V. 2,893,404.
- Kurlinski, Dale T.: *See*—  
Gerber, Dale C., Seck, and Kurlinski. 2,876,481.
- Kurlinski, Dale T., to The Hoover Co. Cotton rug cleaning tool. 2,881,464, 4-14-59, Cl. 15-360.
- Kurlytis, Paul C. Rear view mirror. 2,895,380, 7-21-59, Cl. 88-86.
- Kurmer, John. Vehicle parking equipment. 2,915,203, 12-1-59, Cl. 214-16.1.
- Kurose, Keamon. Squeeze type fountain cleaning device. 2,893,044, 7-7-59, Cl. 15-322.
- Kurowski, Victor J., to General Electric Co. Refrigerator including air circulator control means. 2,889,693, 6-9-59, Cl. 62-408.
- Kurre, Paul G., to Allis-Chalmers Mfg. Co. Lubrication for the movable disk of variable pitch sheaves. 2,876,649, 3-10-59, Cl. 74-230.17.
- Kurschner, Lloyd F. Clip attachment for paint brushes for mounting a secondary brush. 2,917,763, 12-22-59, Cl. 15-106.
- Kursh, Maurice. Phonograph record holder. 2,881,912, 4-14-59, Cl. 206-62.



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- Kurshan, Jerome, to Radio Corp. of America. Semiconductor devices and system. 2,915,646, 12-1-59, Cl. 307-88.5.
- Kurt, Anton, to Bendix Aviation Corp. Combined valve and chuck. 2,880,960, 4-7-59, Cl. 251-149.
- Kurth, Franz J.: *See*—  
Honerkamp, Friedrich, Kurth, and Barlow. 2,884,005.
- Kurth-Chappuis, Erwin, to Kurth Freres S.A. Fabrique de Montres Certina. Free wheel coupling, chiefly for watches. 2,894,611, 7-14-59, Cl. 192-41.
- Kurth Freres S.A. Fabrique de Montres Certina: *See*—  
Kurth-Chappuis, Erwin. 2,894,611.
- Kurtis, James F., to Koontz-Wagner Electric Co., Inc. Electrical apparatus. 2,873,326, 2-10-59, Cl. 200-104.
- Kurtz, Donald R., to General Electric Co. Fluid-pressure controlled operating mechanism for a circuit breaker. 2,874,242, 2-17-59, Cl. 200-82.
- Kurtz, Leonard D., to J. A. Deknatel & Son, Inc. Surgical needle. 2,869,550, 1-20-59, Cl. 128-339.
- Kurtz, Louis A., to Hughes Aircraft Co. Phase shifter for scanning antenna array. 2,908,906, 10-13-59, Cl. 343-854.
- Kurtz, Peter, to Farbenfabriken Bayer Akt. Process for the production of allyl substituted acetylene compounds. 2,884,464, 4-28-59, Cl. 260-632.
- Kurtz, Ralph W., to James B. Clow & Sons, Inc. Flexible pipe-joint. 2,898,131, 8-4-59, Cl. 285-231.
- Kurtz, Ralph W., to James B. Clow & Sons, Inc. Centrifugal pipe casting machine. 2,901,793, 9-1-59, Cl. 22-65.
- Kurtz, Robert A. Fish lure. 2,896,357, 7-28-59, Cl. 43-42.36.
- Kurtzon, Albert. Shallow fluorescent lamp fixture. 2,897,347, 7-28-59, Cl. 240-51.11.
- Kury, Josef, to J. Bobst and Son S.A. Pneumatic brake with pressure closed valve. 2,895,570, 7-21-59, Cl. 188-94.
- Kuryla, Alan T.: *See*—  
Kautz, George R., Kuryla, and Smithgall. 2,916,644.
- Kuryla, Alan T., to Sylvania Electric Products Inc. Electron discharge device manufacture. 2,884,312, 5-28-59, Cl. 41-42.
- Kuryla, Alan T., and T. B. Vanner, to Sylvania Electric Products Inc. Image reproduction device. 2,903,319, 9-8-59, Cl. 316-18.
- Kurylo, Lubomyr, and H. M. Schoen, to United States of America, Navy. Viscosimeter comprising orificed baffles at intervals along a fluid passage. 2,876,637, 3-10-59, Cl. 73-56.
- Kurz, Alvin M.: *See*—  
Haynes, Alex L., Kurz, and Van Wicklin. 2,881,706.
- Kurz, Karl D., and H.-O. Derndinger, to Daimler-Benz Aktiengesellschaft. Valve actuating mechanism for internal combustion engines. 2,904,024, 9-15-59, Cl. 123-90.
- Kurz, Rainer, to Firma Paul Lechler. Heat treatment of protective coatings. 2,916,399, 12-8-59, Cl. 117-93.
- Kurz, Rudolf. Joint. 2,911,245, 11-3-59, Cl. 287-99.
- Kurz, Wilhelm: *See*—  
Grohmann, Walter, and Kurz. 2,903,519.
- Kurzen, Fritz: *See*—  
Siemer, Harm, Kurzen, and Dopstadt. 2,868,786.
- Kurzinski, Edward F., J. F. Collins, H. C. Barnes, and G. P. Dahm, to Union Carbide Corp. Process for the production of nodular cast iron. 2,889,222, 6-2-59, Cl. 75-130.
- Kurze, Herbert, and H. Sattler, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing improved thin shaped structures, such as filaments or fols, from linear polyesters. 2,917,779, 12-22-59, Cl. 18-48.
- Kusama, Jun: *See*—  
Oshima, Motoyoshi, Kusama, and Ishii. 2,900,284.
- Kusan Inc.: *See*—  
Dunbar, George W. 2,872,051.  
McLain, William R. 2,884,868.  
McLain, William R., and Lescher. 2,903,817.
- Kuschel, Max. Tubes of any suitable material. 2,881,953, 4-14-59, Cl. 222-94.
- Kushion, Joseph. Tool locating gauge. 2,886,895, 5-19-59, Cl. 33-185.
- Kushner, Jack, to H. Z. Corp. Cells for electro-chemical measurements. 2,870,077, 1-20-59, Cl. 204-195.
- Kushner, Martin: *See*—  
Dunn, Edward J., Jr., and Kushner. 2,882,178.
- Kushner, Milton N., and R. A. Chapellier, to Combustion Engineering, Inc. Automatic coupling. 2,894,779, 7-14-59, Cl. 294-83.
- Kushner, Samuel: *See*—  
Bach, Frederick L., Jr., Brabander, and Kushner. 2,909,523.
- Kushynski, Leon, and S. Wolock, to Sydney Accessories, Inc. Handbag structure. 2,914,105, 11-24-59, Cl. 150-33.
- Kusko, Alexander. Electrical system for compensating for line voltage variations. 2,914,722, 11-24-59, Cl. 323-66.
- Kusnick, Arthur A.: *See*—  
Phelps, Byron E., Sochor, and Kusnick. 2,913,171.
- Kuss, Ernst, O. Emert, A. Dietrich, A. Elbel, and H. Zirngibl, to Dulsburger Kupferhuetten. Working up of sulfide iron ores. 2,910,348, 10-27-59, Cl. 23-224.
- Kusters, Eduard: *See*—  
Appenzeller, Valentin. 2,908,964.
- Urban, Peter. 2,870,706.
- Kusters, Eduard. Apparatus for squeezing webs utilizing alternate hard and soft rolls on different axes. 2,878,778, 3-24-59, Cl. 118-117.
- Kustusch, Edmund. Rotary undercutting tool. 2,888,968, 6-2-59, Cl. 145-114.5.
- Kustusch, Paul W. Fish lure casting device. 2,914,883, 12-1-59, Cl. 43-41.2.
- Kuthe, Charles H., to Calumet & Hecla, Inc. Internal and internal-external surface heat exchange tubing. 2,913,009, 11-17-59, Cl. 138-38.
- Kuts, Richard M., to The B. F. Goodrich Co. Automatic hole treating machine. 2,909,081, 10-20-59, Cl. 77-3.
- Kutsay, Ali U. Electric strain gauge and resistance units therefor. 2,873,341, 2-10-59, Cl. 201-63.
- Kutsay, Ali U., to Baldwin-Lima-Hamilton Corp. Universal fatigue machine with torsional elastic loading springs. 2,882,720, 4-21-59, Cl. 73-91.
- Kuttler, Leonard W., Jr.: *See*—  
Flannery, Frank A., and Novkov. 2,906,146.  
Flannery, Frank A., Novkov, and Stein. 2,913,935.
- Kutz, Harry C.: *See*—  
Timmerman, Robert W., and Kutz. 2,888,329.
- Kutler, Robert J., to Minneapolis-Honeywell Regulator Co. Automatic pilot for aircraft. 2,881,990, 4-14-59, Cl. 244-77.
- Kux, Albert S., to Kux Machine Co. Pressure multiplier. 2,867,088, 1-6-59, Cl. 60-54.5.
- Kux Machine Co.: *See*—  
Kux, Albert S. 2,867,088.
- Kuxhaus, Ruben H., to Royston Laboratories, Inc. Methods and apparatus for coating pipe and the like. 2,867,188, 1-6-59, Cl. 118-108.
- Kuykendall, Jack C. Safety feed control for liquid fuel. 2,869,628, 1-20-59, Cl. 158-38.
- Kuykendall, Leland S., to Collins Radio Co. Multiple shaft positioning system. 2,905,021, 9-22-59, Cl. 74-529.
- Kuykendall, Leland S., to Collins Radio Co. Positive position switch. 2,910,556, 10-27-59, Cl. 200-67.
- Kuyper, Herman S., to Rolscreen Co. Window operator. 2,877,842, 3-17-59, Cl. 160-95.
- Kuyper, Herman S., to Rolscreen Co. Folding door with flexible hinge strips. 2,912,049, 11-10-59, Cl. 160-231.
- Kuyppers, Joannes A. Apparatus for continuously feeding a band of textile or similar material. 2,895,596, 7-21-59, Cl. 203-150.
- Kuyppers, Norbert T.: *See*—  
Liddell, Robert E., Kuyppers, and Yonkers. 2,885,700.
- Kuzara, Joseph. Fish tape reel. 2,913,222, 11-17-59, Cl. 254-134.3.
- Kuze, Yoshikazu. Circuit breaking protectors. 2,898,420, 8-4-59, Cl. 200-87.
- Kuzela, Jan, and F. Vavfin. Device for the production of a light filling from blast furnace, boiler and other slag. 2,880,456, 4-7-59, Cl. 18-2.6.
- Kuzmitz, Andrew A.: *See*—  
Wallace, Glen W., and Kuzmitz. 2,880,580.
- Kuzmitz, Andrew A., to Bendix Aviation Corp. Mechanism for controlling fuel to a gas turbine engine. 2,888,067, 5-26-59, Cl. 158-36.4.
- Kvetinskas, Bruno: *See*—  
Bloch, Herman S., and Kvetinskas. 2,886,614.
- Kwake, John P. Swimming pool cover. 2,883,676, 4-28-59, Cl. 4-172.
- Kwake, John P. Pillow-beach bag. 2,883,682, 4-28-59, Cl. 5-344.
- Kwapien, Henry P.: *See*—  
Todd, Alexander W., and Kwapien. 2,911,763.
- Kwartler, Irwin E., and R. L. Wade, to Royal McBee Corp. Card binders. 2,898,919, 8-11-59, Cl. 129-24.
- Kwasniewski, George A.: *See*—  
Bergsland, Charles H., James, Karimen, Kwasniewski, and Neumeier. 2,893,009.
- Kwasniewski, George A., to General Mills, Inc. Bending mechanism. 2,902,691, 9-8-59, Cl. 1-2.
- Kwate, Bernard, to Therm-O-Lab Corp. Electrical heating element. 2,882,187, 4-14-59, Cl. 117-217.
- Kwauk, Mooson, to Hydrocarbon Research, Inc. Low-temperature gas absorption. 2,880,591, 4-7-59, Cl. 62-17.
- Kwiatek, Jack: *See*—  
Copenhaver, John W., and Kwiatek. 2,882,310.
- Kwiatek, Jack, to The M. W. Kellogg Co. Process for producing organophosphorus compounds. 2,882,303, 4-14-59, Cl. 260-543.
- Kwiatek, Jack, to The M. W. Kellogg Co. Production of organic phosphonyl halide. 2,882,308, 4-14-59, Cl. 260-543.
- Kwiatek, Jack, to The M. W. Kellogg Co. Production of organophosphorus compounds. 2,882,309, 4-14-59, Cl. 260-543.
- Kwiatek, Jack, to The M. W. Kellogg Co. Production of organic phosphonyl halide. 2,882,311, 4-14-59, Cl. 260-543.
- Kwiatek, Jack, to The M. W. Kellogg Co. Production of organophosphorus compounds. 2,882,312, 4-14-59, Cl. 260-543.
- Kwiatek, Jack, and J. W. Copenhaver, to The M. W. Kellogg Co. Production of organic phosphonyl halides. 2,882,313, 4-14-59, Cl. 260-543.
- Kwik-Kold of America, Inc.: *See*—  
Robbins, Albert A. 2,882,691.  
Robbins, Albert A. 2,898,744.  
Robbins, Albert A. 2,907,173.  
Robbins, Albert A. 2,916,886.



- Kwik Lok Corp.: *See*—  
Paxton, Floyd G., and Baer. 2,907,586.
- Kwiknirk, Inc.: *See*—  
Boekeloo, Merrill E., Hoffman, and Patterson. 2,884,858.
- Kwik-Set Expansion Co.: *See*—  
Maynard, Samuel J. 2,900,863.
- Kwitek, Edwin M., to Paper Converting Machine Co., Inc. Web cutting apparatus. 2,870,840, 1-27-59, Cl. 164-68.
- Kwok, Chi T., to Cluett, Peabody & Co., Inc. Non-shrinking seam and method of making. 2,871,486, 2-3-59, Cl. 2-275.
- Kwolek, Joseph M.: *See*—  
Kwolek, Stephen S. 2,879,615.
- Kwolek, Stephen S., to J. M. Kwolek. Slide mount. 2,879,615, 3-31-59, Cl. 40-158.
- Kyhl, Robert L.: *See*—  
Lavoo, Norman T., and Kyhl. 2,867,696.
- Kyker, Glendon D.: *See*—  
McCoy, George, Inman, and Kyker. 2,914,573.
- Kyker, Glendon D., to Pennsalt Chemicals Corp. Fungicidal compositions and their use. 2,894,015, 7-7-59, Cl. 260-461.
- Kyle, Marguerite G., to Beverly Vogue Co. Petticoat construction. 2,887,688, 5-26-59, Cl. 2-211.
- Kyle, William D., Jr., to McGraw-Edison Co. Circuit interrupter. 2,870,289, 1-20-59, Cl. 200-97.
- Kyle, William F., Jr., to Ampex Corp. Magnetic tape apparatus. 2,911,162, 11-3-59, Cl. 242-55.12.
- LCN Closers, Inc.: *See*—  
Lasier, David R. 2,901,064.  
Flint, Russell C. 2,905,965.
- LKB-Produktor Fabriksaktiebolag: *See*—  
Alm, Rasmus S. 2,894,542.  
Sjöstrand, Fritiof, and Görtler. 2,875,669.  
Svensson, Harry S. 2,867,148.  
Svensson, Svante H. 2,883,900.
- L.O.F. Glass Fibers Co.: *See*—  
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Labino, Dominick. 2,885,299.  
Labino, Dominick. 2,868,684.  
Labino, Dominick. 2,883,296.  
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Labino, Dominick. 2,919,211.  
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Pim, Richard A., and Rees. 2,905,403.  
Rea, William F. 2,898,054.  
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- L and P Electric Co., Inc. The: *See*—  
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- Laager, Creston F.: *See*—  
Fawcett, Cecil C., and Laager. 2,880,572.  
Fawcett, Cecil C., Stott, and Laager. 2,903,849.
- Laager, Creston F. Single trigger for plural firing mechanisms. 2,902,788, 9-8-59, Cl. 42-69.
- Laakso, Leo H., to M. E. Abbott, trustee. Apparatus for investigating surface profiles. 2,914,938, 12-1-59, Cl. 73-105.
- Labaj, John J.: *See*—  
Cunningham, Claude J., and Labaj. 2,885,816.
- Labanowski, Jessie: *See*—  
Gabriel, Gustave O. 2,871,384.
- La Bard, Lillian S. Clip-on swivel mirror for eyeglasses. 2,917,970, 12-22-59, Cl. 88-41.
- La Barre, Floyd, Jr., and W. D. Nagle, to Curtiss-Wright Corp. Propeller shaft extender for propeller servicing. 2,913,817, 11-24-59, Cl. 29-263.
- Labarre, Maurice, to Specialties Alimentaires Bourguignonnes (S. A. B.). Apparatus for injection moulding of plastic material. 2,872,705, 2-10-59, Cl. 18-30.
- Labastie, Albert H.: *See*—  
Kalikow, Irving, and Labastie. 2,874,440.
- Labastie, Albert H., to General Electric Co. Liquid cooled dynamoelectric machine. 2,894,155, 7-7-59, Cl. 310-54.
- Labatt, John, Ltd.: *See*—  
Compton, John, and Geiger. 2,894,841.
- Labbe, Roy J. Coin dispensing machine. 2,881,774, 4-14-59, Cl. 133-2.
- La Beau, Russell F., to Sutter Products Co. Machine for automatically making sand cores. 2,905,988, 9-29-59, Cl. 22-10.
- La Belle, Donald J., to General Motors Corp. Leaf and air spring suspension. 2,874,956, 2-24-59, Cl. 267-18.
- La Belle, Donald J., to General Motors Corp. Mounting means. 2,902,240, 9-1-59, Cl. 248-201.
- Laberge, Jacques J. E.: *See*—  
Potvin, Roger J. A., Lavigne, and Laberge. 2,915,417.
- Labin, Edouard, to Societe Nouvelle de l'Outilage R.B.V. et de La Radio-Industrie. Electron tube. 2,913,620, 11-17-59, Cl. 315-12.
- Labino, Dominick, to L.O.F. Glass Fibers Co. Decorative acoustical materials. 2,868,684, 1-13-59, Cl. 154-45.9.
- Labino, Dominick, to L.O.F. Glass Fibers Co. Glass composition. 2,883,296, 4-21-59, Cl. 106-50.
- Labino, Dominick, to L.O.F. Glass Fibers Co. Method of producing fibers of different diameters simultaneously and of producing glass paper therefrom. 2,884,681, 5-5-59, Cl. 28-72.3.
- Labino, Dominick, to L.O.F. Glass Fibers Co. Method of stopping leaks in water systems using a composition comprising glass fibers and a phenol or melamine formaldehyde resin. 2,885,299, 5-5-59, Cl. 117-2.
- Labino, Dominick, to L.O.F. Glass Fibers Co. Pipe wrap material and method of producing the same. 2,904,453, 9-15-59, Cl. 117-126.
- Labino, Dominick, to L.O.F. Glass Fibers Co. Evaporator plate and method of producing the same. 2,919,211, 12-29-59, Cl. 117-126.
- Labino, Dominick, to L.O.F. Glass Fibers Co. Method for making glass paper. 2,919,221, 12-29-59, Cl. 162-156.
- Lablache-Combier, Michel J.: *See*—  
Bernad, Jacques J., Novion, and Lablache-Combier. 2,870,925.
- La Bombard, Emerson H.: *See*—  
Hudson, George A., La Bombard, and Swanson. 2,907,418.
- La Bombard, Leon E. Method and apparatus for folding trailing flaps. 2,883,917, 4-28-59, Cl. 93-49.
- La Bombard, Leon E., to The International Paper Box Machine Co. Folding and gluing apparatus. 2,899,873, 8-18-59, Cl. 93-52.
- La Bombard, Leon E. Apparatus and method for feeding sheets. 2,912,239, 11-10-59, Cl. 271-6.
- La Bombard, Leon E. Method and mechanism for squaring-up boxes. 2,915,950, 12-8-59, Cl. 93-36.
- Labombarde, Raymond A. Folding apparatus for leading flaps. 2,879,699, 3-31-59, Cl. 93-49.
- Labombarde, Raymond A. Apparatus for folding box blanks. 2,883,916, 4-28-59, Cl. 93-49.
- Labombarde, Raymond A. Multi-faced folding guide. 2,896,517, 7-28-59, Cl. 93-49.
- Labombarde, Raymond A. Flap folding apparatus and method. 2,899,872, 8-18-59, Cl. 93-49.
- La Bonia, Vincent, and J. W. Platt, to The Platt & Labonia Co. Combined shelf and hanger means and improved support therefor. 2,870,916, 1-27-59, Cl. 211-90.
- Laboratoires d'Electroniques et de Physique Appliquees: *See*—  
Desvignes, Francois. 2,870,520.
- Laboratoria Pharmaceutica Dr. C. Janssen M. W.: *See*—  
Janssen, Paul A. J. 2,882,271.
- Laboratoria Pharmaceutica Dr. C. Janssen, N.V.: *See*—  
Janssen, Paul A. J., and de Jongh. 2,894,033.
- Laboratory for Electronics, Inc.: *See*—  
Burrows, James L. 2,872,572.  
Ayres, Herbert F., and Wright. 2,886,803.  
Fuller, Harrison W., Woodsum, and Darou. 2,913,536.  
Gordon, Bernard M. 2,913,179.  
Husman, Paul A. 2,896,192.  
Kelner, Robert C., and Rubinstein. 2,872,663.  
Meyer, Maurice A. 2,902,218.  
Meyer, Maurice A. 2,909,656.  
Meyer, Maurice A., and Gordon. 2,910,237.  
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Rubinstein, Harvey, and Kelner. 2,883,648.  
Townsend, Ralph, and Ayres. 2,872,665.
- Laboratory Equipment Corp.: *See*—  
Bennet, Eugene L. 2,873,136.  
Bennet, Eugene L. 2,878,050.
- La Borde, Robert C., 5% to I. J. Kunik. Dispenser-container for articles of magnetic material. 2,888,136, 5-26-59, Cl. 206-66.
- La Bossier, Ralph H. Tuning device for a guitar type instrument. 2,914,982, 12-1-59, Cl. 84-312.
- Laboulais, Jean L., to Kennedy Van Saun Mfg. & Eng. Corp. Method and apparatus for preheating finely divided kiln charge with high temperature gases from the kiln. 2,883,173, 4-21-59, Cl. 263-32.
- La Bour, Harry E. Lubricated seal for centrifugal pump shafts. 2,910,313, 10-27-59, Cl. 286-8.
- Laboureur, Pierre, to Societe d'Etudes et d'Applications Biochimiques. Process of purifying and utilizing residual waters resulting from the manufacture of paper pulp prepared by the soda process. 2,897,148, 7-23-59, Cl. 210-11.
- La Branche, Harvey W., to Washington Steel Products, Inc. Packaging apparatus and method. 2,892,294, 6-30-59, Cl. 53-112.
- Labrie, Joseph C. Door hardware. 2,917,771, 12-22-59, Cl. 16-105.
- La Brosse & J. Dupont Reunis (Societe Anonyme): *See*—  
Martin, Jean P. P. 2,893,783.  
Martin, Jean P. P. 2,901,289.
- Labrozzi, Anthony F., and P. J. D'Orazio, to International Resistance Co. Packaging apparatus. 2,907,158, 10-6-59, Cl. 53-126.
- La Buff, Hugh P.: *See*—  
Evans, Lyle W., and La Buff. 2,873,189.
- Labus, Otto, to The Trane Co. Air diffusing device. 2,869,449, 1-20-59, Cl. 98-40.
- Labus, Otto A.: *See*—  
Bottorf, James D., and Labus. 2,913,227.
- Lacart, Rollin H., to Madden Brass Products Co. Hermetic port valve assembly for tapping fluid conduits. 2,875,777, 3-3-59, Cl. 137-318.
- Lace, Donald A., 1/2 to N. M. Esser. Electro-mechanical oscillating device. 2,910,599, 10-27-59, Cl. 310-39.
- Lacefield, Arlie G., and W. B. Sorenson. Engine cooling system. 2,905,158, 9-22-59, Cl. 123-41.1.
- Lacey, Eleanor E.: *See*—  
Harkness, Reed B., and Lacey. 2,870,906.
- Lacey, John S.: *See*—  
Robinson, Ralph O., Jr. 2,908,000.
- Lacey, Joseph S. Aquarium equipment. 2,877,898, 3-17-59, Cl. 210-169.



- Lacey, Richard N., to The Distillers Co. Ltd. Hydrogenation process. 2,867,663, 1-6-59, Cl. 260-593.
- Lacey, Richard N., to The Distillers Co. Ltd. Production of acid chlorides. 2,871,257, 1-27-59, Cl. 260-480.
- Lacey, Richard N., and H. Jowitt, to The Distillers Co. Ltd. Production of tertiary acetylenic alcohols. 2,904,596, 9-15-59, Cl. 260-638.
- Lach, Walter, and R. S. Zapf, to Western Electric Co., Inc. Grounding devices for electrical components. 2,895,120, 7-14-59, Cl. 333-249.
- La Chapelle, Albert L.: *See*—  
La Chapelle, Euclid I. 2,898,615.
- La Chapelle, Beatrice H.: *See*—  
La Chapelle, Euclid I. 2,898,615.
- La Chapelle, Euclid I., deceased; B. H. La Chapelle, executrix,  $\frac{1}{4}$  to A. L.,  $\frac{1}{4}$  to B. H., and  $\frac{1}{4}$  to R. E. La Chapelle. Method of drafting uppers on lasts. 2,898,615, 8-11-59, Cl. 12-145.
- La Chapelle, Rachel E.: *See*—  
La Chapelle, Euclid I. 2,898,615.
- Lachat, Paul J. Auxiliary runner for ice skates. 2,867,445,  $\frac{1}{4}$  to A. L.,  $\frac{1}{4}$  to B. H., and  $\frac{1}{4}$  to R. E. La Chapelle.
- Lachcik, Joseph S.: *See*—  
Baltus, George T., Wolpin, Smith, and Lachcik. 2,897,792.
- Lachiche, Julien, and A. Oriol, to Novacel. Method of producing an oriented reinforced artificial sponge. 2,902,720, 9-8-59, Cl. 18-48.
- Lachman, Leon, and W. L. Suydan, Jr., to Ciba Pharmaceutical Products, Inc. Method for preparing tablet granulations. 2,877,159, 3-10-59, Cl. 167-82.
- Lachmann, Alfred, to The American Sugar Refining Co. Brown sugar. 2,910,386, 10-27-59, Cl. 127-30.
- Lachmann, Alfred, to The American Sugar Refining Co. Brown sugar. 2,910,387, 10-27-59, Cl. 127-30.
- Lachmann, Alfred, to The American Sugar Refining Co. Brown sugar in powdered form. 2,910,389, 10-27-59, Cl. 127-33.
- Lachmann, Alfred, and F. Bush, to The American Sugar Refining Co. Brown sugar. 2,910,388, 10-27-59, Cl. 127-30.
- Lackey, Alan D., to T. S. Skillman and Co. Pty. Ltd. Coin-operated vending machines. 2,895,583, 7-21-59, Cl. 194-10.
- Lackey, Marion D., to Unit Rig & Equipment Co. Two-engine compound. 2,910,889, 11-3-59, Cl. 74-665.
- Lackey, Robert S., and J. E. Houtz, to Westinghouse Electric Corp. Temperature compensated damped rate gyro. 2,887,885, 5-26-59, Cl. 74-5.
- Lackey, Robert S., and C. C. Glover, to Westinghouse Electric Corp. Gyroscopic apparatus. 2,916,917, 12-15-59, Cl. 74-54.
- Lackinger, Frank P. Rollers for hollow legged furniture. 2,877,489, 3-17-59, Cl. 16-44.
- Lackner, Erich. Load carrying structure. 2,917,901, 12-22-59, Cl. 61-64.
- Lackner, Robert V., and N. W. Dingman, to Penn Induction Co. Induction heating of metal strip. 2,902,572, 9-1-59, Cl. 219-1041.
- Lacks, Hyman, and M. Lambert. Modified foam nozzle. 2,894,694, 7-14-59, Cl. 239-443.
- Laclede-Christy Co.: *See*—  
Weber, Herman W. 2,868,009.
- Lacock, Robert M.: *See*—  
Gottschalk, Warren E., and Lacock. 2,905,334.
- Lacoste, Francois. Door and window frame supporting structure. 2,881,813, 4-14-59, Cl. 144-288.
- La Coste, Lucien J. B., to La Coste & Romberg. Leveling means for gravity meters or the like. 2,899,826, 8-18-59, Cl. 73-382.
- La Coste & Romberg: *See*—  
La Coste, Lucien J. B. 2,899,826.
- Lacour, Roger: *See*—  
Blanchi, Serge, and Lacour. 2,887,721.
- Lacourciere, Wilfred J.: *See*—  
Godfrey, Wallace C., and Lacourciere. 2,914,230.
- Lacroix, Arthur J., Jr., to Raybestos-Manhattan, Inc. Liquid cooled hydraulically operated clutch. 2,909,258, 10-20-59, Cl. 192-113.
- Lacroix, Arthur J., Jr., to Raybestos-Manhattan, Inc. Liquid cooled hydraulically actuated clutch. 2,914,157, 11-24-59, Cl. 192-85.
- Lacroix, Jean P. Automatic reminder for car maintenance. 2,884,725, 5-5-59, Cl. 40-77.
- La Croix, Lawrence D., Jr.: *See*—  
Brehm, Allen E., Hamer, and La Croix. 2,897,069.
- Lacroix, Seraphin, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Pneumatic conveying method and system. 2,919,159, 12-29-59, Cl. 302-53.
- Lacy, Peter D., to Hewlett-Packard Co. Modulation method and system. 2,881,393, 4-7-59, Cl. 332-16.
- Ladd, George T., to Fairchild Engine and Airplane Co. Method of making bimetallic articles. 2,893,083, 7-7-59, Cl. 22-204.
- Ladd, John W. B., to Bard-Parker Co., Inc. Art of packaging and package constructions therefor. 2,890,792, 6-16-59, Cl. 206-65.
- Ladd, John W. B., and T. R. Arden, to Bard-Parker Co., Inc. Support means for a group of relatively small similarly shaped articles. 2,890,801, 6-16-59, Cl. 211-177.
- Ladd, William A., to Columbian Carbon Co. Method for preparing an electron microscope specimen. 2,903,589, 9-8-59, Cl. 250-65.
- Lade, Elmer V., to Multiscore Co., Inc. Panel grooving machine. 2,907,359, 10-6-59, Cl. 144-136.
- Ladell, Emil, to Allmanna Svenska Elektriska Aktiebolaget. Security means for water cooled stirring windings. 2,871,279, 1-27-59, Cl. 13-26.
- Ladenburg, Kurt, to International Salt Co., Inc. Salt tablets containing an ethylenediamine-tetracetic acid compound and process of producing the same. 2,868,653, 1-13-59, Cl. 99-143.
- Ladeuze, Maurice J. B., and P. Toni. Method for erasing inks and gelatine impressions on tracing and other papers. 2,881,101, 4-7-59, Cl. 134-6.
- Ladewig, Wilhelm: *See*—  
Lang, Kurt, Barthel, Ladewig, Hans, Reichelt, Klauss, and Schädlich. 2,916,771.
- Ladish Co.: *See*—  
Ferguson, Clyde A. 2,919,188.
- Kessler, Joseph S., and Ebert. 2,869,211.
- Ladner, Hilton B. Cargo handling assembly. 2,887,235, 5-19-59, Cl. 212-15.
- Laete, Edward J., to Wade Electric Products Co. Switch assembly. 2,880,284, 3-31-59, Cl. 200-16.
- Lafaye, Hilton J., to The Goodyear Tire & Rubber Co. Rim construction. 2,900,006, 8-18-59, Cl. 152-410.
- Lafaye, Hilton J., to The Goodyear Tire & Rubber Co. Tubeless tire rim valve. 2,917,098, 12-15-59, Cl. 152-427.
- La Fever, Clifford E., to United States of America, Army. Skirted ball joint seal for a firearm drum. 2,889,654, 6-9-59, Cl. 42-59.
- La Fever, Mortier W., 30% to N. C. Hale. Toy wagon steering and braking system. 2,913,250, 11-17-59, Cl. 280-87.01.
- Lafferty, James M., to General Electric Co. Ionization gauges and method of operation thereof. 2,884,550, 4-28-59, Cl. 313-7.
- Lafferty, James M., to General Electric Co. Gaseous discharge device. 2,887,614, 5-19-59, Cl. 315-36.
- Lafferty, James M., to General Electric Co. Cathode structure. 2,888,592, 5-26-59, Cl. 313-346.
- Lafferty, James M., to General Electric Co. Color television tube and method for color television. 2,888,603, 5-26-59, Cl. 315-14.
- Lafferty, John J.: *See*—  
Craig, Paul N., and Lafferty. 2,919,271.
- Laffoon, Carthrae M., and G. L. Moses, to Westinghouse Electric Corp. Innercooled turbine generators. 2,917,644, 12-15-59, Cl. 310-64.
- La Flame, Frank E., to General Motors Corp. Motor compressor unit. 2,905,372, 9-22-59, Cl. 230-58.
- La Fleur, James K.: *See*—  
Le May, Dan B., and La Fleur. 2,902,836.
- La Fleur, Kermit S., to Deering Milliken Research Corp. Chromium complexes of fluorocarboxylic acids. 2,904,571, 9-15-59, Cl. 260-438.
- Lafont, Jacques, to Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture. Preparation of potassium sulphate from calcium sulphate and potassium chloride. 2,882,128, 4-14-59, Cl. 23-121.
- Lafont, Jacques, to Societe d'Etudes Chimiques Pour l'Industrie et l'Agriculture. Process of manufacture of potassium sulphate. 2,906,603, 9-29-59, Cl. 23-121.
- La Forest, Louis Z., to McGraw-Edison Co. Record support and loading apparatus for sheet record machine. 2,912,295, 11-10-59, Cl. 346-138.
- La Forge, Louis H., Jr.: *See*—  
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- La Forge, Louis H., Jr., R. B. Neal, and R. N. Whitehurst, to The Board of Trustees of the Leland Stanford Jr. University. Method for making disc-loaded waveguides. 2,898,273, 8-4-59, Cl. 204-9.
- La Forte, Michael J., to Vaughan Mfg. Co. Can opener. 2,889,620, 6-9-59, Cl. 30-15.
- La Forte, Michael J., to Vaughan Mfg. Co. Wall type can opener. 2,912,752, 11-17-59, Cl. 30-64.
- La France, Cyrille H., to American Optical Co. Lens surfacing techniques. 2,886,923, 5-19-59, Cl. 51-185.
- La France, Donald S.: *See*—  
Hearne, George W., La France, and Finch. 2,887,498.
- Lafont, Jacques, to Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture. Separation of potassium and sodium ions from a mixture of sodium and potassium chlorides. 2,900,232, 8-18-59, Cl. 23-64.
- Lafumas, Paul, and J. Cerezat, to Societe des Usines Chimiques Rhone-Poulenc. Betaine ascorbate. 2,868,804, 1-13-59, Cl. 260-343.7.
- La Fuze, David L., to General Electric Co. Frequency multiplier. 2,892,141, 6-23-59, Cl. 321-7.
- Lagarias, John S., to Koppers Co., Inc. Apparatus for removing particles from fluid streams. 2,906,369, 9-29-59, Cl. 183-7.
- Lager, Edward J. Manufacture of burial vault lids. 2,873,504, 2-17-59, Cl. 25-130.
- Lagerling, Alf J. A. Pivotaly mounted safety windshield. 2,907,602, 10-6-59, Cl. 296-84.
- Lagerwey, Anton A. F., to Shell Development Co. Valve. 2,912,003, 11-10-59, Cl. 137-547.
- Lagodmos, Peter G. Ileostomy appliance. 2,906,266, 9-29-59, Cl. 128-283.
- La Grange, William A.: *See*—  
Kessler, Vernon R., and La Grange. 2,869,505.
- Lagucki, Edward B., to Shell Development Co. Electro-pneumatic tank switcher. 2,869,676, 1-20-59, Cl. 183-2.7.



- Lahey, Parker J., and G. R. O'Leary, to Standard Railway Equipment Mfg. Co. Coupler operating device. 2,876,912, 3-10-59, Cl. 213-166.
- Lahr, Alvin F.: *See*—
- Kanter, Jerome J., Lahr, and Havel. 2,911,710.
- Lahr, Peter W.: *See*—
- Seyfried, Arthur W., and Lahr. 2,891,745.
- Lahr, Sheldon M. Electric light fixture. 2,901,724, 8-25-59, Cl. 339-154.
- Lahiti, Arvo A., and D. N. MacDonald, to Consolidated Electrodynamics Corp. Digital to analog converting apparatus. 2,873,439, 2-10-59, Cl. 340-347.
- Lahiti, Arvo A., and G. D. Maxwell, to Consolidated Electrodynamics Corp. Tape transport control. 2,909,337, 10-20-59, Cl. 242-55.12.
- La Hue, Philip M., and E. E. Lewis, to Minneapolis-Honeywell Regulator Co. Gyroscopic apparatus servosystem. 2,887,636, 5-19-59, Cl. 318-28.
- Laiming, Harry J., to United States of America, Navy. Shaft positioning device. 2,899,830, 8-18-59, Cl. 74-10.29.
- Laiming, Harry J., to United States of America, Navy. Shaft positioning device. 2,900,828, 8-25-59, Cl. 74-10.29.
- Laine, Edward A., to Allegheny Ludlum Steel Corp. Apparatus for handling coils. 2,905,078, 9-22-59, Cl. 100-12.
- Laine, Edwin F., to United States of America, Atomic Energy Commission. Wide band regenerative frequency divider and multiplier. 2,913,670, 11-17-59, Cl. 331-43.
- Laine, Raymond. Dismountable sailing boat. 2,908,239, 10-13-59, Cl. 114-39.
- Laine, Thomas H. Fly swatter. 2,881,554, 4-14-59, Cl. 43-137.
- Laing, George F. Bicycle rack. 2,873,034, 2-10-59, Cl. 211-17.
- Laing, Gordon F., and H. H. Dooley. Emission excited light source. 2,910,593, 10-27-59, Cl. 250-77.
- Laing, Nikolaus: *See*—
- Rittershofer, Egon. 2,868,132.
- Lair, Julien J. B., to International Telephone and Telegraph Corp. Crystal semiconductor device. 2,878,399, 3-17-59, Cl. 307-88.5.
- L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude.: *See*—
- Bassot, André. 2,900,488.
- Etienne, Alfred. 2,900,799.
- Grenier, Maurice. 2,882,998.
- Grunberg, Jacques F. 2,918,802.
- Laprand, Raymond. 2,892,347.
- Maille, Jean. 2,884,236.
- Regnaud, Pierre, and Bogatenkoff. 2,897,343.
- Servigne, Marcel, Szarvasi, and Neuwy. 2,868,850.
- Soulary, Pierre, and Moignet. 2,889,480.
- Spire, Etienne. 2,871,008.
- Laird, Stanley M., to Union Carbide Corp. Discharge and mixing device. 2,907,501, 10-6-59, Cl. 222-485.
- Laisne, Eugene W. Interchangeable nose guards. 2,881,661, 4-14-59, Cl. 88-50.
- Lait, Raymond: *See*—
- Holmes, William R., Le Feuvre, Lait, and Wood. 2,914,382.
- Laitner Brush Co.: *See*—
- Laitner, Walter W. 2,907,060.
- Laitner, Walter W., to Laitner Brush Co. Fountain brush. 2,907,060, 10-6-59, Cl. 15-29.
- Laitur, Martin W., to L. A. Young Spring & Wire Corp. Cushion spring assemblies and spring elements thereof. 2,916,087, 12-8-59, Cl. 155-179.
- Lajoie, Joseph L., to The Patent and Licensing Corp. Bituminous coating compositions and articles coated therewith. 2,886,459, 5-12-59, Cl. 106-282.
- Laka Tool and Stamping Co.: *See*—
- Raszl, Larry. 2,907,302.
- Lake, Donald B., and S. E. Stephanou, to E. I. du Pont de Nemours and Co. Process of spray drying a solution of a monopersulfate and a boron compound. 2,886,412, 5-12-59, Cl. 23-114.
- Lake, Donald B., and S. E. Stephanou, to E. I. du Pont de Nemours and Co. Production of alkali metal monopersulfates. 2,886,534, 5-12-59, Cl. 252-186.
- Lake, Francis G., to American Cyanamid Co. Agitator shaft assembly. 2,867,997, 1-13-59, Cl. 64-1.
- Lake, James H., to Eli Lilly and Co. Capsule cleaning device. 2,918,691, 12-29-59, Cl. 15-308.
- Lake, Lawrence C. Refrigerator door. 2,891,834, 6-23-59, Cl. 312-307.
- Lake, Leslie T.: *See*—
- Wilkinson, Cyril F., Jenkins, Lake, and Radcliffe. 2,875,111.
- Lake, Robert E., to Whirlpool Corp. Washing machine. 2,904,983, 9-22-59, Cl. 68-22.
- Lake Erie Machinery Corp.: *See*—
- Hess, Relza J., and Swanson. 2,919,039.
- Hoffmann, Otto. 2,875,732.
- Hoffmann, Otto, and Swanson. 2,914,171.
- Swanson, Carl G. A. 2,867,321.
- Swanson, Carl G. A. 2,896,783.
- Lakeside Laboratories, Inc.: *See*—
- Biel, John H. 2,867,619.
- Biel, John H. 2,867,620.
- Biel, John H. 2,874,163.
- Biel, John H. 2,900,415.
- Biel, John H. 2,903,453.
- Biel, John H. 2,911,408.
- Biel, John H. 2,913,406.
- Biel, John H. 2,918,407.
- Biel, John H. 2,918,408.
- Lakins, Franklin D., and G. B. Lanphere, to Lipe-Rollway Corp. Stock bar feed apparatus. 2,906,003, 9-29-59, Cl. 29-93.
- Lako, Samuel. Fastener, grommet, etc., setting implement. 2,875,655, 3-3-59, Cl. 81-15.
- Lakso Co. Inc.: *See*—
- Lakso, Eino E., and Jones. 2,895,269.
- Lakso, Eino E. Method and apparatus for wadding containers. 2,895,273, 7-21-59, Cl. 53-24.
- Lakso, Eino E., and C. H. Jones, Jr., to The Lakso Co. Inc. Cottoning machine. 2,895,269, 7-21-59, Cl. 53-21.
- Laky, Elmer, and R. E. Walsh, to Breeze Corp., Inc. Winch overload limiting device. 2,908,853, 10-13-59, Cl. 318-475.
- Lal, Joginder, to H. D. Justl & Son, Inc. Polymerization of unsaturated compounds in the presence of bactericidal phenates of phenols and thiophenols. 2,873,263, 2-10-59, Cl. 260-45.4.
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- Lal, Joginder, to H. D. Justl & Son, Inc. Acrylate monomers and polymers of tetrahydropyran methyl alcohol. 2,877,208, 3-10-59, Cl. 260-45.5.
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- Lalesse, Herman C., to North American Philips Co., Inc. Dual needle phonograph pick-up. 2,868,893, 1-13-59, Cl. 179-100.41.
- Lalick, Michael J. All-purpose blanket. 2,870,464, 1-27-59, Cl. 5-334.
- La Lime, Theophile J.: *See*—
- Richard, Henry J. 2,870,523.
- L'Allemand, Charles C.: *See*—
- Atwood, Rawson, and L'Allemand. 2,881,987.
- Atwood, Rawson, and L'Allemand. 2,883,124.
- Lalli, John O.: *See*—
- Davies, Donald A., and Lalli. 2,884,829.
- Lalli, Romeo A. Clamping jaw. 2,889,865, 6-9-59, Cl. 153-48.
- Lalli, Romeo A. Stretch former with replaceable heated die and pivotally mounted draw bar. 2,905,225, 9-22-59, Cl. 153-32.
- Lallier, Wendel. Hand hook. 2,905,499, 9-22-59, Cl. 294-26.
- Lally, Philip M., to Sperry Rand Corp. Travelling wave oscillator. 2,878,412, 3-17-59, Cl. 315-3.5.
- L'Aluminium Français: *See*—
- Béchu, Xavier. 2,868,759.
- La Maida, Thomas. Graduation cap. 2,899,682, 8-18-59, Cl. 2-195.
- Lamaigre-Voreaux, Pierre, to Claude Paz et Visseaux. Cold and hollow electrode. 2,913,298, 11-17-59, Cl. 316-26.
- Lamar, Charles C., to Harper-Wyman Co. Combined shutoff and safety control valve for burners. 2,886,050, 5-12-59, Cl. 137-66.
- Lamar, Charles C., to Harper-Wyman Co. Gas valves. 2,909,217, 10-20-59, Cl. 158-105.
- La Maur Inc.: *See*—
- Spiegel, Maurice L. 2,871,161.
- Lamb, Anthony H., and E. R. Kebbon, to Daystrom, Inc. Apparatus for comparing the moisture transmission characteristics of materials. 2,904,996, 9-22-59, Cl. 73-73.
- Lamb, Arthur B.: *See*—
- Richter, George A., and Lamb. 2,893,754.
- Lamb, Douglas J.: *See*—
- Carter, Ralph H., Kingsbury, and Lamb. 2,900,783.
- Lamb, Edward W., and M. E. McGowan. Swim flipper. 2,889,563, 6-9-59, Cl. 9-21.
- Lamb, Everette. Electrical line clamp. 2,898,573, 8-4-59, Cl. 339-246.
- Lamb, F. Joseph, Co.: *See*—
- Kay, John G. 2,873,020.
- Kay, John G. 2,893,535.
- Kay, John G., and Oppenhauser. 2,885,969.
- Kay, John G., and Rye. 2,873,019.
- Lamb, Francis X., to Daystrom, Inc. Electrical instrument. 2,875,410, 2-24-59, Cl. 324-150.
- Lamb, Francis X., to Daystrom, Inc. Electrical instrument with a drum indicating dial. 2,875,411, 2-24-59, Cl. 324-151.
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- Lamb, Francis X., to Daystrom, Inc. Instrument case. 2,901,705, 8-25-59, Cl. 324-156.
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- Lamb, Frank G. Upright refrigerator showcase. 2,890,573, 6-16-59, Cl. 62-256.
- Lamb, George E., to Lamb-Grays Harbor Co., Inc. Tail splitter. 2,900,025, 8-18-59, Cl. 164-65.
- Lamb, George E., and H. I. Rogge, to Ovalstrapping Inc. Apparatus for suspending and feeding wire-tying machines. 2,876,959, 3-10-59, Cl. 242-54.
- Lamb, Glentworth: *See*—
- Hardy, Elizabeth M., Hosler, and Lamb. 2,879,198.
- Hardy, William B., Hosler, and Lamb. 2,877,258.
- Lamb, Glentworth, to American Cyanamid Co. Dodecylguanidine salts as fruit tree fungicides. 2,867,562, 1-6-59, Cl. 167-22.
- Lamb, Glentworth, and E. L. Clark, to American Cyanamid Co. Pesticidal compositions. 2,882,196, 4-14-59, Cl. 167-22.
- Lamb-Grays Harbor Co., Inc.: *See*—
- Lamb, George E. 2,900,025.
- Lamb, Harold W., to Crossley Machine Co., Inc. Feed control for machine tools. 2,916,017, 12-8-59, Cl. 121-45.
- Lamb, Kay R. Ladies' zipper puller. 2,887,751, 5-26-59, Cl. 24-203.15.
- Lamb, Jefferson P., to Dresser Industries, Inc. Earth bore-hole investigation system. 2,879,648, 3-24-59, Cl. 324-1.
- Lamb, John, to John Lamb Publications and Inventions Ltd. Combined starting and relief valves for internal combustion engines. 2,911,999, 11-10-59, Cl. 137-506.
- Lamb, John, Publications and Inventions Ltd.: *See*—
- Lamb, John. 2,911,999.
- Lamb, Robert L., to The Coca-Cola Co. Coin operated multi-product dispensing apparatus. 2,913,087, 11-17-59, Cl. 194-13.
- Lamb, Vassar G., and J. E. Kirk. Slug detecting and rejecting apparatus for telephone pay stations and other coin-operated devices. 2,891,112, 6-16-59, Cl. 179-6.3.
- Lamb, William A. S., to United States of America, Atomic Energy Commission. Ion source. 2,901,628, 8-25-59, Cl. 250-49.5.
- Lambach, Frederick A. Push-button fishing bobber. 2,867,936, 1-13-59, Cl. 43-44.95.
- Lambe, Harry W.: *See*—
- Banus, Mario D., Winiarczyk, and Lambe. 2,898,195.
- Lambeck, Adriaan J. J., to North American Philips Co., Inc. Bearing. 2,886,380, 5-12-59, Cl. 308-72.
- Lamberson, Jack L., Jr., to Jersey Production Research Co. Packer. 2,868,297, 1-13-59, Cl. 166-121.
- Lambert, Apard L. Car unloading device. 2,872,055, 2-3-59, Cl. 214-44.
- Lambert, Arnold L. Trail cart. 2,918,299, 12-22-59, Cl. 280-47.26.
- Lambert, Arthur: *See*—
- Batty, John W., Lambert, Scott, and Seed. 2,913,481.
- Lambert, Arthur, and B. N. Leyland, to Imperial Chemical Industries Ltd. New diarylmethane derivatives, their manufacture and application. 2,903,493, 9-8-59, Cl. 260-810.
- Lambert Brake Corp.: *See*—
- Dasse, Lester F., and Griswold. 2,916,105.
- Ferrell, William G., and Zindler. 2,910,148.
- Hahn, Emil H. 2,874,807.
- Hahn, Emil H. 2,878,900.
- Ishoy, Albert D., and Tiscornia. 2,883,009.
- Kershner, Osborn A., and Ishoy. 2,883,019.
- Lucker, Millard B. 2,883,008.
- Lucker, Millard B., and Zindler. 2,889,894.
- Parrett, Dent. 2,876,881.
- Lambert, Cecil A., and G. L. Webb, to Essex Wire Corp. Electromagnetic relay. 2,892,053, 6-23-59, Cl. 200-87.
- Lambert, Daryl G. Adjustable screen printing frame. 2,894,455, 7-14-59, Cl. 101-415.1.
- Lambert, Donald R., to Powers-Samas Accounting Machines Ltd. Paper-feeding mechanism. 2,873,116, 2-10-59, Cl. 271-24.
- Lambert, Donald R., to Powers-Samas Accounting Machines Ltd. Printing machines. 2,895,410, 7-21-59, Cl. 101-93.
- Lambert Engineering Co.: *See*—
- Wells, Willis L. 2,886,953.
- Lambert, Harry E., to Central Fibre Products Co. Egg packing flats. 2,872,062, 2-3-59, Cl. 217-26.5.
- Lambert, Harry L., to Royal McBee Corp. Separable cartridge for an inked printing ribbon. 2,873,014, 2-10-59, Cl. 197-151.
- Lambert, Harry L., to Royal McBee Corp. Type bar rebound check mechanisms. 2,889,025, 6-2-59, Cl. 197-17.
- Lambert, Harry L., to Royal McBee Corp. Perforated record reader and feed mechanism. 2,900,130, 8-18-59, Cl. 235-61.11.
- Lambert, Harry E., to Central Fibre Products Co. Pulp-molding dies. 2,903,062, 8-8-59, Cl. 162-411.
- Lambert, Harry L., to Royal McBee Corp. Carriage drive means for business machines. 2,917,151, 12-15-59, Cl. 197-62.
- Lambert, Harry L., and P. F. Page, to Royal McBee Corp. Anti-jamming device for typewriter type bars. 2,880,837, 4-7-59, Cl. 197-17.
- Lambert, Harry L., P. F. Page, and A. G. Snyder, to Royal McBee Corp. Automatic apparatus for operating business machines. 2,894,614, 7-14-59, Cl. 197-20.
- Lambert, Henri J. M., and G. P. Mongin. Wall cabinet. 2,873,161, 2-10-59, Cl. 312-292.
- Lambert, John T. Dispensing receptacles. 2,881,955, 4-14-59, Cl. 222-181.
- Lambert, Kermit N.: *See*—
- Ness, Odvar A., and Lambert. 2,869,052.
- Lambert, Milton: *See*—
- Lacks, Hyman, and Lambert. 2,894,694.
- Lambert, Ralph D. Recoil selector mechanism for firearms. 2,873,651, 2-17-59, Cl. 89-198.
- Lambert, Ray. Interference degenerators. 2,884,520, 4-28-59, Cl. 250-20.
- Lambert, Robert D.: *See*—
- Zieg, Clifford V., Lee, and Lambert. 2,918,878.
- Lambert, Robert D., to Halvorsen Products Mfg. Co. Actuating mechanism for collating machine. 2,873,966, 2-17-59, Cl. 270-58.
- Lambert, Roger-Emile: *See*—
- Chan, Andre D. H., and Lambert. 2,910,807.
- Lambert, S., A.G.: *See*—
- Freudiger, Ernst. 2,891,450.
- Lambert, Ulysses L., 1/10 to Gadget-Of-The-Month Club, Inc. Stamp application machine. 2,899,094, 8-11-59, Cl. 216-25.
- Lamberti, Vincent, to Lever Brothers Co. Process of preparing  $\beta,\beta,\beta$ -tris (hydroxymethyl) methyl amides. 2,877,245, 3-10-59, Cl. 260-404.
- Lamberton, Clifford J., to General Electric Co. Machine wound magnetic core. 2,909,742, 10-20-59, Cl. 336-212.
- Lamberton, Clifford J., E. F. Christensen, and D. Keating, to General Electric Co. Three winding transformer. 2,878,455, 3-17-59, Cl. 336-183.
- Lamberton, Jean, and H. de Lacheisserie, to Societe d'Electrochimie d'Electro-Metallurgie et des Acieries d'Ugine. Method of separating isotopes. 2,873,237, 2-10-59, Cl. 204-125.
- Lamberton, Robert W. Cleaning device. 2,900,653, 8-25-59, Cl. 15-164.
- Lambertsen, Christian J. Breathing apparatus. 2,871,854, 2-3-59, Cl. 128-142.
- Lambrech, Joseph A., W. H. Hensley, R. E. Kent, and J. E. Lynch, to Chas. Pfizer & Co., Inc. Thioamine antelmintic agents. 2,902,402, 9-1-59, Cl. 167-53.
- Lambrech, Joseph A., to Union Carbide Corp.  $\alpha$ -naphthol bicyclic aryl esters of N-substituted carbamic acids. 2,903,478, 9-8-59, Cl. 260-479.
- Lambton, Charles W. Mixing device for delivering liquid mixtures or solutions. 2,907,528, 10-6-59, Cl. 239-315.
- Lamburn, Alan S., to Smiths America Corp. Valves for the control of fluid flow. 2,911,010, 11-3-59, Cl. 137-629.
- Lamerson, Ulden D., to Allied Steel and Conveyors, Division of The Sparks-Withington Co. Method and apparatus for inflating a tubeless tire and seating the beads. 2,910,117, 10-27-59, Cl. 157-1.1.
- Lamkin, John C.: *See*—
- Sorg, Leonard V., and Lamkin. 2,877,714.
- Sorg, Leonard V., and Lamkin. 2,895,807.
- Lamkin, Richard C.: *See*—
- Engel, J. Anthony, and Lamkin. 2,875,526.
- Lamm, Lewis J., to General Motors Corp. Apparatus for spray painting. 2,894,175, 7-7-59, Cl. 317-3.
- Lamm, William R. Cigarette. 2,890,704, 6-16-59, Cl. 131-15.
- Lamme, Ruth B. Frame for use in making hooked rugs. 2,879,621, 3-31-59, Cl. 45-24.
- Lamme, Ruth B. Apparatus for use in making hooked rugs or the like. 2,884,737, 5-5-59, Cl. 45-24.
- Lammers, Delmar R.: *See*—
- Johnson, Harold R., and Lammers. 2,882,103.
- Lammerz, Ernst, to Aktiengesellschaft fur Unternehmungen der Eisenund Stahlindustrie. Hydraulic power transmission. 2,881,641, 4-14-59, Cl. 74-730.
- Lammerz, Ernst, to Aktiengesellschaft fur Unternehmungen der Eisen- und Stahlindustrie. Reversible drive system. 2,898,774, 8-11-59, Cl. 74-377.
- Lammler, Georg: *See*—
- Ruschig, Heinrich, Siedel, Leditschke, Schorr, Schmidt-Barbo, and Lammler. 2,875,205.
- Lamon, David E.: *See*—
- Wendshuh, Herbert L., and Lamon. 2,877,013.
- La Monaca, Hugh L. Vine lifting attachment. 2,917,119, 12-15-59, Cl. 172-691.
- La Monica, Frank, to The United Tool & Die Co. Tracer controlled hydraulic valve. 2,880,958, 4-7-59, Cl. 251-3.
- Lamont, Adam S., to General Motors Corp. Variable speed mechanism. 2,895,575, 7-21-59, Cl. 192-3.2.
- Lamont, John, to Western Electric Co., Inc. Impedance measuring system. 2,874,351, 2-17-59, Cl. 324-57.
- La Mont Steam Generators, Inc.: *See*—
- Stabenow, Georg. 2,907,306.
- Lamouredieu, Marcel: *See*—
- Stone, Morris D., Greenberger, and Lamouredieu. 2,887,422.
- Lamoureux, Gilbert J., to Western Electric Co., Inc. Article-working apparatus. 2,877,496, 3-17-59, Cl. 18-19.
- Lamoureux, Jean A.: *See*—
- Hiskey, Clarence F., and Lamoureux. 2,889,218.
- Lamouria, Lloyd H.: *See*—
- Abernathy, George H., and Lamouria. 2,869,284.
- Lamouria, Lloyd H., to Regents of The University of California. Grape harvester. 2,893,194, 7-7-59, Cl. 56-331.
- Lampard, Edward D. Rack for forming, smoking and cutting of sausages, such as "frankfurters" and the like. 2,874,403, 2-24-59, Cl. 17-34.



- Lampe, Frederick W.: *See*—  
Bown, Delos E., and Lampe. 2,913,445.
- Lampe, Friedrich W., to Lapeer Mfg. Co. Lever unlocking means in toggle action clamping devices. 2,894,547, 7-14-59, Cl. 144-302.
- Lampe, Friedrich W., to Lapeer Mfg. Co. Clamp with pre-determined clamping force indicating means. 2,899,995, 8-18-59, Cl. 144-302.
- Lampe, Robert C., to Electrolux Corp. Multiple purpose cleaning tool. 2,885,717, 5-12-59, Cl. 15-417.
- Lampert, J. Oliver, A. F. Langlykke, and H. Yacowitz, to Olin Mathieson Chemical Corp. Animal growth stimulation compositions. 2,903,356, 9-8-59, Cl. 99-2.
- Lampert, Bernard B.: *See*—  
Haynes, Harry L., Sousa, and Lampert. 2,872,367.
- Lampert, Bernard B., and J. E. Meili, to Union Carbide Corp. Production of 9,9'-bifluorylidene. 2,905,728, 9-22-59, Cl. 260-668.
- Lampert, Bernard B., J. V. Murray, Jr., and D. W. Peck, to Union Carbide Corp. Separation of aromatic hydrocarbons from aliphatic hydrocarbons using ketodioxane. 2,910,518, 10-27-59, Cl. 260-674.
- Lampert, Murray A.: *See*—  
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- Lamph, Ara N.: *See*—  
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- Lamphier, Walter C.: *See*—  
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- Lampkin, Omar F. Anti-spill liquid container. 2,884,157, 4-28-59, Cl. 220-41.
- Lampman, George W.: *See*—  
Sampson, Lawrence R., and Lampman. 2,904,769.
- Lampman, George W., C. B. Leach, and L. R. Vivian, Jr., to General Motors Corp. Leaf spring assembly. 2,873,962, 2-17-59, Cl. 267-49.
- Lamport, Marvin: *See*—  
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- Lamprecht, Glenn W.: *See*—  
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- Lamprecht, Rudolf: *See*—  
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- Lamps, William, and J. L. Terranova; said Terranova, assor. to said Lamps. Hypdermic needle cleaning and drying apparatus. 2,872,931, 2-10-59, Cl. 134-99.
- La Nationale S.A.: *See*—  
Zellweger, Conrad. 2,882,940.
- Zellweger, Conrad. 2,895,318.
- Zellweger, Conrad. 2,895,633.
- Lancaster, Arthur M., and J. L. Hollis, to The Firestone Tire & Rubber Co. Method of tire manufacture. 2,879,828, 3-31-59, Cl. 154-9.
- Lancaster, Arthur W., to Williams & Wilson Ltd. Wrapping paper supply means. 2,893,189, 7-7-59, Cl. 53-198.
- Lancaster, Arthur W., to Williams & Wilson Ltd. Roll wrapping. 2,893,190, 7-7-59, Cl. 53-380.
- Lancaster, Arthur W., to Williams & Wilson Ltd. Cutting and gluing means for paper strip. 2,893,191, 7-7-59, Cl. 53-380.
- Lance, Orville P.: *See*—  
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- Lancer, Thomas: *See*—  
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- Lanciani, Daniel A., to Microwave Associates, Inc. Transition for waveguide. 2,894,218, 7-7-59, Cl. 333-21.
- Lanciani, Daniel A., to Microwave Associates, Inc. Waveguide bend. 2,899,651, 8-11-59, Cl. 333-21.
- Lanciano, Claude O., Jr. Trapped air life preserver. 2,905,954, 9-29-59, Cl. 9-20.
- Lancucki, Marian A., and J. W. Strange, to Thorn Electrical Industries Ltd. Instrument dial illuminator. 2,891,141, 6-16-59, Cl. 240-8.16.
- Lancy, Leslie E. Electrotreating apparatus and process. 2,887,447, 5-19-59, Cl. 204-198.
- Land-Air, Inc.: *See*—  
Apa, Frank E., and Torrible. 2,881,377.
- Hammer, Warren H., and Loomer. 2,906,584.
- Reed, Earl V., and Vahev. 2,883,554.
- Werndl, Ernst F. 2,892,990.
- Land, Charles W. Vacuum operated passenger safety device for vehicle dash. 2,902,292, 9-1-59, Cl. 280-150.
- Land, Chester B., to F-R Machine Works, Inc. X-ray tilt table. 2,888,567, 5-26-59, Cl. 250-58.
- Land, Chester B., to F-R Machine Works, Inc. X-ray cone assembly. 2,911,537, 11-3-59, Cl. 250-105.
- Land, Edwin H., to Polaroid Corp. Photographic apparatus. 2,873,658, 2-17-59, Cl. 95-13.
- Land, Edwin H., to Polaroid Corp. Process of washing and protecting photographic silver images. 2,874,045, 2-17-59, Cl. 96-29.
- Land, Edwin H., to Polaroid Corp. Photographic apparatus and product useful therein. 2,903,951, 9-15-59, Cl. 95-19.
- Land, Edwin H., and V. K. Eloranta, to Polaroid Corp. Photographic device for treating photographic prints with a liquid. 2,873,660, 2-17-59, Cl. 95-89.
- Land, Edwin H., V. K. Eloranta, and M. N. Fairbank, to Polaroid Corp. Photographic apparatus. 2,880,658, 4-7-59, Cl. 95-13.
- Land, Edwin H., and V. K. Eloranta, to Polaroid Corp. Photographic apparatus. 2,880,659, 4-7-59, Cl. 95-13.
- Land, Edwin H., and V. K. Eloranta, to Polaroid Corp. Photographic product and apparatus. 2,880,660, 4-7-59, Cl. 95-13.
- Land, Edwin H., and W. J. McCune, Jr., to Polaroid Corp. Photographic product including means containing a processing liquid. 2,898,208, 8-4-59, Cl. 96-76.
- Land, Elvin S. Garment holder. 2,913,792, 11-24-59, Cl. 24-137.
- Landa, Arthur J.: *See*—  
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- Catlin, Robert T., and Landa. 2,873,447.
- Landam Products Corp.: *See*—  
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- Landau, Ralph: *See*—  
Saffer, Alfred, and Landau. 2,909,575.
- Landells, George: *See*—  
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- Landemann, Bertram M.: *See*—  
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- Lander, Denis E. R. Antennas. 2,871,478, 1-27-59, Cl. 343-857.
- Lander, James G., to Diamond Alkali Co. Adhesive compositions. 2,870,033, 1-20-59, Cl. 106-82.
- Landers, Leo A.: *See*—  
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- Landers, Harry M.: *See*—  
East, William J., and Landers. 2,877,419.
- Landers, Harry M., to United States of America, Army. Electrical switch construction. 2,883,492, 4-21-59, Cl. 200-142.
- Landers, Harvey S. Pressure roller for pellet mill. 2,875,709, 3-3-59, Cl. 107-14.
- Landers, James E., and J. D. Sudbury, to Continental Oil Co. Method and apparatus for cathodic protection of wells. 2,875,142, 2-24-59, Cl. 204-147.
- Landes, John T.: *See*—  
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- Landesman, Eugene. Screen printing machine. 2,894,451, 7-14-59, Cl. 101-126.
- Landgraf, David C. Grass root planter. 2,889,959, 6-9-59, Cl. 221-42.
- Landgraf, Fred: *See*—  
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- Landgren, Lowell V. Motion transmitting mechanism. 2,883,878, 4-28-59, Cl. 74-496.
- Landis, Elmer K.: *See*—  
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- Landis, George G., to The Lincoln Electric Co. Electrode holder. 2,873,357, 2-10-59, Cl. 219-138.
- Landis, George G., to The Lincoln Electric Co. Means and method for deep flux arc welding. 2,909,642, 10-20-59, Cl. 219-73.
- Landis, George G., and J. E. Carroll, to The Lincoln Electric Co. Metallic vapor shielded electric arc welding. 2,909,648, 10-20-59, Cl. 219-137.
- Landis, George G., K. L. Brown, and W. G. Mosgrove, to The Lincoln Electric Co. Out-of-position arc welding. 2,909,649, 10-20-59, Cl. 219-137.
- Landis, George G., and D. M. Patton, to The Lincoln Electric Co. Method and means for bare electrode welding of alloy steels. 2,909,650, 10-20-59, Cl. 219-146.
- Landis, George G., and D. M. Patton, to The Lincoln Electric Co. Method and means for bare electrode welding. 2,909,778, 10-20-59, Cl. 219-146.
- Landis & Gyr A. G.: *See*—  
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- Bollmann, Karl. 2,889,111.
- Galavies, Franz. 2,905,388.
- Schmid, Hans, and Hürlimann. 2,901,643.
- Tschappu, Fred. 2,919,405.
- Tschappu, Fred. 2,919,406.
- Winet, Hans. 2,901,212.
- Landis, Harold E., and J. D. Receptacle supporting stand. 2,903,221, 9-8-59, Cl. 248-154.
- Landis, Jesse A. Glare shield. 2,871,482, 2-3-59, Cl. 2-12.
- Landis, John D.: *See*—  
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- Landis Machine Co.: *See*—  
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- Hübl, Johann. 2,870,663.
- Hübl, Johann. 2,871,736.
- Moeltzner, Ernst F. W. 2,873,634.
- Moeltzner, Ernst F. W. 2,886,836.
- Moeltzner, Ernst F. W. 2,909,952.
- Omwake, Warren S. 2,891,534.
- Landis, Peter H. Athletic tackling bags and the like. 2,913,245, 11-17-59, Cl. 273-55.
- Landis, Stanley L. Electrically operated saw mill set works of the ratchet type. 2,899,990, 8-18-59, Cl. 143-120.
- Landis Tool Co.: *See*—  
Balsiger, Harold E. 2,874,518.
- Balsiger, Harold E., and Jones. 2,867,058.
- Bricker, Robert E., Flohr, and Gebel. 2,899,778.
- Hollengreen, Milburn A. 2,909,013.
- Lehman, Lester H. 2,884,747.
- Landis, William C. to Westinghouse Air Brake Co. Conversion brake cylinder. 2,880,043, 3-31-59, Cl. 309-3.
- Lando, Ellis A., and K. A. Klentz, to Lando Products, Inc. Venetian blind construction. 2,884,052, 4-28-59, Cl. 160-168.
- Lando Products, Inc.: *See*—  
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- Landqvist, Nils D.: *See*—  
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- Landregan, Robert J.: *See*—  
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- Landreth, Herschel J. Pipe cutter. 2,877,549, 3-17-59, Cl. 30-99.
- Landrey, Leo R.: *See*—  
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- Landrey, Leo R., to Burroughs Corp. Matrix glow tube indicator. 2,876,385, 3-3-59, Cl. 315-169.
- Landrey, Leo R., to Burroughs Corp. Indicator tube of the glow lamp type. 2,898,500, 8-4-59, Cl. 313-109.5.
- Landrigan, Richard B., D. L. Fauser, and R. E. Tom, to Haloid Xerox Inc. Electrophotographic developing process. 2,872,338, 2-3-59, Cl. 117-17.5.
- Landrum, Billy F.: *See*—  
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- Herbst, Ralph L., Jr., and Landrum. 2,888,446.
- Landrum, Billy F., and R. L. Herbst, Jr., to Minnesota Mining and Mfg. Co. Graft copolymer of unsaturated monomer and copolymer of fluorinated olefin and maleic acid and process of preparing same. 2,867,601, 1-6-59, Cl. 260-45.5.
- Landrum, Billy F., and R. L. Herbst, Jr., to Minnesota Mining and Mfg. Co. Copolymers of fluorine containing olefins and maleic acid and process of preparing same. 2,867,608, 1-6-59, Cl. 260-77.5.
- Landrum, Billy F., K.-H. Kahrs, H. Kuhn, and R. Schaff, to Minnesota Mining and Mfg. Co. Purification of fluorine containing olefin monomers. 2,909,571, 10-20-59, Cl. 260-653.5.
- Landrum, Porter. Vacuum responsive throttle control for internal combustion engines. 2,897,806, 8-4-59, Cl. 123-103.
- Landrum, Porter. Throttle control for internal combustion engines. 2,897,807, 8-4-59, Cl. 123-103.
- Landry, Henry J. Folding play-yard. 2,883,679, 4-28-59, Cl. 5-99.
- Landry, Henry J. Latch construction. 2,883,698, 4-28-59, Cl. 16-144.
- Landry, Henry J. Convertible folding play-yard. 2,896,224, 7-28-59, Cl. 5-99.
- Landry, William J., to J. C. Hockery, as trustee. Can opener latch and cutter assembly. 2,893,117, 7-7-59, Cl. 30-99.
- Landus, Warren J. Window seat. 2,868,592, 1-13-59, Cl. 304-24.
- Landuyt, John F., and R. T. Simmons, to General Electric Co. Control device. 2,883,599, 4-21-59, Cl. 318-471.
- Landwerlen, Richard G., and H. W. Vahiteich, to Corn Products Co. Wax polish. 2,909,437, 10-20-59, Cl. 106-10.
- Landwier, William G., to The Murray Corp. of America. Washing machines. 2,867,105, 1-6-59, Cl. 68-23.
- Lane, Arthur W.: *See*—  
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- Lane Container Co.: *See*—  
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- Lane, Dan R., to Lane Container Co. Packaging with corner saddle means. 2,896,832, 7-28-59, Cl. 229-14.
- Lane, Donald A.: *See*—  
Yarrison, Walter W., Meyer, and Lane. 2,912,717.
- Lane, Donald B. Bleeder valves. 2,893,683, 7-7-59, Cl. 251-180.
- Lane, Donald R.: *See*—  
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- Lane, Earl W.: *See*—  
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- Lane, Earl W., and G. L. Brown, to Rohm & Haas Co. Alkylphenoxypolyethoxyalkanols. 2,903,485, 9-8-59, Cl. 260-613.
- Lane, Edward J. H.: *See*—  
Gott, Richard F., and Lane. 2,883,930.
- Lane, Floyd: *See*—  
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- Lane, James A., R. E. Engberg, and J. M. Welch, to United States of America, Atomic Energy Commission. Reactor control mechanism. 2,885,893, 5-12-59, Cl. 74-2.
- Lane, John H.: *See*—  
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- Chen, Tung C., and Lane. 2,918,661.
- Lane, John H., to Burroughs Corp. Non-destructive core read-out. 2,874,374, 2-17-59, Cl. 340-174.
- Lane, John J.: *See*—  
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- Lane, John J., to The Guiberson Corp. Well spider. 2,890,513, 6-16-59, Cl. 24-263.
- Lane, John R., to United States Steel Corp. Device for marking traveling strip. 2,913,978, 11-24-59, Cl. 101-4.
- Lane, Lloyd H.: *See*—  
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- Lane, Malcolm S.: *See*—  
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- Lane, Richard O., to M & M Research and Development Co. Artificial abrasive articles. 2,877,103, 3-10-59, Cl. 51-298.
- Lane, Robert S.: *See*—  
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- Lane, Thomas G., Jr.: *See*—  
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- Lane-Wells Co.: *See*—  
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- Lane, William B. Method and apparatus for controlling refractory lined furnace temperatures. 2,874,303, 2-17-59, Cl. 250-83.
- Lane, William N., to General Binding Corp. Plastic binding element. 2,910,068, 10-27-59, Cl. 129-1.
- LANEY, Willis G., to Bestile Mfg. Co. Clip. 2,918,244, 12-22-59, Cl. 248-214.
- Lang, Albert P., to Sperry Rand Corp. Inking system for high speed printers. 2,869,454, 1-20-59, Cl. 101-93.
- Lang, Arthur J.: *See*—  
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- Lang, Clark B., to United Steel & Wire Co. Combined transporting and display apparatus. 2,916,293, 12-8-59, Cl. 280-79.3.
- Lang, Delmer T. Temperature responsive device. 2,892,063, 6-23-59, Cl. 200-140.
- Lang, Donald R.: *See*—  
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- Lang, Edward H.: *See*—  
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- Fortune, Ronald. 2,907,346.
- Lang, Helmuth, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Apparatus for forming seamless packages for fluids. 2,902,808, 9-8-59, Cl. 53-180.
- Lang, Herman A. Hanger device. 2,891,757, 6-23-59, Cl. 248-224.
- Lang, John A., to Bendix Aviation Corp. Shaft clamp for hub type device. 2,913,265, 11-17-59, Cl. 287-52.
- Lang, John C., to Grey Equipment, Inc. Hoghead machine. 2,866,976, 1-6-59, Cl. 1-129.
- Lang, John L.: *See*—  
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- Dreisbach, Robert R., and Lang. 2,900,279.
- Lang, Karl A., and C. H. Stevenson, to Lindberg Engineering Co. Metal melting furnace. 2,892,005, 6-23-59, Cl. 13-2.
- Lang, Karl F.: *See*—  
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- Lang, Keith M., to General Mills, Inc. Ballast discharge device. 2,907,502, 10-6-59, Cl. 222-557.
- Láng, Kornélia: *See*—  
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- Lang, Kurt, W. Barthel, W. Ladewig, F. Hans, W. Reichelt, E. Klaus, and A. Schädlich. Pressing tools particularly for the manufacture of large-area pressings. 2,916,771, 12-15-59, Cl. 18-35.
- Lang, Murray J. Stapling device. 2,897,500, 8-4-59, Cl. 1-2.
- Lang, Otto. Tire chain applying tool. 2,882,770, 4-21-59, Cl. 81-15.8.
- Lang, Paul, and F. Vicik, to Ten Bosch, M., Inc. Anti-friction bearing unit. 2,889,181, 6-2-59, Cl. 308-6.
- Lang, Paul A., to United States of America, Air Force. Chassis mounting mechanism. 2,876,389, 3-3-59, Cl. 317-99.
- Lang, Richard E., and D. P. Rohrer, to Protein Foundation, Inc. Centrifuging apparatus. 2,906,450, 9-29-59, Cl. 233-23.
- Lang, Thomas G. Pulse jet. 2,903,850, 9-15-59, Cl. 60-35.6.
- Lang, Warren H.: *See*—  
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- Langballe, Wilhelm, H. W. Riddervold, S. E. M. Norlin, and K. G. Lindqvist. Device for rolling with repeaters in open mills. 2,875,653, 3-3-59, Cl. 80-52.
- Langbein, Werner: *See*—  
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- Langberg, Charles, to Instrument Glass Co. Inc. Manufacture of photographic filters. 2,887,424, 5-19-59, Cl. 154-2.65.
- Langdon, Arthur J., to Sterling Precision Corp. Method and means for folding and sealing the open ends of flexible bags. 2,892,293, 6-30-59, Cl. 53-14.
- Langdon, Arthur J., to Sterling Precision Corp. Wrap for surgical gloves. 2,915,173, 12-1-59, Cl. 206-7.
- Langdon, Howard H.: *See*—  
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- Langdon, Howard H., F. M. Buresh, R. R. Castor, and R. E. Marks, to Curlator Corp. Machine for forming random fiber webs. 2,890,497, 6-16-59, Cl. 19-156.
- Langdon, Jesse D. Tire plug. 2,902,074, 9-1-59, Cl. 152-370.
- Langdon, Jesse D. Inflatable valve member. 2,911,185, 11-3-59, Cl. 251-175.
- Langdon, Jesse D. Pneumatic chambered flushometer. 2,915,761, 12-8-59, Cl. 4-31.
- Langdon, Jesse D. Siphonless trap. 2,917,070, 12-15-59, Cl. 137-247.15.
- Langdon, Jesse D. Plumbing fixture reservoir. 2,918,680, 12-29-59, Cl. 4-26.
- Langdon, Robert S., to Western Gear Works. Variable speed power transmission mechanism for use with hydraulic drives. 2,869,400, 1-20-59, Cl. 74-765.
- Langdon, William K.: *See*—  
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- Langdon, William K., and W. W. Levis, Jr., to Wyandotte Chemicals Corp. Synthesis of 2,6-dialkylpiperazines. 2,911,407, 11-3-59, Cl. 260-268.
- Lange, Emil. Electric safety fuses. 2,878,341, 3-17-59, Cl. 200-120.



- Lange, Emil. Electric circuit breaker. 2,908,789, 10-13-59, Cl. 200-150.
- Lange, Ernst: *See*—  
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- Lange, Ferdinand. Folding container. 2,912,153, 11-10-59, Cl. 229-16.
- Lange, Guenther: *See*—  
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- Lange, Günther, to BMW Triebwerksbau Gesellschaft mit beschränkter Haftung. Regenerative heat exchanger with moveable matrix. 2,915,297, 12-1-59, Cl. 257-269.
- Lange, Heinrich, to Kampnagel Aktiengesellschaft. Luffing crane. 2,912,123, 11-10-59, Cl. 212-58.
- Lange, Karl H.: *See*—  
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- Lange, Karl W. Luminescent indicating device. 2,885,561, 5-5-59, Cl. 250-77.
- Lange, Le Roy J., to American Totalisator Co., Inc. Apparatus for selecting and operating electromechanical registers. 2,919,064, 12-29-59, Cl. 235-92.
- Lange Plastics Co.: *See*—  
Lange, Robert B. 2,884,741.
- Lange, Richard, to Hodes-Lange Corp. Method and apparatus for treating and filling ampoules. 2,896,381, 7-28-59, Cl. 53-37.
- Lange, Robert B., to Lange Plastics Co. Flower pot cover. 2,884,741, 5-5-59, Cl. 47-34.
- Lange, Robert F. Device for supporting a frying pan in tilted position. 2,903,229, 9-8-59, Cl. 248-359.
- Langeais, Edmond: *See*—  
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- Langefeld, Lois M. Chair for small children. 2,875,816, 3-3-59, Cl. 155-131.
- Langehenke, Franz: *See*—  
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- Langen, Ole H.: *See*—  
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- Langen, Ole H., to The Unipress Co., Inc. Rotary pressing machine. 2,867,923, 1-13-59, Cl. 38-22.
- Langen, Ole H., to The Unipress Co., Inc. Interchangeable buck. 2,907,126, 10-6-59, Cl. 38-66.
- Langen, Ole H., and H. V. Hoisve, to The Unipress Co., Inc. Shirt pressing machine. 2,875,929, 3-3-59, Cl. 223-57.
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- Langenberg, Robert J., to Miles Laboratories, Inc. Purification of 2-ethyl-cis-crotonylurea. 2,904,589, 9-15-59, Cl. 260-553.
- Langendorf, Leone A. Rotary display racks for clothing. 2,897,608, 8-4-59, Cl. 35-56.
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- Langer, Arthur W., Jr., to Esso Research and Engineering Co. Catalytic metal-modified resin and its use in olefin hydration. 2,891,999, 6-23-59, Cl. 260-614.
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- Langer, Stanley H., to Westinghouse Electric Corp. Glycidyl polyether-triethanolamine borate composition and product treated therewith. 2,871,454, 1-27-59, Cl. 336-96.
- Langermeier, Gregg C. Molded cap for sheet metal screws and the like. 2,878,905, 3-24-59, Cl. 189-36.
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- Langevin, Robert A., to United States of America, Air Force. Preparation of semi-conductive material. 2,881,099, 4-7-59, Cl. 117-227.
- Langford, James V. Outboard motor tilting unit. 2,893,342, 7-7-59, Cl. 115-41.
- Langford, Robert C., and E. S. Davis, to Daystrom, Inc. Marker signal generator. 2,902,648, 9-1-59, Cl. 324-79.
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- Langley, Sara F. Shoe bag. 2,873,781, 2-17-59, Cl. 150-1.
- Langley, Virgil E. Container. 2,886,230, 5-12-59, Cl. 229-7.
- Langlois, David P., to A. E. Staley Mfg. Co. Process for preparing starch syrups. 2,891,869, 6-23-59, Cl. 99-142.
- Langlois, David P., and G. C. Pinney, to A. E. Staley Mfg. Co. Method of preparing an adhesive which comprises reacting an amylaceous material, a phenol and an aldehyde. 2,886,541, 5-12-59, Cl. 260-17.2.
- Langlois, David P., and G. C. Pinney, to A. E. Staley Mfg. Co. Method of increasing pot life of adhesive compositions containing an amylaceous component, a phenolic compound, and an aldehyde. 2,890,182, 6-9-59, Cl. 260-17.2.
- Langlois, David P., and W. Turner, to A. E. Staley Mfg. Co. Production of amyloglucosidase. 2,893,921, 7-7-59, Cl. 195-66.
- Langlois, Gordon E., and P. E. Fischer, to California Research Corp. Process for producing normally liquid olefinic hydrocarbons. 2,902,523, 9-1-59, Cl. 260-683.15.
- Langlykke, Asger F.: *See*—  
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- Langmuir, David B., and W. A. Marrison, to Thompson Ramo Wooldridge Inc. Particle acceleration method and apparatus. 2,880,337, 3-31-59, Cl. 313-63.
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- Langner, Heinrich: *See*—  
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- Langnickel, Arvid: *See*—  
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- Langnickel, Kurt, to A. Langnickel. Liquid filtering apparatus. 2,916,144, 12-8-59, Cl. 210-346.
- Langsfeld, William P., to Turco Products, Inc. Metal foil diaphragm. 2,895,506, 7-21-59, Cl. 137-793.
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- Langvard, Ivar L., to The Babcock & Wilcox Co. Drum attemperator. 2,880,973, 4-7-59, Cl. 257-239.
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- Lanham, William M., to Union Carbide Corp. Production of heterocyclic dithiophosphoric esters. 2,876,244, 3-3-59, Cl. 260-461.
- Lanham, William M., to Union Carbide Corp. Production of heterocyclic dithiophosphate ketoesters. 2,876,245, 3-3-59, Cl. 260-461.
- Lanham, William M., to Union Carbide Corp. Production of heterocyclic phosphorus-containing compounds. 2,879,287, 3-24-59, Cl. 260-461.
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- Lanham, William M., to Union Carbide Corp. Production of heterocyclic phosphorus-containing compounds. 2,883,411, 4-21-59, Cl. 260-461.
- Lanham, William M., to Union Carbide Corp. 2-halo-2-oxo-1,3,2-dioxaphosphorinanes and process for their production. 2,892,862, 6-30-59, Cl. 260-461.
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- Lanham, William M., to Union Carbide Corp. Heterocyclic phosphorus-containing compounds and their production. 2,894,016, 7-7-59, Cl. 260-461.
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- Lanham, William M., to Union Carbide Corp. Production of spiro heterocyclic dithiophosphoric acids. 2,900,407, 8-18-59, Cl. 260-461.
- Lanham, William M., to Union Carbide Corp. Production of spiro heterocyclic phosphorus-containing compounds. 2,903,474, 9-8-59, Cl. 260-461.
- Lanham, William M., to Union Carbide Corp. Polymeric phosphate esters and their production. 2,909,559, 10-20-59, Cl. 260-461.
- Lanham, William M., to Union Carbide Corp. Production of bicyclo heterocyclic phosphorus compounds. 2,910,499, 10-27-59, Cl. 260-461.
- Lanier, Lewis H., Jr.: *See*—  
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- Lanier, Lewis H., Sr., L. H. Lanier, Jr., and M. E. Dawson, to Kentucky-Ohio Products Corp. Core loading machine. 2,870,588, 1-27-59, Cl. 53-197.
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- Lanier, Sterling S., Jr. Conveying apparatus. 2,886,167, 5-12-59, Cl. 198-109.
- Lanier, William D., and R. L. Solnick, to The Fluor Corp., Ltd. Cooling tower mist eliminator. 2,882,996, 4-21-59, Cl. 183-26.
- Lankford, Marion P. Continuous flow cheese making apparatus. 2,917,827, 12-22-59, Cl. 31-46.
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- Lanneau, Keith P., and L. I. Griffin, Jr., to Esso Research and Engineering Co. Analogue computer for solving simultaneous equations. 2,911,146, 11-3-59, Cl. 235-180.
- Lanner, Manne G. Method of and arrangement for transferring curve contour to workpieces. 2,877,589, 3-17-59, Cl. 41-26.
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- Lannert, William H., to Chicago Pump Co. Transfer and comminuting device. 2,886,174, 5-12-59, Cl. 210-173.
- Lannert, William H., to Chicago Pump Co. Comminuting device. 2,896,786, 7-28-59, Cl. 210-173.
- Lannert, William H., to Chicago Pump Co. Floating shield for comminuting device. 2,900,081, 8-18-59, Cl. 210-173.
- Lannert, William H., to Chicago Pump Co. Screening and comminuting device. 2,900,082, 8-18-59, Cl. 210-173.
- Lannert, William H., to Food Machinery and Chemical Corp. Comminuting device. 2,915,184, 12-1-59, Cl. 210-173.
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- Lanning, William C., to Phillips Petroleum Co. Polymerization of olefins. 2,880,198, 3-31-59, Cl. 260-93.7.
- Lanning, William C., to Phillips Petroleum Co. Control of deposits on catalysts. 2,891,935, 6-23-59, Cl. 260-93.7.
- Lanning, William C., to Phillips Petroleum Co. Polymerization apparatus. 2,894,824, 7-14-59, Cl. 23-285.
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- Lantz, Alpha P. Ironing board and automatically unfolding supporting legs therefor. 2,873,543, 2-17-59, Cl. 38-121.
- Lantz, Alpha P. Ball bearing ironing board and a pair of automatically unfolding supporting legs therefor. 2,908,984, 10-20-59, Cl. 38-121.
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- Lapeyre, Fernand S. and J. M., to The Peelers Co. Shrimp metering devices. 2,868,014, 1-13-59, Cl. 73-223.
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- La Plante, Romeo F. Auxiliary ladder step assembly. 2,876,047, 3-3-59, Cl. 304-31.5.
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- Lapsley, Charles H. Power tool apparatus. 2,892,476, 6-30-59, Cl. 144-1.
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- Hollar, John V. 2,869,555.
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- Large, William E., and E. C. Hartwig, to Westinghouse Electric Corp. Magnetic amplifier control for electric discharge apparatus. 2,892,148, 6-23-59, Cl. 323-89.
- Largen, Elbert M. Automatic balancing device. 2,882,746, 4-21-59, Cl. 74-573.
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- Ter Berg, Jozef, and Larigaldie. 2,885,534.
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- Larkin, Sam. Wire bending apparatus. 2,868,237, 1-13-59, Cl. 140-71.
- Larkin, Sam. Apparatus adapted for the bending of wire strip material and the like. 2,869,591, 1-20-59, Cl. 140-71.
- Larkin, Stephen A., and N. H. Ledwan, to General Motors Corp. Rotary seal. 2,890,069, 6-9-59, Cl. 286-5.
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- Larkin, Walter, to Fidelity Machine Co., Inc. Dial for knitting machines. 2,873,594, 2-17-59, Cl. 66-95.
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- La Rocca, Salvatore. Handle member. 2,913,275, 11-17-59, Cl. 294-31.
- La Rocque, Armand P., to Philco Corp. Method of making cathode assemblies and products. 2,895,854, 7-21-59, Cl. 117-223.
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- La Rose, Royal J., and E. P. Clause. Apparatus for mechanically handling sugar cane stalks during harvesting. 2,871,645, 2-3-59, Cl. 56-119.
- Larré Laboratories, Inc.: *See*—  
Schmitt, Otto L., and Lawrence. 2,896,614.
- Larrecq, Anthony J.: *See*—  
Wright, Elliott F., Watson, and Larrecq. 2,907,609.
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- Larsen, Andrew A. Land clearing attachment for tractors. 2,878,881, 3-24-59, Cl. 172-276.
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- Larsen, Chester W., Jr.: *See*—  
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- Larsen, Einar R., to Bathey Mfg. Co. Freight carrier. 2,877,602, 3-17-59, Cl. 211-175.
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- Larsen, Frederik V., to Dansk Spare-Selskab. Coin mechanisms for savings clocks and similar savings automats. 2,897,937, 8-4-59, Cl. 194-19.
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- Larsen, Herbert, and H.-E. Martin, to Siemens & Halske Aktiengesellschaft. Junction and terminal device for laminated high-frequency conductors. 2,915,719, 12-1-59, Cl. 333-96.
- Larsen, Jack, and G. Nordquist, to United States of America, Army. Static charge generating device. 2,882,824, 4-21-59, Cl. 102-70.2.
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- Larsen, Leonard M. Phonograph record filing cabinet. 2,902,327, 9-1-59, Cl. 312-13.
- Larsen, Lester J., and C. A. L. Ruhl, to Bendix Aviation Corp. Fluid pressure motor. 2,915,046, 12-1-59, Cl. 121-46.
- Larsen, Merwin J., to General Dynamics Corp. Secret communicating system. 2,913,525, 11-17-59, Cl. 179-1.5.
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- Larsen, Paul V., to Electric Steel Foundry Co. Dragline bucket assembly. 2,895,239, 7-21-59, Cl. 37-135.
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- Larsen, Roy L., to Minneapolis-Honeywell Regulator Co. Symmetrically operating servosystem with unsymmetrical servoamplifier. 2,885,612, 5-5-59, Cl. 318-28.
- Larsen, Torleif I.: *See*—  
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- Larsh, Everett P. Electromagnetic actuator and switch mechanism and method of operation thereof. 2,876,310, 3-3-59, Cl. 200-104.
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- Larson, Carl H., to Standard-Thomson, Corp. Switch mechanism. 2,883,490, 4-21-59, Cl. 200-122.
- Larson, Carl R. N. Internal combustion engine. 2,905,159, 9-22-59, Cl. 123-75.
- Larson, Charles O. Eye bolt and washer means preventing displacement of the free end of the eye. 2,867,874, 1-13-59, Cl. 24-115.
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- Larson, Charles O. Turnbuckle and method of forming the same. 2,881,510, 4-14-59, Cl. 29-175.
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- Larson, Christian C.: *See*—  
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- Larson, Clayton E., to White Metal Rolling & Stamping Corp. Multi-way ladder. 2,899,008, 8-11-59, Cl. 182-25.
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- Larson, Dorothy K. Screw cap remover. 2,880,633, 4-7-59, Cl. 81-3.4.
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- Larson, Glen M. Respirator valve assembly. 2,888,012, 5-26-59, Cl. 128-146.
- Larson, Harold A., and W. R. King, to Phillips Petroleum Co. Feeding mechanism. 2,889,575, 6-9-59, Cl. 18-1.
- Larson, Harold F., to United States of America, Atomic Energy Commission. Method of forming elongated compacts. 2,885,287, 5-5-59, Cl. 75-226.
- Larson, Harry I., 1/2 to J. A. Carlson. Earth drills. 2,870,991, 1-27-59, Cl. 255-22.
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- Larson, John I., to Stainless & Steel Products Co. Breather valve for portable milk tanks and the like. 2,909,186, 10-20-59, Cl. 137-202.



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Kozikowski, John, and Larson. 2,870,180.
- Larson, Raymond G.: *See*—  
Katzin, Leonard L., Larson, Thompson, and Van Winkle. 2,887,355.
- Larson, Richard L., to Minnesota Mining and Mfg. Co. Tab-forming tape dispenser. 2,873,967, 2-17-59, Cl. 270-68.
- Larson, Rodger G., to United States of America, Navy. Antenna system and switch therefor. 2,892,983, 6-30-59, Cl. 333-13.
- Larson, Wayne F. Car seat. 2,890,740, 6-16-59, Cl. 155-12.
- Larsson, Ernst A., to The Ohio Brass Co. Draft coupler and uncoupling apparatus. 2,897,982, 8-4-59, Cl. 213-100.
- Larsson, Gustaf, and S. Wallin, to Aktiebolaget Svenska Flaktfabriken. Material supply cut-off in pneumatic conveying plants. 2,880,036, 3-31-59, Cl. 302-17.
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Dench, Edward C., and La Rue. 2,888,649.
- La Rue, Albert D., to Raytheon Mfg. Co. End-shield assemblies for grid magnetrons. 2,882,448, 4-14-59, Cl. 315-39.63.
- La Rue, Donald G., to Kaiser Aluminum & Chemical Corp. Hot water tank flue construction. 2,874,683, 2-24-59, Cl. 122-17.
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- La Rue, Frederick G.: *See*—  
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- La Rue, Ray M. Cabinet construction. 2,869,955, 1-20-59, Cl. 312-297.
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- Lasar, William. Guided coupling with retractable sleeve. 2,917,326, 12-15-59, Cl. 285-24.
- Lasater, John A.: *See*—  
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- Lasch, Albert, to Werner & Pfeiderer. Apparatus for the continuous mixing of materials. 2,868,517, 1-13-59, Cl. 259-6.
- Lasdon Foundation, Inc.: *See*—  
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- Lasecki, Edmund S. Flush and stop rod for toilet tank. 2,908,914, 10-20-59, Cl. 4-67.
- Lasek, Thaddeus A., to American Bosch Arma Corp. Fulcrum lever for governors. 2,870,651, 1-27-59, Cl. 74-522.
- Laser, William F., to City National Bank and Trust Co. of Chicago, as trustee. Labyrinth type magnetic rotary seal. 2,883,212, 4-21-59, Cl. 286-10.
- Laser, William F., to City National Bank and Trust Co. of Chicago, trustee. Rotary seal. 2,917,329, 12-15-59, Cl. 286-10.
- Laser, William F., and K. D. Yost, to City National Bank and Trust Co. of Chicago, as trustee. Rotary seal. 2,882,076, 4-14-59, Cl. 286-11.14.
- Laserow, Max, to A. Lieberman. Denture cushion composition and method for making the same. 2,883,353, 4-21-59, Cl. 260-23.
- Lash, Don B.: *See*—  
Cannon, Edward S., and Lash. 2,874,848.
- Lashbrook, Carl V.: *See*—  
Sedgwick, William D., Schad, and Lashbrook. 2,878,508.
- Lasher, Hiram S., Jr., to General Electric Co. Electrical pulse producing circuits. 2,877,383, 3-10-59, Cl. 315-166.
- Lashley, Everett R.: *See*—  
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- Lashley, George E. Exhaust system. 2,913,870, 11-24-59, Cl. 60-29.
- Lasho, Clarence E., Jr., to Collins Radio Co. Method for positively removing a resistance element from a waveguide. 2,876,423, 3-3-59, Cl. 333-98.
- Lasier, David R., to LCN Closers, Inc. Fusible holding arm for door closers. 2,901,064, 8-25-59, Cl. 189-45.
- Lasinski, Theodore M.: *See*—  
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- Laskin, Carl, to United Aircraft Corp. Differential tachometer. 2,896,101, 7-21-59, Cl. 310-171.
- Lasko, George A. Speedometer indicating means. 2,910,036, 10-27-59, Cl. 116-57.
- Lasko Metal Products, Inc.: *See*—  
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- Laskowitz, Isidor B. Jet-powered helicopter rotor head and blade construction. 2,915,129, 12-1-59, Cl. 170-135.4.
- Laskowski, Stanley C.: *See*—  
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- Laskowski, William H., to Borg-Warner Corp. Vertical broiler. 2,868,111, 1-13-59, Cl. 99-392.
- Lasley, Robert A., to Baldwin-Lima-Hamilton Corp. Gas turbine with automatic shift responsive to turbine speed and gas pressure. 2,874,585, 2-24-59, Cl. 74-336.5.
- La Soundre Electricque Autogene, S.A.: *See*—  
Danhier, Francois G. 2,900,484.  
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- La Spirotechnique: *See*—  
Gagnan, Emile. 2,902,031.  
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- Lass, Erwin H.: *See*—  
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- Lassen, Carl C., Jr. Lining device. 2,881,523, 4-14-59, Cl. 33-37.
- Lassiter, John M. Safety door lock. 2,901,053, 8-25-59, Cl. 180-82.
- Las-Stik Mfg. Co., The: *See*—  
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- Lassy, Carl O. Angle plate attachment. 2,887,017, 5-19-59, Cl. 90-59.
- Last, Arthur W., and K. F. Marquardson, to Kennecott Copper Corp. Process of concentrating columbium minerals by froth flotation. 2,875,896, 3-3-59, Cl. 209-166.
- Last, James, to Elliott Brothers (London) Ltd. Means for feeding record cards for use in statistical, accountancy and other machines. 2,880,994, 4-7-59, Cl. 271-10.
- Lastering, Bernhard: *See*—  
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- Latchford, William B.: *See*—  
Gratian, Joseph W., and Latchford. 2,889,414.
- La Telemecanique Electrique: *See*—  
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- Latendorf Conveying Corp.: *See*—  
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- Latenser, James S. Insulating sealed wall or window panel. 2,896,272, 7-28-59, Cl. 20-5.
- Latham, Allen E. Venetian blind. 2,891,613, 6-23-59, Cl. 160-176.
- Latham, Burton F., Jr., to Continental Carbon Co. Electric precipitator. 2,903,089, 9-8-59, Cl. 183-7.
- Latham, Morton E.: *See*—  
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- Latham, Raymond L., to Chrysler Corp. Rocker arm. 2,905,161, 9-22-59, Cl. 123-90.
- Lathrop, Harry D., and J. J. Barski, to The Lathrop-Paulson Co. Belt drive. 2,875,624, 3-3-59, Cl. 74-216.5.
- Lathrop, Harvey. Multi-compartment bill fold. 2,881,818, 4-14-59, Cl. 150-38.
- Lathrop, Henry T., to Bissell Carpet Sweeper Co. Rotary brush assembly for carpet sweepers. 2,918,687, 12-29-59, Cl. 15-41.
- Lathrop, Jay W., and J. R. Nall, to United States of America, Army. Semiconductor construction. 2,890,395, 6-9-59, Cl. 317-234.
- Lathrop-Paulson Co., The: *See*—  
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- Lathrop, Robert P., to Baldwin-Lima-Hamilton Corp. Recorder for electrical resistance type condition responsive means. 2,883,617, 4-21-59, Cl. 324-62.
- Latimer, James T., to Jackson Industries, Inc. Veneer lathe. Re. 24,713, 10-6-59, Cl. 144-209.
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- Latimer, Thomas H., to American Metal Products Co. Seat supporting and adjusting mechanism. 2,905,228, 9-22-59, Cl. 155-14.
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- La Torre, Albert J. Blind fastener having expansible coil spring head. 2,868,056, 1-13-59, Cl. 85-24.
- La Torre, Albert J. Blind fastener with expansible collar and thread lock means. 2,915,934, 12-8-59, Cl. 85-24.
- La Torre, Joseph. Lock nut having pivoting concave bearing end and inwardly deformed tip to effectuate uniformly stressed threads. 2,897,867, 8-4-59, Cl. 151-21.
- Latour, André, to Etablissements Merlin & Gerin. Pneumatic blow-out in circuit breakers. 2,883,494, 4-21-59, Cl. 200-148.
- Latour, André, to Etablissements Merlin & Gerin. Arc-extinction chambers for circuit-breakers. 2,888,539, 5-26-59, Cl. 200-144.



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- Latourette, Harold K., O. H. Johnson, and J. W. Getz, to Food Machinery and Chemical Corp. Preparation of M-chloroaniline. 2,894,035, 7-7-59, Cl. 260-580.
- Latourette, Harold K., and G. H. Johnson. Preparation of aromatic isocyanates. 2,908,703, 10-13-59, Cl. 260-453.
- Latourette, Harold K., and P. E. Levesque, to Food Machinery and Chemical Corp. Method of stabilizing soils by adding a humate. 2,916,853, 12-15-59, Cl. 47-58.
- La Tourette, Harry B., Jr. Container. 2,867,365, 1-6-59, Cl. 229-15.
- Latrobe Steel Co.: See—  
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- Latter, Bruce B., and W. C. Bodong, to General Electric Co. Safety throwout mechanism for power operated drawers. 2,895,781, 7-21-59, Cl. 312-223.
- Lattmann, Max E., to Contraves AG. Rocket. 2,872,131, 2-3-59, Cl. 244-14.
- Lattuca, John J., to Best Plastics Corp. Plastic filler for shirt collars. 2,889,091, 6-2-59, Cl. 223-83.
- Lattuca, Sam T., to Best Plastics Corp. Plastic sand and water pool. 2,886,828, 5-19-59, Cl. 4-172.
- Latva, Henry F.: See—  
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- Latzen, Josef. Ball and socket joints. 2,876,029, 3-3-59, Cl. 287-90.
- Latzen, Josef. Ball and socket joints and method of making same. 2,878,046, 3-17-59, Cl. 287-87.
- Latzen, Josef, to A. Ehrenreich & Cie. Ball joint for the suspension of automobile wheels. 2,883,221, 4-21-59, Cl. 287-87.
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- Latzko, John A., to Aktiengesellschaft Brown, Boveri & Cie. Sheet metal switch panel enclosure. 2,899,254, 8-11-59, Cl. 312-257.
- Lau Blower Co., The: See—  
Ganger, Karl M., and Wentling. 2,912,159.
- Lau, Erwin M., to Black Products Co. Control for bag filling machine. 2,871,891, 2-3-59, Cl. 141-10.
- Lau, Francisco J. Device for controlling the flow of fuel from a supply tank to a carburetor in an automobile. 2,906,284, 9-29-59, Cl. 137-384.8.
- Lau, Heinrich W., deceased, L. E. Lau, administratrix. Sewn-in-slack method of webbing fabrication and the towing article produced thereby. 2,892,640, 6-30-59, Cl. 280-480.
- Lau, Lydia E.: See—  
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- Laub, Ernest S. V. Compressible plunger for hypodermic syringes. 2,907,330, 10-6-59, Cl. 128-218.
- Laub, Herman, III: See—  
Walker, Patrea P., and Laub. 2,893,380.
- Laubach, Gerald D.: See—  
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- Fidgor, Sanford K., and Laubach. 2,883,323.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. 11.14 peroxides of substituted ergostadiene compounds. 2,877,221, 3-10-59, Cl. 260-239.55.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. Steroid intermediates. 2,882,284, 4-14-59, Cl. 260-397.47.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. Bisnorallo-7-choleinaldehydes. 2,895,970, 7-21-59, Cl. 260-397.5.
- Laubach, Gerald D., to Chas. Pfizer & Co., Inc. Steroid compounds and their preparation. 2,897,128, 7-28-59, Cl. 204-158.
- Laubach, Gerald D., and W. M. McLamore, to Chas. Pfizer & Co., Inc. Quinazolone derivatives. 2,915,521, 12-1-59, Cl. 260-251.
- Laubach, Howard E., to American Steel Foundries. Coolant drain and sealer arrangement. 2,889,722, 6-9-59, Cl. 77-4.
- Laube, Charles: See—  
Melchore, James A., and Laube. 2,883,260.
- Laube, Hans, 15% to L. Ruskin, F. B. Carbone, and B. V. Sturz, and 85% to B. Good and H. Laube. Motion pictures with synchronized odor emission. 2,905,049, 9-22-59, Cl. 88-16.
- Laucher, Richard G., and F. A. Coss, to Marquardt Aircraft Co. Thrust reverser for jet engine. 2,874,538, 2-24-59, Cl. 60-35.54.
- Laucius, Joseph F., and J. P. Neary, to E. I. du Pont de Nemours and Co. Process for dyeing polyester materials at elevated temperatures in stabilized non-aqueous disperse dyebath. 2,882,119, 4-14-59, Cl. 8-55.
- Lauck, Albert G., to Owens-Illinois Glass Co. High speed article transfer apparatus. 2,912,093, 11-10-59, Cl. 198-32.
- Lauck, John A., to Borg-Warner Corp. Constant pressure variable displacement pump. 2,883,937, 4-28-59, Cl. 103-120.
- Lauck, John A., to Borg-Warner Corp. Hydraulic drill press. 2,887,907, 5-26-59, Cl. 77-5.
- Lauck, William A., to Ridge Tool Co. Reaming tool. 2,871,733, 2-3-59, Cl. 77-73.
- Laudel, Arthur, Jr., to United States of America, Office of Civil and Defense Mobilization. Electrical signaling system. 2,906,897, 9-29-59, Cl. 307-140.
- Laudenslager, Harry B., Jr., to Blackstone Corp. Solder fluxes. 2,895,862, 7-21-59, Cl. 148-23.
- Lauder, Walter B., to Brown & Williamson Tobacco Corp. Tobacco hand tie leaf cutter. 2,893,401, 7-7-59, Cl. 131-149.
- Laudig, James J., to The Texas Co. Sealable adhesive composition, tie pad comprising same, and process for using said pad. 2,886,248, 5-12-59, Cl. 238-283.
- Laue, Eric G.: See—  
Wright, Harry D., and Laue. 2,917,642.
- Laue, Eric G., to California Institute Research Foundation. Means for detecting resonance vibration. 2,909,059, 10-20-59, Cl. 73-71.4.
- Laue, Karl A. Automatically controlled photographic apparatus in vehicles. 2,876,688, 3-10-59, Cl. 95-11.
- Lauer, Albert W., Jr., to Air Products Inc. Fluid pressure control device. 2,918,018, 12-22-59, Cl. 137-505.11.
- Lauer, Anton, and L. Brück, to Telefunken G. m. b. H. Traveling wave tube structure. 2,876,379, 3-3-59, Cl. 315-3.5.
- Lauer, George. Grading and distributing apparatus. 2,908,389, 10-13-59, Cl. 209-99.
- Lauer, George G.: See—  
Detrick, Robert S., and Lauer. 2,890,254.
- Lauer, James L., to Sun Oil Co. Internal combustion engine ignition systems. 2,901,672, 8-25-59, Cl. 315-226.
- Lauer, James L., to Sun Oil Co. Fuel compositions for spark ignition engines. 2,918,360, 12-22-59, Cl. 44-69.
- Lauer, James L., to Sun Oil Co. Polymerization of olefins with a metal halide on activated carbon catalyst. 2,919,266, 12-29-59, Cl. 260-93.7.
- Lauffer, Frédéric, to J. Bobst and Son S. A. Sheet gripper means for presses. 2,867,275, 1-6-59, Cl. 164-48.
- Lauffer, Maurice K., and W. D. Hall, to Grimes Mfg. Co. Instrument lighting fixtures. 2,916,606, 12-8-59, Cl. 240-21.
- Lauffer, Paul G. Method of making an abrasion-resistant cosmetic film. 2,876,162, 3-3-59, Cl. 167-90.
- Lauffer, Theo. Apparatus for mixing liquids. 2,890,028, 6-9-59, Cl. 259-129.
- Laughlin, Lacey, deceased; N. R. Laughlin, executrix. Traction means for automotive vehicles. 2,894,554, 7-14-59, Cl. 152-208.
- Laughlin, Myron P.: See—  
McMorris, Herschel G., and McCall. 2,894,852.
- Laughlin, Naomi R.: See—  
Laughlin, Lacey. 2,894,554.
- Laughlin, Vernon C. Loom reed. 2,870,796, 1-27-59, Cl. 139-192.
- Laughter, Cecil M. and J. J. Fabrication of tools. 2,899,849, 8-18-59, Cl. 76-107.
- Laughter, James J.: See—  
Laughter, Cecil M. and J. J. 2,899,849.
- Laughton, George A. Hair clips. 2,883,993, 4-28-59, Cl. 132-46.
- Laughton, Malcolm. Hangers or airers for clothes and light articles. 2,895,657, 7-21-59, Cl. 223-92.
- Lauffhoff Grain Co.: See—  
Kautz, George M. 2,898,052.
- Laure, Gavin W., Sr., and Gavin W., Jr. Tire pressure indicator. 2,896,566, 7-28-59, Cl. 116-34.
- Lauckhuff, Walter, to Daimler-Benz Akt. Camber adjusting device for motor vehicle wheels. 2,890,893, 6-16-59, Cl. 280-96.2.
- Lauler, Louis J.: See—  
Thorsson, Matthew T., and Lauler. 2,868,491.
- Lauler, Louis J., and M. T. Torsson, to Fairbanks, Morse & Co. Weighing scale system with weight recorder. 2,882,035, 4-14-59, Cl. 265-5.
- Launders, Ernie L., to H. & L. Tooth Co. Mold board end bit with replaceable tooth. 2,914,868, 12-1-59, Cl. 37-143.
- Launder, Ernie L., M. Frederick, Jr., and A. W. Loudon, to H. & L. Tooth Co. Table and clamp for supporting and holding work in a fabricating machine. 2,903,565, 9-8-59, Cl. 219-124.
- Launder, Ernie L., A. W. Loudon, and M. Frederick, Jr., to H. & L. Tooth Co. Mounting for a welding head in a work fabricating machine. 2,903,566, 9-8-59, Cl. 219-125.
- Laurence, Lawton L.: See—  
Mitchell, Kenneth G., McMinn, and Laurence. 2,909,905.
- Laurence, Roger F., to Winston Electronics Ltd. Loud-speaking telephone systems. 2,878,314, 3-17-59, Cl. 179-1.
- Laurenson, Robert: See—  
Cowan, Gerald de G., Laurenson, and Van Hemert. 2,889,514.



- Laurent, Andre J. M. Shock cushioning wheel. 2,872,962, 2-10-59, Cl. 152-10.
- Laurent, George J., to United States of America, Navy. Pulse-to-pulse non-linear filters. 2,908,812, 10-13-59, Cl. 250-20.
- Lauretti, Piacentino. Shoe upper shaping machine. 2,915,765, 12-8-59, Cl. 12-97.
- Lauria, Francesco: *See*—  
Logemann, Willy, and Lauria. 2,873,278.
- Laurich, Albert A.: *See*—  
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- Laurie, Floyd S., to American Metal Products Co. Hold-down clip for shelf. 2,909,289, 10-20-59, Cl. 211-136.
- Laurie, Gavin W., Jr.: *See*—  
Laurie, Gavin W., Sr., and Gavin W., Jr. 2,896,566.
- Laurie, William H., to The Superior Electric Co. Variable transformer. 2,896,179, 7-21-59, Cl. 336-141.
- Lauring, Edgar A., to Minnesota and Ontario Paper Co. Drill removing means for multiple spindle drill. 2,900,184, 8-18-59, Cl. 269-127.
- Lauritsen, Charles C., to United States of America, Navy. Fuse. 2,873,681, 2-17-59, Cl. 102-81.
- Lauritsen, John F.: *See*—  
Krystyan, Karol J., Lauritsen, and Voorhees. 2,914,705.
- Lauro, William F.: *See*—  
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- Lauroesch, Thomas J., to United States of America, Navy. Rotary scanning device. 2,873,381, 2-10-59, Cl. 250-236.
- Laurre, Michel: *See*—  
Joullie, Maurice, Laurre, Maillard, and Muller. 2,894,039.
- Lauschke, Hans-Ulrich, to Anker-Werke Aktiengesellschaft. Programming apparatus for accounting machines. 2,902,215, 9-1-59, Cl. 235-61.9.
- Lausman, Walter A. Putty applicator tool. 2,914,798, 12-1-59, Cl. 18-3.5.
- Lautenbacher, Johann, to Enna-Werk Optische Anstalt Dr. Appelt K.G. Photographic objectives. 2,907,248, 10-6-59, Cl. 88-57.
- Lautenschlager, Hans, and H. Friederich, to Badische Anilin- & Soda-Fabrik Akt. Production of acrylic acid esters. 2,886,591, 5-12-59, Cl. 260-486.
- Lautenschlager, Hans, H. Friederich, W. Schmidt, and K. Dachs, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Polymerization of lactams in presence of carbon monoxide. 2,907,755, 10-6-59, Cl. 260-78.
- Lautenschlager, Hans, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acrylic acid and its esters. 2,916,513, 12-8-59, Cl. 260-486.
- Lauterbach, Herbert G., to E. I. du Pont de Nemours and Co. Process of shaping resin-impregnated filamentary material. 2,875,474, 3-3-59, Cl. 18-56.
- Lauterbach, Herbert G., to E. I. du Pont de Nemours and Co. Formation of felt-like products from synthetic filaments. 2,893,105, 7-7-59, Cl. 28-72.2.
- Lauterbach, Herbert G., to E. I. du Pont de Nemours and Co. Felt-like products. 2,910,763, 11-3-59, Cl. 28-72.2.
- Lauterbach, Herbert G., and H. M. Norton, to E. I. du Pont de Nemours and Co. Non-woven filamentary products and process. 2,908,064, 10-13-59, Cl. 28-72.
- Lauterbach, William E., and P. Strutyński, to Dole Refrigerating Co. Hydraulic system for freezer. 2,896,427, 7-28-59, Cl. 62-341.
- Lautner, Max E., to Howard Industries, Inc. Electric motors. 2,904,709, 9-15-59, Cl. 310-90.
- Lautz, William H.: *See*—  
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- Lautzenhiser, Argyle G., to General Motors Corp. Circuit control. 2,881,289, 4-7-59, Cl. 200-122.
- Lautzenhiser, Argyle G., to General Motors Corp. Direction Signal. 2,907,979, 10-6-59, Cl. 340-54.
- Lautzenhiser, Argyle G., and K. E. Faiver, to General Motors Corp. Control device. 2,901,241, 8-25-59, Cl. 267-11.
- Lauxen, Carl, to Radio Corp. of America. Geneva movement. 2,870,647, 1-27-59, Cl. 74-436.
- Laval, Claude C., Jr. Sampling apparatus. 2,870,989, 1-27-59, Cl. 255-1.4.
- Lavallee & Ide, Inc.: *See*—  
Lavallee, Joseph A. 2,917,952.
- Lavallee, Joseph A., to Lavallee & Ide, Inc. Reamer manufacture. 2,917,952, 12-22-59, Cl. 76-101.
- La Valley, Robert J., to American Radiator & Standard Sanitary Corp. Coil inner tube spacer. 2,875,987, 3-3-59, Cl. 257-254.
- Lavanchy, Patricia B., to Johnson & Johnson. Product and method of manufacture. 2,912,348, 11-10-59, Cl. 117-76.
- Lavanchy, Patricia B., H. M. Sonnichsen, and J. F. McElroy, to Johnson & Johnson. Adhesive tapes. 2,886,467, 5-12-59, Cl. 117-76.
- Lavayssiere, Paul, to Etablissements T.R.M.-Technique, Radio, Mecanique. High frequency heating system. 2,898,432, 8-4-59, Cl. 219-10.77.
- Lavender, Harrison M., Jr.: *See*—  
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- Laverdisse, Edmond, to Les Glaceries de la Sambre, Societe Anonyme. Apparatus for vertically actuating the tools of machines for grinding and/or polishing glass. 2,906,066, 9-29-59, Cl. 51-165.
- Lavery, Martin J.: *See*—  
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- Lavery, Charles A., to National Tank Co. Oil and gas separators. 2,911,058, 11-3-59, Cl. 183-2.7.
- Lavery, Grant G.: *See*—  
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- Lavery, Thomas F.: *See*—  
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- La Vezzi Machine Works: *See*—  
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- La Vezzi, Robert V., to La Vezzi Machine Works. Aperture plates for motion picture machines. 2,885,925, 5-12-59, Cl. 88-17.
- Laviana, Donald W., to General Motors Corp. Thermostat. 2,882,370, 4-14-59, Cl. 200-138.
- Laviana, Donald W., to General Motors Corp. Switch assembly. 2,910,551, 10-27-59, Cl. 200-1.
- Laviana, Lawrence J., to M. H. Rhodes, Inc. Timer. 2,913,048, 11-17-59, Cl. 161-1.
- Lavieri, Daniel C., and W. J. Hawley, to Pratt & Whitney Co., Inc. Tracer control for profiling machine tools. 2,879,695, 3-31-59, Cl. 90-62.
- Lavigne, Maurice J.: *See*—  
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- Lavigne, Michael A., 25% to J. Truax. Deep drawing of cylindrical shapes. 2,901,995, 9-1-59, Cl. 113-38.
- Lavin, Edward, and J. A. Cote, to Shawinigan Resins Corp. Polyvinyl acetal-phenol aldehyde resin wire enamel and method of using same. 2,917,416, 12-15-59, Cl. 117-232.
- Lavin, Edward, A. F. Fitzhugh, and R. N. Crozier, to Shawinigan Resins Corp. Electrical insulation comprising polyvinyl acetal-phenol aldehydes cured with oxacids of phosphorus. 2,917,482, 12-15-59, Cl. 260-43.
- Lavin, Edward, A. F. Fitzhugh, and R. N. Crozier, to Shawinigan Resins Corp. Electrical insulation comprising polyvinyl acetal-phenol aldehydes cured with sulfuric acid. 2,917,483, 12-15-59, Cl. 260-43.
- Lavoie, Edward W. Automobile window screen. 2,898,982, 8-11-59, Cl. 160-40.
- Lavoie, J. Gerard and N. R., and C. B. Wunderlich. Adjustable seating apparatus for vehicles. 2,879,829, 3-31-59, Cl. 155-9.
- Lavoie, Noel R.: *See*—  
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- Lavoo, Norman T., and R. L. Kyhl, to General Electric Co. Microwave grounded cathode circuit. 2,867,696, 1-6-59, Cl. 179-171.
- Lavrich, Milton E.: *See*—  
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- Law, Edwin. Combined ash tray and cigarette holder. 2,910,986, 11-3-59, Cl. 131-175.
- Law, Harold B., H. S. Allwine, and D. C. Darling, to Radio Corp. of America. Simplified scanning means for flat type kinescope. 2,880,365, 3-31-59, Cl. 315-23.
- Law, Hilton, to The English Electric Co. Ltd. Frequency responsive electric circuit arrangements and control systems. 2,907,942, 10-6-59, Cl. 318-328.
- Law, Marvin A., to Fieldcrest Mills, Inc. Wear resistant selvage for woven fabrics. 2,912,015, 11-10-59, Cl. 139-383.
- Lawhead, Robert E., Jr.: *See*—  
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- Lawhorn, Roger W., C. A. Woodcock, and S. E. Womack, to Stewart-Warner Corp. Engine performance meter. 2,894,252, 7-7-59, Cl. 340-282.
- Lawick, Julius J. Door operating apparatus. 2,909,718, 10-20-59, Cl. 318-266.
- Lawitschka, Kurt, to Klockner-Humboldt-Deutz Aktiengesellschaft. Oil controlling ring. 2,912,292, 11-10-59, Cl. 309-45.
- Lawler, Edward B., R. D. Vartanian, and P. B. Roth, to American Cyanamid Co. Process for preparing aluminum phosphate dispersion and process of treating pile fabric with the resulting dispersion. 2,909,451, 10-20-59, Cl. 117-169.
- Lawler, Herbert E. Boat support. 2,907,294, 10-6-59, Cl. 114-230.
- Lawler, Joseph A., to Blue M Electric Co. Control apparatus. 2,898,436, 8-4-59, Cl. 219-20.
- Lawler, Richard P., to The Foxboro Co. High speed resistance thermometer. 2,888,655, 5-26-59, Cl. 338-28.
- Lawless, Clement J. Removable and reversible table top construction. 2,903,312, 9-8-59, Cl. 311-35.
- Lawless, Norman D., H. L. Roat, and R. M. Wheeler, to General Motors Corp. Electrical instrument of the differential galvanometer type. 2,875,407, 2-24-59, Cl. 324-140.
- Lawless, Robert M., and A. F. Klopff, to The Dow Chemical Co. Method of treating particulate iron ore. 2,888,341, 5-26-59, Cl. 75-3.
- Lawley, Herbert G.: *See*—  
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- Lawlor, Francis E.: *See*—  
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- Hauptschein, Murray, Braid, and Lawlor. 2,884,466.
- Hauptschein, Murray, Braid, and Lawlor. 2,914,566.
- Lawlor, Francis E., M. Braid, and B. Loe, to Pennsalt Chemicals Corp. Preparation of 2,2-trifluoroethanol. 2,868,846, 1-13-59, Cl. 260-633.
- Lawlor, Joseph R., to Tee-Pak, Inc. Food package. 2,897,087, 7-28-59, Cl. 99-171.
- Lawlor, Martin T., to Scoville Mfg. Co. Perfume container. 2,889,065, 6-2-59, Cl. 215-12.
- Lawlor, Reed C.: *See*—  
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- Lawlor, Reed C. Cathode ray oscilloscopes. 2,874,377, 2-17-59, Cl. 340-369.
- Lawn Electronics Co. Inc.: *See*—  
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- Lawn, Francis, to Lawn Electronics Co. Inc. Inverter. 2,872,635, 2-3-59, Cl. 321-18.
- Lawncraft Mfg. Corp.: *See*—  
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- Lawnhurst, Richard. Garment hanger and display structure. 2,912,148, 11-10-59, Cl. 223-87.
- Lawrence Bros., Inc.: *See*—  
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- Lawrence, Edith. Drip dryer rods for bathrooms. 2,885,086, 5-5-59, Cl. 211-1.3.
- Lawrence, Ernest O., to United States of America, Atomic Energy Commission. Calutrons. 2,871,364, 1-27-59, Cl. 250-41.9.
- Lawrence, Ernest O., to United States of America, Atomic Energy Commission. Dual heated ion source structure having arc shifting means. 2,882,409, 4-14-59, Cl. 250-41.9.
- Lawrence, Ernest O., to United States of America, Atomic Energy Commission. Ion source slit cleaner for calutron. 2,888,566, 5-26-59, Cl. 250-41.9.
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- Lawrence, Forby W. and O. W., to Lawrence Bros., Inc. Rotary disk-type mower cutter mechanism. 2,867,963, 1-13-59, Cl. 56-295.
- Lawrence, Frederick E.: *See*—  
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- Lawrence Holdings (Overseas) Ltd.: *See*—  
Lawrence, John W. 2,876,723.
- Lawrence, James B.: *See*—  
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- Lawrence, John W., to Lawrence Holdings (Overseas) Ltd. Machine for producing fins for finned tube core structures. 2,876,723, 3-10-59, Cl. 113-1.
- Lawrence, Joseph D., Jr., to Sperry Rand Corp. Magnetic amplifier drive for coincident current switch. 2,901,735, 8-25-59, Cl. 340-17.4.
- Lawrence, Joseph D., Jr., to Sperry Rand Corp. Double base diode memory. 2,907,000, 9-29-59, Cl. 340-17.3.
- Lawrence, Joseph L., and P. H. Allen, to Cycle Equipment Co. Fanfolding machine. 2,910,292, 10-27-59, Cl. 270-73.
- Lawrence, Lewis W.: *See*—  
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- Lawrence, Leland E., to Allen-Bradley Co. Twin coil electromagnetic actuator. 2,903,537, 9-8-59, Cl. 200-10.4.
- Lawrence, Marion D. Educational device for teaching spelling and arithmetic. 2,884,714, 5-5-59, Cl. 35-31.
- Lawrence, Michael J., to Chicago Carton Co. Carton set-up machine. 2,909,105, 10-20-59, Cl. 93-51.
- Lawrence, Orby W.: *See*—  
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- Lawrence, Owen N., to Joseph Lucas (Industries) Ltd. Liquid fuel control means for jet engines. 2,872,784, 2-10-59, Cl. 60-39.28.
- Lawrence Paper Co., The: *See*—  
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- Lawrence, Ray V.: *See*—  
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- Lawrence, Richard R. Combined jar and safety joint. 2,915,289, 12-1-59, Cl. 255-27.
- Lawroski, Stephen, A. A. Jonke, and R. K. Steunenberg, to United States of America, Atomic Energy Commission. Preparation of uranium hexafluoride. 2,907,630, 10-6-59, Cl. 23-14.5.
- Laws, Robert J., to Otis Elevator Co. Material handling apparatus. 2,884,144, 4-28-59, Cl. 214-1.
- Lawsberg, Charles L., to General Aniline & Film Corp. Method of coloring woven glass fibers. 2,919,172, 12-29-59, Cl. 8-8.
- Lawser, Mary L.: *See*—  
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- Lawser, Mary L., and F. J. Schipper. Bag lounges. 2,910,707, 11-3-59, Cl. 5-344.
- Lawsky, Max W. Article reminiscent of special occasions. 2,917,853, 12-22-59, Cl. 40-130.
- Lawson, Axel A., H. K. Hazel, H. R. Gary, and M. Gittler, to Melpar, Inc. Stapling machine. 2,904,785, 9-22-59, Cl. 1-2.
- Lawson, Bert E. A., to Sylvania Electric Products Inc. Process for fabricating a socket mount. 2,918,721, 12-29-59, Cl. 29-150.
- Lawson, E. P., Co., Inc.: *See*—  
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Thumim, Carl. 2,894,479.
- Lawson, Gerald W., to General Electric Co. Gas turbine engine with free turbine power take-off. 2,912,823, 11-17-59, Cl. 60-39.16.
- Lawson, Harry W., Jr. Electronic ignition system. 2,899,632, 8-11-59, Cl. 323-58.
- Lawson, Harry W., Jr., to Caledonia Electronics and Transformer Corp. High speed electromechanical actuator. 2,907,929, 10-6-59, Cl. 317-123.
- Lawson, Herbert E., to United States of America, Navy. Delayed action battery. 2,918,515, 12-22-59, Cl. 136-90.
- Lawson, Hollis E. Door check. 2,872,232, 2-3-59, Cl. 292-80.
- Lawson, Ivar S. Sink molding. 2,877,468, 3-17-59, Cl. 4-187.
- Lawson, Ivar S. Composite molding. 2,880,478, 4-7-59, Cl. 20-74.
- Lawson, Ivar S. Method for continuously producing strips of molding of predetermined length from an endless metal ribbon. 2,909,138, 10-20-59, Cl. 113-116.
- Lawson, John D., to Texas Instruments Inc. Navigation system. 2,888,752, 6-2-59, Cl. 33-204.
- Lawson, Paul C., to Pittsburgh Plate Glass Co. Apparatus for bending glass. 2,872,755, 2-10-59, Cl. 49-67.
- Lawson, Robert H., to Scott & Williams, Inc. Circular multi-feed stocking knitting machine. 2,890,577, 6-16-59, Cl. 66-42.
- Lawson, Robert H., and P. W. Bristow, deceased, by M. S. Bristow, executrix, to Scott & Williams, Inc. Knitting machine. 2,912,839, 11-17-59, Cl. 66-14.
- Lawson, Shelby D., to Phillips Petroleum Co. Apparatus for transporting viscous oils. 2,876,081, 3-3-59, Cl. 23-288.
- Lawson, Shelby D., to Phillips Petroleum Co. Separation of solids from fluids. 2,879,224, 3-24-59, Cl. 208-100.
- Lawson, Shelby D., to Phillips Petroleum Co. Two stage catalytic reforming process. 2,890,163, 6-9-59, Cl. 208-65.
- Lawson, Shelby D., to Phillips Petroleum Co. Alkylation of hydrocarbons, with evaporative cooling. 2,894,999, 7-14-59, Cl. 260-683.48.
- Lawson, William A., Jr.: *See*—  
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- Lawter, Ezra R.: *See*—  
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- Lawter, Lee R., 48% to E. R. Lawter. Bait impaling retainer for fishhooks. 2,888,772, 6-2-59, Cl. 43-43.2.
- Lawthers, Dean D., to Westinghouse Electric Corp. Molybdenum base alloys. 2,883,284, 4-21-59, Cl. 75-211.
- Lawton, Elliott J.: *See*—  
Schmitz, John V., and Lawton. 2,900,277.
- Lawton, Elliott J., to General Electric Co. Irradiated polyethylene. 2,906,679, 9-29-59, Cl. 204-154.
- Lawton, Elliott J., and W. T. Grubb, Jr., to General Electric Co. Solid state polymerization. 2,904,481, 9-15-59, Cl. 204-154.
- Lawton, Elliott J., and A. M. Bueche, to General Electric Co. Process of irradiating polyethylene at elevated temperatures. 2,906,678, 9-29-59, Cl. 204-154.
- Lawton, Harold J.: *See*—  
Powell, Ernest F., and Lawton. 2,869,361.
- Lawton, Ledra M., to General Motors Corp. Composition for soldering metal and method for using same. 2,867,037, 1-6-59, Cl. 29-487.
- Lawyers' Co-Operative Publishing Co.: *See*—  
Teiser, Sidney, and Sassaman. 2,897,080.
- Lax, Leona, to Sarong, Inc. Pantie girdle. 2,875,765, 3-3-59, Cl. 128-528.
- Laxo, Ed: *See*—  
Werger, Thomas C., and Laxo. 2,875,564.
- Laxo, Ed. Closing machine. 2,918,888, 12-29-59, Cl. 113-22.
- Laxson, J. T., to Marvel Specialty Co., Inc. Method of inspecting and trimming hosiery and apparatus therefor. 2,869,765, 1-20-59, Cl. 223-43.
- Lay, Clarence M., to Vaughan & Bushnell Mfg. Co. Claw hammer with tubular handle. 2,874,738, 2-24-59, Cl. 145-29.
- Lay, Clarence M., to Vaughan & Bushnell Mfg. Co. Method of forming indestructible type impact tools. 2,884,816, 5-5-59, Cl. 76-103.
- Lay, Clarence M., to Vaughan & Bushnell Mfg. Co. Hammer construction with shock absorbing means. 2,884,969, 5-5-59, Cl. 145-29.
- Lay, Nat, Inc.: *See*—  
Lay, Nathaniel B. 2,887,319.
- Lay, Nathaniel B., to Nat Lay, Inc. Arrow fletchings. 2,887,319, 5-19-59, Cl. 273-106.5.
- Layburn, Robert L., and B. R. Stachiewicz, to General Dynamics Corp. Automatic gain control for transistor receiver circuits. 2,892,932, 6-30-59, Cl. 250-20.
- Layden, Paul W. Sheet feeding system for printing presses and the like. 2,874,962, 2-24-59, Cl. 271-27.
- Layer, Edwin H., and E. R. Olson, to United States of America, Air Force. Apparatus for automatically coating ceramic rods with metal or metal alloy by thermal evaporation. 2,902,972, 9-8-59, Cl. 118-48.
- Layman, Loren J. Button hooks for arm and hand amputees. 2,912,733, 11-17-59, Cl. 24-40.
- Layman, Ralph E., Jr.: *See*—  
Hensley, William L., Kirsch, and Layman. 2,889,293.
- Layman, Ralph E., Jr., to American Cyanamid Co. Resinous reaction product of an aliphatic polycarboxylic acid, certain oil acids, an adduct of ethylene oxide and certain polyhydric alcohols and rosin acids. 2,889,294, 6-2-59, Cl. 260-22.
- Layne, Amos E. Boat trailer. 2,915,209, 12-1-59, Cl. 214-506.
- Layne, Fred A.: *See*—  
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- Layng, Edwin T., to Hydrocarbon Research, Inc. Olefin polymerization process using maintained phosphoric acid catalyst. 2,909,580, 10-20-59, Cl. 260-683.15.



- Layng, Oral W. Camera flash bulb shield and light control unit. 2,879,377, 3-24-59, Cl. 240-1.3.
- Layton, Gerald E., and W. K. Arbuckle. Choked reverse circulating sub. 2,903,074, 9-8-59, Cl. 166-224.
- Layton, J. C.: *See*—  
Stone, Claire E., and Layton. 2,908,450.
- Tucker, Council A., and Layton. 2,908,451.
- Layton, J. C., and R. Shaffer, to Townsaver, Inc. Dispensing machine for strip material. 2,889,147, 6-2-59, Cl. 271-2.3.
- Layton, Kenneth A., to United States of America, Navy. Antenna radiation pattern analyzer. 2,888,673, 5-26-59, Cl. 340-347.
- Layton, William B., Jr., D. S. Miller, and R. W. Smith, to Dumont Corp. Lug box. 2,873,875, 2-17-59, Cl. 220-4.
- Lazar, James, R. J. Zeitler, and C. H. Smith, to Flight Refueling Inc. Ball and socket pipe coupling with lubricated seal. 2,918,313, 12-22-59, Cl. 285-94.
- Lazar, John M. Rotary shaft sealing means. 2,887,332, 5-19-59, Cl. 286-11.14.
- Lazar, John M. Seals. 2,887,335, 5-19-59, Cl. 288-21.
- Lazar, Melvin E.: *See*—  
Powers Myron J., and Lazar. 2,874,059.
- Lazar, Melvin E., and M. J. Powers, to United States of America, Agriculture. Method for preparing unsulphured dehydrated fruits. 2,895,836, 7-21-59, Cl. 99-204.
- Lazar, Melvin E., and A. H. Brown, to United States of America, Agriculture. Spray-drying apparatus. 2,911,036, 11-3-59, Cl. 159-4.
- Lazar, Michael, to Burndy Corp. Axial impact tool for inserting a pin connector into a socket. 2,907,241, 10-6-59, Cl. 81-52.35.
- Lazar, Michael, to Burndy Corp. Wire connector. 2,901,528, 8-25-59, Cl. 174-75.
- Lazar, Michael, and E. T. Salz. Multi-stroke tool. 2,898,790, 8-11-59, Cl. 81-15.
- Lazarites, Webb R.: *See*—  
Pfeiffer, Richard, and Lazarites. 2,883,761.
- Lazarowicz, Gustaw, to Orenda Engines Ltd. Expansion compensating coupling device. 2,868,339, 1-13-59, Cl. 189-36.
- Lazarr, Thaddeus R. L., to Western Electric Co., Inc. Molding apparatus for making work-holding fixtures. 2,880,463, 4-7-59, Cl. 18-39.
- Lazarte, Jorge A.: *See*—  
Baars, Conrad W., and Lazarte. 2,867,342.
- Lazarus, Gerald S.: *See*—  
Boker, Samuel J., Lazarus, and Sassoon. 2,896,533.
- Lazarus, Jack: *See*—  
Saunders, John C., and Lazarus. 2,903,396.
- Lazarus, Max A. Ultrasonic cleaner and degreaser. 2,896,648, 7-28-59, Cl. 134-147.
- Lazo, Mario. Sleeping device. 2,891,252, 6-23-59, Cl. 2-15.
- Lazur, Thomas. Adjustable fishing rod. 2,900,153, 8-18-59, Cl. 248-44.
- Lazzaro, Vincent J. Holder for supporting toilet articles. 2,884,137, 4-28-59, Cl. 211-65.
- Lea, Carlisle G.: *See*—  
Bishop, Lewis H., and Lea. 2,914,189.
- Lea, James P.: *See*—  
Barnes, Marion D., and Lea. 2,887,945.
- Barnes, Marion D., and Lea. 2,887,946.
- Lea, Lawrence. Telephone call tracing and recording system. 2,900,449, 8-18-59, Cl. 179-6.
- Lea Mfg. Co., The: *See*—  
Couch, Earle W., and Candee. 2,904,419.
- Leaberry, Ernest F., H. F. Hendershot, and P. H. Edwards, to The International Nickel Co., Inc. Lining for ingot molds. 2,882,568, 4-21-59, Cl. 22-139.
- Leach, Burleigh H.: *See*—  
Kingston, Donald L., and Leach. 2,917,169.
- Leach, Clayton B.: *See*—  
Lamman, George W., Leach, and Vivian. 2,873,962.
- Leach, Clayton B., to General Motors Corp. Camshaft gallery structure for engines. Re. 24,650, 5-12-59, Cl. 123-41.86.
- Leach, Clayton B., and M. H. Frank, to General Motors Corp. Engine bearings and lubrication system. 2,899,015, 8-11-59, Cl. 184-6.
- Leach Corp.: *See*—  
Adams, Richard L. 2,875,293.
- Schuessler, John C. 2,919,324.
- Leach, Clayton B.: *See*—  
Gorman, Richard M., and Leach. 2,902,102.
- Leach, Clayton B., to General Motors Corp. Valve actuating mechanism for engines. 2,902,014, 9-1-59, Cl. 123-90.
- Leach, Clayton B., to General Motors Corp. Cylinder block. 2,902,021, 9-1-59, Cl. 123-195.
- Leach, Clayton B., to General Motors Corp. Timing chain and fuel pump drive, lubricating means. 2,907,411, 10-6-59, Cl. 184-6.
- Leach, Harry S., and R. M. Eldred, 1/2 to Monsanto Chemical Co., and 1/2 to Heyden Nordre Chemical Corp. Purification of methanol. 2,868,849, 1-13-59, Cl. 260-643.
- Leach, Holt. Joint for adjacent panel members. 2,905,283, 9-22-59, Cl. 189-36.
- Leach, Hugh K., to The Murray Corp. of America. Automatic clock washing machine with water level control. 2,909,050, 10-20-59, Cl. 68-12.
- Leach, James M., to Chas. Pfizer & Co., Inc. Stabilized polycarboxylic acid esters. 2,894,979, 7-14-59, Cl. 260-475.
- Leach, John M. Hook conveyors. 2,884,116, 4-28-59, Cl. 198-177.
- Leach, Lester L.: *See*—  
Clements, Warren F., and Leach. 2,879,006.
- Leach, Robert R., and C. A. Phillips, to United States Rubber Co. Safety boot with metatarsal arch protection. 2,891,327, 6-23-59, Cl. 36-4.
- Leader, Gordon R.: *See*—  
Hyman, Herbert H., and Leader. 2,894,816.
- Leading Lady Foundations, Inc.: *See*—  
Farino, Frank. 2,890,702.
- Leadon, Bernard M.: *See*—  
Werner, Frank D., and Leadon. 2,878,055.
- Leahy, James F., and F. C. Merriam, to United Shoe Machinery Corp. Water vapor permeable, waterproof materials. 2,883,316, 4-21-59, Cl. 154-50.
- Leahy, James F., and C. B. Noonan, to United Shoe Machinery Corp. Fastening machines. 2,890,481, 6-16-59, Cl. 18-1.
- Leahy, James F., and J. P. Szumski, to United Shoe Machinery Corp. Rubber-resin cutting pads and methods of mixing and milling rubber-resin compositions. 2,912,388, 11-10-59, Cl. 252-511.
- Leake, James M. Stamped valve rotator cage. 2,875,740, 3-3-59, Cl. 123-90.
- Leake, Norman H., and M. L. Fielden, to The S. E. Massengill Co. Theophylline derivatives. 2,887,486, 5-19-59, Cl. 260-253.
- Leaman, Raymond J., and H. Feige, to Baker Perkins Inc. Article transfer apparatus. 2,883,032, 4-21-59, Cl. 198-24.
- Leaman, Raymond J., and H. Feige, to Baker Perkins Inc. Conveyor apparatus. 2,888,126, 5-26-59, Cl. 198-27.
- Leanza, William J., to Merck & Co., Inc. 1-etherified oxyalkyl imidazole-5-dicarboxamides, intermediates and process. 2,897,205, 7-28-59, Cl. 260-309.
- Leaper, Joseph M. F., J. R. Bishop, and W. P. Anderson, to Amchem Products, Inc. Method of eradicating weeds. 2,904,422, 9-15-59, Cl. 71-2.3.
- Lear, Earl B., to Chicago Pneumatic Tool Co. Rife nut retainer for rock drill. 2,910,046, 10-27-59, Cl. 121-7.
- Lear, Earl B., and G. E. Douglas, to Chicago Pneumatic Tool Co. Wheel lock. 2,901,260, 8-25-59, Cl. 280-29.
- Lear, Floyd R., Sr., to Industrial Gravure Co. Etching machine. 2,879,616, 3-31-59, Cl. 41-9.
- Lear, Inc.: *See*—  
Aktinson, Donald L., and Curriston. 2,898,765.
- Blanding, Leonard C. 2,874,362.
- Carr, William F. 2,877,366.
- Collins, Donald G. 2,898,423.
- Curriston, Loren E. 2,867,405.
- Curriston, Loren E. 2,887,875.
- Demetriades, Anthony. 2,870,601.
- Henszey, Robert T. 2,867,731.
- Hinsdale, James G. 2,897,379.
- Lear, William P. 2,867,392.
- Lear, William P., Sr. 2,875,419.
- McMurren, Irving B. 2,874,293.
- Moody, Steven M. 2,903,110.
- Moody, Steven M. 2,903,867.
- Pittman, Roland. 2,898,766.
- Schoeppel, John F. 2,906,128.
- Schoeppel, John F., and Critoph. 2,909,064.
- Schoeppel, John F., Varner, and Herr. 2,899,393.
- Wennerberg, Gunnar. 2,885,645.
- Wennerberg, Gunnar. 2,915,723.
- Lear, William P., to Lear, Inc. Boundary layer control for aircraft. 2,867,392, 1-6-59, Cl. 244-42.
- Lear, William P., Sr., to Lear, Inc. Tunable radio frequency coils. 2,875,419, 2-24-59, Cl. 336-83.
- Leary, Harold H. Apparatus for cleaning materials. 2,881,610, 4-14-59, Cl. 68-158.
- Leary, Joseph A.: *See*—  
Reavis, James G., Leary, and Walsh. 2,886,410.
- Leary, Robert F.: *See*—  
Banes, Fred W., Nelson, and Leary. 2,894,937.
- Bowman, Lewis W., and Leary. 2,874,153.
- Bowman, Lewis W., Leary, and McCulloch. 2,890,187.
- Leasure, William C., to Mira-Pak, Inc. Apparatus for packaging. 2,899,875, 8-18-59, Cl. 93-82.
- Leather Research Corp.: *See*—  
Kremen, Seymour S., and Southwood. 2,917,833.
- Leatherbury, John: *See*—  
Wagener, Harold L. 2,887,981.
- Leatherman, Gerald T., and C. V. Dettler, to Phillips Petroleum Co. Polyethylene-wax composition and process of blending same. 2,882,246, 4-14-59, Cl. 260-28.5.
- Leatherman, Gerald T., and C. V. Dettler, to Phillips Petroleum Co. Polymerization process. 2,915,513, 12-1-59, Cl. 260-94.9.
- Leathers, Clarence H.: *See*—  
Von Almen, Russell S., and Leathers. 2,898,082.
- Leathers, Clarence H., and R. K. Shellman, to MacClatchie Mfg. Co. Pipe wiper. 2,883,693, 4-28-59, Cl. 15-210.
- Leathers, Clarence H., and R. K. Shellman, to MacClatchie Mfg. Co. Pump valves. 2,888,238, 5-26-59, Cl. 251-358.
- Leathers, Joel F. M., and B. Posey, Jr., to The Dow Chemical Co. Inhibition of HCl-olefin reaction. 2,905,726, 9-22-59, Cl. 260-654.
- Leathers, Ward, to Burroughs Corp. Wire printer with oscillatory print head. 2,911,085, 11-3-59, Cl. 197-1.
- Leatherwood, Clyde A.: *See*—  
Bludworth, Joseph E., and Leatherwood. 2,911,067.
- Leatherwood, Tommie L. Bonnet. 2,881,449, 4-14-59, Cl. 2-204.



- Leavens, William B., Jr., to Wilkata Codes, Inc. Photoelectric scanning device. 2,872,590, 2-3-59, Cl. 250-219.
- Leavin, Samuel B.: *See*—  
Aversa, Joseph. 2,867,829.  
Aversa, Joseph. 2,913,750.
- Leavin, William H.: *See*—  
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Aversa, Joseph. 2,913,750.
- Leavitt, Cyril E., and C. E. Whitehurst. Sectional ladders. 2,900,041, 8-18-59, Cl. 182-178.
- Leavitt, Julian J.: *See*—  
Brody, Frederick, and Leavitt. 2,901,485.
- Leavitt, Lester W. Portable fork lift truck. 2,894,605, 7-14-59, Cl. 187-11.
- Leavitt, Lionel E., to Sperry Rand Corp., Ford Instrument Co. Division. Induction motor reverser. 2,916,683, 12-8-59, Cl. 318-207.
- Leavitt Machine Co.: *See*—  
Ralys, Stanley C. 2,886,128.
- Leavy, Helen D.: *See*—  
Merriman, Henry H., and Leavy. 2,914,229.
- Le Baron, Ira M.: *See*—  
Oberg, Fred N., and Le Baron. 2,868,618.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Granular dicalcium phosphate product and method for the production thereof. 2,882,127, 4-14-59, Cl. 23-109.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Beneficiation of minerals. 2,889,042, 6-2-59, Cl. 209-127.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Electrostatic method and apparatus for beneficiating minerals. 2,899,055, 8-11-59, Cl. 209-127.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Method of preparing defluorinated material. 2,889,200, 6-2-59, Cl. 23-109.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Process for producing defluorinated phosphate material. 2,889,217, 6-2-59, Cl. 71-47.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Salad dressing. 2,893,874, 7-7-59, Cl. 99-144.
- Le Baron, Ira M., to International Minerals & Chemical Corp. Method of processing phosphate ore to recover metallic minerals. 2,914,173, 11-24-59, Cl. 209-166.
- Le Baron, Ira M., and E. Northcott, to International Minerals & Chemical Corp. Process for treating fluorine-containing phosphatic materials. 2,895,799, 7-21-59, Cl. 23-109.
- Le Baron, Theodore, and E. B. Dodds, to Better Packages, Inc. Electrically controlled strip serving machine. 2,892,500, 6-30-59, Cl. 164-49.
- Le Barre, Robert M. Upholstered cushions and equipment for upholstering the same. 2,870,824, 1-27-59, Cl. 155-182.
- Lebedeff, Yurii E., and W. H. Wetherill, to American Smelting and Refining Co. Removal of germanium values from copper-bearing materials containing same. 2,889,196, 6-2-59, Cl. 23-17.
- Lebedinsky Myron, to Societe Anonyme de Telecommunications. Equipment for telecommunications by means of hertzian beams. 2,904,725, 9-15-59, Cl. 317-99.
- Lebenbaum, Matthew T., to United States of America, Air Force. Phase detector circuit. 2,890,329, 6-9-59, Cl. 250-27.
- Lebenbaum, Paul, Jr.: *See*—  
Nottelmann, John F., and Lebenbaum. 2,916,177.
- Leber, Felix. Selector actuator arrangement. 2,876,305, 3-3-59, Cl. 200-46.
- Leber, Felix. Electromagnetic control device. 2,895,089, 7-14-59, Cl. 317-165.
- Lebermann, August A. Device for actuating hookless closures. 2,888,728, 6-2-59, Cl. 24-205.15.
- Lebiedzinski, Frank S. Earthworm trap and breeding box. 2,867,055, 1-6-59, Cl. 43-55.
- Le Bihan, Henri: *See*—  
Braconier, Frederic F. A., Le Bihan, and Arnould. 2,876,265.
- Le Blan, Louis: *See*—  
Boutry, Georges A., and Le Blan. 2,907,830.
- Le Blan, Louis, to North American Philips Co., Inc. Transmission system for television signals. 2,877,290, 3-10-59, Cl. 178-5.2.
- Le Blanc, Hynolite A., Jr., to Shell Development Co. Transport of finely divided solids. 2,913,281, 11-17-59, Cl. 302-35.
- Le Blanc, Osiias J.: *See*—  
Cederlund, Albert, Kimmel, and Le Blanc. 2,897,848.
- Le Blanc, Walter J.: *See*—  
Black, Paul F., Gill, and Le Blanc. 2,916,816.
- Leblang, William M., to Hatfield Electric Co. Cable support structure. 2,899,159, 8-11-59, Cl. 248-49.
- Leblond, André, to Compagnie Generale de Telegraphie Sans Fil. Delay lines for high power discharge tubes. 2,879,437, 3-24-59, Cl. 315-3.5.
- Leblond, Andre, to Compagnie Generale de Telegraphie Sans Fil. Semi-conductor oscillators. 2,891,160, 6-16-59, Cl. 250-36.
- Le Blond, R. K., Machine Tool Co., The: *See*—  
Carlstedt, Ragnar L. 2,891,424.  
Carlstedt, Ragnar L. 2,903,915.  
Carlstedt, Ragnar L. 2,903,916.  
Carlstedt, Ragnar L. 2,903,917.
- Lebo Press Co.: *See*—  
Lebovitz, Morris. 2,916,986.
- Le Bolt, John M., L. I. Minow, and M. Stritof, Jr., to The Cromwell Paper Co. Non-slip bag. 2,917,223, 12-15-59, Cl. 229-53.
- Le Bon, Charles B., III, to Arcadia Metal Products, Inc. Weatherseal construction for closure means. 2,889,585, 6-9-59, Cl. 20-19.
- Le Bon, Charles B., III, to Arcadia Metal Products. Protective barrier means for door frame construction. 2,917,789, 12-22-59, Cl. 20-11.
- Lebourg, Maurice P.: *See*—  
Saurenman, Dean F., and Lebourg. 2,876,413.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Flowmeter. 2,868,012, 1-13-59, Cl. 73-155.
- Lebourg, Maurice P., to Borg-Warner Corp. Method and apparatus for detonating explosive devices in bore holes. 2,873,675, 2-17-59, Cl. 102-20.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Well methods and apparatus. 2,888,078, 5-26-59, Cl. 166-27.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 2,903,068, 9-8-59, Cl. 166-100.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Methods for investigating wells. 2,906,944, 9-29-59, Cl. 324-34.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Bore hole apparatus. 2,909,120, 10-20-59, Cl. 102-20.
- Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Formation fluid samplers. 2,915,123, 12-1-59, Cl. 166-63.
- Lebourg, Maurice P., and R. Q. Fields, to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations. 2,903,069, 9-8-59, Cl. 166-100.
- Lebovitz, Morris, to Lebo Press Co. Machine for stripping frozen fish. 2,916,986, 12-15-59, Cl. 100-94.
- Le Bron, Inc.: *See*—  
Le Bron, Richard C. 2,918,196.
- Le Bron, Richard C., to Le Bron, Inc. Canned foods dispensing cabinet. 2,918,196, 12-22-59, Cl. 221-124.
- Le Brun, George K., and A. H. Terrell. Filter. 2,895,565, 7-21-59, Cl. 183-51.
- Lebsanft, Kurt, and E. Schmidt, to Wacker-Chemie G.m.b.H. Process for cleaning objects. 2,901,383, 8-25-59, Cl. 134-7.
- Le Bus, Franklin L., Sr., to Wash Overshot & Spear Engineers, Inc. Releasable fishing apparatus. 2,879,849, 3-31-59, Cl. 166-103.
- Le Bus, Franklin L., Sr. Slip joints. 2,886,289, 5-12-59, Cl. 255-28.
- Le Bus, Franklin L., Sr., to The Wash Overshot and Spear Engineers, Inc. Combined fishing tool and reaming apparatus. 2,887,161, 5-19-59, Cl. 166-103.
- Le Bus, Franklin L., Sr., to Wash Overshot & Spear Engineers, Inc. Automatic releasable fishing apparatus. 2,887,162, 5-19-59, Cl. 166-103.
- Le Bus, Franklin L., Sr. Automatic slip joints. 2,918,259, 12-22-59, Cl. 255-28.
- Lechene, Leo L. Street gutter broom. 2,917,767, 12-22-59, Cl. 15-180.
- Lecher, Hans Z., and R. A. Greenwood, to American Cyanamid Co. Preparation of phosphonothioic dichlorides, tetrachlorophosphoranes, and phosphonic dichlorides. 2,870,204, 1-20-59, Cl. 260-543.
- Lecher, Hans Z., and E. M. Hardy, to American Cyanamid Co. Preparation of tetraalkyl-isothioureas. 2,872,484, 2-3-59, Cl. 260-564.
- Lecher, Hans Z., and E. M. Hardy, to American Cyanamid Co. Acyl pentaalkylguanidonium salts. 2,878,272, 3-17-59, Cl. 260-404.5.
- Lecher, Hans Z.: *See*—  
Whitehouse, Karl C., and Lecher. 2,894,024.
- Lechner, Herbert, to Arnold & Richter K. G. Method and means of conveying carrier strips carrying layers to be treated chemically and/or physically, especially layers consisting of light-sensitive emulsion, through at least one treating device. 2,869,865, 1-20-59, Cl. 271-2.3.
- Leckie, Claude P. Lead lines for fish nets. 2,894,366, 7-14-59, Cl. 57-149.
- Leckler, Harry H., to The Warner & Swasey Co. Reversing coiler drive. 2,873,485, 2-17-59, Cl. 19-159.
- Leclabart, Jean. Hair-curlers. 2,892,460, 6-30-59, Cl. 132-41.
- Le Claire, Harry W.: *See*—  
Foote, Francis S., Jr., and Le Claire. 2,884,295.
- Leclercq, René, and R. O. Paquet, to Union Chimique Belge S. A. Process for the preparation of resins from abietyl alcohols. 2,867,644, 1-6-59, Cl. 260-453.
- Lecluyse, Edouard: *See*—  
Quinche, Albert, and Lecluyse. 2,883,706.  
Quinche, Albert, and Lecluyse. 2,911,971.
- Lecluyse, Edouard, B. Dewey, and A. Quinche, to American Can Co. Method for printing and forming non-circular tubular plastic bodies. 2,913,768, 11-24-59, Cl. 18-47.5.
- Le Comte, Corstiaan, to North American Philips Co., Inc. Circuit arrangement in radar receivers for controlling the deflection of the cathode-rays in cathode-ray tube indicators. 2,912,618, 11-10-59, Cl. 315-27.
- Leconte, Andre A., to Chauvin d'Arnoux, Societe Anonyme. Protective devices for electrical measurement installations. 2,917,603, 12-15-59, Cl. 200-106.
- Lecoultré, Edgar, to Thorens S.A. Clockwork music movement. 2,884,827, 5-5-59, Cl. 84-95.



- Lecours, Adrien. Multiple cap remover. 2,876,665, 3-10-59, Cl. 81—332.
- Le Craw, Roy C.: *See—*  
 Reggia, Frank, and LeCraw. 2,906,974.  
 Sullivan, Robert F., and LeCraw. 2,908,878.
- Lecton, Frank J.: *See—*  
 Fantl, Joel, Lecton, and Rider. 2,890,948.
- Leda Chemicals Ltd.: *See—*  
 Elton, George A. H. 2,895,679.
- Ledbetter, Harvey D.: *See—*  
 Gurgio, Arthur E., and Ledbetter. 2,911,377.
- Ledbetter, James D., H. J. Kircher, III, and R. J. Novotny, to Thiokol Chemical Corp. Nozzle. 2,894,692, 7-14-59, Cl. 239—75.
- Ledbetter, Jerry T.: *See—*  
 Bauer, Robert F., McNeill, and Ledbetter. 2,909,359.
- Le Deit, Camille F. Sprinkler head. 2,903,190, 9-8-59, Cl. 239—276.
- Leder, Chester R.: *See—*  
 Barnhart, William S., Travis, and Leder. 2,909,503.
- Lederer, Albrecht M. Golf practicing machine. 2,879,996, 3-31-59, Cl. 273—35.
- Lederer, Ernest A.: *See—*  
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- Lederer, Ernest A., to Westinghouse Electric Corp. Automatic assembly of radio-tube mounts. 2,888,589, 5-26-59, Cl. 313—261.
- Lederer, Ernest A., to Westinghouse Electric Corp. Getter for electron discharge device. 2,899,257, 8-11-59, Cl. 316—25.
- Lederer, Ernest A., to Westinghouse Electric Corp. Color television screen. 2,915,661, 12-1-59, Cl. 313—73.
- Lederer, Frederick B., Sr.: *See—*  
 Jordan, Elfred A., and Lederer. 2,880,125.  
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- Lederer, Robert C., to Bendix-Westinghouse Automotive Air Brake Co. Combined relief valve and low pressure indicator. 2,895,504, 7-21-59, Cl. 137—539.
- Lederle, Henry F., and R. H. Elkins, to Sinclair Refining Co. Process for oxidizing durenene to durylic acid. 2,892,868, 6-30-59, Cl. 260—524.
- Lederman, Burton E., to Midland Chemical Corp. Air drying wrinkle coating composition containing epoxy resin esters. 2,867,591, 1-6-59, Cl. 260—18.
- Lederman, Burton E., to Commonwealth Engineering Corp. Hammered metal finish compositions and method of making the same. 2,873,261, 2-10-59, Cl. 260—18.
- Lederman, Samuel, and W. R. MacLean, to United States of America, Air Force. Method of improving induction heating efficiency. 2,899,525, 8-11-59, Cl. 219—1041.
- Ledford, Clifford C. Brake adjusting tool. 2,905,036, 9-22-59, Cl. 81—90.
- Ledford, Raymond F.: *See—*  
 Schmidt, Henry, Jr., and Ledford. 2,901,115.
- Ledgerwood, Robert W., to Roll-Away Truck Mfg. Co., Inc. Transfer truck. 2,899,010, 8-11-59, Cl. 182—118.
- Leditschke, Heinrich: *See—*  
 Ruschig, Heinrich, Siedel, Leditschke, Schorr, Schmidt-Barbo, and Lammler. 2,875,205.
- Ledrut, Jules H. T., to Egema S.A.R.L. Addition compounds of trisubstituted pyrazolone aldehydes with phenolic acid compounds. 2,891,070, 6-16-59, Cl. 260—311.
- Leduc, Joseph A. M., to Diamond Alkali Co. Metal drawing lubricant. 2,870,903, 1-27-59, Cl. 205—21.
- Leduc, Rene. Apparatus for controlling the speed of jet aircraft. 2,895,692, 7-21-59, Cl. 244—76.
- Leduc, Rene. Pressure fluid follow-up servomotor system. 2,909,156, 10-20-59, Cl. 121—41.
- Ledwan, Norman H.: *See—*  
 Larkin, Stephen A., and Ledwan. 2,890,069.
- Ledwell, James W., to United States Trust Co. of New York. Method of manufacturing a knit stocking. 2,903,872, 9-15-59, Cl. 66—187.
- Lee, Arnold S. J. Respirable gas administration apparatus. 2,915,056, 12-1-59, Cl. 128—29.
- Lee, Arthur L., to Consolidation Coal Co. Mine haulage vehicle. 2,907,227, 10-6-59, Cl. 74—472.
- Lee, Arthur L., to Consolidation Coal Co. Mine haulage vehicle. 2,912,184, 11-10-59, Cl. 242—8651.
- Lee, Arthur L., to Consolidated Coal Co. Mining machine. 2,917,282, 12-15-59, Cl. 255—51.
- Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Wear compensating means. 2,915,146, 12-1-59, Cl. 188—72.
- Lee, Burton D.: *See—*  
 Clements, Roy J., Loofbourrow, and Lee. 2,914,686.  
 Itria, Oswald A., and Lee. 2,908,342.
- Lee, Burton D., to The Texas Co. Seismic prospecting. 2,871,461, 1-27-59, Cl. 340—15.
- Lee, Catherine W. Safety garment and belt for infants. 2,868,194, 1-13-59, Cl. 128—134.
- Lee, Charles A.: *See—*  
 Johnson, Charles G., and Lee. 2,881,674.
- Lee, Charles A., to Kimberly-Clark Corp. Flow control apparatus. 2,884,061, 4-28-59, Cl. 162—317.
- Lee, Dolores, R.: *See—*  
 Lee, Ferman N. 2,877,460.  
 Lee, Ferman N., MacKenzie, D'Arcey, and Cicchetti. 2,904,788.
- Lee, Earnest M., to Roll-O-Matic Chain Co. Chain gate for open top trucks. 2,886,105, 5-12-59, Cl. 160—328.
- Lee, Edgar D., Jr., to Lee-Rowan Co. Finger lock for trouser creaser. 2,886,360, 5-12-59, Cl. 287—58.
- Lee, Edwin C., to International Standard Electric Corp. Flexible connecting means for anchoring a submarine cable to a repeater housing. 2,877,031, 3-10-59, Cl. 287—85.
- Lee, Emory C., to Elgin National Watch Co. Crystal tool for watches and like devices. 2,908,967, 10-20-59, Cl. 29—210.
- Lee, Ferman N., deceased (by D. R. Lee, executrix), and L. E. Proulx, to United Shoe Machinery Corp. Heel attaching machines. 2,877,460, 3-17-59, Cl. 1—32.
- Lee, Ferman N., deceased, by D. L. Lee, executrix, W. F. MacKenzie, A. C. D'Arcey, and A. G. Cicchetti, to United Shoe Machinery Corp. Heel attaching machines and work conveying means for use therewith. 2,904,788, 9-22-59, Cl. 1—104.
- Lee Foundation for Nutritional Research: *See—*  
 Lee, Royal. 2,891,207.
- Lee, Fred A., to International Harvester Co. Motor vehicle fender locking means. 2,868,310, 1-13-59, Cl. 180—89.
- Lee, Geoffrey P., to Imperial Chemical Industries Ltd. Blends of rubbery materials with resinous styrene-butadiene copolymers. 2,880,185, 3-31-59, Cl. 260—4.
- Lee, Glendon T. Display apparatus. 2,901,847, 9-1-59, Cl. 40—31.
- Lee, Harley C.: *See—*  
 Eels, Howard P., Jr., Pearson, and Lee. 2,898,194.
- Lee, Harold G.: *See—*  
 Rinker, Lyman E., and Lee. 2,870,640.
- Lee, Harry E., to St. Regis Paper Co. Valve bag with pasted end closure. 2,891,716, 6-23-59, Cl. 229—625.
- Lee, Harry W. Oil skimmer and separator vessel. 2,876,903, 3-10-59, Cl. 210—242.
- Lee, Helen, to S.D.S. Inc. Brassieres. 2,883,988, 4-28-59, Cl. 128—470.
- Lee, Henry H., R. F. Berger, and F. E. Gilmore, to Phillips Petroleum Co. Hydrocarbon conversion process with an improved control system and method of operating supercharged engines. 2,905,627, 9-22-59, Cl. 208—103.
- Lee, Herbert C., and W. F. Allenby; said Allenby assor. to said Lee. Recorders. 2,911,144, 11-3-59, Cl. 235—61.
- Lee, Jack C. Truck safety braking means. 2,887,185, 5-19-59, Cl. 188—4.
- Lee, Jack C. Arc welder. 2,890,323, 6-9-59, Cl. 219—130.
- Lee, James A.: *See—*  
 Da Costa, Harry, and Lee. 2,896,953.
- Lee, John: *See—*  
 Gardner, Thomas S., Lee, and Wenis. 2,908,688.
- Lee, John C.: *See—*  
 Zieg, Clifford V., Lee, and Lambert. 2,918,878.
- Lee, John M.: *See—*  
 Walter, Ned F., Waters, and Lee. 2,888,490.
- Lee, Katherine L.: *See—*  
 Lee, Louis L. 2,913,712.
- Lee, Koung-Shin. Graphical instrument. 2,867,906, 1-13-59, Cl. 33—93.
- Lee, Leighton, II. Speed-responsive control. 2,887,119, 5-19-59, Cl. 137—48.
- Lee, Lester D. Apparatus for separating particles from liquid. 2,907,461, 10-6-59, Cl. 210—138.
- Lee, Lloyd L., to Omer E. Robbins Co. Needle bearing assembly machine. 2,890,518, 6-16-59, Cl. 29—201.
- Lee, Louis L., deceased, by K. L. Lee, administratrix. Anti-shoelifting alarm device. 2,913,712, 11-17-59, Cl. 340—280.
- Lee, Luther E. Fluid pressure seal. 2,877,070, 3-10-59, Cl. 309—23.
- Lee, Luther E. Fluid operated valve. 2,882,930, 4-21-59, Cl. 137—620.
- Lee, Luther E. Machine tool. 2,889,754, 6-9-59, Cl. 90—16.
- Lee, Luther E. Fluid control system for machine tools. 2,897,790, 8-4-59, Cl. 121—45.
- Lee, Lyman S., and H. L. Hayden, to Jack & Heintz, Inc. Torque sensing brake release mechanism. 2,905,289, 9-22-59, Cl. 192—2.
- Lee, Maurice W., Sr. Aromatic pressure cooker and smoker. 2,906,191, 9-29-59, Cl. 99—259.
- Lee, Milford R.: *See—*  
 Doty, William E. N., and Lee. 2,874,795.
- Lee, Mortimer, to Northrop Corp. Camera correlation system. 2,891,439, 6-23-59, Cl. 88—16.
- Lee, Myron J. Molding and sealing cap for pipes. 2,914,832, 12-1-59, Cl. 25—118.
- Lee, Norman, to The Keelavite Co. Ltd. Flow control valves and apparatus embodying such valves. 2,881,793, 4-14-59, Cl. 137—501.
- Lee, Oran O.: *See—*  
 Mahan, Laban A., and Lee. 2,911,922.
- Lee, Pyungtoo W., to The Dentists' Supply Co. of New York. Porcelain type denture composition. 2,897,595, 8-4-59, Cl. 32—8.
- Lee, Pyungtoo W., and G. Müller, to Dentists' Supply Co. of New York. Fluorescent artificial teeth. 2,895,050, 7-14-59, Cl. 250—71.
- Lee, Ray E.: *See—*  
 Deise, Louis F., and Lee. 2,883,524.
- Lee, Ray H., to Chromatic Television Laboratories, Inc. Distortion correction in cathode-ray tubes. 2,890,379, 6-9-59, Cl. 315—14.
- Lee, Richard. Window screen. 2,892,498, 6-30-59, Cl. 160—369.



- Lee, Richard J., R. I. Kallman, T. M. Steinbach, and R. F. Stoming, to The Dow Chemical Co. Dispensing container for rolls of sheet wrapping material. 2,890,822, 6-16-59, Cl. 225-51.
- Lee, Robert C.: *See*—  
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- Lee, Robert E. Liquid wax applicator. 2,904,812, 9-22-59, Cl. 15-138.
- Lee, Robert E., and I. A. Benjamin, to Granite City Steel Co. Floor structure having electrical conduits. 2,912,848, 11-17-59, Cl. 72-16.
- Lee, Robert J., J. T. Kelly, and H. M. Knight, to The American Oil Co. Depolyalkylation process for producing para-butyl toluene. 2,918,504, 12-22-59, Cl. 260-671.
- Lee, Robert L. Mechanically operated amusement device. 2,882,051, 4-14-59, Cl. 272-53.1.
- Lee-Rowan Co.: *See*—  
Lee, Edgar D., Jr. 2,886,360.
- Lee, Roy, Jr., to Phillips Petroleum Co. Manufacture of phosphoric acid. 2,887,362, 5-19-59, Cl. 23-165.
- Lee, Royal. Variable speed transmissions. 2,868,039, 1-3-59, Cl. 74-798.
- Lee, Royal, to Lee Foundation for Nutritional Research. Synchronous electric motors. 2,891,207, 6-16-59, Cl. 318-186.
- Lee, Samuel: *See*—  
Chase, Fletcher A., Lee, and Montgomery. 2,911,302.
- Lee, Shih-Ying: *See*—  
Li, Yao T., and Lee. 2,913,693.
- Lee, Shih-Ying, to Research Corp. Valves and method of making same. 2,875,782, 3-3-59, Cl. 137-622.
- Lee, Shih-Ying, and Y. T. Li. Strain gage transducer. 2,913,692, 11-17-59, Cl. 338-6.
- Lee, Thomas H.: *See*—  
Burch, James R., and Lee. 2,882,457.  
Greenwood, Allan, Lee, and Schneider. 2,892,912.
- Lee, Thomas H., to General Motors Corp. Ground spring clip. 2,911,608, 11-3-59, Cl. 339-14.
- Lee, Walter, to The Black & Decker Mfg. Co. Hedge trimmer attachment. 2,882,596, 4-21-59, Cl. 30-216.
- Lee, Walter J., to The Goodyear Tire & Rubber Co. Tubeless tire valve. 2,917,097, 12-15-59, Cl. 152-427.
- Lee, Warren G., to General American Transportation Corp. Processes of continuous chemical nickel plating. 2,872,354, 2-3-59, Cl. 117-130.
- Lee, Wilbur J., and J. M. Egly, to United States of America, Army. Mount for helmet headband suspensions. 2,892,194, 6-30-59, Cl. 2-3.
- Lee, Wilfred J.: *See*—  
Stephenson, Revis L., and Lee. 2,898,078.
- Lee, William H. Securing of insert elements in grilles and the like. 2,916,113, 12-8-59, Cl. 189-84.
- Lee, William W.: *See*—  
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Brown, Arthur G., Lee, and Sancier. 2,913,460.
- Leece-Neville Co., The: *See*—  
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Halliday, William M. 2,875,356.  
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Halliday, William M. 2,884,549.  
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Orvis, Elmer P. 2,907,943.  
Zenner, Raymond E., and Bergslien. 2,877,404.
- Leech, Donald J., to Normalair Ltd. Automatic air flow controllers. 2,902,915, 9-8-59, Cl. 98-1.5.
- Leech, Harold C., to Sytonex (Pty) Ltd. Aeration of liquids. 2,912,018, 11-10-59, Cl. 141-18.
- Leed Research Co.: *See*—  
Krukowski, Richard E. 2,886,624.
- Leeder, George S.: *See*—  
Thompson, William E., and Leeder. 2,911,384.
- Leeder, Jacob, to United States of America, Air Force. Electronic scaling apparatus in analog computers. 2,913,181, 11-17-59, Cl. 235-194.
- Leadham, Kenneth, and P. J. Garner to Shell Development Co. Iron carbonyl-cyclopentadiene complexes. 2,898,359, 8-4-59, Cl. 260-439.
- Leeds, Charles M., H. B. Hoff, W. M. Pellno, and J. Johansen, to Servo Electronic Switch and Signal Co. Supervisory remote control and signalling system. 2,883,647, 4-21-59, Cl. 340-163.
- Leeds, Laurence M., to General Electric Co. Automatic frequency control. 2,912,651, 11-10-59, Cl. 331-17.
- Leeds and Northrup Co.: *See*—  
Bristol, Edward S. 2,895,056.  
Clark, William R. 2,884,788.  
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Eckfeldt, Edgar L. 2,886,496.  
Eckfeldt, Edgar L., and Kuczynski. 2,888,640.  
Kraftson, Harry A., and Yard. 2,895,335.  
Machler, Raymond C., and Fastie. 2,912,862.  
McAdam, Will, and Moore. 2,901,563.  
Paschakis, Albert E. 2,904,734.  
Polster, Norman E. 2,895,078.  
Weiss, Edward L. 2,868,063.  
Williams, Albert J., Jr. 2,919,409.
- Leeds, Winthrop M., to Westinghouse Electric Corp. Circuit interrupters. 2,913,556, 11-17-59, Cl. 200-145.
- Leek, Nathaniel L. Multiplex transmission system. 2,878,318, 3-17-59, Cl. 179-15.
- Leek, Nathaniel L. Multiplex transmission system. 2,878,319, 3-17-59, Cl. 179-15.
- Leek, Wayne E.: *See*—  
Crittendon, Lexie R., Hailston, Haskell, Kelly, and Leek. 2,891,341.
- Leeman, Jan N. J., to Stamicarbon N.V. Apparatus for separating mixtures into a fraction containing particles of low specific gravity and another fraction containing particles of high specific gravity. 2,917,172, 12-15-59, Cl. 209-172.5.
- Leeper, Robert W., and V. C. Fusco, to Olin Mathieson Chemical Corp. Promotion of flowering on pineapple plants. 2,876,090, 3-3-59, Cl. 71-2.7.
- Lees, James, and Sons Co.: *See*—  
Austin, Emmett K., Jr., and Reid. 2,876,616.  
Ballard, Hyde W. 2,874,725.  
Berry, Charles C. 2,870,795.  
Janney, Thomas T., and Klein. 2,876,525.  
Moonan, Philip F. 2,884,960.  
Nowicki, Henry F. 2,884,680.  
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Oberholtzer, Robert E. 2,884,881.  
Smiley, Harry J. 2,874,724.  
Smith, John E. 2,879,730.
- Leete, Bernard D., to General Electric Co. Apparatus for measuring magnetic fields. 2,916,690, 12-8-59, Cl. 324-5.
- Leetronics, Inc.: *See*—  
Lutz, Frederick W. 2,900,116.
- Lefcourt, Leonard H. Foldable mat with disengageable indicia. 2,875,541, 3-3-59, Cl. 40-140.
- Lefebvre, Albert,  $\frac{1}{2}$  to W. Jakober. Safety unit. 2,867,020, 1-6-59, Cl. 24-134.
- Le Febvre, Alfred L., to Stanley Home Products, Inc. Mop having interior means for a handle or the like. 2,880,443, 4-7-59, Cl. 15-244.
- Lefebvre, Fredrick L. Ignition proof heater. 2,894,107, 7-7-59, Cl. 219-34.
- Lefebvre, Frank J.: *See*—  
Volckening, Lloyd I., O'Meara, and Lefebvre. 2,877,893.
- Lefebvre, Jean M. Method for the manufacture of cartridge cases for firearms. 2,890,615, 6-16-59, Cl. 86-10.
- Le Feuvre, Charles W.: *See*—  
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- Lefevre, Beauman: *See*—  
Watts, John D., Lefevre, and Hill. 2,867,453.
- Leferdink, Theodore B.: *See*—  
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- Leffer, Frederick A. W., to Universal Oil Products Co. Conversion of heavy hydrocarbonaceous material to lower boiling products. 2,917,451, 12-15-59, Cl. 208-81.
- Lefterdink, Theodore B., and T. G. Traylor, to The Dow Chemical Co. Method for stabilizing polyvinylpyrrolidone and compositions thereby obtained. 2,882,253, 4-14-59, Cl. 260-29.6.
- Leffingwell Chemical Co.: *See*—  
Allison, John R. 2,883,341.  
Allison, John R. 2,899,389.
- Leffler, Nils G., to Sands Verkstäder Aktiebolag. Feeding mechanism in barking machines. 2,891,589, 6-23-59, Cl. 144-247.
- Leffler, Willard B.: *See*—  
Fayzant, Henry H., and Leffler. 2,890,677.
- Lefler, Clifford C.: *See*—  
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- Leflet, Herbert A., Jr.: *See*—  
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- Leflon, Henry. Fasteners for conveyor belts and the like. 2,896,282, 7-28-59, Cl. 24-33.
- Le Foll, Jean: *See*—  
Kadosch, Marcel, Le Foll, Maunoury, and Bertin. 2,868,479.
- Lefranc, Felix R., to F. Aubry. Atomizers. 2,898,050, 8-4-59, Cl. 239-361.
- Le Francois, John E., to United States of America, Navy. Torpedo casing. 2,890,670, 6-16-59, Cl. 114-22.
- Lefrancois, Philip A.: *See*—  
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Burton, William P., Lefrancois, and Riblett. 2,914,464.  
Riblett, Earl W., Burton, Kaufman, and Lefrancois. 2,913,398.
- Leftwich, Robert F., to Sayre & Fisher Co. Sintering apparatus. 2,901,236, 8-25-59, Cl. 266-21.
- Legary, Adam H. Grain swath pick-up assembly for combines and the like. 2,873,568, 2-17-59, Cl. 56-345.
- Legat, Robert C. Adjustable fastening device. 2,875,492, 3-3-59, Cl. 24-206.
- Legat, Robert C., to The G. E. Prentice Mfg. Co. Buckle. 2,916,786, 12-15-59, Cl. 24-170.
- Legat, Lapo. Surface or submarine craft. 2,918,029, 12-22-59, Cl. 114-16.
- Le Gendre, Victor J.: *See*—  
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- Leger, John L., to Sterling Multi-Products, Inc. Testing device for self-winding mechanisms. 2,917,955, 12-22-59, Cl. 81-7.5.
- Leger, Patrick J. Combination scooter, walker and stroller. 2,907,372, 10-6-59, Cl. 155-22.



- Legeza, Thomas B.: *See*—  
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- Legg, Duncan, and T. R. Manley, to A. Reyrolle & Co. Ltd. Arc chutes. 2,911,505, 11-3-59, Cl. 200—144.
- Legge, Walter G., to Walter G. Legge Co., Inc. Brush with wiping cloth. 2,875,460, 3-3-59, Cl. 15—114.
- Legge, Walter G., Co., Inc.: *See*—  
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- Leggett, Robert D.: *See*—  
McGeary, Robert K., and Leggett. 2,888,343.
- Leggin, Alexander. Fuel composition. 2,876,084, 3-3-59, Cl. 41—17.
- Léglise, Pierre. At-will end-of-line or complete justifying typewriter. 2,907,437, 10-6-59, Cl. 197—84.
- Legman, Nathan. Closure and support for container. 2,868,417, 1-13-59, Cl. 222—180.
- Legman, Nathan. Watch band and clasp. 2,876,521, 3-10-59, Cl. 24—265.
- Legnaioli, Louis F. Cigarette package. 2,868,363, 1-13-59, Cl. 206—41.
- Legnani, Umberto. Fountain pens. 2,902,978, 9-8-59, Cl. 120—45.4.
- Legrand, Karl-Heinz: *See*—  
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- Legrand, Roger, to Holding Electrosonic S. A. Devices for the production of ultra sounds. 2,878,403, 3-17-59, Cl. 310—8.1.
- Legros, Jean-Pierre M.: *See*—  
Lucien, René, and Legros. 2,868,338.
- Legros, Robert G. Transmission mechanisms between axles or shafts. 2,874,593, 2-24-59, Cl. 74—796.
- Legros, Robert G. Method and apparatus for the transmission and reception of radio signals on a large number of regularly spaced frequencies. 2,903,894, 9-15-59, Cl. 74—10.8.
- Lehane, Timothy J., W. M. Smith, and R. D. Ernst, to Vapor Heating Corp. Steam heating system with alternative thermostat control. 2,873,916, 2-17-59, Cl. 237—6.
- Lehberger, Raymond G.: *See*—  
Bicknell, Robert, Lehberger, and Walker. 2,908,919.
- Lehde John W., Jr.: *See*—  
Better, Bernard R., and Lehde. 2,889,022.
- Lehfeldt, Dr., & Co., G. m. b. H.: *See*—  
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Pohlman, Reimar. 2,896,922.
- Lehigh, Inc.: *See*—  
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- Lehigh University: *See*—  
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- Lehman, Eugene J., to McGraw-Edison Co. Mold having insert anchoring means. 2,880,462, 4-7-59, Cl. 18—36.
- Lehman, Harry W.: *See*—  
Cattoi, Robert L., and Lehman. 2,918,638.
- Lehman, Harry W., to Collins Radio Co. Antbacklash differential mechanism. 2,900,846, 8-25-59, Cl. 74—714.
- Lehman, Harry W., to Collins Radio Co. Tube socket. 2,914,254, 11-24-59, Cl. 339—143.
- Lehman, Harry W., and R. J. Meyer, to Collins Radio Co. Voice-operated radio tuning system. 2,886,758, 5-12-59, Cl. 318—467.
- Lehman, James N., and J. B. Theiss, to Radio Corp. of America. Commutatorless electric motor. 2,867,762, 1-6-59, Cl. 318—254.
- Lehman, John F., to said J. F. Lehman, L. B. Lehman, J. F. Lehman, Jr., L. Bryant, M. Lehman, I. Barnes, M. Brindley, and L. McSwain, jointly. Licker-in for a card machine. 2,908,047, 10-13-59, Cl. 19—105.
- Lehman, John F., Jr.: *See*—  
Lehman, John F. 2,908,047.
- Lehman, Lester H., to Landis Tool Co. Magnetic holder. 2,884,747, 5-5-59, Cl. 51—215.
- Lehman, Lewis H., to Productive Equipment Co. Vibrating screen. 2,884,790, 5-5-59, Cl. 74—61.
- Lehman, Lucy B.: *See*—  
Lehman, John F. 2,908,047.
- Lehman, Maud: *See*—  
Lehman, John F. 2,908,047.
- Lehman, Robert W., to Eastman Kodak Co. Compositions containing stabilized vitamin A materials. 2,895,878, 7-21-59, Cl. 167—81.
- Lehman, Roland J., to E. I. du Pont de Nemours and Co. Web coating process and shielding apparatus to prevent beaded edges. 2,901,376, 8-25-59, Cl. 117—44.
- Lehman, Samuel K., to C. H. Wheeler Mfg. Co. Rotor pump. 2,908,225, 10-13-59, Cl. 103—124.
- Lehman, Walter, to General Precision Laboratory Inc. Modulation system. 2,911,597, 11-3-59, Cl. 332—52.
- Lehmann, Alexander. Variable spacing mechanism for type-writing machines. 2,917,152, 12-15-59, Cl. 197—84.
- Lehmann, Ernest H., to Haloid Xerox Inc. Image development. 2,879,397, 3-24-59, Cl. 250—65.
- Lehmann, George A., and W. E. Gundelfinger, to The Dazey Corp. Lid actuating assembly. 2,872,063, 2-3-59, Cl. 220—36.
- Lehmann, Harry. Device and method for closing and sealing containers. 2,916,861, 12-15-59, Cl. 53—42.
- Lehmann, Heinz: *See*—  
Von Semel, Georg, and Lehmann. 2,901,340.
- Lehmann, René L., and L. Gandon, to Bozel-Maletra, Societe Industrielle de Produits Chimiques. Preparation of glyoxalated compounds of starch. 2,867,615, 1-6-59, Cl. 260—233.3.
- Lehmann, Werner J.: *See*—  
Sims, Rex J., Mattil, and Lehmann. 2,872,465.
- Lehmann, Wolfgang, O. Bayer, W. Kass, and W. Graulich, to Farbenfabriken Bayer Aktiengesellschaft. Process for producing textile printing pastes containing latices and polyamines and compositions therefrom. 2,903,436, 9-8-59, Cl. 260—29.6.
- Lehmans, Jean, and J. Casteran. Device for dispensing of small quantities of liquid substances. 2,892,573, 6-30-59, Cl. 222—205.
- Lehner, William L.: *See*—  
Carlzen, Carl F., and Lehner. 2,873,513.  
Carlzen, Carl F., and Lehner. 2,903,697.
- Lehner, William L., to Sylvania Electric Products Inc. Soldering machine. 2,869,497, 1-20-59, Cl. 113—59.
- Lehni, Rudolf, and F. Keller. Suspension device for display frames. 2,885,166, 5-5-59, Cl. 248—29.
- Lehovec, Kurt, to Sprague Electric Co. Semiconductor method. 2,871,149, 1-27-59, Cl. 148—1.5.
- Lehovec, Kurt, to Sprague Electric Co. Rectifying contact. 2,874,340, 2-17-59, Cl. 317—236.
- Lehovec, Kurt, to Sprague Electric Co. Rectifying device. 2,877,391, 3-10-59, Cl. 317—233.
- Lehovec, Kurt, to Sprague Electric Co. Two-way rectifier. 2,884,576, 4-28-59, Cl. 317—234.
- Lehovec, Kurt, to Sprague Electric Co. Monocrystalline tubular semiconductor. 2,890,976, 6-16-59, Cl. 148—33.
- Lehovec, Kurt, to Sprague Electric Co. Light dimming device. 2,892,094, 6-23-59, Cl. 250—211.
- Lehovec, Kurt, to Sprague Electric Co. Semiconductor junction. 2,893,901, 7-7-59, Cl. 148—1.5.
- Lehovec, Kurt, to United States of America, Army. Double modulator utilizing photo emissive material. 2,894,145, 7-7-59, Cl. 250—210.
- Lehovec, Kurt, to Sprague Electric Co. Radio active electrode construction. 2,896,137, 7-21-59, Cl. 317—235.
- Lehr, Adam W.: *See*—  
Schladebach, Gert. 2,896,693.
- Lehr, Hanns H.: *See*—  
Goldberg, Moses W., and Lehr. 2,874,190.
- Lehr, Philip N., to Dictograph Products Co., Inc. Battery assembly for hearing aids. 2,886,623, 5-12-59, Cl. 136—173.
- Lehr, Philip N., to Dictograph Products Co., Inc. Transducer assembly. 2,890,297, 6-9-59, Cl. 179—179.
- Lehr, Philip N., to Dictograph Products Co., Inc. Thermal sensing unit. 2,890,311, 6-9-59, Cl. 200—138.
- Lehr, William F.: *See*—  
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- Lehrer, Erwin: *See*—  
Altstaedt, Werner, Bartholome, and Lehrer. 2,878,110.  
Bartholome, Ernst, Frey, Lehrer, and Lorenz. 2,870,867.
- Lehrian, William R., to Gulf Research & Development Co. Vacuum distillation apparatus and process. 2,912,377, 11-10-59, Cl. 208—353.
- Lehrman, David. Ironing board cover with pouch attachment. 2,884,722, 5-5-59, Cl. 38—140.
- Lehtola, Ray H. Portable debarking apparatus. 2,906,306, 9-29-59, Cl. 144—208.
- Leib, Otto L. Viscosity meter. 2,902,858, 9-8-59, Cl. 73—55.
- Leibing, William E., and G. H. Powell. Deceleration control system. 2,875,741, 3-3-59, Cl. 123—97.
- Leibinger, Alphonse P. Safety belts for automobiles, airplanes, and other fast moving vehicles. 2,880,789, 4-7-59, Cl. 155—189.
- Leibold, Eldon L. Apparatus for edge-gluing, cutting, and stacking carbon paper from roll carbon stock. 2,899,926, 8-18-59, Cl. 118—41.
- Leibold, Richard E.: *See*—  
De Claire, Alton G., Jr., and Leibold. 2,871,840.
- Leibold, Richard E., to Holley Carburetor Co. Ignition distributors. 2,912,529, 11-10-59, Cl. 200—25.
- Leibslie, Robert D.: *See*—  
Rafferty, Cecil W., and Leibslie. 2,905,456.
- Leibson, Jacob S.: *See*—  
Thuener, Everett E., and Leibson. 2,912,739.
- Leich Electric Co.: *See*—  
Boswau, Hans P., Oldham, and Evers. 2,907,832.  
Boswau, Hans P., Clausen, and Evers. 2,907,983.  
Evers, Harry G. 2,918,530.
- Leicht, Alfons A., and T. Bakaloff, to Ettra K G Leicht & Trambauer. Design and arrangement of electric hot-plates for electric ovens. 2,872,559, 2-3-59, Cl. 219—37.
- Leichtle, Otto: *See*—  
Zinke-Allmang, Helmut, Leichtle, von Bank, and Keller. 2,905,598.
- Leichtung, Arthur. Lighting fixture. 2,892,929, 6-30-59, Cl. 240—78.
- Leidolf, Richard. Accordion wire coils. 2,910,256, 10-27-59, Cl. 245—1.
- Leidy, Harold W., H. A. Brelsford, and A. Schnapf, to United States of America, Air Force. Air-borne packaging unit for electronic equipment. 2,902,597, 9-1-59, Cl. 250—14.
- Leifer, Lorenz A., to Gisholt Machine Co. Automatic drive speed control. 2,869,390, 1-20-59, Cl. 74—472.



- Leifer, Lorenz A., to Gisholt Machine Co. Infinitely variable increment feed control. 2,882,760, 4-21-59, Cl. 77-3.
- Leigh, Albert: *See*—  
Roxburgh, Albert, and Leigh. 2,902,570.
- Leigh, Marjorie W., A. B. Welty, Jr., R. W. Sage, and R. M. Bailly, to Esso Research and Engineering Co. Hydroforming with recycling of part of the products. 2,911,358, 11-3-59, Cl. 208-139.
- Leigh, Ronald C., to British Telecommunications Research Ltd. Inductors for use in light current electrical circuit. 2,905,913, 9-22-59, Cl. 336-83.
- Leigh, Robert L., to Air Control Products, Inc. Air register of the wall type. 2,869,450, 1-20-59, Cl. 98-108.
- Leighton, Charles R. Bag-tying machines. 2,882,663, 4-21-59, Cl. 53-198.
- Leighton, Charles R., and J. W. Buck. Bag tying machine. 2,916,863, 12-15-59, Cl. 53-135.
- Leighton, George A., to Libbey-Owens-Ford Glass Co. Storage rack for sheets or plates of glass and the like. 2,884,136, 4-28-59, Cl. 211-41.
- Leighton, Herndon W., to Allen B. Du Mont Laboratories, Inc. Apparatus for uniformly heating non-circular outlines. 2,900,762, 8-25-59, Cl. 49-2.
- Leika, Walter. Method of making greeting cards and pictures. 2,876,575, 3-10-59, Cl. 41-26.
- Leimbach, Johann, and A. C. Schneider Paas. Braided process and apparatus. 2,879,687, 3-31-59, Cl. 87-37.
- Leinert, Lothar: *See*—  
Rietmüller, Paul, and Leinert. 2,874,460.
- Leineweber, William F., Jr., to James Hunter, Inc. Method and system of blending fibers. 2,885,741, 5-12-59, Cl. 19-146.
- Leininger, Robert I.: *See*—  
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McNulty, Dorothy G., and Leininger. 2,890,199.
- Leininger, Sylvan V. Oil separator and muffler. 2,894,599, 7-14-59, Cl. 183-34.
- Leins, Oscar J., to Baso Inc. Electromagnetic control system. 2,881,830, 4-14-59, Cl. 158-128.
- Leiper, John W. G., and T. I. Watkins, to Boots Pure Drug Co., Ltd. Piperazine carbondisulphide complex anthelmintic compositions and method of using same. Re. 24,657, 6-16-59, Cl. 167-53.
- Leipert, Edward. Combined cavitation plate and trim tab assembly. 2,912,955, 11-17-59, Cl. 115-41.
- Leipert, Edward. Marine drive lubricating system. 2,918,986, 12-29-59, Cl. 184-6.
- Leipold, Herbert O., and E. C. Evancich, to Welcraft Products Co., Inc. Electric heating unit with control thermostat. 2,915,615, 12-1-59, Cl. 219-46.
- Leipper, James K.: *See*—  
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- Leiser, Alfred L., to A. O. Smith Corp. Apparatus for loading a conveyor. 2,916,132, 12-8-59, Cl. 198-21.
- Leisey, Frank A., to Standard Oil Co. Temperature controller. 2,876,327, 3-3-59, Cl. 219-20.
- Leishman, LeRoy J.: *See*—  
Yerkovich, Simon. 2,892,088.
- Leishman, Le Roy J. Means for mounting objects that are rotatable on two different axes. 2,882,004, 4-14-59, Cl. 248-284.
- Leishman, Le Roy J. Circuits for X-ray spot film devices. 2,883,546, 4-21-59, Cl. 250-66.
- Leisk, Roland T., to American Steel Foundries. Apparatus for and method of making composite molds. 2,886,865, 5-19-59, Cl. 22-36.
- Leiss, Emil A., and C. Bayer, to Lever Bias Machine Corp. Automatic edge guide for sewing machines. 2,879,060, 3-24-59, Cl. 270-86.
- Leist, George G.: *See*—  
Dvorkovitz, Vladimir, Berst, and Leist. 2,878,190.
- Leister, Fayette, to The Fafnir Bearing Co. Pillow block. 2,868,594, 1-13-59, Cl. 308-15.
- Leister, Fayette, to The Fafnir Bearing Co. Locking means for securing a bearing to a shaft. 2,873,128, 2-10-59, Cl. 287-52.09.
- Leister, Fayette, to The Fafnir Bearing Co. Pillow block. 2,873,151, 2-10-59, Cl. 308-28.
- Leister, Fayette, to The Fafnir Bearing Co. Pillow block. 2,902,320, 9-1-59, Cl. 308-184.
- Leister, Fayette, to The Fafnir Bearing Co. Pillow block. 2,902,321, 9-1-59, Cl. 308-184.
- Leister, Fayette, to The Fafnir Bearing Co. Pillow block. 2,902,322, 9-1-59, Cl. 308-184.
- Leister, Willard F. Extensible C-clamp. 2,876,814, 3-10-59, Cl. 144-304.
- Leistner, William E., and A. C. Hecker, to Argus Chemical Laboratory, Inc. Polyvinyl chloride and alkyl tin mercaptoalcohol monocarboxylic acid esters. 2,870,119, 1-20-59, Cl. 260-45.75.
- Leistner, William E., and A. C. Hecker, to Argus Chemical Laboratory, Inc. Organic derivatives of tetravalent tin. 2,870,182, 1-20-59, Cl. 260-429.7.
- Leistner, William E., and A. C. Hecker, to Argus Chemical Laboratory, Inc. Organic derivatives of tetravalent tin. 2,872,468, 2-3-59, Cl. 260-429.7.
- Leistner, William E., and A. C. Hecker, to Argus Chemical Laboratory, Inc. Stabilized polyvinyl chloride resins. 2,883,363, 4-21-59, Cl. 260-45.75.
- Leitburo fur Erfindungswesen: *See*—  
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- Leiter, George W.: *See*—  
Koeck, Stanley J., and Leiter. 2,897,594.
- Leiterer, Lothar, to VEB Carl Zeiss Jena. Devices for measurement of turbidity. 2,874,606, 2-24-59, Cl. 88-14.
- Leithiser, George L., Jr. Continuous rotary pressure filter and method and means of controlled separation of solids and liquid from slurry. 2,911,098, 11-3-59, Cl. 210-107.
- Leitmann, George: *See*—  
Stirton, Robert J., and Leitmann. 2,907,028.
- Leitner Equipment Co.: *See*—  
Schindler, James C., Spring, and Tobiasz. 2,875,748.  
Schindler, James C., Spring, and Tobiasz. 2,897,813.
- Leitner, Richard G., and J. Rabinow, to Telautograph Corp. Recording apparatus. 2,914,610, 11-24-59, Cl. 178-19.
- Leitz, Ernst, Canada Ltd.: *See*—  
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- Leitz, Ernst, Canada Ltd., Optical Works: *See*—  
Staubach, Heinrich. 2,891,445.
- Leitz, Ernst, G.m.b.H.: *See*—  
Bröhl, August, and Wehrenfennig. 2,881,684.  
Brömer, Heinz, and Weinert. 2,899,322.  
Frischmann, Karl. 2,914,952.  
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Luz, Christian. 2,889,741.  
Schulze, Reinhart, and Broschke. 2,917,919.  
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- Wiskott, Detmar, Bartz, and Weissenberg. 2,901,627.
- Leitz, Ernst, G. m. b. H., Optische Werke: *See*—  
Mulch, Hans. 2,878,604.
- Leitz, Ludwig, to Ernst Leitz G.m.b.H. Fluorescent lighting system. 2,918,567, 12-22-59, Cl. 240-9.
- Leje & Thurne Aktiebolag: *See*—  
Wallen, Emil O. L. 2,869,728.  
Wallen, Emil O. L. 2,887,430.
- Lek Trol, Inc.: *See*—  
Freeman, Jeff E. 2,911,156.
- Lekas, John P.: *See*—  
Farrand, William A., Johnston, Kilpatrick, and Lekas. 2,899,260.
- Lekas, John P., to North American Aviation, Inc. Tape recorder and transcriber drive system. 2,873,073, 2-10-59, Cl. 242-55.12.
- Leland Electric Canada Ltd.: *See*—  
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- Leland-Gifford Co.: *See*—  
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Hirvonen, Eric J. 2,878,705.  
Hirvonen, Eric J. 2,882,777.
- Leland, Robert W.: *See*—  
Rodgers, Joseph M., and Leland. 2,895,026.
- Leland Stanford Jr. University, The Board of Trustees of the: *See*—  
Ginzton, Edward L. 2,899,598.  
La Forge, Louis H., Jr., Neal, and Whitehurst. 2,898,273.
- Leleu, Jean: *See*—  
Seon, Marius, Wetfrop, and Lelen. 2,871,247.
- Leleiter, Chester P., to Allis-Chalmers Mfg. Co. Clutch shifting mechanism. 2,870,643, 1-27-59, Cl. 74-335.
- Leleiter, Chester P., to Allis-Chalmers Mfg. Co. Front wheel lean mechanism. 2,902,100, 9-1-59, Cl. 180-1.
- Lelli, Joseph L., and S. C. Pollock, to General Motors Corp. Convertible top linkage and actuating means. 2,897,003, 7-28-59, Cl. 296-117.
- Lelois, Vernon A. Vehicle body changing method. 2,868,401, 1-13-59, Cl. 214-152.
- Lely, Cornelis, and W. S. Van Der Laag, to Shell Development Co. Method and apparatus for distillation. 2,897,147, 7-28-59, Cl. 208-366.
- Le Magoarou, Alphonse G.: *See*—  
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- Lemaigre-Voreaux, Pierre, to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva. Method for manufacturing a hollow electron-emissive electrode. 2,873,217, 2-10-59, Cl. 117-201.
- Lemaigre-Voreaux, Pierre, to Societe Anonyme pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva. Electrode for electric discharge apparatus. 2,874,325, 2-17-59, Cl. 313-355.
- Le Maistre, John W.: *See*—  
Baer, Byron N., Brandner, and Le Maistre. 2,875,078.  
Baer, Byron N., Brandner, and Le Maistre. 2,876,124.
- Leman, Hugh S., to International Standard Electric Corp. Telephone signalling systems. 2,916,558, 12-8-59, Cl. 179-81.
- Le Masson, Yves, 1/2 to M. Piel and 1/2 to H. Heaulme. Autonomous closed-cycle diving apparatus. 2,915,059, 12-1-59, Cl. 128-142.
- Le May, Dan B., and J. K. La Fleur, to The Garrett Corp. Regenerative air conditioning system with bleed conservation control. 2,902,836, 9-8-59, Cl. 62-172.
- Le May, William E., to Ohio Sealer and Chemical Corp. Method of making a mask. 2,919,218, 12-29-59, Cl. 154-110.
- Lemco Products, Inc.: *See*—  
Blazek, William J., and Hillis. 2,875,005.
- Lemelson, Jerome H. Sounding jumping toy. 2,885,824, 5-12-59, Cl. 46-118.
- Lemelson, Jerome H. Constructional mask. 2,914,772, 12-1-59, Cl. 2-206.
- Lemelson, Jerome H. Inflatable toys. 2,916,849, 12-15-59, Cl. 46-88.



- Lemert, Eva R.: *See*—  
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- Le Mieux, Leocadia A.: *See*—  
Le Mieux, Melbourne E. and L. A. 2,919,106.
- Le Mieux, Melbourne E. and L. A. Means for mounting a hydraulic automotive jack. 2,919,106, 12-29-59, Cl. 254-86.
- Lemin, Alan J., to The Upjohn Co. Chemical process. 2,903,458, 9-8-59, Cl. 260-281.
- Leming, Samuel W. Fishing line retriever. 2,909,861, 10-27-59, Cl. 43-17.2.
- Leming, Thomas L., and L. A. Dick, to Motorola, Inc. Piezo-electrical crystal filter. 2,878,454, 3-17-59, Cl. 333-72.
- Lemiszka, Theodore P.: *See*—  
Kuntz, Irving, Inchalik, and Lemiszka. 2,891,595.  
Minckler, Leon S., Jr., Cottle, and Lemiszka. 2,918,456.
- Leinke, Frank C., to Pheoll Mfg. Co. Self-tapping screw having large chip cavity. 2,871,751, 2-3-59, Cl. 85-47.
- Lemmens, Hendrikus J.: *See*—  
Diener, Gesinus, and Lemmens. 2,887,606.
- Lemmens, Hendrikus J., M. J. Jansen, and P. W. Haayman, to North American Philips Co., Inc. Dispenser cathode. 2,867,742, 1-6-59, Cl. 313-346.1.
- Lemmerman, C. W., Inc.: *See*—  
Lemmerman, Carl W. 2,915,135.
- Lemmerman, Carl W., to C. W. Lemmerman, Inc. Acoustical panel. 2,915,135, 12-1-59, Cl. 181-33.
- Lemmerman, Harold H. P., and W. S. Crocker, to General Electric Co. Adjustable reference device. 2,898,434, 8-4-59, Cl. 219-20.
- Lemmerman, Richard D., to Koppers Co., Inc. Sound control shroud for aircraft engines. 2,918,984, 12-29-59, Cl. 181-42.
- Lemmers, Eugene, to General Electric Co. Modulable discharge lamp. 2,904,715, 9-15-59, Cl. 313-185.
- Lemmers, Eugene, to General Electric Co. Tubular electric lamp. 2,915,664, 12-1-59, Cl. 313-109.
- Lemmers, Eugene, B. Shaw, and J. Salo, to General Electric Co. Tubular lamp envelopes. 2,916,645, 12-8-59, Cl. 313-109.
- Lemmon, Alexis W., to The Jeffrey Mfg. Co. Chain link bearing means. 2,869,380, 1-20-59, Cl. 74-245.
- Lemmon, Edward M., to J. L. Palsgrove. Interior plaster. 2,868,660, 1-13-59, Cl. 106-109.
- Lemmon, Norman E., and F. W. Schuessler, to Standard Oil Co. Lubricant additive of high metal content. 2,906,709, 9-29-59, Cl. 252-32.7.
- Lemmon, Norman E., and E. K. Fields, to Standard Oil Co. Lubricating oil composition. 2,907,713, 10-6-59, Cl. 252-32.7.
- Lemoine, Leonard J. Plastic injection molding machine. 2,916,770, 12-15-59, Cl. 18-30.
- Lemoine, Yves. Apparatus for making circular sound tracks. 2,897,710, 8-4-59, Cl. 84-128.
- Le Mole, Gerald M. Hairpiece and method of making. 2,907,334, 10-6-59, Cl. 271-5.
- Lemon, George E. Dart board with integral scoring means. 2,900,188, 8-18-59, Cl. 273-102.
- Lemon, Ralph B., and J. A. Buckham, to United States of America, Atomic Energy Commission. Continuous dissolver extractor for processing metal. 2,872,296, 2-3-59, Cl. 23-283.
- Lemons, A. V., to Petroleum Mechanical Development Co. Pipe wiper and housing therefor. 2,895,156, 7-21-59, Cl. 15-210.
- Lemons, Norman J.: *See*—  
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- Lemp, Robert J. Motive means and drive therefor. 2,885,579, 5-5-59, Cl. 310-120.
- Lempco Products, Inc.: *See*—  
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Strnad, James J., and Van Auken. 2,881,569.
- Lempert, Joseph, to Westinghouse Electric Corp. Split section high voltage tube. 2,871,402, 1-27-59, Cl. 315-14.
- Lempert, Joseph, to Westinghouse Electric Corp. Regenerating scintillation counter. 2,896,088, 7-21-59, Cl. 250-213.
- Lempicki, Alexander, to Sylvania Electric Products Inc. Image converter. 2,890,350, 6-9-59, Cl. 250-213.
- Lena, Adolf J., and G. W. Bush, to Allegheny Ludlum Steel Corp. Composite assembly of die steel core and stainless steel coating. 2,874,082, 2-17-59, Cl. 148-31.5.
- Lenane, Daniel J.: *See*—  
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- Lenco, John G.: *See*—  
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- Lendick, Michael R. Pulley construction. 2,913,127, 11-17-59, Cl. 211-119.3.
- Lendrat, Edward G.: *See*—  
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Hiltz, Arnold A., and Lendrat. 2,880,153.
- Lenahan, Bernard E., to Westinghouse Electric Corp. Alternating-current responsive devices. 2,883,622, 4-21-59, Cl. 324-137.
- Lenahan, Bernard E., to Westinghouse Electric Corp. Multi-element induction instrument. 2,909,728, 10-20-59, Cl. 324-107.
- Lenahan, Bernard E., to Westinghouse Electric Corp. Multi-element induction device. 2,913,667, 11-17-59, Cl. 324-137.
- Lenel, Paul O.: *See*—  
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- Lenert, Joseph J.: *See*—  
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Hutchens, Morris L., Lenert, and Schalk. 2,867,154.
- Leney, Eric N., and H. G. Prosser, to Automatic Telephone & Electric Co. Ltd. Dial switches for use in telephone or like switching systems. 2,919,311, 12-29-59, Cl. 179-90.
- Lengsfeld Brothers, Inc.: *See*—  
Fielding, Francis W. Re. 24,667.
- Lengyel, John F., to Scovill Mfg. Co. Drain apparatus. 2,880,425, 4-7-59, Cl. 4-199.
- Lenk, Walter, to Barmer Maschinenfabrik A. G. Twisting spindles with flyer for cabled yarns. 2,875,572, 3-3-59, Cl. 57-116.
- Lenk, Walter, to Barmer Maschinenfabrik Akt. Method and apparatus for simultaneously winding a plurality of threads on a single bobbin and article produced thereby. 2,882,674, 4-21-59, Cl. 57-66.
- Lenke, George H.,  $\frac{1}{2}$  to J. J. Ohliss. Sash structure. 2,905,982, 9-29-59, Cl. 20-53.
- Lenkeit, Willy W.: *See*—  
Piltz, Erich. 2,913,889.
- Lennard, Jack K., to International Telephone and Telegraph Corp. Electron discharge device. 2,913,609, 11-17-59, Cl. 313-35.
- Lennox, David H.: *See*—  
Reardon, William A., Lennox, and Nobles. 2,868,990.
- Lennox Industries, Inc.: *See*—  
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Massingill, Elton T. 2,902,939.  
Zink, William W., Jr. 2,895,668.
- Leno, John A., to International Standard Electric Corp. Terminal assembly with cells for electrical components. 2,902,628, 9-1-59, Cl. 317-101.
- Leno, John A., to International Standard Electric Corp. Electric semiconductor devices. 2,913,643, 11-17-59, Cl. 317-235.
- Le Nobel, Jacobus W.: *See*—  
Ten Have, Cornelis D., Buningh, Le Nobel, Pieters, and Lower. 2,893,954.  
Van Beest, Adolf C., and Le Nobel. 2,903,422.
- Lens, Georges X., to International Standard Electric Corp. Indexing mechanism for mechanical code recorders. 2,873,863, 2-7-59, Cl. 214-11.
- Lens, Georges X., to International Standard Electric Corp. Conveyors. 2,886,166, 5-12-59, Cl. 198-75.
- Lens, Georges X., to International Standard Electric Corp. Combined code recorder and selector. 2,914,197, 11-24-59, Cl. 214-11.
- Lens, Jan, and H. G. Wijmenga, to Organon Inc. Process of preparing vitamin B<sub>12</sub>-intrinsic factor. 2,892,754, 6-30-59, Cl. 167-74.
- Lense, Frederick T., to Monsanto Chemical Co. Process of picking cotton. 2,912,810, 11-17-59, Cl. 56-1.
- Lensing, Arthur G. Dust mop and brush cleaner. 2,880,438, 4-7-59, Cl. 15-142.
- Lensner, Herbert W., and G. D. Rockefeller, Jr., to Westinghouse Electric Corp. Frequency-shift carrier distance relay. 2,897,406, 7-28-59, Cl. 317-27.
- Lent, Robert P., and G. W. Anderton, to Technical Research Co. Marine vessel propulsion system seals and paste methods of fabricating same. 2,910,952, 11-3-59, Cl. 114-5.
- Lento, Harry G.: *See*—  
Willits, Charles O., Underwood, and Lento. 2,895,833.
- Lentz, David F.: *See*—  
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- Lentz, Harold S. Gem holder. 2,883,048, 4-21-59, Cl. 206-75.
- Lentz, Joseph K.: *See*—  
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- Lentz, Thomas H., J. W. Opie, and D. E. Terry, to General Mills, Inc. Stable dispersions of fatty amine acid salts. 2,891,012, 6-16-59, Cl. 252-311.
- Lenz, Charles E., to General Electric Co. Wave forming circuit. 2,872,571, 2-3-59, Cl. 250-27.
- Lenz, Charles E., to General Electric Co. Electrical signal processing system. 2,885,669, 5-5-59, Cl. 343-17.1.
- Lenz, Walter H., to Caterpillar Tractor Co. Method and apparatus for differential quenching of heat treated metallic articles. 2,890,975, 6-16-59, Cl. 148-21.56.
- Lenz, William. Steam power plants. 2,902,830, 9-8-59, Cl. 60-73.
- Lenze, Josef: *See*—  
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- Leo, Angelo. Swinging clothesline. 2,884,138, 4-28-59, Cl. 211-95.
- Leo, Herbert T., and C. C. Taylor. Dietary egg custard and method of making same. 2,910,366, 10-27-59, Cl. 99-139.
- Leo, Nick F. Relays. 2,904,653, 9-15-59, Cl. 200-87.
- Leonard, Carl L., C. R. Schneider, and J. K. Sheppard, to Union Carbide Corp. Sulfuric acid mist removal. 2,906,372, 9-29-59, Cl. 183-121.
- Leonard, Carmen G.: *See*—  
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- Leonard, Cullman K., to United States of America, Air Force. Reversible electrical amplifier circuit. 2,910,636, 10-27-59, Cl. 318-207.
- Leonard, Dorris G., to The Dow Chemical Co. Dummy block. 2,894,624, 7-14-59, Cl. 207-9.
- Leonard, Edward J., to International Telephone and Telegraph Corp. 100-line direct-access crossbar telephone switching unit. 2,871,297, 1-27-59, Cl. 179-18.



- Leonard, Edward J., to International Telephone and Telegraph Corp. Busy-verification automatic telephone system. 2,874,225, 2-17-59, Cl. 179-27.
- Leonard, Edward J., to International Telephone and Telegraph Corp. Bi-directional chain of counting relays. 2,883,588, 4-21-59, Cl. 317-140.
- Leonard, Edward J., A. Hemel, K. A. Karow, J. C. Gibson, K. L. Liston, and H. Tarschisch, to International Telephone and Telegraph Corp. Register-translator crossbar telephone system. 2,918,533, 12-22-59, Cl. 179-18.
- Leonard, Eugene, to Underwood Corp. Switching circuit. 2,910,682, 10-27-59, Cl. 340-345.
- Leonard, Eugene V., to Underwood Corp. Storage and control device. 2,913,635, 11-17-59, Cl. 317-123.
- Leonard, Frederic C., to Elliott Brothers (London) Ltd. Rotary window for gas inspection. 2,878,716, 3-24-59, Cl. 88-14.
- Leonard, Frederick, and F. B. Craig, to United States of America, Navy. Magnetostrictive resonator mounting. 2,906,972, 9-29-59, Cl. 333-71.
- Leonard, George H. Mechanical counter numeral wheel rectifying apparatus. 2,869,782, 1-20-59, Cl. 235-1.
- Leonard, George H., to United States of America, Navy. Time delay releasing device for a parachute pack cover. 2,869,810, 1-20-59, Cl. 244-150.
- Leonard, Gordon C.: *See—*  
Cobble, James A., Sr., J. A. Cobble, Jr., Leonard, and Pardue. 2,873,705.
- Leonard, James W.: *See—*  
Cubitt, Kenneth H., and Leonard. 2,869,635.
- Leonard, John L. Time and condition program unit. 2,881,832, 4-14-59, Cl. 161-1.
- Leonard, Louis H., Jr., to Carrier Corp. Control arrangement for absorption refrigeration system. 2,870,613, 1-27-59, Cl. 62-103.
- Leonard, Louis H., Jr., to Carrier Corp. Hermetic pumps for use in refrigeration systems. 2,915,886, 12-8-59, Cl. 62-494.
- Leonard, Louis H., Jr., to Carrier Corp. Absorption refrigeration systems of the internal coil type. 2,918,807, 12-29-59, Cl. 62-476.
- Leonard, Merrill G., to Westinghouse Electric Corp. Circuit breaker devices. 2,892,127, 6-23-59, Cl. 317-35.
- Leonard, Nathaniel N. Foldable radar target. 2,912,687, 11-10-59, Cl. 343-18.
- Leonard, Radford P., to Penta Laboratories, Inc. Vacuum switch. 2,868,922, 1-13-59, Cl. 200-87.
- Leonard, Raymond F. Portable hydraulic drilling rig. 2,904,310, 9-15-59, Cl. 255-22.
- Leonard, Richard A., and G. A. Reasor, to Hercules Powder Co. Preparation of carboxyalkyl cellulose derivatives. 2,912,431, 11-10-59, Cl. 260-232.
- Leonard, Albert A., Jr. Propeller carrier. 2,903,274, 9-8-59, Cl. 280-179.
- Leonard, Thomas E. Pedal and switch structure for vehicles. 2,873,407, 2-10-59, Cl. 315-80.
- Leonard Valve Co.: *See—*  
Bowman, Lawrence E. 2,910,243.
- Leone, Salvatore J., to The New Haven Board and Carton Co. Display and dispensing cartons. 2,886,232, 5-12-59, Cl. 229-17.
- Leone, Salvatore J., to The New Haven Board and Carton Co. Carton with top handle. 2,900,124, 8-18-59, Cl. 229-52.
- Leone, Salvatore J., to The New Haven Board and Carton Co. Shipping and dispensing cartons. 2,907,512, 10-6-59, Cl. 229-17.
- Leone, Salvatore J., to The New Haven Board and Carton Co. Display stands. 2,918,178, 12-22-59, Cl. 211-178.
- Leopold, Wilbur R., Jr., to Mechanical Controls Inc. Balancing device. 2,895,766, 7-21-59, Cl. 301-5.
- Leopoldi, Norbert, to Nordette, Inc. Window cleaning device. 2,886,839, 5-19-59, Cl. 15-126.
- Leoux, Leo-Paul. Compression band for an embalmed corpse. 2,883,730, 4-28-59, Cl. 27-21.
- Lepetit S.p.A.: *See—*  
Carrara, Gino, and Testa. 2,897,203.  
Weitnauer, Gustavo A. 2,917,544.  
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- Lepin, Maurice, to Societe Rhodiacta. Process for incorporating titanium dioxide into cellulose ester solutions dissolved in aliphatic acids. 2,895,843, 7-21-59, Cl. 106-180.
- Lepingle, Marcel: *See—*  
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Eldé, Egon, Dörr, Braun, Elian, and Lepingle. 2,918-455.
- Lepley, Allen E.: *See—*  
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- Le Poole, Jan B., to North American Philips Co., Inc. Method of examining the quality of electron-optical images and devices for carrying out this method. 2,873,378, 2-10-59, Cl. 250-49.5.
- Le Poole, Jan B., to Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. Mass spectrometer. 2,908,816, 10-13-59, Cl. 250-41.9.
- Lepore, Raymond R.: *See—*  
Hampshire, William J., and Lepore. 2,868,439.
- Leportier, Pierre. Table for dressing and drying leathers, skins and the like. 2,877,564, 3-17-59, Cl. 34-163.
- Lepoutre, Raymond, and A. Gautier, to Societe des Raffineries & Sucreries Soy. Centrifuges. 2,894,634, 7-14-59, Cl. 210-375.
- Leppala, Alexander. Control for arc welders. 2,872,566, 2-3-59, Cl. 219-132.
- Leppich, Joseph P. Fish hook assembly. 2,911,752, 11-10-59, Cl. 43-42.28.
- Le Prieur, Yves P. G.: *See—*  
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- Leprince, Pierre, F. Coussemant, and J. Limido, to Institut Français du Pétrole des Carburants et Lubrifiants. Process for the manufacture of olefinic compounds by the dehydrochlorination of corresponding chlorinated derivatives. 2,899,473, 8-11-59, Cl. 260-666.
- Lepry, Dolores T.: *See—*  
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- Lepry, John M. and D. T. Rotatable office utility table with drive means. 2,830,088, 6-9-59, Cl. 311-32.
- Leptien, Elmer E., to St. Regis Paper Co. Anti-skid compositions and container material coated therewith. 2,872,094, 2-3-59, Cl. 229-3.5.
- Lerbs, Alfred, to Compagnie Generale de Telegraphie Sans Fil. Electronic switches. 2,891,150, 6-16-59, Cl. 250-27.
- Lerch, Brooke W., to Western Electric Co., Inc. Core covering apparatus. 2,880,642, 4-7-59, Cl. 87-44.
- Lerch, Brooke W., to Western Electric Co., Inc. Shock-resistant, adhesive tapes. 2,911,318, 11-3-59, Cl. 117-33.
- Lerick, Lester. Anchor bolt with nut actuated expansion wedges. 2,896,494, 7-28-59, Cl. 85-2.4.
- Lermac, Inc.: *See—*  
Ruehle, William G., Jr. 2,889,464.
- Lerman, Leonard S. Portable illuminated danger signal. 2,880,405, 3-31-59, Cl. 340-81.
- Lerner, Herman B., to Circle Plastics Co. Closure unit. 2,886,209, 5-12-59, Cl. 221-299.
- Lerner, Aaron B. Laboratory equipment elevation adjusting apparatus. 2,902,349, 9-1-59, Cl. 23-259.
- Lerner, Albert. Vending machine. 2,872,069, 2-3-59, Cl. 221-85.
- Lerner, Albert. Dual garment hangers. 2,875,930, 3-3-59, Cl. 223-88.
- Lerner, Bernard J.: *See—*  
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- Lerner, George: *See—*  
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- Lerner, Louis L., to The Gillette Co. Hair curler. 2,878,818, 3-24-59, Cl. 132-41.
- Lerner, Louis L., and A. Safanoff, to The Gillette Co. Dispenser. 2,880,914, 4-7-59, Cl. 222-321.
- Lerner, Lovie E. Buoyant bathing brassiere. 2,897,821, 8-4-59, Cl. 128-479.
- Lerner, Nathan B., to W. Braun Co. Snap-on base for a bottle, jar, glass, or the like. 2,905,351, 9-22-59, Cl. 215-100.
- Leroy, Emile M. P. Railway track circuit-signalling system. 2,887,570, 5-19-59, Cl. 246-34.
- Leroy, Etienne, to E. Langeais. Front end suspension system for vehicles. 2,892,634, 6-30-59, Cl. 280-96.2.
- Leroy, René, to Dixi S.A. Percussion fuse. 2,893,322, 7-7-59, Cl. 102-76.
- "Les Applications Electroniques des Caoutchoucs" (A. E. C.): *See—*  
Jarret, Jean M. B. and J. H. 2,867,043.
- Les Constructions Guinard: *See—*  
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- Les Glaceries de la Sambre, Societe Anonyme: *See—*  
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- Les Industries Musicales et Electriques Pathe Marconi: *See—*  
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- Les Laboratoires Francais de Chimiotherapie: *See—*  
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Muller, Georges, and Furlenmeier. 2,906,759.  
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- Les Vaporisateurs Marcel Frank S.A.: *See—*  
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- Les Usines de Melle (Societe Anonyme): *See—*  
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- Lescaillette, Richard F., to Armstrong Cork Co. Shearing die and method of forming the same. 2,885,913, 5-12-59, Cl. 76-107.
- Lesch, Hans: *See—*  
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- Lesher and Associates, Inc.: *See—*  
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- Lesher, Carl E., to Lesher and Associates, Inc. Method of forming pellets of finely divided coked carbonaceous material and finely divided non-fusing material. 2,918,364, 12-22-59, Cl. 75-4.
- Lesk, Israel A., to General Electric Co. Semiconductor device and apparatus. 2,901,554, 8-25-59, Cl. 179-171.
- Lesk, Norman, and M. Kleinman. Power actuated rhythmical movement accessories for children's cribs. 2,916,745, 12-15-59, Cl. 5-109.



- Leslie Co.: *See*—  
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- Leslie, Donald J. Rotatable tremulant sound producer. 2,869,667, 1-20-59, Cl. 181-27.
- Leslie, Donald J. Acoustic apparatus. 2,869,669, 1-20-59, Cl. 181-27.
- Leslie, Donald J. Multiple channel speaker system. 2,887,000, 5-19-59, Cl. 84-125.
- Leslie, Donald J. Electronic tremolo device. 2,899,644, 8-11-59, Cl. 331-49.
- Leslie, Howard C. Molded water closet seat and cover. 2,913,735, 11-24-59, Cl. 4-234.
- Leslie, James D.: *See*—  
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- Leslie, James D., to General Motors Corp. Rotary bolt door latch. 2,877,043, 3-10-59, Cl. 292-280.
- Leslie, James D., and H. J. Wubbe, to General Motors Corp. Inertia latch. 2,873,794, 2-17-59, Cl. 155-155.
- Leslie, James D., C. H. Schamel, and H. E. Van Voorhees, to General Motors Corp. Door latch for a pillarless automobile. 2,881,019, 4-7-59, Cl. 292-5.
- Leslie, James D., and H. J. Wubbe, to General Motors Corp. Door latch operating apparatus. 2,887,866, 5-26-59, Cl. 70-153.
- Leslie, James D., L. P. Garvey, and W. H. West, to General Motors Corp. Operating means for window regulator mechanism. 2,900,183, 8-18-59, Cl. 268-126.
- Leslie, James D., and G. Rehkugler, to General Motors Corp. Vehicle door and transmission interlock. 2,913,066, 11-17-59, Cl. 180-82.
- Leslie, John H., to Signode Steel Strapping Co. Hydraulic tensioning control for power strapping machines. 2,915,004, 12-1-59, Cl. 100-26.
- Leslie, John W.: *See*—  
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- Lester, Ray V., to Westinghouse Electric Corp. Hot-start device for A. C. welders. 2,871,411, 1-27-59, Cl. 315-176.
- Leslie, Richard B., Jr., and L. Vadas, to Food Machinery and Chemical Corp. Pineapple sizer and eradicator. 2,897,861, 8-4-59, Cl. 146-6.
- Leslie, Robert W., and G. P. Jennings, to Phillips Petroleum Co. Process and apparatus for making carbon black and quenching smoke from carbon black furnaces. 2,873,172, 2-10-59, Cl. 23-209 4.
- Leslie Salt Co.: *See*—  
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- Leslie, William T.: *See*—  
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- Lesnewich, Alexander, to Air Reduction Co., Inc. Multiple arc welding. 2,906,861, 9-29-59, Cl. 219-135.
- Lesnewich, Alexander, to Air Reduction Co., Inc. Electric arc welding. 2,916,601, 12-8-59, Cl. 219-74.
- Less, Frank W., E. C. Roeck, and J. C. Searer, to Hooker Electrochemical Co. Shell molding composition comprising thermosetting phenol-formaldehyde resin, coating agent, and sand, and process for making same. 2,912,402, 11-10-59, Cl. 260-306.
- Less, Frank W., E. C. Roeck, and J. C. Searer, to Hooker Electrochemical Co. Shell molding composition containing thermosetting resin and method for making same. 2,912,406, 11-10-59, Cl. 260-318.
- Lesser, Murray L., to International Business Machines Corp. Magnetic head commutator. 2,907,009, 9-29-59, Cl. 340-174.
- Lessig, Edward T., and M. W. Wilson, to The B. F. Goodrich Co. Cord treating apparatus. 2,889,802, 6-9-59, Cl. 118-57.
- Lessig, Edward T., to The B. F. Goodrich Co. Tire construction. 2,902,073, 9-1-59, Cl. 152-362.
- Lessler, Lew W., to General Aniline & Film Corp. Flash bulb retention and ejection device. 2,910,554, 10-27-59, Cl. 200-51.08.
- Lessly, Oswald E. Self-cleaning auger pump. 2,907,277, 10-6-59, Cl. 103-93.
- Lessmann, Gerhard P., to Westinghouse Electric Corp. Air-cleaning centrifugal-blower apparatus. 2,913,604, 11-17-59, Cl. 310-56.
- Lester, George E. and W. Artificial denture structures. 2,880,508, 4-7-59, Cl. 32-2.
- Lester, James L. Trophy crown. 2,888,229, 5-26-59, Cl. 248-346.
- Lester, James L., Jr. Prefabricated door package assembly. 2,887,219, 5-19-59, Cl. 206-60.
- Lester, Ronald: *See*—  
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- Lester, Ronald, and H. T. Porter, to The British Petroleum Co. Ltd. Hydrocatalytic desulphurisation of petroleum hydrocarbons. 2,897,143, 7-28-59, Cl. 208-213.
- Lester, Ruth. Fold-locked reversible cover for pillows, mattresses or the like. 2,895,146, 7-21-59, Cl. 5-339.
- Lester, Seelig: *See*—  
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- Lester, William N.: *See*—  
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Eichelberger, Charles D., and Lester. 2,904,620.
- Lester, William N., and L. D. Shaw, to General Electric Co. Electric switchgear. 2,914,635, 11-24-59, Cl. 200-114.
- Lesti, Arnold, to Andromeda, Inc. Color television image registration system. 2,885,594, 5-5-59, Cl. 315-10.
- Lesti, Arnold, to ACF Industries, Inc. Magnetic recording using acoustic delay line. 2,890,275, 6-9-59, Cl. 178-6.6.
- Lesti, Arnold, to International Standard Electric Corp. Diode coincidence gate. 2,897,355, 7-28-59, Cl. 250-27.
- Lesti, Arnold, to ACF Industries, Inc. Servo projector. 2,897,373, 7-28-59, Cl. 250-201.
- Leston, Gerd, and T. E. Robbins, Jr., to Koppers Co., Inc. Purification of 2-vinylnaphthalene. 2,884,471, 4-28-59, Cl. 260-674.
- Le Suer, William M., to The Lubrizol Corp. Oil-soluble metal sulfonates and process for the preparation thereof. 2,915,517, 12-1-59, Cl. 260-139.
- Le Tarte, Walter G. Sawing machine having a pair of angularly positioned saws for cutting bevels. 2,918,950, 12-29-59, Cl. 143-38.
- Letherbury, John B.: *See*—  
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- Leto, Joseph: *See*—  
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- Leto, Salvatore F. and J. Universal joint. 2,879,651, 3-31-59, Cl. 64-17.
- LeTourneau, Robert G. Tree felling machine. 2,885,799, 5-12-59, Cl. 37-2.
- LeTourneau, Robert G. Electrically powered logging arch. 2,913,223, 11-17-59, Cl. 254-139.1.
- LeTourneau-Westinghouse Co.: *See*—  
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Spannhake, Ernst W. 2,907,399.
- Letsinger, Robert L., I. H. Skoog, and N. L. Remes, to Callery Chemical Co. Preparation of organoboron compounds. 2,872,479, 2-3-59, Cl. 260-500.
- Letterton, Henry A., to General Electric Co. Process of treating sheet material and product resulting therefrom. 2,868,269, 1-13-59, Cl. 154-2.6.
- Letters, John, and Co. Ltd.: *See*—  
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- Letters, John, Jr., to John Letters & Co. Ltd. Method of and apparatus for bonding the head of a golf club to the shaft thereof. 2,891,138, 6-16-59, Cl. 219-85.
- Lettvin, Norman: *See*—  
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- Letvin, Samuel: *See*—  
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- Leukart, J. Machine Co., Inc.: *See*—  
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- Leumann, Ernst: *See*—  
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Sallmann, Richard, Maeder, Porret, Leumann, and Albrecht. 2,885,388.
- Leupold, Curt W., to Vereinigte Papierwerke Schickedanz & Co. Pocket handkerchief package and method of packaging same. 2,878,929, 3-24-59, Cl. 206-57.
- Leupold, Henry F.: *See*—  
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- Leupold, Karl: *See*—  
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- Leupold & Stevens Instruments, Inc.: *See*—  
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- Leuszler, Wayne E., L. E. Wood, and A. P. Teal, to Black, Sivalls & Bryson, Inc. Apparatus for separating fluids. 2,868,313, 1-13-59, Cl. 183-2.7.
- Leuszler, Wayne E., L. E. Wood, and A. P. Teal, to Black, Sivalls & Bryson, Inc. Apparatus for separating fluids. 2,868,314, 1-13-59, Cl. 183-2.7.
- Leutert, Walter, to Brevets Aero-Mecaniques, S.A. Spindle spinning machines of the direct type. 2,880,565, 4-7-59, Cl. 57-1.
- Leuthesser, Edward G. Swimming pool structure. 2,888,818, 6-2-59, Cl. 72-13.
- Leuthesser, Frederick W., to American Radiator & Standard Sanitary Corp. Single control handle operated mixing faucet having a diverter valve associated therewith. 2,871,880, 2-3-59, Cl. 137-597.
- Leuthold, Edgar J., to Curtiss-Wright Corp. Aircraft training instrument for simulating attitude gyro. 2,874,486, 2-24-59, Cl. 35-12.
- Le Valley, John, to Ingersoll-Rand Co. Compressor unloading system. 2,889,106, 6-2-59, Cl. 230-2.
- Le Van, Ambrose E., P. W. Harland, and R. D. Watte, to American Machine and Metals, Inc. Indicating instrument. 2,906,232, 9-29-59, Cl. 116-129.
- Le Van, James D.: *See*—  
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- Levand, Victor A., and E. H. Wiley, to General Electric Co. Method of sealing and gas filling electric lamps. 2,868,609, 1-13-59, Cl. 316-17.
- Levand, Victor A., to General Electric Co. Electric lamp gas filling and sealing method and apparatus. 2,900,771, 8-25-59, Cl. 53-7.



- Levand, Victor A., to General Electric Co. Pinch seal apparatus. 2,917,870, 12-22-59, Cl. 49-2.
- Le Vantine, Allan D.: *See*—
- Hansen, Siegfried, and Le Vantine. 2,917,987.
- Le Vay, Alex P. Multi-station table for constructing building frames. 2,884,967, 5-5-59, Cl. 144-288.
- Le Vay, Alex P. Holder for religious articles. 2,914,185, 11-24-59, Cl. 211-60.
- Levendoski, Alfred E., to American Iron & Machine Works Co., Inc. Weld packer and releasable latch for hook wall means. 2,917,114, 12-15-59, Cl. 166-139.
- Levens, Ernest, and R. M. Washburn, to American Potash & Chemical Corp. Tris(diisobutylcarbinyl)borate. 2,875,236, 2-24-59, Cl. 260-462.
- Levens, Ernest, and R. M. Washburn, to American Potash & Chemical Corp. Formation of boron acetate by the reaction of acetic anhydride with boric acid. 2,891,993, 6-23-59, Cl. 260-545.
- Leventhal, Howard L.: *See*—
- Underwood, William F., and Leventhal. 2,901,358.
- Leventhal, Leon C. Vacuum breakers for water supply systems. 2,893,418, 7-7-59, Cl. 137-218.
- Lever Bias Machine Corp.: *See*—
- Leiss, Emil A., and Bayer. 2,879,060.
- Lever Brothers Co.: *See*—
- Agard, Konrad. 2,910,040.
- Anson, Mortimer L., and Pader. 2,879,163.
- Clarke, Donald H. 2,882,166.
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- Duin, Hendrik J., and Schaap. 2,919,196.
- Duin, Hendrik J., and Schaap. 2,919,197.
- Geitz, Robert C. 2,894,912.
- Hampson, George C., and Freeman. 2,903,369.
- Henderson, Lloyd F., and Carroll. 2,868,731.
- Henderson, Lloyd F., and Schramm. 2,877,187.
- Hirsch, Andre, Gibbs, and Hemmings. 2,919,192.
- Lamberti, Vincent. 2,877,245.
- Lintaris, Lino L. 2,909,432.
- May, Charles G., and Akroyd. 2,918,376.
- McNaught, John P., and Bryant. 2,897,155.
- Morton, Ian D., and Sharples. 2,916,382.
- Owen, Ronald V., and Hurt. 2,899,450.
- Pader, Morton, Hamilton, Miles, and McCrimlish. 2,874,049.
- Ruff, Edgar E. 2,870,092.
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- Ruff, Edgar E., and Smith. 2,903,431.
- Ruff, Edgar E., and Thornton. 2,880,178.
- Thompson, Stuart W. 2,875,065.
- Walling, Cheves T., McKenney, and Geitz. 2,903,466.
- Leverage Hand-Brake Co.: *See*—
- Sell, Theodore W. 2,875,638.
- Leverenz, Humboldt W.: *See*—
- Widdop, Mary E., and Leverenz. 2,890,624.
- Leverett, Miles C., and J. P. Howe, to United States of America, Atomic Energy Commission. Nuclear reactor unloading apparatus. 2,870,075, 1-20-59, Cl. 204-193.2.
- Levering, Dewey R., to Hercules Powder Co. Methylol derivatives of rosin and rosin compounds. 2,906,745, 9-29-59, Cl. 260-97.
- Leverton, Walter F.: *See*—
- Ellis, Ray C., Jr., and Leverton. 2,916,359.
- Levesque, Charles L., to Rohm & Haas Co. Diesel oil improvers. 2,877,102, 3-10-59, Cl. 44-57.
- Levesque, Paul E.: *See*—
- Latourette, Harold K., and Levesque. 2,916,853.
- Levey, Fred'k H., Co., Inc.: *See*—
- Brodie, George R. 2,877,706.
- Brodie, George R. 2,884,856.
- Brodie, George R. 2,908,221.
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- Raybuck, William B. 2,872,186.
- Levi, Daisy O. Reversible garment and method for making the same. 2,890,460, 6-16-59, Cl. 2-243.
- Levi, Hans L., to Murphy Door Bed Co., Inc. Collapsible leg assembly for television sets and the like. 2,903,222, 9-8-59, Cl. 248-169.
- Levi, Irving, to Charles E. Frosst & Co. Preservative use of 4-hydroxy-3,5-dimethoxyallyl-benzene. 2,919,226, 12-29-59, Cl. 167-30.
- Levi, Roberto, to North American Philips Co., Inc. Thermionic dispenser cathode. 2,869,017, 1-13-59, Cl. 313-346.
- Levi, Roberto, to North American Philips Co., Inc. Dispenser-type cathode and method of making. 2,873,409, 3-17-59, Cl. 313-346.
- Levi, Roberto, to North American Philips Co., Inc. Method of making thermionic dispenser cathode and cathode made by said method. 2,917,415, 12-15-59, Cl. 117-223.
- Levin, Allan F., and J. S. Szpila. Method of reclaiming insulated wire. 2,882,188, 4-14-59, Cl. 134-9.
- Levin, Charles, & Co.: *See*—
- Levin, Louis. 2,918,723.
- Levin, David: *See*—
- Ratzer, Arthur F., and Levin. 2,870,095.
- Levin, Gilbert V. Method of making bacteriological determinations. 2,914,447, 11-24-59, Cl. 195-103.5.
- Levin, Herbert L., to International Telephone and Telegraph Corp. Electron gun structure. 2,916,649, 12-8-59, Cl. 313-250.
- Levin, Herbert S., to Colonial Process Supply Co. Wire mesh screen. 2,903,967, 9-15-59, Cl. 101-415.1.
- Levin, Jack J., 50% to M. B. Silverman. Audible tooth brush. 2,877,477, 3-17-59, Cl. 15-105.
- Levin, Leon, to Acme Hanger Corp. Garment hangers. 2,886,223, 5-12-59, Cl. 223-91.
- Levin, Louis, to Charles Levin & Co. Comb. 2,918,723, 12-29-59, Cl. 30-200.
- Levin, Martin E., A. S. Wolfson, and J. I. Young, to Eitel-McCullough, Inc. Beam type tube. 2,909,690, 10-20-59, Cl. 313-82.
- Levin, Meyer. Fishing line signal device. 2,869,275, 1-20-59, Cl. 43-17.
- Levin, Morris, and F. Shandelman, to Tele-Dynamics Inc. Variable phase shift network. 2,914,673, 11-24-59, Cl. 250-27.
- Levin, Nathan, to Textile Machine Works. Method of knitting patterned fabric. 2,910,848, 11-3-59, Cl. 66-43.
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- Levin, Nathan W.: *See*—
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- Ushakoff, Alexis E. 2,906,591.
- Levin, Robert H.: *See*—
- Fonken, Gunther S., Levin, and McIntosh. 2,877,241.
- Levine, Aaron J. Sander. 2,873,561, 2-17-59, Cl. 51-170.
- Levine, Aaron J., to Shor-Line Industries, Inc. Bracket for attaching tools to a portable electric drill. 2,905,213, 9-22-59, Cl. 144-35.
- Levine, Aaron J. Saber saw. 2,906,304, 9-29-59, Cl. 143-68.
- Levine, Abraham L.: *See*—
- Murphy, Harold P., and Levine. 2,880,257.
- Levine, Alfred B.: *See*—
- Hobbs, George W., and Levine. 2,907,525.
- Levine, Arnold M., to International Telephone and Telegraph Corp. Means reducing noise effects in television receivers. 2,906,829, 9-29-59, Cl. 179-171.
- Levine, Arnold M., and R. S. Bailey, to International Telephone and Telegraph Corp. Automatic frequency control in pulse modulation systems. 2,889,521, 6-2-59, Cl. 332-9.
- Levine, Arthur A., to E. I. du Pont de Nemours and Co. Method of preparing symmetrical di (2,4,6-trichlorophenyl) N,N' dichlorourea. 2,878,288, 3-17-59, Cl. 260-553.
- Levine, Arthur A., and T. V. Williams, Jr., to E. I. du Pont de Nemours & Co. Process for preparing symmetrical hexachlorodiphenyl urea. 2,878,287, 3-17-59, Cl. 260-553.
- Levine, Arthur O.: *See*—
- Schneider, Max., and Levine. 2,881,964.
- Levine, Bernard, A. M. Harris, and M. M. Brod, to United Aircraft Corp. Method of balancing synchro-tie devices. 2,872,723, 2-10-59, Cl. 29-155.5.
- Levine, Bernard, and F. B. MacLaren, to United Aircraft Corp. Telemetric position transmitter. 2,911,632, 11-3-59, Cl. 340-195.
- Levine, Beth. Blank for a shoe. 2,900,743, 8-25-59, Cl. 36-11.
- Levine, David, to Crest Lock Co., Inc. Luggage hardware. 2,896,755, 7-28-59, Cl. 190-58.
- Levine, Leonard, to The Dow Chemical Co. Preparation of ethylene urea. 2,892,843, 6-30-59, Cl. 260-309.7.
- Levine, Mac. Coil spring assembly for furniture seats and the like. 2,910,114, 10-27-59, Cl. 155-179.
- Levine, Mark, to Grant Pulley & Hardware Corp. Door check for sliding doors. 2,869,171, 1-20-59, Cl. 16-83.
- Levine, Max: *See*—
- Temin, Samuel C., and Levine. 2,910,457.
- Levine, Morris, to Pittsburgh Plate Glass Co. Coating compositions. 2,876,135, 3-3-59, Cl. 117-76.
- Levine, Morton A., and S. W. Davis Jr. to United States of America Air Force. Circuit closing devices. 2,915,607, 12-1-59, Cl. 200-87.
- Levine, Robert J.: *See*—
- Weiss, Leo A., and Levine. 2,911,829.
- Levine, Robert J. Liquid proportionating system. 2,879,782, 3-31-59, Cl. 137-98.
- Levine, Robert J., to Avien, Inc. Capacitive proportioning system. 2,899,151, 8-11-59, Cl. 244-77.
- Levine, Samuel W., to Fairchild Camera and Instrument Corp. Luminous output transducer. 2,882,792, 4-21-59, Cl. 88-61.
- Levine, Samuel W., to Fairchild Camera and Instrument Corp. Multiple ratio electrical engraving machine. 2,899,493, 8-11-59, Cl. 178-6.6.
- Levine, Samuel W., and C. Doran, to Fairchild Camera and Instrument Corp. Step feed for electronic line scan and recording machines. 2,881,247, 4-7-59, Cl. 178-6.6.
- Levinger, Paul.: *See*—
- Augenstein, Karl C., and Levinger. 2,901,895.
- Levinson, John, to United States of America, Army. Temperature control for crystal pulling. 2,908,004, 10-6-59, Cl. 23-301.
- Levinson, Louis E. Vehicle with movable seat and figured portion. 2,880,010, 3-31-59, Cl. 280-1.192.
- Levinstein, Stanley, to Home Curtain Corp. Pleating and fastening device. 2,898,594, 8-11-59, Cl. 1-118.
- Levinthal Electronic Products, Inc.: *See*—
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- Levis, William W., Jr.: *See*—  
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- Levis, William W., Jr., and W. K. Langdon, to Wyandotte Chemicals Corp. Two-stage method for preparing carbon-substituted piperazines. 2,875,206, 2-24-59, Cl. 260-268.
- Levison, Robert and J. L. Voigt, to N. V. Onderzoekingsinstituut Research. Production of polyamide bars in continuous process. 2,867,004, 1-6-59, Cl. 18-55.
- Levit, Edward C.: *See*—  
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- Levit, Edward C., and C. R. Lopp, to Whirlpool Corp. Filtration apparatus. 2,894,631, 7-14-59, Cl. 210-152.
- Leviton, Abraham, to United States of America, Agriculture. Process for freeze-drying of milk. 2,885,788, 5-12-59, Cl. 34-5.
- Levitt, Arnold. Electric dish dryer. 2,884,708, 5-5-59, Cl. 34-18.
- Levitt, Arnold. Auxiliary tray fixture. 2,912,114, 11-10-59, Cl. 211-65.
- Levitt, Arnold. Auxiliary bathroom tray fixture. 2,912,116, 11-10-59, Cl. 211-86.
- Levitt, Arnold, and S. D. Turin. Garbage disposal unit. 2,912,175, 11-10-59, Cl. 241-46.
- Levitt, Marvin R. Multiple cell cartons. 2,909,311, 10-20-59, Cl. 229-28.
- Levitt, Milton R., to The Scholl Mfg. Co., Inc. Foot corrective pad with toe loop. 2,888,013, 5-26-59, Cl. 128-153.
- Levitt, Milton R., to The Scholl Mfg. Co., Inc. Foot corrective pads. 2,918,056, 12-22-59, Cl. 128-80.
- Levitt, Milton R., to The Scholl Mfg. Co., Inc. Corn pad and blank therefor. 2,918,057, 12-22-59, Cl. 128-81.
- Levitt, Milton R., to The Scholl Mfg. Co., Inc. Hammer toe pad. 2,918,058, 12-22-59, Cl. 128-81.
- Levitt, Milton R., to The Scholl Mfg. Co., Inc. Foot corrective pad. 2,918,059, 12-22-59, Cl. 128-81.
- Levitt, Semond, to Fruehauf Trailer Co. Plastic doors and door frames for trailers. 2,871,056, 1-27-59, Cl. 296-106.
- Levitz, Norman M.: *See*—  
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- Levkoff, David,  $\frac{1}{4}$  to E. S. and  $\frac{1}{4}$  to H. S. Levkoff, and  $\frac{1}{4}$  to E. L. Sennet. Boxes or cartons. 2,880,922, 4-7-59, Cl. 229-31.
- Levkoff, David,  $\frac{1}{4}$  to E. S. and  $\frac{1}{4}$  to H. S. Levkoff, and  $\frac{1}{4}$  to E. L. Sennet. Cartons. 2,880,923, 4-7-59, Cl. 229-31.
- Levkoff, David. Carton. 2,887,245, 5-19-59, Cl. 220-113.
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- Levkoff, David,  $\frac{1}{4}$  to E. S. Levkoff,  $\frac{1}{4}$  to H. S. Levkoff, and  $\frac{1}{4}$  to E. L. Sennet. Cartons. 2,914,233, 11-24-59, Cl. 229-16.
- Levkoff, Evelyn S.: *See*—  
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- Levolor Lorentzen, Inc.: *See*—  
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- Levoy, Monroe B., to Optical Salons Ltd. Eyeglass case. 2,903,125, 9-8-59, Cl. 206-5.
- Levy, Dudley D. Denture retainer. 2,888,746, 6-2-59, Cl. 32-2.
- Levy, Edward M., to Reflector-Hardware Corp. Merchandise support. 2,891,678, 6-23-59, Cl. 211-126.
- Levy, Edward M., to Reflector-Hardware Corp. Adjustable shelf rack and reversible bracket therefor. 2,900,085, 8-18-59, Cl. 211-90.
- Levy, Edward M., to Reflector-Hardware Corp. Shelf banding splicer. 2,900,086, 8-18-59, Cl. 211-90.
- Levy, Edward M., to Reflector-Hardware Corp. Merchandise display assembly. 2,919,034, 12-29-59, Cl. 211-148.
- Levy, Edward M., and D. R. Lopatka, to Reflector-Hardware Corp. Merchandising device. 2,910,187, 10-27-59, Cl. 211-147.
- Levy, Eli: *See*—  
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- Levy, Francis X.: *See*—  
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- Levy, Gus: *See*—  
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- Levy, Harold, and M. L. Mednick, to G. D. Searle & Co. 4-hydroxyprogesterone and esters thereof. 2,919,286, 12-29-59, Cl. 260-397.4.
- Levy, Jack M. Hair bands. 2,868,214, 1-13-59, Cl. 132-46.
- Levy, Joseph, to The Trubek Laboratories. Method of producing carbamate esters. 2,871,259, 1-27-59, Cl. 260-482.
- Levy, Joseph, to The Trubek Laboratories. Production of bright zinc or bright cadmium deposits. 2,885,330, 5-5-59, Cl. 204-50.
- Levy, Joseph, and R. M. Lusskin, to The Trubek Laboratories. Dialkyl substituted 2,3-epoxyacid esters. 2,889,339, 6-2-59, Cl. 260-348.
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- Levy, Marilyn, to United States of America, Army. Sensitized photographic substances. 2,887,381, 5-19-59, Cl. 96-94.
- Levy, Maurice. Ornamentation of textile fabrics. 2,914,875, 12-1-59, Cl. 41-1.2.
- Levy, Maurice M.: *See*—  
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- Chubb, Alexander A., Mawson, and Levy. Re. 24,680.
- Levy, Sidney E.,  $\frac{1}{2}$  to A. Blumenfeld. Plural drive loud-speaker. 2,869,668, 1-20-59, Cl. 181-27.
- Levy, Sidney E., to University Loudspeakers, Inc. Stereophonic sound propagation system. 2,904,632, 9-15-59, Cl. 179-1.
- Levy, Sidney E., and B. C. Sharp, to University Loudspeakers, Inc. Universal bracket. 2,896,901, 7-28-59, Cl. 248-278.
- Levy, William B., and C. L. Roehm, to Delaware Tool Steel Corp. Pipe driving tool attachments. 2,902,832, 9-8-59, Cl. 61-77.
- Lew, Henry Y., to California Research Corp. Synthetic detergent formulations containing N-acyl taurates. 2,874,125, 2-17-59, Cl. 252-152.
- Lew, Henry Y., and R. D. Stayner, to California Research Corp. Sulfonate detergent compositions of improved foam characteristics. 2,874,127, 2-17-59, Cl. 252-152.
- Lewandoski, Edward P. Hydraulic vehicle suspension system. 2,918,306, 12-22-59, Cl. 280-124.
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- Lewi, William. Continuous automatic clamping device. 2,896,943, 7-28-59, Cl. 271-2.1.
- Lewin, Leonard, and A. E. Pethick, to International Standard Electric Corp. Hybrid-T waveguide structure. 2,882,500, 4-14-59, Cl. 333-11.
- Lewin, Leon, to Societe des Forges et Ateliers du Creusot. Device for the control of the opening of a gate. 2,904,963, 9-22-59, Cl. 61-25.
- Lewin, Seymour Z., E. Schapiro, and R. T. Price, to Organo Inc. Electrolytic process for preparing zinc-containing adrenocorticotrophin compositions and compositions made thereby. 2,880,139, 3-31-59, Cl. 167-74.
- Lewinson, Sam: *See*—  
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- Lewis, Alfred A., and S. H. Smith; said Lewis assor. to said Smith. Outboard motor support. 2,905,132, 9-22-59, Cl. 115-41.
- Lewis, Allen H., to California Research Corp. Non-caking solid particulate detergents. 2,875,154, 2-24-59, Cl. 252-138.
- Lewis, Allen H., to California Research Corp. Manufacture of alkyl benzene sulfonate detergents. 2,897,156, 7-28-59, Cl. 252-161.
- Lewis, Charles E.: *See*—  
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- Lewis, Charles T. Portable collapsible tank. 2,915,097, 12-1-59, Cl. 150-5.
- Lewis, Clarence W. Animated toy. 2,909,868, 10-27-59, Cl. 46-241.
- Lewis, Clifford J.: *See*—  
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- Lewis, Dan, Jr., and H. S. Needham, to Crown Zellerbach Corp. Packaging rubber. 2,885,074, 5-5-59, Cl. 206-84.
- Lewis, Daniel W.: *See*—  
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- Lewis, Daniel W., to Westinghouse Electric Corp. Low viscosity polysiloxanes and compositions prepared therewith. 2,899,403, 8-11-59, Cl. 260-42.
- Lewis, Dartrey, to John A. Roebbling's Sons Corp. Machine for paying off and taking up wire on large reels. 2,868,467, 1-13-59, Cl. 242-25.
- Lewis, Donald A.: *See*—  
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- Lewis, Donald B., to General Motors Corp. Disposable and cleanable filter. 2,918,138, 12-22-59, Cl. 183-69.
- Lewis, Donald R., to Shell Development Co. Method of characterizing solid materials and method of geophysical exploration. 2,899,558, 8-11-59, Cl. 250-65.
- Lewis, Douglas R., and J. A. Jaffe. Method of making an internally lined pipe. 2,907,103, 10-6-59, Cl. 29-421.
- Lewis, Douglas T., to General Motors Corp. Transmission lock. 2,890,581, 6-16-59, Cl. 70-248.
- Lewis, Edmund P.: *See*—  
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- Lewis, Edmund P., E. W. Skelton, and P. W. F. Cochrane, to Polymer Corp. Ltd. Reactor. 2,916,361, 12-8-59, Cl. 23-288.
- Lewis, Edward E.: *See*—  
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- Lewis, Edward H., W. D. Rice, and E. Estrin, to Western Insulated Wire Co. Means and method for forming indicia on the surface of continuous vulcanized products. 2,867,001, 1-6-59, Cl. 18-6.
- Lewis, Edward L.: *See*—  
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- Lewis, Edwin S., and E. A. Thowless, to United States of America, Navy. Waveguide to coaxial transmission line transition. 2,891,225, 6-16-59, Cl. 333-98.
- Lewis, Edwin S., and C. F. Crawford, to United States of America, Navy. Antenna feed system. 2,918,673, 12-22-59, Cl. 343-786.



- Lewis, Emil H., and C. E. Thompson, to Esso Research and Engineering Co. Mild hydrofining of light virgin naphthas. 2,914,468, 11-24-59, Cl. 208-213.
- Lewis Engineering Co., The: See—  
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- Lewis, Ernest D., to E. I. du Pont de Nemours and Co. Pigment production. 2,899,278, 8-11-59, Cl. 23-202.
- Lewis, Evan T., to Worthington Mower Co. Reel-type gang mower. 2,909,882, 10-27-59, Cl. 56-7.
- Lewis, Evan T., and H. G. Sanborn, Jr., to Worthington Mower Co. Cutting assembly for rotary power mowers. 2,902,814, 9-8-59, Cl. 56-25.4.
- Lewis, Everett W.: See—  
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- Lewis, Francis B., to R. B. Borucki, d.b.a. Research Engineering Associates. Portable steps. 2,907,402, 10-6-59, Cl. 182-106.
- Lewis, Frank M., to Baldwin-Lima-Hamilton Corp. Closed cycle method of operating internal combustion engines. 2,884,912, 5-5-59, Cl. 123-1.
- Lewis, Frank M., J. H. Keenan, and K. Goldmann, to Baldwin-Lima-Hamilton Corp. Recycling method of operating for power plants. 2,895,291, 7-21-59, Cl. 60-13.
- Lewis, Frank W.: See—  
Clevett, Merton L., Jr., and Lewis. 2,894,642.
- Lewis, G. B., Co.: See—  
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- Leyland, Boris N.: See—  
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- Lieffers, William C., F. C. Riddick, Jr., and R. L. Switzer, to Union Oil Co. of California. Liquid-solids contact system. 2,913,404, 11-17-59, Cl. 208—166.
- Lieffers, William C., F. C. Riddick, Jr., and R. L. Switzer, to Union Oil Co. of California. Multiple zone fluid-solids contact system employing a dense phase pneumatic solids conveyance technique. 2,914,466, 11-24-59, Cl. 208—165.
- Liem, Robert C.: *See*—  
Hoag, William G., and Liem. 2,893,781.
- Lien, Arthur P.: *See*—  
McCaulay, David A., and Lien. 2,881,224.  
McCaulay, David A., and Lien. 2,914,584.  
McCaulay, David A., and Lien. 2,914,585.
- Lien, Arthur P., and D. A. McCaulay, to Standard Oil Co. HF-BF<sub>3</sub> isomerization of poly-secondary alkylbenzenes. 2,868,854, 1-13-59, Cl. 260—668.
- Lienart, Marcel, to St. Regis Paper Co. Apparatus for closing open mouth bags or the like. 2,893,184, 7-7-59, Cl. 53—75.
- Lierse, Kurt F., to Thompson Ramo Wooldridge, Inc. Machine tool. 2,917,874, 12-22-59, Cl. 51—92.
- Liesen, Thomas H. Reciprocating pump. 2,917,333, 12-15-59, Cl. 287—58.
- Lieser, Mathias J., to Mead Specialties Co., Inc. Normally open three-way valve. 2,896,664, 7-28-59, Cl. 137—620.
- Lieser, Mathias J., to Mead Specialties Co., Inc. Normally closed three-way valve. 2,896,665, 7-28-59, Cl. 137—620.
- Lieser, Mathias J., to Mead Specialties Co. Power cylinder assembly. 2,918,040, 12-22-59, Cl. 121—38.
- Liest, Mary G., to Allis-Chalmers Mfg. Co. Method of enameling mild steel. 2,886,463, 5-12-59, Cl. 117—8.
- Lievense, Stanley J. Fishing device. 2,886,914, 5-19-59, Cl. 43—42.39.
- Liewald, Fritz, R. Rigo, and H. Keller, to VEB Werk für Signal- und Sicherungstechnik Berlin. Voltage varying apparatus for displaying indicia on a cathode ray tube screen. 2,919,376, 12-29-59, Cl. 315—8.6.
- Life-Long Aluminum Awning Co., Inc.: *See*—  
Preaus, Charles M. 2,895,185.
- Life Time Products Corp.: *See*—  
Cloud, Pryor G., and J. M. 2,868,501.
- Lifferth, Ewald, to Dr.-Ing. Rudolf Hell Kommanditgesellschaft. Producing printing plates with selectively variable reproduction scale. 2,909,598, 10-20-59, Cl. 178—6.6.
- Lifter, Bennett M., and R. R. Seal, Jr., to Nu-Bilt Homes, Inc. Mold for swimming pools. 2,910,759, 11-3-59, Cl. 25—124.
- Liftext Slings, Inc.: *See*—  
Barthule, George. 2,903,291.
- Liftman, David. Beach umbrella anchor. 2,876,974, 3-10-59, Cl. 248—44.
- Liftron Corp.: *See*—  
Bornemann, William. 2,883,182.
- Liftronic, Inc.: *See*—  
Ginte, Philip G. 2,882,044.
- Ligett, Waldo B.: *See*—  
Closson, Rex D., Ligett, and Kolka. 2,868,842.
- Ligett, Waldo B., C. N. Wolf, and R. D. Closson, to Pittsburgh Coke and Chemical Co. N-phenylmaleamic acid esters as fungicides. 2,885,319, 5-5-59, Cl. 167—30.
- Liggett, John A.: *See*—  
Fricke, Roger H., and Liggett. 2,875,386.
- Liggett, Robert W., W. C. Mussulman, D. F. Rentshler, and J. Ziffer, to A. E. Staley Mfg. Co. Production of amyloglucosidase. 2,881,115, 4-7-59, Cl. 195—66.
- Light, Douglas J. N., and B. J. Blair. Septic and antiseptic sewage disposal unit. 2,907,463, 10-6-59, Cl. 210—202.
- Light, George G., and H. A. Jansson, to The Western Union Telegraph Co. Book message adapter with number checking. 2,878,305, 3-17-59, Cl. 178—2.
- Light, George S. Price indicating tickets. 2,893,145, 7-7-59, Cl. 40—25.
- Light, George S. Pin positioning device. 2,917,748, 12-22-59, Cl. 1—49.7.
- Light, James A., Sr. Lawn edging attachment for tractors. 2,906,080, 9-29-59, Cl. 56—25.4.
- Light, James W.: *See*—  
Geyer, Howard M., Bullock, and Light. 2,879,746.  
Geyer, Howard M., and Light. 2,886,008.  
Geyer, Howard M., and Light. 2,891,380.  
Geyer, Howard M., and Light. 2,911,844.
- Light Metals Research Laboratory, Inc.: *See*—  
Paconis, George A. 2,869,370.
- Light, Rupert E., Jr.: *See*—  
Greenspan, Frank P., and Light. 2,875,178.
- Lighthbody, Alexander, and J. M. Johnston, to Sir W. G. Whitworth Armstrong Aircraft Ltd. Self-projected missiles. 2,898,856, 8-11-59, Cl. 102—49.
- Lightbourn, Jose A. Coil spring lowering and stabilizing devices. 2,896,940, 7-28-59, Cl. 267—20.
- Lightfoot, Richard O.: *See*—  
Konopka, Alfred Z., and Lightfoot. 2,914,180.
- Lighthipe, Charles H.: *See*—  
De Castro, Arthur, Lighthipe, and Groll. 2,868,734.
- Lighthipe, Charles H., and H. F. Leupold, to Nopco Chemical Co. Textile sizing agents plasticized with blends of water-soluble polyhydroxy alcohols, aliphatic amides and hydroxy acids. 2,876,205, 3-3-59, Cl. 260—29.6.
- Lighting Specialties, Inc.: *See*—  
Vogel, William D., and Rausch. 2,895,040.
- Lighty, Paul E., to International Telephone and Telegraph Corp. Selenium rectifier. 2,889,500, 6-2-59, Cl. 317—241.



- Lignes Telegraphiques et Telephoniques: *See*—  
Saintesprit, Rose B. P. 2,897,297.
- Lignosol Chemicals Ltd.: *See*—  
Russell, John K. and Byrd. 2,901,429.
- Ligtheim, Salomon P., and C. W. Schutte, to South African Coal, Oil and Gas Corp. Ltd. Waxes containing oxygen. 2,917,392, 12-15-59, Cl. 106-10.
- Liguori, Anthony: *See*—  
Di Santi, Nicholas, Canfora, and Liguori. 2,868,875.  
Phelps, Canfora, Liguori, and Mandato. 2,903,513.
- Liguori, Thomas. Clicker block planer. 2,871,635, 2-3-59, Cl. 51-241.
- Lihnell Vagn Aktiebolag: *See*—  
Frieborg, Bengt. 2,904,349.
- Likel, Harry C., to The Western Union Telegraph Co. Fault alarm radio repeater system. 2,876,341, 3-3-59, Cl. 250-15.
- Likens, Glen V. Measurement controls or timers for folding machines. 2,871,010, 1-27-59, Cl. 270-81.
- Likens, James R., Jr., to Likens Mfg. Co. Conveyor bucket. 2,916,135, 12-8-59, Cl. 198-144.
- Likens Mfg. Co.: *See*—  
Likens, James R., Jr. 2,916,135.
- Lilamand, Monique B.: *See*—  
Raymond, Francois H., and Lilamand. 2,897,359.
- Liley, Otis M. Device for metering and expanding anhydrous ammonia gas. 2,909,197, 10-20-59, Cl. 138-45.
- Lilienfeld, Julius E. Shape-controlling garments. 2,880,730, 4-7-59, Cl. 123-444.
- Lilienfeld, Julius E., to S. D. Warren and R. F. Burkard. Container seal for electrolytic capacitors. 2,884,575, 4-28-59, Cl. 317-230.
- Lilienfeld, Julius E. Resilient retiform-fabric support surfaces. 2,891,603, 6-23-59, Cl. 155-187.
- Lilienfeld, Julius E. Upholstery article. 2,907,376, 10-6-59, Cl. 155-178.
- Lilja, Oscar G., to Rockford Screw Products Co. Display rack. 2,905,330, 9-22-59, Cl. 211-49.
- Liljeblad, Ragnar, to Allmanna Svenska Elektriska Aktiebolaget. Gas cooled nuclear reactor. 2,915,446, 12-1-59, Cl. 204-193-2.
- Liljemark, Frank H., to Plews Mfg. Co. Metering device for liquid lubricant. 2,899,017, 8-11-59, Cl. 184-27.
- Liljengberg, Ove B., to Telefonaktiebolaget L M Ericsson. Cable connector member. 2,890,433, 6-9-59, Cl. 339-48.
- Liljengren, Curtis P., deceased; S. S. Liljengren, sole legatee. Seat construction. 2,893,476, 7-7-59, Cl. 155-179.
- Liljengren, Shirley S.: *See*—  
Liljengren, Curtis P. 2,893,476.
- Lilleberg, Richard N., to The Flexan Corp. Abrading disk mount. 2,918,760, 12-29-59, Cl. 51-168.
- Lilley, Esther A. Telephone. 2,874,229, 2-17-59, Cl. 179-103.
- Lilley, John R., to Narrow Fabrics (Lilleys) Ltd. Heading tape for draw curtains. 2,888,958, 6-2-59, Cl. 139-390.
- Lillibridge, Eldon T.: *See*—  
Warsap, Leo W., Muller, and Lillibridge. 2,891,427.
- Lillie, Gordon E., to Bryant Chucking Grinder Co. Gage system. 2,895,264, 7-21-59, Cl. 51-165.
- Lillienberg, August W.: *See*—  
Duffy, John R., Holz, and Lillienberg. 2,896,004.
- Lillquist, Torsten O., to General Motors Corp. Wheel lock and wheel slide detection system. 2,898,582, 8-4-59, Cl. 340-268.
- Lillquist, Torsten O., to General Motors Corp. Power train control. 2,907,892, 10-6-59, Cl. 290-17.
- Lilly, Edward F.: *See*—  
Dale, Walter G., and Lilly. 2,898,210.
- Lilly, Eli, and Co.: *See*—  
Baum, William E., and Federman. 2,912,360.  
Behrens, Otto K., and Ensminger. Re. 2,4748.  
Cannon, William N. 2,888,462.  
Doran, Wilbur J. 2,872,448.  
Kline, Granville B. 2,873,294.  
Lake, James H. 2,918,691.  
McCowen, Max C., and Wiley. 2,893,914.  
Mills, Jack. 2,903,459.  
Mills, Jack. 2,906,757.  
Nash, J. Frank. 2,887,509.  
Pohland, Albert. 2,904,550.  
Traverso, John J., and Whitehead. 2,874,157.  
Traverso, John J., and Whitehead. 2,885,418.  
Zuck, Donald A. 2,874,089.
- Lilly, James J. Dishwasher. 2,896,642, 7-28-59, Cl. 134-93.
- Lilly, Joseph C., to The Plastic Wire & Cable Corp. Twisted conductors and cables and method and apparatus for making the same. 2,869,316, 1-20-59, Cl. 57-93.
- Lily of France, Inc.: *See*—  
Spitzer, Anne. 2,895,481.  
Spitzer, Anne. 2,899,963.
- Lily-Tulip Cup Corp.: *See*—  
Flack, Alfred. 2,879,917.
- Lima, Harald. Packing of plates and the like by means of a slip of pasteboard or other material. 2,874,521, 2-24-59, Cl. 53-3.
- Limark Corp.: *See*—  
Walker, James H., Carr, and Horn. 2,898,825.
- Limb, Frank. Compound movement centrifugal ball-mill. 2,874,911, 2-24-59, Cl. 241-175.
- Limberger, John: *See*—  
Briskie, Anthony, and Limberger. 2,890,907.
- Limberger, Walter, to Messrs. Lumoprint Zindler K. G. Means for moistening the films of photographic film-supports. 2,878,741, 3-24-59, Cl. 95-94.
- Limbers, Don R., to Pittsburgh Plate Glass Co. Polisher block swivel joint. 2,883,805, 4-28-59, Cl. 51-168.
- Limburg, Pieter C., to American Enka Corp. Manufacture of viscose thread. 2,914,375, 11-24-59, Cl. 18-54.
- Limelite Corp.: *See*—  
Bounds, William E. 2,868,958.
- Limle, Herbert A. Faucet and drinking fountain. 2,878,059, 3-17-59, Cl. 299-10.
- Limper, Arthur F.: *See*—  
Bergeron, Charles R., and Limper. 2,915,539.  
Bingeman, J. Byron, and Limper. 2,868,697.
- Limpert, Alexander S., and R. J. Liquid proportioning pump. 2,869,467, 1-20-59, Cl. 103-37.
- Limpert, Robin J.: *See*—  
Limpert, Alexander S. and R. J. 2,869,467.
- Lin, Hung C., to Radio Corp. of America. Amplitude modulated oscillator systems. 2,886,653, 5-12-59, Cl. 179-100.11.
- Lin, Hung C., to Radio Corp. of America. Semiconductor amplifier circuits. 2,896,029, 7-21-59, Cl. 179-171.
- Lin, Wei C.: *See*—  
Forward, Frank A., and Lin. 2,867,529.
- Lincoln, Clovis W., to General Motors Corp. Fluid system with priority valve. 2,880,586, 4-7-59, Cl. 60-97.
- Lincoln, Clovis W., P. B. Zeigler, and H. S. Smith, to General Motors Corp. In-line hydraulic power steering gear. 2,897,684, 8-4-59, Cl. 74-388.
- Lincoln, Edward H.: *See*—  
Wright, John B., and Lincoln. 2,875,248.
- Lincoln Electric Co. Ltd.: *See*—  
Handley, John. 2,887,972.  
Landis, George G. 2,873,357.  
Landis, George G. 2,909,642.  
Landis, George G., Brown, and Mosgrove. 2,909,649.  
Landis, George G., and Carroll. 2,909,648.  
Landis, George G., and Patton. 2,909,650.  
Landis, George G., and Patton. 2,909,778.
- Lincoln, Fay S. Pin fastener. 2,900,692, 8-25-59, Cl. 24-161.
- Lincoln, Fay S. Pin ticket. 2,900,693, 8-25-59, Cl. 24-161.
- Lincoln, Frank H., Jr.: *See*—  
Hogg, John A., and Lincoln. 2,875,200.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6-methylated and 11-oxygenated-17 $\alpha$ -hydroxy-21-fluoro 4-pregnene 3,20 diones. 2,867,631, 1-6-59, Cl. 260-397.45.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6-methyl steroid compounds. 2,867,632, 1-6-59, Cl. 260-397.45.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 11-oxygenated-6-methyl-17 $\alpha$ -hydroxy-4-pregnene-3,20-diones. 2,867,633, 1-6-59, Cl. 260-397.45.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 11-oxygenated 6-methyl-pregnadienes. 2,867,634, 1-6-59, Cl. 260-397.45.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6-methyl, 9 $\alpha$ ,21-difluoro, 11 oxygenated, 17 $\alpha$ -hydroxy-4-pregnene-3,20 dione steroid compounds. 2,867,635, 1-6-59, Cl. 260-397.45.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6-methyl-9 $\alpha$ ,21 difluoro-11 oxygenated 17 $\alpha$ -hydroxy-1,4 pregnadiene-3,20 dione steroid compounds. 2,867,636, 1-6-59, Cl. 260-397.45.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6 $\alpha$  methyl, 9 $\alpha$ F, 17 $\alpha$  OH 1,4 pregnadiene compounds. 2,867,637, 1-6-59, Cl. 260-397.45.
- Lincoln, Frank H., Jr., W. P. Schneider, and G. B. Spero, to The Upjohn Co. 6-methyl-9 $\alpha$  fluoro-11 oxygenated pregnenes. 2,867,638, 1-6-59, Cl. 260-397.45.
- Lincoln, Henry A., and W. A. Klein, to The Dow Chemical Co. Dispensing container for sheet material, 2,888,181, 5-26-59, Cl. 225-51.
- Lincoln, L. H., & Son, Inc.: *See*—  
Twining, Ralph H. 2,874,545.
- Lincoln, Murray. Spike-grip for interchangeable fur collars. 2,882,530, 4-21-59, Cl. 2-98.
- Lind Corp.: *See*—  
Lindgren, James B. 2,910,552.
- Lind, Wallace G.: *See*—  
Dawkins, Kenneth, and Lind. 2,912,650.
- Lind, Warren K., to International Business Machines Corp. Storage shifting apparatus. 2,885,657, 5-5-59, Cl. 340-173.
- Lindhall, Ernest. Medicament applicator for the tongue. 2,872,925, 2-10-59, Cl. 128-260.
- Lindhall, Harold A., to The Pure Oil Co. Fixed bed regenerative refractory pyrolytic gas conversion process. 2,886,615, 5-12-59, Cl. 260-683.
- Lindars, John H., to Marconi's Wireless Telegraph Co. Ltd. Signal delay circuit arrangements. 2,892,938, 6-30-59, Cl. 250-27.
- Lindauer, Robert L., Jr., to Jersey Production Research Co. Recovery of hydrocarbons from subterranean reservoirs. 2,885,003, 5-5-59, Cl. 166-9.
- Lindberg, Caryl A., to The Emerson Electric Mfg. Co. Light indicator switch. 2,918,555, 12-22-59, Cl. 200-167.
- Lindberg, David P. Criminal apprehension aid. 2,876,935, 3-10-59, Cl. 222-145.



- Lindberg Engineering Co.: *See*—  
 Aites, William K. 2,888,332.  
 Duffy, John R., Holz, and Lillienberg. 2,896,004.  
 Freutel, Kenneth A. 2,905,798.  
 Harris, George V. 2,888,506.  
 Holz, George W. 2,882,507.  
 Lang, Karl A., and Stevenson. 2,892,005.  
 Stevenson, Cary H. 2,891,303.  
 Stringham, Leonidas K., and Jerabek. 2,895,863.
- Lindberg, Fritz L. Screw holder for screw drivers. 2,893,455, 7-7-59, Cl. 145-52.
- Lindberg, Glenn A. Machine for handling rolls of floor covering. 2,912,180, 11-10-59, Cl. 242-58.6.
- Lindberg, Paul W. Display carton construction. 2,872,031, 2-3-59, Cl. 206-45.34.
- Lindberg, Ralph: *See*—  
 Brault, Andre R., and Lindberg. 2,900,740.
- Lindberg, Ramon L., to Sinclair Refining Co. Corrosion prevention method and composition. 2,882,227, 4-14-59, Cl. 252-8.55.
- Lindberg, William S.: *See*—  
 Hoven, Alfred C., Lindberg, and Nordmark. 2,886,098.
- Lindbergh, Karl E. F.: *See*—  
 Bargholtz, Hubert F. S., Lindbergh, Schmechtig, and Ström. 2,912,043.
- Lindblad, Lars A., to Aktiebolaget Bofors. Method of manufacturing electric igniters and an electric igniter made by said method. 2,907,100, 10-6-59, Cl. 29-155.5.
- Lindblad, Karl E.: *See*—  
 Björkman, Anders A. V., Lindblad, and Planfeldt. 2,874,948.
- Lindbloom, William A., to General Telephone Laboratories, Inc. Toll board. 2,908,764, 10-13-59, Cl. 179-27.
- Lindholm, Frank W., to Welsh Mfg. Co. Goggle. 2,877,464, 3-17-59, Cl. 2-14.
- Lindbom, Torsten H., to Fairchild Engine and Airplane Corp. Pneumatic cabin temperature control system. 2,870,964, 1-27-59, Cl. 236-1.
- Linde, Hans O.: *See*—  
 Bales, Charles A., and Linde. 2,906,249.
- Linde, Harry W.: *See*—  
 Schildknecht, Calvin E., and Linde. 2,917,045.
- Linde, Hermann: *See*—  
 Wucherer, Johannes, Linde, and Jakob. 2,895,304.
- Linde, Hilding. Refuse collecting vehicle. 2,877,909, 3-17-59, Cl. 214-302.
- Linde, Hilding. Refuse collecting vehicle. 2,904,199, 9-15-59, Cl. 214-302.
- Linde, Leonard J. Collapsible table employing legs for supporting the table in extended and collapsed positions. 2,913,294, 11-17-59, Cl. 311-89.
- Lindeke, Charles B., 1/2 to C. A. Bowes. Envelope construction. 2,894,676, 7-14-59, Cl. 229-73.
- Lindell, Sigurd I., to S & C Electric Co. Fuse link construction. 2,872,549, 2-3-59, Cl. 200-121.
- Lindell, Sigurd I., and J. S. Ferguson, to S & C Electric Co. Switch contact construction. 2,894,101, 7-7-59, Cl. 200-166.
- Lindeman, Charles A., Jr. Duplex electrical fused wall outlet. 2,875,295, 2-24-59, Cl. 200-115.5.
- Lindeman, Harold D.: *See*—  
 Bergstrom, Ralph W., and Lindeman. 2,897,536.
- Lindeman, Jesse G., and O. L. Durland, to Deere & Co. Adjustable drawbar. 2,916,300, 12-8-59, Cl. 280-479.
- Lindeman, Joseph F., and W. G. Dobbs, to Northwest Equipment Co., Inc. Apparatus for packing articles into containers. 2,910,193, 10-27-59, Cl. 214-6.
- Lindemann, Arthur W., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,873,757, 2-17-59, Cl. 137-101.25.
- Lindemann, Hans, to Th. Calow & Co. Centering device for clamping workpieces. 2,893,275, 7-7-59, Cl. 77-63.
- Lindemann, Howard C.: *See*—  
 Mindheim, Daniel J., and Lindemann. 2,907,535.
- Lindemann, Robert E., to Harris-Intertype Corp. Lithographic dampening mechanism and method. 2,913,980, 11-24-59, Cl. 101-148.
- Linden, Carl E.: *See*—  
 Knosp, Robert N., Linden, and Wetzel. 2,882,761.  
 Knosp, Robert N., Linden, and Wetzel. 2,908,978.
- Linden, Hans W.: *See*—  
 Feichtinger, Hans, and Linden. 2,882,199.
- Linden, Henry R.: *See*—  
 Pettyjohn, Elmore S., and Linden. 2,882,138.
- Linden, Henry R., J. M. Reid, and W. G. Bair, to Institute of Gas Technology. Process for manufacturing olefins and diolefines. 2,881,232, 4-7-59, Cl. 260-683.
- Linden, Herbert E., to American Mollerizing Corp. Method and means for continuously pre-treating and coating vibrating metal objects. 2,900,273, 8-18-59, Cl. 117-51.
- Linden, Herbert E., and D. W. Mitchell, to American Mollerizing Corp. Method and means for continuous hot-dip aluminizing of materials. 2,890,134, 6-9-59, Cl. 117-51.
- Linden, Johan G. B.: *See*—  
 Jorpes, Johan E., Mutt, Rastgeldi, and Linden. 2,878,159.
- Lindén, Martin, to Allmanna Svenska Elektriska Aktiebolaget. Starting device for reserve aggregates driven by a combustion engine. 2,879,757, 3-31-59, Cl. 123-179.
- Linden, Robert F., to trustees for the Stockholders of the Major Engineering Corp. Electrodeposition of an aluminum-containing coating. 2,911,341, 11-3-59, Cl. 204-56.
- Lindenberger, Paul H. Multiple suction cup. 2,910,264, 10-27-59, Cl. 248-362.
- Lindenblad, Nils E., to Radio Corp. of America. Water antenna. 2,867,802, 1-6-59, Cl. 343-767.
- Lindenblad, Nils E., to Radio Corp. of America. Thermoelectric heat pumps. 2,870,610, 1-27-59, Cl. 62-3.
- Lindenblad, Nils E., to Radio Corp. of America. Thermoelectric cooling apparatus. 2,872,788, 2-10-59, Cl. 62-3.
- Lindenblad, Nils E., to Radio Corp. of America. Thermoelectric heat pumps. 2,884,762, 5-5-59, Cl. 62-3.
- Lindenblad, Nils E., to Radio Corp. of America. Thermoelectric heat pump. 2,903,857, 9-15-59, Cl. 62-3.
- Lindenmann, Adolf J.: *See*—  
 Jucker, Ernst, Ebnother, and Lindenmann. 2,903,460.  
 Jucker, Ernst, Ebnother, and Lindenmann. 2,904,549.
- Lindenmeyer, Carl W. Quick operating coupling. 2,919,144, 12-29-59, Cl. 284-9.
- Lindenschmidt, Robert E., to Whirlpool Corp. Vacuum release mechanism. 2,882,115, 4-14-59, Cl. 312-296.
- Linder, Bertram N., to Linder Brothers, Inc. Coat front construction and method of making. 2,907,044, 10-6-59, Cl. 2-97.
- Linder, Bertram N., and N. H. Young, to Linder Brothers, Inc. Collapsible wardrobe cross bar. 2,907,452, 10-6-59, Cl. 206-7.
- Linder Brothers, Inc.: *See*—  
 Linder, Bertram N. 2,907,044.  
 Linder, Bertram N., and Young. 2,907,452.
- Linder, Edward, Jr. Occluders for spectacle attachment. 2,895,376, 7-21-59, Cl. 88-20.
- Linder, Ernest G., to Radio Corp. of America. Semiconductor devices. 2,914,665, 11-24-59, Cl. 250-17.
- Linder, Frank X., to United States of America, Navy. Compensator for magnetic detection equipment. 2,891,216, 6-16-59, Cl. 324-43.
- Linder, Peter J. Motor vehicle body. 2,878,054, 3-17-59, Cl. 296-24.
- Linder, Rudolf, J. Rebutisch, and E. Merkl, to Robert Bosch G. m. b. H. Automatic lamp regulating means. 2,875,322, 2-24-59, Cl. 240-7.1.
- Linderman Engineering Co., Inc.: *See*—  
 Linderman, Garrett B. 2,892,951.
- Linderman, Garrett B., to GBL Corp. Pulse comparing apparatus. 2,874,900, 2-24-59, Cl. 235-103.5.
- Linderman, Garrett B., to Linderman Engineering Co., Inc. Detecting apparatus. 2,892,951, 6-30-59, Cl. 250-220.
- Linderoth, Erik T. Dust discharge devices. 2,889,906, 6-9-59, Cl. 193-32.
- Lindert, Albert W.: *See*—  
 Brehm, Allen E., and Lindert. 2,880,095.
- Lindgren, Edwin G. Portable structure. 2,867,853, 1-13-59, Cl. 20-1.6.
- Lindgren, Erik A. Vehicle capable of transferring itself from a liquid to a solid supporting medium. 2,894,476, 7-14-59, Cl. 115-1.
- Lindgren, Erik A. Traction device. 2,905,219, 9-22-59, Cl. 152-228.
- Lindgren, Howard W.: *See*—  
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 Nordquist, Richard A., Miller, Bukosky, and Lindgren. 2,898,685.
- Lindgren, James B., to Lind Corp. Switch. 2,910,552, 10-27-59, Cl. 200-24.
- Lindgren, William L., to The Turner Brass Works. Hand torch. 2,888,979, 6-2-59, Cl. 158-33.
- Lindheim, Ottar. Portable, electrically powered, hand-operated saw guide. 2,876,808, 3-10-59, Cl. 143-6.
- Lindheim, Stephen W.: *See*—  
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- Lindholm, Frank J., to Armstrong-Blum Mfg. Co. Control system for band saw blade. 2,914,100, 11-24-59, Cl. 143-160.
- Lindholm, Frank J., to Armstrong-Blum Mfg. Co. Feeler device for saw blade steering mechanisms. 2,914,102, 11-24-59, Cl. 143-160.
- Lindland, Kaare P.: *See*—  
 Brightbill, Edgar N., and Lindland. 2,890,214.
- Lindland, Kaare P., to E. I. du Pont de Nemours and Co. Recovery process for polyethylene. 2,908,675, 10-13-59, Cl. 260-94.9.
- Lindlar, Herbert: *See*—  
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- Lindlar, Herbert, M. Montavon, and R. Rüegg, to Hoffmann-La Roche Inc. Method for the production of dicarbonylpolyenes. 2,870,212, 1-20-59, Cl. 260-593.
- Lindly & Co., Inc.: *See*—  
 Mindheim, Daniel J. 2,878,395.  
 Mindheim, Daniel J., and Lindemann. 2,907,535.
- Lindman, Philip C., to Dallas Iron and Wire Works, Inc. Pillars or columns. 2,897,929, 8-4-59, Cl. 189-38.
- Lindmark, Howard C. Boat holding apparatus. 2,915,276, 12-1-59, Cl. 248-361.
- Lindner, Ernst: *See*—  
 Ehrhart, Gustav, Hennig, Lindner, and Ott. 2,876,262.  
 Ruschig, Heinrich, Fugmann, Eggert, Fischer, and Lindner. 2,874,156.
- Lindner, Herbert, G. m. b. H.: *See*—  
 Schultze, Kurt H. 2,871,634.  
 Stade, Gerhard. 2,871,716.



- Lindner, Karol. Shuttle removers for embroidering machines. 2,902,957, 9-8-59, Cl. 112-186.
- Lindner, Paul L., to Witco Chemical Co., Inc. Emulsifiable toxicant compositions and emulsifying agents therefor. 2,898,267, 8-4-59, Cl. 167-42.
- Lindner, Wolfram P. G. Cutter. 2,869,218, 1-20-59, Cl. 29-103.
- Lindner, Wolfram, to W. Ferd. Klingelberg, Sohne. Hobs with inserted edge teeth. 2,881,508, 4-14-59, Cl. 29-105.
- Lindow, Arthur L.: See—  
Mackiewicz, Edward J., and Lindow. 2,911,665.
- Lindquist, August B.: See—  
Tilles, Harry, and Lindquist. 2,913,325.  
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- Lindquist, Elmer W., to Drever Co. Roller furnace construction and method of maintenance operation. 2,872,174, 2-3-59, Cl. 263-6.
- Lindquist, Robert M.: See—  
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- Lindquist, Robert M. Process for the preparation of anhydro bases from cycloammonium quaternary salts. 2,891,950, 6-23-59, Cl. 260-240.
- Lindqvist, Karl G.: See—  
Langballe, Riddervold, Norlindh, and Lindqvist. 2,875,653.
- Lindridge, Charles D., 1/4 to L. C. Krazinski. System and apparatus for reproducing and re-recording music. 2,888,517, 5-26-59, Cl. 179-1.
- Lindsay, Alexander K., to The Budd Co. Automobile chassis or underframe structure. 2,901,266, 8-25-59, Cl. 280-106.
- Lindsay Co., The: See—  
Techler, Thomas W. 2,904,062.
- Lindsay, David, to Mine Safety Appliances Co. Air filtering device. 2,890,762, 6-16-59, Cl. 183-40.
- Lindsay, James B., to Kahle Engineering Co. Device for clamping electrodes and the like. 2,891,356, 6-23-59, Cl. 49-2.
- Lindsay, James E., to Radio Corp. of America. Temperature stabilized two-terminal semi-conductor filter circuit. 2,892,165, 6-23-59, Cl. 333-80.
- Lindsay, Kenneth L., to International Telephone and Telegraph Corp. Apparatus for forming cathodes. 2,870,315, 1-20-59, Cl. 219-35.
- Lindsay, Maurice E., to Spindle Specialty Co. Cotton picking spindle. Re. 24,612, 3-3-59, Cl. 56-50.
- Lindsay, Onos M., to Eastman Oil Well Survey Co. Deflecting tools. 2,876,992, 3-10-59, Cl. 255-1.6.
- Lindseth, Clinton O.: See—  
Scal, Robert K-F, and Lindseth. 2,889,493.
- Lindseth, Clinton O., to United States of America, Navy. Shaped processed circuitry. 2,880,378, 3-31-59, Cl. 317-101.
- Lindsey, Alfred. Brake fluid level indicator. 2,907,844, 10-6-59, Cl. 200-84.
- Lindsey, Ernest E. Cooker. 2,907,267, 10-6-59, Cl. 99-339.
- Lindsey, Frederick H. Bed-chest unit. 2,888,687, 6-2-59, Cl. 5-2.
- Lindsey, Joe P., to Phillips Petroleum Co. Signal coherence measurement. 2,897,477, 7-28-59, Cl. 340-15.
- Lindsey, Joe P., and D. T. Jones, to Phillips Petroleum Co. Interpolation function network. 2,878,999, 3-24-59, Cl. 235-151.
- Lindsey, Richard V., Jr.: See—  
Jenner, Edward L., and Lindsey. 2,876,254.
- Lindsey, Robert J., to American Steel Foundries. Hydraulic decompression arrangement. 2,870,782, 1-27-59, Cl. 137-505.
- Lindstaedt, Frank F., to G. H. Graves and G. W. Gray. Process of and means for chlorinating swimming pools or the like. 2,887,444, 5-19-59, Cl. 204-152.
- Lindstrom, Dag V. L., and A. G. Cronsten. Device for indication of a certain communication path and/or its electrical characteristics. 2,873,321, 2-10-59, Cl. 179-175.2.
- Lindstrom, Evert P. Spectacle attachment. 2,900,639, 8-25-59, Cl. 2-13.
- Lindstrom, Harold R.: See—  
Sorensen, Knud B., and Lindstrom. 2,895,280.
- Lindstrom, Henry L., to Westinghouse Electric Corp. Control system for a load hoisting device. 2,913,129, 11-17-59, Cl. 212-21.
- Lindstrom, John A., to Jones & Laughlin Steel Corp. Device for indicating pouring height of steel ingot. 2,902,766, 9-8-59, Cl. 33-126.7.
- Lindstrom, Lilla. Handgrip for wheel chairs. 2,876,486, 3-10-59, Cl. 16-110.
- Lindstrom, Nils H. Multiple-layer floor boards. 2,878,530, 3-24-59, Cl. 20-7.
- Lindstrom, Oscar H., and J. A. Wandas, to Geo. A. Hormel & Co. Apparatus for loosening and removing hide from the leg of an animal. 2,914,795, 12-1-59, Cl. 17-21.
- Lindstrom, Walter A., and H. A. Solsberg, to United States Steel Corp. Apparatus for stripping rolled tube blank from mandrel bar. 2,901,818, 9-1-59, Cl. 29-235.
- Line, Gerald D., to Eaton Mfg. Co. Hydraulic valve lifter. 2,874,685, 2-24-59, Cl. 123-90.
- Line, Russel E.: See—  
Barish, Thomas, Irwin, Line, and Wright. 2,886,112.
- Linen Industry Research Association of The Research Institute: See—  
Matthew, John A., and Spencer-Smith. 2,905,976.
- Linen Thread Co., Inc., The: See—  
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- Ling, Daniel: See—  
Weinaug, Charles F., and Ling. 2,867,277.
- Ling Electronics, Inc.: See—  
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Stockman, William E. 2,888,526.
- Ling, Sung-Ching. Construction for anemometers of the hot wire type. 2,870,305, 1-20-59, Cl. 201-63.
- Lingal, Harry J., to Westinghouse Electric Corp. Switching device. 2,889,434, 6-2-59, Cl. 200-148.
- Lingard, Cyril A., to John Morris & Sons (Detectors) Ltd. Apparatus for detecting temperature changes. 2,909,926, 10-27-59, Cl. 73-362.
- Lingenfelder, Phil L. Carbon holder. 2,868,573, 1-13-59, Cl. 287-119.
- Lingenfelder, Daniel J.: See—  
Detrie, Arthur J., Lingenfelder, O'Neil, Stayboldt, and Troeger. 2,916,197.
- Lingenfelder, Daniel J., R. D. Grover, and C. A. Forbes, Jr., to Polyfab Co. Flexible bags of plastic sheet material. 2,878,849, 3-24-59, Cl. 150-5.
- Linhof, Valentin: See—  
Karpf, Nikolaus. 2,909,110.
- Linhorst, Erwin F., to United States Rubber Co. Automatic rubber molding machine. 2,873,475, 2-17-59, Cl. 18-4.
- Linhorst, Erwin F., to United States Rubber Co. Method and apparatus for molding articles. 2,900,663, 8-25-59, Cl. 18-5.
- Liniger, Rudolph H. Safety pin corrosive inhibitor. 2,873,901, 2-17-59, Cl. 223-109.
- Link Aviation, Inc.: See—  
Dietrich, Arnold K. 2,919,322.  
Hanford, Richard W. 2,906,830.  
Hayes, Monson H. 2,912,671.  
Hunt, John M. 2,912,524.  
Hemstreet, Harold S. 2,885,792.  
Hemstreet, Harold S., and Eckhardt. 2,868,450.  
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Schwamm, Edward G., and Duren. 2,904,253.  
Smith, Robert L., and Hemstreet. 2,890,528.  
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- Link-Belt Co.: See—  
Erickson, Willard E. 2,867,337.  
Erisman, Maurice J. 2,883,035.  
Francis, Norman L., and Berg. 2,884,229.  
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Haaff, George W. 2,868,356.  
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Newell, Elwin C. 2,901,113.  
Schroth, John J. 2,899,059.  
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- Link, Charles T., Jr., to Elgin Sweeper Co. Street sweeper side broom drive and support. 2,895,151, 7-21-59, Cl. 15-87.
- Link, Charles T., Jr., and J. S. Gooden, to Elgin Sweeper Co. Street sweeper main broom drive and support. 2,895,150, 7-21-59, Cl. 15-83.
- Link, Edwin A., to R T & E Corp. Circuit breaker. 2,918,557, 12-22-59, Cl. 200-229.
- Link, Hilarius. Moistening device. 2,876,735, 3-10-59, Cl. 118-266.
- Link, Josef: See—  
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- Link, Joseph L. Depth gauging attachment for hand saws. 2,888,967, 6-2-59, Cl. 145-35.
- Link, Karl P.: See—  
Schroeder, Collin H., and Link. 2,872,457.
- Link, Manfred, to Triumph Werke Nurnberg A.G. Motor control for electrical typewriters. 2,903,118, 9-8-59, Cl. 197-17.
- Link, Peter J.: See—  
Beaulieu, Delton C., and Link. 2,886,190.
- Linke, Johannes, to Machine Tool Works Oerlikon, Administration Co. Container for a cartridge belt. 2,870,681, 1-27-59, Cl. 89-34.
- Linke, Johannes, to Machine Tool Works Oerlikon, Administration Co. Magazine rocket projectors. 2,908,200, 10-13-59, Cl. 89-1.7.
- Linke, Johannes, and H. Michel, to Machine Tool Works Oerlikon Administration Co. Magazine rocket projectors. 2,915,945, 12-8-59, Cl. 89-1.7.
- Linke, Paul: See—  
Velde, Hermann, and Linke. 2,913,372.
- Linker, Joe B., Jr.: See—  
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- Linkogel, Albert A. Sprig planter. 2,887,075, 5-19-59, Cl. 111-3.
- Linn, Carl B.: See—  
Vesely, Jerome A., and Linn. 2,891,966.
- Linn, Carl B., to Universal Oil Products Co. Hydrocarbon gels. 2,881,060, 4-7-59, Cl. 44-7.
- Linn, Carl B., to Universal Oil Products Co. Preparation of para-substituted cyclic compounds. 2,885,451, 5-5-59, Cl. 260-668.



- Linn, Carl B., to Universal Oil Products Co. Catalyst compositions. 2,886,535, 5-12-59, Cl. 252-433.
- Linn, Carl B., to Universal Oil Products Co. Process for preparing high molecular weight esters. 2,890,229, 6-9-59, Cl. 260-410.6.
- Linn, Carl B., to Universal Oil Products Co. Catalytic condensation of certain carbohydrates with aromatic hydrocarbons and haloaromatic compounds. 2,905,723, 9-22-59, Cl. 260-618.
- Linn, Carl B., to Universal Oil Products Co. Alkyl-trihydroxy-tetrahydronaphthyl-ethylene glycols. 2,908,720, 10-13-59, Cl. 260-618.
- Linn, Carl B., to Universal Oil Products Company. Process for the preparation of high molecular weight condensation product. 2,909,539, 10-20-59, Cl. 260-410.5.
- Linn, Frank F. Dolly and demountable part therefor. 2,867,474, 1-6-59, Cl. 298-5.
- Linn, Frank F. Ball and socket coupling with resilient liner. 2,874,976, 2-24-59, Cl. 280-512.
- Linn, Jerome S.: *See—*
- Gindes, Philip, and Linn. 2,870,422.
- Linn, Jerome S., to Genisco, Inc. Three phase power supply system. 2,898,412, 8-4-59, Cl. 179-171.
- Linn, Jerome S., to Genisco, Inc. Speed control system. 2,910,638, 10-27-59, Cl. 318-318.
- Linn, William E., to California Research Corp. Sidewall sampler bullet. 2,901,220, 8-25-59, Cl. 255-1.4.
- Linn, William J. Liquid fuel atomizers. 2,889,214, 6-2-59, Cl. 48-180.
- Linn, William J., to E. I. du Pont de Nemours and Co. Ethylene polymerization process. 2,891,040, 6-16-59, Cl. 260-94.9.
- Linnarson, Bengt G.: *See—*
- Corneliusson, Karl G. E., Damm, Lindqvist, Linnarson, and Svansson. 2,892,470.
- Linnebach, Adolf, to International Standard Electric Corp. Ring filter circuit. 2,919,417, 12-29-59, Cl. 333-11.
- Linnell, Robert H., to Titanium Zirconium Co., Inc. Zirconium compositions and process of making. 2,871,138, 1-27-59, Cl. 106-299.
- Linnell, Robert H., to Titanium Zirconium Co., Inc. Zirconium oxide containing product and method of producing same. 2,889,232, 6-2-59, Cl. 106-299.
- Linneman, Fred H. Road repair equipment roller attachment for graders. 2,891,335, 6-23-59, Cl. 37-146.
- Linnert, George E., and R. M. Larrimore, Jr., to Armco Steel Corp. Stainless steel for weld. 2,894,833, 7-14-59, Cl. 75-128.
- Linnerz, Willi: *See—*
- Billen, Peter, and Linnerz. 2,882,688.
- Linotype and Machinery Ltd.: *See—*
- Edwards, Albert, and Peck. 2,909,369.
- Edwards, Albert, and Peck. 2,912,928.
- Linguist, Alan P., to Knox Mfg. Co. Core attachment for picture screens. 2,870,976, 1-27-59, Cl. 242-74.
- Linguist, Alan P., and R. E. Petrick, to Knox Mfg. Co. Picture screen. 2,870,832, 1-27-59, Cl. 160-351.
- Linguist, La Verne L. Grain storage apparatus. 2,913,280, 11-17-59, Cl. 302-28.
- Lindsay, Elton A., and D. R. Phillips, to General Electric Co. Reflector mercury lamp. 2,901,648, 8-25-59, Cl. 313-25.
- Lindsay, Elton A., and Q. D. Dobras, to General Electric Co. Reflecting electric lamp. 2,901,655, 8-25-59, Cl. 313-113.
- Linsert, Friedrich, and A. Prietzsch, to Farbenfabriken Bayer Akt. Device for measuring the titre of a running thread. 2,889,463, 6-2-59, Cl. 250-83.3.
- Linsker, Eugene, to Buckeye Tools Corp. Automatic tool. 2,893,272, 7-7-59, Cl. 77-32.5.
- Linsley, Clarence R., and D. L. Pickens, to Librascope, Inc. Graph plotter. 2,874,019, 2-17-59, Cl. 346-29.
- Linsley, John W., Jr.: *See—*
- Butler, Chester J., Ermish, Linsley, and Thomas. 2,917,834.
- Linsman, Marcel, to International Standard Electric Corp. Check symbol apparatus. 2,886,240, 5-12-59, Cl. 235-153.
- Lint, Robert M., to Herten's, Inc. Whip finishers. 2,899,226, 8-11-59, Cl. 289-17.
- Lintala, Donald E., to Wingfoot Corp. Manufacture of polyvinyl chloride resin. 2,890,211, 6-9-59, Cl. 260-92.8.
- Linteris, Lino L., to Lever Brothers Co. Fluid shortening. 2,909,432, 10-20-59, Cl. 99-118.
- Linthicum, Frank R. Container supply and dispensing cabinet. 2,880,904, 4-7-59, Cl. 221-125.
- Lintner, Josef: *See—*
- Jonke, Richard, and Lintner. 2,903,388.
- Linton, Peter: *See—*
- Ashe, Thomas S., and Linton. 2,906,839.
- Linton, Thomas R., to The American Hardware Corp. Latch construction. 2,878,049, 3-17-59, Cl. 292-1.
- Lintz, Mark, and A. J. Anderson, to Halliburton Oil Well Cementing Co. Density determining device. 2,898,466, 8-4-59, Cl. 250-43.5.
- Linville, John G., to Bell Telephone Laboratories, Inc. Computing circuits. 2,894,217, 7-7-59, Cl. 333-19.
- Linville, John G., and R. L. Wallace, Jr., to Bell Telephone Laboratories, Inc. Non-saturating transistor trigger circuits. 2,880,330, 3-31-59, Cl. 307-88.5.
- Linville, William K.: *See—*
- Guillemin, Ernst A., and Linville. 2,907,222.
- Linville, Creath Q. Cartons. 2,887,389, 5-19-59, Cl. 99-171.
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- Lion Fastener Co., Inc.: *See—*
- D'Amelio, Louis A. 2,886,872.
- Lionberger, Jack. Fence post anchor. 2,910,149, 10-27-59, Cl. 189-29.
- Lione, Leonard V., to Butterworth System, Inc. Tank washing apparatus. 2,917,243, 12-15-59, Cl. 239-227.
- Lionel Corp.: *See—*
- Bonanno, Joseph L. 2,889,744.
- Bonanno, Joseph L. 2,896,202.
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- Bonanno, Joseph L. 2,901,863.
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- Bonanno, Joseph L., and Pettit. 2,882,644.
- Gialmo, Charles V. 2,835,686.
- Milligan, Gaymond E. 2,914,885.
- Pettit, Frank. 2,871,308.
- Reveka, Stanley. 2,883,796.
- Zion, Moses. 2,893,016.
- Lipari, Michael, to Lee Barry Laboratories, Inc. Hypodermic and body fluids sampling syringes. 2,871,857, 2-3-59, Cl. 128-218.
- Lipe-Rollway Corp.: *See—*
- Lakins, Franklin D., and Lanphere. 2,906,003.
- Lanphere, Gerald B., and Sperling. 2,892,243.
- Spase, Charles B. 2,872,005.
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- Lipes, Alvin W., and H. H. Williams, Jr. Simulated tie knot and locking means therefor. 2,898,600, 8-11-59, Cl. 2-150.
- Lipfert, Donald E.: *See—*
- Bickford, John H., and Lipfert. 2,894,242.
- Lipfert, Donald E., to The E. Ingraham Co. Snap-action movement. 2,878,682, 3-24-59, Cl. 74-100.
- Lipfert, Donald E., to Raymond Engineering Laboratory, Inc. Cloth feeding mechanism for sewing machines. 2,895,439, 7-21-59, Cl. 112-204.
- Lipinski, Jędrzej, and T. C. Cheston, to Canadian Westinghouse Co., Ltd. Reflected wave detection system. 2,875,434, 2-24-59, Cl. 343-14.
- Lipinski, Johann, to Alex. Friedmann, Kommandit-Gesellschaft. Lubricant pump. 2,886,135, 5-12-59, Cl. 184-32.
- Lipinski, Richard J., to Lord Mfg. Co. Surface bonded titanium product, composite structure thereof and method of bonding a titanium surface. 2,881,106, 4-7-59, Cl. 148-6.24.
- Lipka, Stephen. Mechanically rotatable food server. 2,880,882, 4-7-59, Cl. 211-77.
- Lipke, Paul H., Jr., and M. J. Gifford, to The Dow Chemical Co. Composition comprising styrene polymer, wax and molybdenum disulfide and phonograph record molded therefrom. 2,899,400, 8-11-59, Cl. 260-28.5.
- Lipkin, David: *See—*
- Perlman, Morris L., Lipkin, and Weissman. 2,895,849.
- Weissman, Sam I., Perlman, and Lipkin. 2,908,563.
- Lipkin, Daniel M., to Sperry Rand Corp. Radio frequency or carrier type transverse magnetic amplifier using square-wave power. 2,888,637, 5-26-59, Cl. 323-89.
- Lipkin, Daniel M., to Sperry Rand Corp. Transverse magnetic traveling wave amplifiers. 2,897,294, 7-28-59, Cl. 179-171.
- Lipkin, Sol. Cap. 2,885,683, 5-12-59, Cl. 2-172.
- Lipman, Elmer. Adaptable atomizer head. 2,886,199, 5-12-59, Cl. 215-41.
- Lipnicki, Leon. Vise block. 2,890,610, 6-16-59, Cl. 81-6.
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- Lipp, Carl C., Jr.: *See—*
- Lipp, Carl C. and Carl C. Lipp, Jr. 2,877,781.
- Lippard, Herman I. Needle. 2,878,979, 3-24-59, Cl. 223-102.
- Lippe, Alexander H. Automatic pressure lubricator. 2,905-271, 9-22-59 Cl. 184-15.
- Lippel, Bernard, to United States of America, Army. System for dividing a surface of revolution. 2,877,458, 3-10-59, Cl. 340-345.
- Lippert, Edward J. Bowling pin. 2,878,021, 3-17-59, Cl. 273-82.
- Lippert, Stanley: *See—*
- Johnson, Dean T., Albertine, Lippert, and Sheetz. 2,893,068.
- Lippincott, Samuel B.: *See—*
- Morway, Arnold J., Seelbach, and Lippincott. 2,917,458.
- Lippisch, Alexander M., to Collins Radio Co. Fluid sustained aircraft. 2,879,957, 3-31-59, Cl. 244-23.
- Lippisch, Alexander M., to Collins Radio Co. Fluid pump. 2,905,091, 9-22-59, Cl. 103-83.
- Lippisch, Alexander M., to Collins Radio Co. Ducted aircraft with fore elevators. 2,918,229, 12-22-59, Cl. 244-15.
- Lippisch, Alexander M., to Collins Radio Co. Fluid sustained and fluid propelled aircraft. 2,918,230, 12-22-59, Cl. 244-23.
- Lippisch, Alexander M., to Collins Radio Co. Fluid sustained and fluid propelled aircraft. 2,918,231, 12-22-59, Cl. 244-23.
- Lippisch, Alexander M., to Collins Radio Co. Twin shroud aerodyne. 2,918,232, 12-22-59, Cl. 244-23.
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- Lippitt, Warren R. Removable trailer hitch. 2,916,302, 12-8-59, Cl. 280—491.
- Lippke, Paul. Device for dielectrically measuring the thickness of moving webs of material. 2,870,403, 1-20-59, Cl. 324—61.
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- Lippman, Samuel. 2,876,936.
- Lippman, Samuel, to D. Lippman, d. b. a. Banite Co. Soap dispensing device. 2,876,936, 3-10-59, Cl. 222—326.
- Lippmann, Seymour, and M. Berger, to United States Rubber Co. High-speed tire. 2,869,610, 1-20-59, Cl. 152—330.
- Lippmann, Seymour, and A. W. Grant, to United States Rubber Co. Pneumatic tire having noiseless tread. 2,887,852, 3-24-59, Cl. 152—209.
- Lips, Theodoor M. A., and W. L. Vervest, to North American Phillips Co., Inc. Overload clutch. 2,916,121, 12-8-59, Cl. 192—56.
- Lipschutz, Alan M. Door closer. 2,885,721, 5-12-59, Cl. 16—59.
- Lipschutz, Frank K., to Louisville Cap Corp. Foldable cap. 2,896,218, 7-28-59, Cl. 2—195.
- Lipschutz, Frank K., and S. Rosenberg, to Louisville Cap Corp. Reinforced cap and prop members therefor. 2,877,466, 3-17-59, Cl. 2—195.
- Lipschutz, Paul: *See*—
- Neiman, Abram, and Lipschutz. 2,868,007.
- Lipscomb, George W., to Westinghouse Electric Corp. Electrical measuring device. 2,905,900, 9-22-59, Cl. 324—127.
- Lipscomb, Matilda C. Apron for carrying articles. 2,897,505, 8-4-59, Cl. 2—48.
- Lipscomb, Robert D.: *See*—
- Iler, Ralph K., and Lipscomb. 2,876,133.
- Lipscomb, Willis L. Indirect lighting fixture. 2,874,271, 2-17-59, Cl. 240—51.11.
- Lipscomb, Willis L. Lighting fixture. 2,902,591, 9-1-59, Cl. 240—51.11.
- Lipscomb, Willis L. Elongated lighting fixture. 2,913,574, 11-17-59, Cl. 240—51.11.
- Lipscomb, Willis L. Controlled brightness luminous panel luminaire. 2,913,575, 11-17-59, Cl. 240—51.11.
- Lipski, Anthony P.: *See*—
- Campbell, Hollis O., and Lipski. 2,908,890.
- Lipski, Edward G., to Philco Corp. Vibration isolating and controlling means. 2,876,906, 3-10-59, Cl. 210—364.
- Lipski, Frank J.: *See*—
- Canfield, William G. 2,879,601.
- Lipson, Samuel, H. Rosenthal, and A. Saia, to United States of America, Army. Apparatus for measuring the density of a solid. 2,889,703, 6-9-59, Cl. 73—32.
- Lipton, Milton A. Electrical cable. 2,871,151, 1-27-59, Cl. 154—224.
- Lipton, Thomas J., Inc.: *See*—
- Schroeder, Charles W. 2,891,866.
- Seltzer, Edward. 2,890,957.
- Seltzer, Edward. 2,903,360.
- Seltzer, Edward, Harriman, and Henderson. 2,891,865.
- Seltzer, Edward, and Saporito. 2,902,368.
- Liqua-Mix, Inc.: *See*—
- Stadelman, William J., and Wilson. 2,876,110.
- Liquid Controls Corp.: *See*—
- Richards, George B. 2,874,715.
- Richards, George B. 2,898,927.
- Richards, George B. 2,903,025.
- Billeter, Henry R. 2,868,038.
- Billeter, Henry R. 2,884,793.
- Billeter, Henry R., and Richards. 2,894,659.
- Liquidometer Corp.: *See*—
- Anderson, Wilmer C. 2,910,869.
- De Giers, Clarence A. 2,911,576.
- De Giers, Clarence A., and Soreny. 2,875,431.
- Schafer, Curtiss R. 2,867,120.
- Liquori, Anthony: *See*—
- Sharin, Samuel, Kishi, Sheridan, and Liguori. 2,919,306.
- Lirette, George J., and W. R. Standbridge. Ice fishing rod. 2,904,920, 9-22-59, Cl. 43—20.
- Lisciani, Constantine, to The Protectoseal Co. Coupling with removably retained packing. 2,904,352, 9-15-59, Cl. 285—15.
- Lisec, Paul: *See*—
- Britner, Richard B., and Lisec. 2,893,101.
- Lisle, Claude K. Driver amplifier for recorder. 2,896,076, 7-21-59, Cl. 250—27.
- Lisle Corp.: *See*—
- Arthur, John R. 2,878,342.
- Brooks, Thomas E. 2,870,384.
- Lisle, Henry L., to F. Horton, d.b.a. Frank Horton & Co. Cable-laying plow. 2,900,931, 8-25-59, Cl. 111—5.
- Lissac, Georges. Spectacles. 2,894,429, 7-14-59, Cl. 88—47.
- Lissance, Alexander. Variable ratchet drive and the like. 2,918,823, 12-29-59, Cl. 74—143.
- Lisser, Jacques, to Willem Smit & Co.'s Transformatoren-fabriek N.V. Alternating current arc welding devices. 2,891,196, 6-16-59, Cl. 315—173.
- List, Ferdinand: *See*—
- Broich, Franz, Hoffmann, and List. 2,885,432.
- List, Hans: *See*—
- Scheiterlein, Andreas. 2,891,524.
- Scheiterlein, Andreas. 2,909,074.
- Scheiterlein, Andreas. 2,917,226.
- Scheiterlein, Andreas, and Skatsche. 2,879,758.
- Skatsche, Othmar. 2,908,265.
- List, William F., to Westinghouse Electric Corp. Movable center-blanked horizon line forming apparatus and saturable reactor pulse forming network for use therein. 2,890,380, 6-9-59, Cl. 315—26.
- List, William F., to United States of America, Navy. Inverted T-symbol generator. 2,896,113, 7-21-59, Cl. 315—24.
- Lister, R. A., & Co. Ltd.: *See*—
- Morris, Alberto J. 2,870,754.
- Morris, Alberto J. 2,887,994.
- Lister, Roscoe C., to J. M. Huber Corp. Method and apparatus for completing oil wells and the like. 2,913,051, 11-17-59, Cl. 166—22.
- Liston, Earl C., to Howry-Berg Steel & Iron Works, Inc. Soil treatment applicators. 2,881,848, 4-14-59, Cl. 172—555.
- Liston, John W., and D. B. McGregor, to General Telephone Laboratories, Inc. All trunk busy detection circuit. 2,895,012, 7-14-59, Cl. 179—18.
- Liston, Keith L.: *See*—
- Leonard, Edward J., Hemel, Karow, Gibson, Liston, and Tarschisch. 2,918,533.
- Liston, Marcia B.: *See*—
- Bletcher, Ralph E., and Ward. 2,875,702.
- Liston, Max D., to Beckman Instruments, Inc. Instruments. 2,875,340, 2-24-59, Cl. 250—43.5.
- Lit, Harry B., and R. P. Anderson, to General Electric Co. Wire coating apparatus. 2,868,159, 1-13-59, Cl. 118—125.
- Lit, Harry B., and R. P. Anderson, to General Electric Co. Wire coating device. 2,875,725, 3-3-59, Cl. 118—125.
- Lite-Vent, Inc.: *See*—
- Ellman, Samuel H. 2,867,010.
- Lite Vent Industries, Inc.: *See*—
- Erneman, Hans G. 2,893,077.
- Lithibar Co., The: *See*—
- Savage, Kenneth W. and L. H. 2,894,713.
- Lithium Corp. of America, Inc.: *See*—
- Bredz, Nikolajs. 2,903,352.
- Bredz, Nikolajs. 2,903,353.
- Esmay, Donald L. 2,910,347.
- Litkenhous, Edward E.: *See*—
- Moore, Ben M., and Litkenhous. 2,884,742.
- Litman, Chester K., to Koch Refrigerators, Inc. Apparatus for handling and storing prepared foods. 2,883,253, 4-21-59, Cl. 312—237.
- Littell, F. J., Machine Co.: *See*—
- Littell, Frederick M. 2,890,077.
- Littell, Frederick M., and Wiig. 2,902,826.
- Littell, Frederick M., to F. J. Littell Machine Co. Vacuum pickup and turn-over device. 2,890,077, 6-9-59, Cl. 294—65.
- Littell, Frederick M., and C. M. Wiig, to F. J. Littell Machine Co. Hydraulic power system. 2,902,826, 9-8-59, Cl. 60—53.
- Little, Alfred E., to T. B. Hirschberg, Jr. Motor operated checkwriter. 2,869,456, 1-20-59, Cl. 101—95.
- Little, Arthur D., Inc.: *See*—
- Anderson, Edward E. and Kiely. 2,905,559.
- Doggett, Roger H., and Johnson. 2,886,455.
- Dubitzky, Michael, Hargreaves, and Keyt. 2,879,943.
- Engle, Paul M., and Swanton. 2,907,407.
- Engle, Paul M., and Swanton. 2,907,408.
- Hosken, James C. 2,881,416.
- McMahon, Howard O., and Gifford. 2,906,101.
- Murray, Wallace J. 2,914,424.
- Pastuhov, Alexis, and Zimmermann. 2,909,908.
- Rohrer, Douglas P., and Chellis. 2,898,893.
- Streeter, Milton H. 2,895,803.
- Vonnegut, Bernard. 2,881,335.
- Vonnegut, Bernard. 2,897,038.
- Zimmermann, Francis J. 2,909,903.
- Little, Donald M., to Phillips Petroleum Co. Apparatus for obtaining maximum depth of flash of oils and the like. 2,875,139, 2-24-59, Cl. 202—185.
- Little, Ernest L., and G. M. Whitman, to E. I. du Pont de Nemours and Co. Preparation of long-chain alkylhalosilanes. 2,888,476, 5-26-59, Cl. 263—448.2.
- Little, Howard M.: *See*—
- Baumbach, Harlan L., Little, and Scobey. 2,903,942.
- Little, James K. Electrical signaling system. 2,907,013, 9-29-59, Cl. 340—227.
- Little, Jess C., to Textron, Inc. Link structure made of pre-formed helical wire elements. 2,918,783, 12-29-59, Cl. 57—144.
- Little, John B., and B. E. Phelps, to International Business Machines Corp. Printed circuit connection and method of making same. 2,902,629, 9-1-59, Cl. 317—101.
- Little, John G., to The General Electric Co. Ltd. Electric pulse distributors. 2,867,722, 1-6-59, Cl. 250—27.
- Little, John H., to General Motors Corp. Multiple movement control unit. 2,912,873, 11-17-59, 74—471.
- Little, John W. Apparatus for dispensing newspapers. 2,895,639, 7-21-59, Cl. 221—266.
- Little, John W., to Goslin-Birmingham Mfg. Co. Rotary filters. 2,902,841, 9-8-59, Cl. 64—1.
- Little, Larry L., to Western Precipitation Corp. Electrical control circuit. 2,904,736, 9-15-59, Cl. 318—130.
- Little, Randel Q., Jr.: *See*—
- Sabol, Albert R., and Little. 2,900,376.
- Little, Robert K. Pinch valve. 2,890,855, 6-16-59, Cl. 251—5.
- Little, Robert N., Jr.: *See*—
- Graves, Elizabeth R., and Little. 2,906,903.



- Little, Ted R. Marine pipe trencher. 2,875,585, 3-3-59, Cl. 61-72.
- Little, Thomas E. Fish holding implement. 2,867,937, 1-13-59, Cl. 43-53.5.
- Little, Thomas H.: *See*—  
Winkler, Harry W., Morfitt, and Little. 2,887,373.
- Little, William H. Pad holddown clamp. 2,891,295, 6-23-59, Cl. 24-66.
- Little, William S., and L. M. Wylie, to Tennessee Corp. Neutralization of sulfonation mixtures and products thereof. 2,878,271, 3-17-59, Cl. 260-400.
- Littlefield, John B.: *See*—  
Spokes, Ray E., and Littlefield. 2,901,456.
- Littleford Brothers, Inc.: *See*—  
Camm, William T. 2,867,421.
- Littlefuse, Inc.: *See*—  
Marquis, John F. 2,887,547.  
Uhl, Leon T. 2,878,340.
- Littlejohn, Robert A., and R. M. Ingham, Jr., to Deering Milliken Research Corp. Loom stop motion control. 2,884,011, 4-28-59, Cl. 139-1.
- Littleton, Charles W.,  $\frac{1}{2}$  to J. A. Pinkard, and  $\frac{1}{2}$  to R. E. Miller. Semi-automatic injector for liquid fugicide. 2,885,121, 5-5-59, Cl. 222-162.
- Littlewood, Anthony D.: *See*—  
Schuftan, Paul M., and Littlewood. 2,915,882.
- Litton, Charles V., to Litton Industries, Inc. Cathode assembly for electron discharge devices. 2,906,912, 9-29-59, Cl. 313-344.
- Litton Industries, Inc.: *See*—  
Crapuchettes, Paul W. 2,898,560.  
Crapuchettes, Paul W. 2,906,920.  
Fomenko, Sergei M. 2,908,541.  
Hansen, Siegfried. 2,885,662.  
Steinman, Leon. 2,901,640.
- Litton Industries of California: *See*—  
Crapuchettes, Paul W. 2,876,383.  
Curtis, Daniel L. 2,885,663.  
Curtis, Daniel L. 2,913,675.  
Erdley, Harold F., and Aeterman. 2,909,930.  
Hull, Joseph F. 2,886,742.  
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Hansen, Siegfried, and Le Vantine. 2,917,987.  
Litton, Charles V. 2,906,912.  
Terry, Robert L. 2,914,683.
- Weideman, James W., and Rathje. 2,871,326.
- Litty, John R. Frankfurt packaging machine. 2,893,186, 7-7-59, Cl. 53-124.
- Litvan, Franz: *See*—  
Thuillier, Jean E., Litvan, and Stoll. 2,911,440.
- Litz, Frank A., to International Business Machines Corp. Pressure responsive mechanism. 2,916,205, 12-8-59, Cl. 235-61.
- Litz, Norman G. Loop-forming machine. 2,872,231, 2-3-59, Cl. 289-1.
- Litzaw, Edgar M. Combination utility shelf. 2,896,363, 7-28-59, Cl. 45-28.
- Litzenberger, David P. Motor driven pumps. 2,871,791, 2-3-59, Cl. 103-87.
- Litzenberger, Carl R.: *See*—  
Edstrom, Arthur E. 2,880,734.
- Liu, Chien: *See*—  
Grantham, Richard L., and Liu. 2,894,985.
- Liu, John K.: *See*—  
Allin, George S., Sr., and Liu. 2,876,657.
- Liu, Hsing. Method for metallizing non-conductive material. 2,917,439, 12-15-59, Cl. 204-22.
- Liubauskas, Boles. Safety device for vehicles. 2,896,999, 7-28-59, Cl. 296-44.
- Livak, John E.: *See*—  
Britton, Edgar C., and Livak. 2,917,535.
- Live Grass-Pack Co.: *See*—  
Tietz, Carl M. and P. 2,876,588.
- Livermont, Frank W. Predetermined torque release wrench with signalling means. 2,887,921, 5-26-59, Cl. 81-52.5.
- Livermont, Frank W. Paving machine. 2,898,826, 8-11-59, Cl. 94-45.
- Livermont, Frank W. Attitude compensated predetermined torque release wrench. 2,899,854, 8-18-59, Cl. 81-52.4.
- Livermore, H. F., Corp.: *See*—  
Oliver, Thomas J. 2,893,441.
- Livezey, Frederic M., to The Baldwin Piano Co. Transistor current regulating circuits. 2,888,632, 5-26-59, Cl. 323-4.
- Livingston, A. Kip: *See*—  
Oxberry, John W. 2,912,898.
- Livingston, Donald C., to Sylvania Electric Products Inc. Electroluminescent device. 2,874,308, 2-17-59, Cl. 250-213.
- Livingston, Donald C., to Sylvania Electric Products Inc. Electroluminescent device. 2,881,360, 4-7-59, Cl. 315-169.
- Livingston, Donald C., to Sylvania Electric Products Inc. Color television signal generator. 2,903,506, 9-8-59, Cl. 178-5.4.
- Livingston, E. R.: *See*—  
Wallace, Frank C. 2,877,934.  
Wallace, Frank C. 2,882,948.
- Livingston, Emmett D. Combination steel and aluminum block. 2,879,031, 3-24-59, Cl. 254-134.3.
- Livingston & Haven, Inc.: *See*—  
Flint, Alden C., Livingston, Haven, and Long. 2,871,519.  
Long, John R., and Flint. 2,890,841.
- Livingston, Jack E.: *See*—  
Flint, Alden C., Livingston, Haven, and Long. 2,871,519.
- Livingston, Jack P., to United States of America, Atomic Energy Commission. Spherical die. 2,870,484, 1-27-59, Cl. 18-34.
- Livingston, Milton S.: *See*—  
Courant, Ernest D., Snyder, and Livingston. 2,882,396.
- Livingston, Richard D., to Barber-Colman Co. Lathe with auxiliary bearing support. 2,885,920, 5-12-59, Cl. 82-21.
- Livingston, Wayne E., to Swift & Co. Method of concentrating off-quality peanuts. 2,906,625, 9-29-59, Cl. 99-1.
- Livingstone, Helen H.: *See*—  
Hamblin, Clyde M. 2,874,722.
- Livingstone, James G., A. G. Moreton, and J. L. Tiedje, to Esso Research and Engineering Co. Solvent dewaxing of petroleum oil. 2,880,159, 3-31-59, Cl. 208-31.
- Livingstone, Jay G. Adapter and adapter combination. 2,889,079, 6-2-59, Cl. 222-109.
- Livingstone, Jay G. Teapot or the like. 2,889,080, 6-2-59, Cl. 222-109.
- Livney, Ilya S.: *See*—  
Battey, Everett M., and Livney. 2,872,149.
- Lizza, Albert J., to United States of America, Army. Stock and action clamp. 2,912,781, 11-17-59, Cl. 42-75.
- Ljungberg, Lars R., and L. E. Ohlin. Photoelectric colorimeter. 2,898,802, 8-11-59, Cl. 88-14.
- Ljungberg, Ture A., to Allmanna Svenska Elektriska Aktiebolaget. Valve which permits the circulation of work material during the stoppage of a cable sheathing press. 2,884,129, 4-28-59, Cl. 207-4.
- Ljungbo, Sven O. B. Production of nets, knitted fabrics and the like from single-filament polyamide threads. 2,868,675, 1-13-59, Cl. 117-138.8.
- Ljungbo, Sven O. B. Production of nets, knitted fabrics and the like from synthetic resin threads. 2,868,676, 1-13-59, Cl. 117-138.8.
- Ljungdahl, Erland, to Svenska Aktiebolaget Gasaccumulator. Responding radar station. 2,910,690, 10-27-59, Cl. 343-6.5.
- Ljunggren, Thor H., to Bryant Chucking Grinder Co. Automatic sizing mechanisms. 2,877,606, 3-17-59, Cl. 51-50.
- Ljunggren, Sverker E., to Moällycke Vafveri Aktiebolag. Catamenial towel. 2,905,177, 9-22-59, Cl. 128-290.
- Ljungström, Åke B., to Aktiebolaget Rosenblads Patenter. Indirect heat exchanger. 2,919,114, 12-29-59, Cl. 257-1.
- Ljungström, Fredrik. Method for controlling rolling movements of a ship. 2,892,435, 6-30-59, Cl. 114-122.
- Ljungstrom, Fredrik, to Svenska Skifferolje Aktiebolaget. Method of driving holes into ground comprising porous or sedimentary strata. 2,914,304, 11-24-59, Cl. 255-1.8.
- Llewellyn, David M.: *See*—  
West, De Witt H., Townshend, and Llewellyn. 2,909,408.
- Llewellyn, Geirionydd, and R. G. Ubank, to Bristol Aero-Engines Ltd. Surface treatments for articles made from heat resisting alloys. 2,887,420, 5-19-59, Cl. 148-13.1.
- Llorens, Louis M. Totalizer control mechanism for calculating machines. 2,896,842, 7-28-59, Cl. 235-60.
- Llorens, Louis M. Differential type setting means in calculating machine. 2,917,995, 12-22-59, Cl. 101-93.
- Llorens, Louis M. Calculating machine. 2,918,211, 12-22-59, Cl. 235-60.
- Llorens, Louis M. Calculating machine. 2,918,212, 12-22-59, Cl. 235-60.28.
- Llorens, Louis M. Calculating machine keyboard control means. 2,918,217, 12-22-59, Cl. 235-130.
- Lloyd, Allen H., to Tech-Art Inc. Box setting up machine. 2,882,803, 4-21-59, Cl. 93-49.
- Lloyd, Allen H., to Tech-Art Inc. Box setting up machine. 2,883,915, 4-28-59, Cl. 93-49.
- Lloyd, Arthur J., deceased (by M. A. and G. A. Lloyd, administrators), and I. W. Preston, to Monsanto Chemicals Ltd. Diphenyl dispersions for the impregnation of paper. 2,897,111, 7-28-59, Cl. 167-30.
- Lloyd, Billy E., and F. L. Kelly, to Allied Chemical Corp. Method of producing triallyl isocyanurate. 2,894,950, 7-14-59, Cl. 260-248.
- Lloyd Brothers, Inc.: *See*—  
Klotz, Lyell J. 2,885,322.
- Lloyd, Grahame A.: *See*—  
Lloyd, Arthur J., and Preston. 2,897,111.
- Lloyd, Harold E.: *See*—  
Hillman, Malcolm E. 2,889,502.
- Lloyd, Marion A.: *See*—  
Lloyd, Arthur J., and Preston. 2,897,111.
- Lloyd, Martin H.: *See*—  
Stemp, Ronald G., and Lloyd. 2,914,372.
- Lloyd, Neil E., to Phillips Petroleum Co. Method of minimizing water hammer in evaporative crystallization processes. 2,890,935, 6-16-59, Cl. 23-119.
- Lloyd, Peter, to Power Jets (Research and Development) Ltd. Combustion system with mixing chamber. 2,885,858, 5-12-59, Cl. 60-39.65.
- Lloyd, Robert L. Educational banking game for teaching children good thrift habits. 2,904,899, 9-22-59, Cl. 35-24.
- Lloyd, Roger A. Electrocardiograph electrode. 2,895,479, 7-21-59, Cl. 128-417.
- Lloyd, Wayne B., to Westinghouse Electric Corp. Pressure feedback servo valve. 2,889,815, 6-9-59, Cl. 121-46.5.
- Lloyd, William H.: *See*—  
Duckett, William A., and Lloyd. 2,916,106.



- Lloyd, William L. Removable button mounting. 2,892,229, 6-30-59, Cl. 24-108.
- Lloyd-Young, Carysfort F. Securing clip for preformed bow tie. 2,882,573, 4-21-59, Cl. 24-81.
- Lo, Arthur W.: *See*—  
Briggs, George R., and Lo. 2,911,628.
- Lo, Arthur W., J. A. Rajchman, and G. R. Briggs, to Radio Corp. of America. Magnetic core compensating systems. 2,887,675, 5-19-59, Cl. 340-174.
- Lo, Elizabeth S.: *See*—  
Crawford, George H., Jr., and Lo. 2,909,509.
- Lo, Elizabeth S., to Minnesota Mining and Mfg. Co. Copolymers of dichlorohexafluorobutene. 2,893,983, 7-7-59, Cl. 260-87.5.
- Lo, Elizabeth S., to Minnesota Mining and Mfg. Co. Copolymers of dichlorohexafluorobutene. 2,914,514, 11-24-59, Cl. 260-87.5.
- Lo, Elizabeth S., and G. H. Crawford, Jr., to Minnesota Mining and Mfg. Co. Copolymer of a conjugated diene and bis-(trifluoromethyl)styrene and process for preparing a composition containing same. 2,914,512, 11-24-59, Cl. 260-82.1.
- Lobanoff, Arkady A.: *See*—  
Bull, Douglas T., and Lobanoff. 2,897,533.
- Lobbenberg, Anne M., to Corsets Silhouette Ltd. Foundation garments. 2,875,766, 3-3-59, Cl. 128-548.
- Lobby, Joseph, to American Cyanamid Co. Process for the quaternization of 3-diethylamino-1-cyclohexyl-1-phenylpropanol-1 with ethyl iodide. 2,913,494, 11-17-59, Cl. 260-567.6.
- Lobdell-Emery Mfg. Co., The: *See*—  
Hayward, Charles E. 2,867,185.
- Lobelle, Marcel J. O. Face masks for airmen. 2,918,060, 12-22-59, Cl. 128-141.
- Lobenthal, Michael S.: *See*—  
Harris, Frederic R. 2,897,654.
- Lober, Friedrich: *See*—  
Malz, Hugo, Bayer, Freytag, and Lober. 2,891,059.
- Lobkowitz, Günther B., to Inter-Continentaler Huttenbau. Vertical-type rolling mill. 2,870,664, 1-27-59, Cl. 80-55.
- Lobosco, Roscoe R., to Union Carbide Corp. Multi-arc welding. 2,868,956, 1-13-59, Cl. 219-137.
- Lobosco, Roscoe R., J. E. Messina, and G. W. Oyler, to Union Carbide Corp. Electric arc process and apparatus. 2,871,336, 1-27-59, Cl. 219-74.
- Lobstaere Inc.: *See*—  
Malkin, Sam. 2,890,680.
- Locatelli, Ercole. Molten cheese, containing filaments of green organic substances, and a process for its production. 2,872,324, 2-3-59, Cl. 99-115.
- Locher, Arthur, and A. Dürst, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Printing and dyeing of textile materials and preparations therefor. 2,884,331, 4-28-59, Cl. 106-26.
- Locher, Arthur, and A. Dürst, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Printing of textile materials and preparations therefor. 2,884,332, 4-28-59, Cl. 106-26.
- Locher, Ross E., to Zinsco Electrical Products. Interlock mount for switch. 2,869,043, 1-13-59, Cl. 317-119.
- Locher, Ross E., to Zinsco Electrical Products. Multiple circuit breaker. 2,878,332, 3-17-59, Cl. 200-50.
- Lochmiller, Jesse W. De-beaking devices. 2,869,549, 1-20-59, Cl. 128-305.
- Lochmiller, Jesse W. De-beaking mechanisms. 2,886,037, 5-12-59, Cl. 128-305.
- Lochmiller, Jesse W. De-beaking devices. 2,886,038, 5-12-59, Cl. 128-305.
- Lock, Douglas S.: *See*—  
Witt, Robert H., and Lock. 2,912,814.
- Lock, Robert L., N. L. Nilsson, and S. J. Spurgeon, to Anderson Brass Works. Strain clamp for cables and the like. 2,884,476, 4-28-59, Cl. 174-42.
- Lock Thread Corp.: *See*—  
Evans, Edwin R. 2,873,641.
- Locke, Arthur A. Egg cooker. 2,908,213, 10-13-59, Cl. 99-333.
- Locke, Burton H. Awakening alarm mechanism for vehicles. 2,894,091, 7-7-59, Cl. 200-61.57.
- Locke, Burton H. Fork lift truck with shiftable ballast. 2,916,172, 12-8-59, Cl. 214-674.
- Locke, Burton H., and J. J. Convers, to J. W. Greer Co. Apparatus for loading units. 2,875,907, 3-3-59, Cl. 214-6.
- Locke, George A.: *See*—  
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- Locke, George A., to Bell Telephone Laboratories, Inc. Semi-automatic teletypewriter switching system. 2,916,542, 12-8-59, Cl. 178-2.
- Locke, Ronald S., to British Celanese Ltd. Process for producing uniform rolls of film. 2,878,522, 3-24-59, Cl. 18-57.
- Locke, Thomas W.: *See*—  
Garrison, Harold K., and Locke. 2,884,670.
- Locker, Hans, to Fruehauf Trailer Co. Vertically adjustable torsion wheel suspension for trailers and the like. 2,907,575, 10-6-59, Cl. 280-43.20.
- Lockers (Engineers) Ltd.: *See*—  
Dennis, George P. 2,873,383.
- Lockert, Jens B. Trolling line float. 2,901,857, 9-1-59, Cl. 43-43.13.
- Lockery, Harry: *See*—  
Roper, Charles G., Gilchrist, and Lockery. 2,895,502.
- Lockett, Leslie J., to Westinghouse Brake & Signal Co. Ltd. Dry plate rectifier assemblies. 2,888,618, 5-26-59, Cl. 317-234.
- Lockhart, Hughbert M. Screen mounting. 2,889,876, 6-9-59, Cl. 160-328.
- Lockhart, Margaret L.: *See*—  
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- Lockhart, Marshall L., to The Compute Corp. Plunger closures of containers. 2,869,745, 1-20-59, Cl. 215-6.
- Lockhart, Marshall L., deceased, by M. La N. Lockhart, R. W. Matthies, and A. B. Kettle, executors, 1/2 each to E. H. Wilburn, and R. W. Matthies. Hypodermic syringes. 2,893,390, 7-7-59, Cl. 128-218.
- Lockhart, Robert J.: *See*—  
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- Lockhart, Robert K., to Radio Corp. of America. Color television. 2,890,271, 6-9-59, Cl. 178-5.4.
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- Lockhart, William K.: *See*—  
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- Lockheed Aircraft Corp.: *See*—  
Aker, Charles M. 2,916,548.
- Andrews, Kenneth E., and Davis. 2,878,346.
- Beach, James B. 2,869,806.
- Bonza, Louis F., and Thomas. 2,877,201.
- Clark, Nathan C. 2,914,703.
- Daugherty, Jesse, and Talbott. 2,887,016.
- Davenport, Carlton R., and Mittler. 2,903,035.
- Garner, Fred W. 2,882,032.
- Gibbins, Edmond E. 2,873,302.
- Gray, Warren E. 2,906,568.
- Hamilton, Ralph A. 2,876,673.
- Hamilton, William F., and Simon. 2,892,761.
- Johnson, Clarence L. 2,870,684.
- Johnston, J. Ford. 2,869,808.
- Kosek, Joseph A. 2,893,459.
- Larse, George L. 2,905,385.
- Lovick, Edward, Jr. 2,880,417.
- Olson, David C. 2,904,331.
- Parvin, Robert, and Wilhelm. 2,886,991.
- Politi, Edward Y., and Williams. 2,891,159.
- Rawlins, Robert E. 2,904,682.
- Richolt, Robert R., and Richter. 2,877,742.
- Savona, Salvatore J. 2,876,534.
- Schramm, Carl H. 2,916,232.
- Seager, Donald B. 2,886,264.
- Shannon, James L. 2,883,813.
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- Vajda, Tommy F. 2,904,890.
- Vance, James M. 2,905,045.
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- Lockheed, John A.: *See*—  
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- Lockheed, John A. Building pressurization system. 2,898,836, 8-11-59, Cl. 98-1.5.
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Longley, James E., and Valenziano. 2,911,859.
- Lockman, Carl J., to Aktiebolaget Rosenblads Patent. Methods for extracting heat and SO<sub>2</sub> from sulphite waste lye containing SO<sub>2</sub>. 2,874,043, 2-17-59, Cl. 92-2.
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- Lockridge, Nanelia. Support. 2,910,794, 11-3-59, Cl. 41-10.
- Lockridge, Robert S., to Craddock-Terry Shoe Corp. Arch support. 2,878,593, 3-24-59, Cl. 36-8.5.
- Lockwood, Edward J.: *See*—  
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- Lockwood, John C., to Scripto, Inc. Pyrophoric cigarette lighter. 2,881,608, 4-14-59, Cl. 67-7.1.
- Lockwood, John C., to Scripto, Inc. Alternate push retractable ball pen having double rocking latch mechanism. 2,898,886, 8-11-59, Cl. 120-42.03.
- Lockwood, Lawrence W., to O. Williams. Hand tool for removing floor coverings. 2,907,106, 10-6-59, Cl. 30-169.
- Lockwood, Lee J., to The Electric Storage Battery Co. Flashlight. 2,896,067, 7-21-59, Cl. 240-10.6.
- Lockwood, Raymond M. Aerial toy. 2,899,773, 8-18-59, Cl. 46-74.
- Lockwood, Robert C., to Instruments for Industry, Inc. Micro-wave transmission networks. 2,870,381, 1-20-59, Cl. 317-99.
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- Lockwood, Warren H. Tierable nesting receptacle. Re. 24,731, 11-3-59, Cl. 211-126.
- Lockwood, William H. Convertible article of furniture. 2,888,062, 5-26-59, Cl. 155-42.
- Lode, Tenny: *See*—  
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- Loder, Donald J., to E. I. du Pont de Nemours and Co. Fungicide-oil formulations. 2,870,053, 1-20-59, Cl. 167-42.
- Lodge, James R.: *See—*  
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- Lodge & Shipley Co., The: *See—*  
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- Lodige, Fritz: *See—*  
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- Loeb, Hans W., to Automatic Telephone & Electric Co. Ltd. Electric circuits including transistor devices. 2,879,410, 3-24-59, Cl. 307-88.5.
- Loebel, Frederick A., to Cleaver-Brooks Co. Induced draft boiler fan structure. 2,888,910, 6-2-59, Cl. 122-149.
- Loebel, Frederick A., and R. Ewing, to Cleaver-Brooks Co. Heat exchanger tube. 2,890,722, 6-16-59, Cl. 138-38.
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- Loebner, Egon E.: *See—*  
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- Loebner, Egon E., to Radio Corp. of America. Signal responsive circuit. 2,895,054, 7-14-59, Cl. 250-213.
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- Loechl, Clarence J., to The Celotex Corp. Gypsum products and process of manufacture. 2,871,134, 1-27-59, Cl. 106-110.
- Loechl, Clarence J., to The Celotex Corp. Drying gypsum wallboard. 2,909,850, 10-27-59, Cl. 34-205.
- Loezy, Joseph, Jr. Hydraulic rotary actuator. 2,889,816, 6-9-59, Cl. 121-38.
- Loeffler, Erwin S.: *See—*  
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- Loeffler, John E., and G. D. Hall, to Thornhill-Craver Co., Inc. Electrical swivel assemblies. 2,877,287, 3-10-59, Cl. 174-86.
- Loeffler, John E., and O. L. Nordin, to Thornhill-Craver Co., Inc. Pipe cleaning devices. 2,887,118, 5-19-59, Cl. 134-112.
- Loeffler, John R., to General Electric Co. Circuit to limit commutating voltages. 2,875,393, 2-24-59, Cl. 318-331.
- Loeffler, John R., to General Electric Co. Impulse time phase shifting circuits. 2,898,480, 8-4-59, Cl. 307-106.
- Loeffler, Robert W., to The Vollrath Co. Boat steering mechanisms. 2,890,595, 6-16-59, Cl. 74-498.
- Loehr, Albert H., to Westinghouse Electric Corp. Centrifugal fan wheels. 2,916,199, 12-8-59, Cl. 230-134.
- Loehr, Ambrose A. Threshold seal. 2,903,757, 9-15-59, Cl. 20-64.
- Loehr, Leslie K. Cantilever torsion spring mechanism for wheeled vehicles. 2,919,126, 12-29-59, Cl. 267-57.
- Loeper, Robert P., and H. E. Zondlo, to Textile Machine Works. Transfer point structure for knitting machines. 2,910,851, 11-3-59, Cl. 66-96.
- Loepsinger, Albert J., to Grinnel Corp. Humidifying system. 2,913,183, 11-17-59, Cl. 236-44.
- Loeser, John K.: *See—*  
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- Loetscher, Martin B. Combined letter and envelope with juxtaposed pair of three-ply folded corners. 2,873,906, 2-17-59, Cl. 229-92.1.
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- Loetscher, Robert F., to Farley & Loetscher Mfg. Co. Method of manufacturing solid core flush doors. 2,869,598, 1-20-59, Cl. 144-309.
- Loev, Bernard: *See—*  
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- Loev, Bernard, and J. T. Massengale, to Pennsalt Chemicals Corp. Synthesis of tetrahydrothiophene. 2,899,444, 8-11-59, Cl. 260-329.
- Loev, David, to Burroughs Corp. Shift registers. 2,881,412, 4-7-59, Cl. 340-174.
- Loev, David, to Burroughs Corp. High-speed counter. 2,897,483, 7-28-59, Cl. 340-174.
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- Loew, Burl C., to ACF Industries, Inc. Check valve. 2,905,188, 9-22-59, Cl. 137-543.15.
- Loew, Harold L., R. R. Oddo, and R. M. Ruben. Dispensers for containers. 2,868,415, 1-13-59, Cl. 222-90.
- Loew, Theodore, to Kraft Foods Co. Apparatus for forming articles from thermoplastic materials. 2,871,515, 2-3-59, Cl. 18-30.
- Loewe, Heinz: *See—*  
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- Loewe Opta Aktiengesellschaft: *See—*  
Hensel, Bernhard. 2,919,378.  
Roepke, Willi. 2,871,019.
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- Loewy Engineering Co. Ltd., The: *See—*  
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- Loewy, Erwin: *See—*  
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- Loewy, Eugene M. Cleaning device. 2,876,474, 3-10-59, Cl. 15-104.8.
- Löf, George O. G. Solar cooker. 2,909,171, 10-20-59, Cl. 126-270.
- Loffboro, Vernon L.: *See—*  
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- Löfgren, Bror, and N. I. Ögland, to Aktiebolaget Svenska Flaktfabriken. Method of treating fibre boards. 2,874,481, 2-24-59, Cl. 34-16.
- Löfgren, Bror E., to Aktiebolaget Svenska Flaktfabriken. Apparatus for pneumatic transport of granular material. 2,874,999, 2-24-59, Cl. 302-27.
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- Lofgren, Edward J., to United States of America, Atomic Energy Commission. Calutron ion source. 2,874,296, 2-17-59, Cl. 250-41.9.
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- Lofgren, Gustaf E., to Electrolux Corp. Disposable dust bags. 2,909,238, 10-20-59, Cl. 183-51.
- Lofgren, Karl B.: *See—*  
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- Lofman, Robert A. Barometric alarm. 2,907,842, 10-6-59, Cl. 200-82.
- Lofstrom, Dennis E. Building construction. 2,902,853, 9-8-59, Cl. 72-41.
- Loftis, Homer J., to Henrite Products Corp. Motor mounting. 2,908,457, 10-13-59, Cl. 248-26.
- Log Electronics, Inc.: *See—*  
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- Logan, Alexander, to Western Electric Co., Inc. Drive mechanism. 2,912,100, 11-10-59, Cl. 203-135.
- Logan, Benjamin F., Jr., to United States of America, Navy. Velocity servosystem with signal quadrature component suppression. 2,881,379, 4-7-59, Cl. 318-328.
- Logan, Henry H. Governors. 2,909,366, 10-20-59, Cl. 264-15.
- Logan, Henry H. Holst control mechanism. 2,912,224, 11-10-59, Cl. 254-173.
- Logan, J. Robert, to Sperry Rand Corp. Logical binary powering circuits. 2,890,829, 6-16-59, Cl. 235-164.
- Logan, John A., and E. K. L. Haffner. Heating means for billet containers of metal extrusion presses. Re. 24,698, 9-15-59, Cl. 219-10.71.
- Logan, Kenneth C., and J. Mardon, to Anglo Paper Products, Ltd. Paper machine headbox. 2,892,499, 6-30-59, Cl. 162-344.
- Logan, Ralph A., A. J. Peters, and M. Tanenbaum, to Bell Telephone Laboratories, Inc. Fabrication of silicon devices. 2,879,190, 3-24-59, Cl. 148-1.5.
- Logan, Ralph L., to J. G. McAllister, Inc. Socket for studio lamp or the like. Re. 24,647, 5-12-59, Cl. 339-75.
- Logan, Richard M. Portable self closing electric gate. 2,893,142, 7-7-59, Cl. 39-92.
- Logan, Robert P., to Dorr-Oliver Inc. Bacterial digestion of organic matter. 2,881,137, 4-7-59, Cl. 210-14.
- Logan, Robert T. Mechanism for the operation of the transfer table of a press. 2,908,405, 10-13-59, Cl. 214-1.
- Logan, Sandy B. Reading glass and mounting. 2,905,054, 9-22-59, Cl. 88-39.
- Logan, Stanley E., to General Electric Co. Pipe seal. 2,900,199, 8-18-59, Cl. 285-187.
- Logan, Ted J.: *See—*  
Bachman, Gustave B., and Logan. 2,913,423.
- Logansport Machine Co., Inc.: *See—*  
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- Logemann, Willy: *See—*  
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- Logemann, Willy, and F. Jauria, to Carlo Erba S. p. A. Certain 4-acetyl-1,2-diphenyl-3,5-dioxypyrazolidines. 2,873,278, 2-10-59, Cl. 260-310.
- Logg, Robert L.: *See—*  
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- Loggins, Reuben H.: *See—*  
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- Logiudice, Joseph S.: *See—*  
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- Logman, Willem H.: *See—*  
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- Logue, Joseph C.: *See*—  
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- Logue, Joseph C., to International Business Machines Corp. Large signal transistor circuits having short "fall" time. 2,872,594, 2-3-59, Cl. 307—88.5.
- Logue, Joseph C., and A. E. Brennemann, to International Business Machines Corp. Apparatus, including an electrostatic type storage tube, for storing digital information. 2,884,557, 4-28-59, Cl. 315—12.
- Lohest, Hans: *See*—  
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- Lohman, Everett B. Detachable head for wet mop. 2,880,437, 4-7-59, Cl. 15—120.
- Lohman, Harry W.: *See*—  
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- Lohman, Robert D.: *See*—  
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- Lohman, Robert D., to Radio Corp. of America. Stepwave generator. 2,871,378, 1-27-59, Cl. 307—88.5.
- Lohmann, Günter: *See*—  
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- Lohmann K.-G.: *See*—  
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- Lohmeyer, Walter G., Jr., to Fairchild Camera and Instrument Corp. Adjustable timing system. 2,880,798, 4-7-59, Cl. 161—1.
- Lohnes, Howard E., and J. J. Krekovich, to Hallmark Cards, Inc. Animated greeting card. 2,884,724, 5-5-59, Cl. 40—65.
- Lohnes, Howard E., and J. J. Krekovich, to Hallmark Cards, Inc. Animated card. 2,884,738, 5-5-59, Cl. 46—36.
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- Lohr, Thomas E., and G. W. Sierant, to General Motors Corp. Mechanical movement device. 2,905,012, 9-22-59, Cl. 74—424.8.
- Lohr, Wilmer M., and A. Lulay, to E. I. du Pont de Nemours & Co. Novelty yarn. 2,878,548, 3-24-59, Cl. 28—81.
- Lohrer, Hardy. Closing device of elastic material for bottles, tubes and similar containers. 2,894,654, 7-14-59, Cl. 215—41.
- Lohs, Willy, W. Paul, and A. Geese, to Siemens & Halske Akt. Electromagnetic drive system for relays, ringers and the like. 2,890,447, 6-9-59, Cl. 340—392.
- Lohse, Vernon G. Multiple measuring dispenser. 2,903,024, 9-8-59, Cl. 141—100.
- Loisell, Paul J., to General Motors Corp. Material handling device. 2,868,582, 1-13-59, Cl. 294—88.
- Loiselle, Henry L. Tractor safety switch. 2,916,573, 12-8-59, Cl. 200—61.5.
- Loizzo, John R., and L. J. Matthews, to J. I. Case Co. Liquid measuring device. 2,876,639, 3-10-59, Cl. 73—113.
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- Löken, Bjarte and H. Flores, to G. D. Searle & Co. 6-alkyl-diosgenins, and degradation to diosones. 2,875,198, 2-24-59, Cl. 260—239.55.
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- Lollar, Robert M.: *See*—  
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Pasternak, Varsenig Z., and Lollar. 2,886,400.
- Lolley, Barbara: *See*—  
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- Lolley, William H., deceased; B. Lolley, administratrix. Metal-containing patterns and method of producing same. 2,887,392, 5-19-59, Cl. 106—38.3.
- Lolmaugh, Orson B., W. E. Thornton, and C. A. Smith, to Del Mar Engineering Laboratories. Tow target having combustion signal means. 2,869,120, 1-13-59, Cl. 343—18.
- Loma Plastics, Inc.: *See*—  
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- Lomas, Albert G. Convertible table with pivotally supported table top elements. 2,913,122, 11-17-59, Cl. 211—3.
- Lomax, Clarence E.: *See*—  
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- Lomax, Clarence E., to General Telephone Laboratories, Inc. Multi-office telephone system. 2,885,481, 5-5-59, Cl. 179—18.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Recorded message service for telephone paystations. 2,886,641, 5-12-59, Cl. 179—6.3.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Telephone system serving both regular and paystation telephones. 2,895,008, 7-14-59, Cl. 179—6.3.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Party line paystation. 2,895,010, 7-14-59, Cl. 179—17.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Inter-office trunking system. 2,897,280, 7-28-59, Cl. 179—18.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Telephone system with inductive pulsing. 2,899,501, 8-11-59, Cl. 179—16.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Party line paystation. 2,904,633, 9-15-59, Cl. 179—17.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Prepay paystation. 2,908,757, 10-13-59, Cl. 179—6.3.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Paystation trunk with time signals. 2,910,537, 10-27-59, Cl. 179—6.31.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Telephone system. 2,911,478, 11-3-59, Cl. 179—18.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Small suboffice telephone system. 2,911,480, 11-3-59, Cl. 179—26.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Multi-office metering telephone system. 2,912,505, 11-10-59, Cl. 179—7.1.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Restricted service arrangements in telephone systems. 2,914,616, 11-24-59, Cl. 179—18.
- Lomax, Clarence E., to General Telephone Laboratories, Inc. Connector supervisory circuit. 2,918,531, 12-22-59, Cl. 179—8.5.
- Lomazzo, Edmund J., to The Bullard Co. Mechanism for performing machining operations. 2,900,860, 8-25-59, Cl. 82—24.
- Lombard, Adrian A., to Rolls-Royce Ltd. Means for controlling the rotational speed of the low-pressure compressor rotor of gas turbine engines. 2,873,576, 2-17-59, Cl. 60—35.6.
- Lombard, Charles F.: *See*—  
Roth, Herman P., and Lombard. 2,867,812.
- Lombard Corp.: *See*—  
Drexler, Ernest. 2,897,783.  
Kendall, Edgar H., Terhune, and Lombard. 2,914,971.  
Lombard, Daniel L. 2,873,849.  
Lombard, Daniel L., and Jackson. 2,873,764.  
Turner, Ralph R. 2,897,957.  
Turner, Ralph R. 2,919,016.  
Wells, Sheldon E. 2,897,871.  
Wells, Sheldon E. 2,910,192.
- Lombard, Daniel L.: *See*—  
Kendall, Edgar H., Terhune, and Lombard. 2,914,971.  
Lombard, Daniel L., to Lombard Corp. Tube drawing apparatus. 2,873,849, 2-17-59, Cl. 205—3.
- Lombard, Daniel L., and W. R. Jackson, to Lombard Corp. Pipe end sealing apparatus for use in the pressure testing of pipes and tubes. 2,873,764, 2-17-59, Cl. 138—90.
- Lombard, Frederick E., Jr.: *See*—  
Haigler, Edmund D., Huston, and Lombard. 2,907,336.
- Lombardi, Anthony J., to International Telephone and Telegraph Corp. Resonant cavity with fixed contact adjustable plunger. 2,903,659, 9-8-59, Cl. 333—82.
- Lombardi, Vincent. Knitting machines and methods. 2,893,226, 7-7-59, Cl. 66—93.
- Lombardo, Vincent. Baby carriage, self-rocking type. 2,904,344, 9-15-59, Cl. 280—47.1.
- Lombardi, Vincent. Knitting machine. 2,911,807, 11-10-59, Cl. 66—50.
- Lombardo, Joseph A., to The Singer Mfg. Co. Sewing machine throat plates. 2,885,986, 5-12-59, Cl. 112—260.
- Lombi, Louis G. Manicotti machine. 2,905,105, 9-22-59, Cl. 107—1.
- Lönberg-Holm, Ethel C. Disposable diaper. 2,890,700, 6-16-59, Cl. 128—284.
- Londergan, Thomas E., to E. I. du Pont de Nemours and Co. Acetylenically unsaturated compounds. 2,867,662, 1-6-59, Cl. 260—583.
- London, Eric, and G. D. Twigg, to Bengel Laboratories Ltd. Therapeutic preparations of iron. Re. 24,642, 4-28-59, Cl. 167—68.
- London, Fred H., to Curtiss-Wright Corp. Thickness measuring apparatus with compensation for atmospheric conditions. 2,883,555, 4-21-59, Cl. 250—105.
- London, Melvin D., to The Absorbent Cotton Co. Breast pad and machine for making same. 2,891,544, 6-23-59, Cl. 128—280.
- Loneragan, William R.: *See*—  
Hoberg, George G., Loneragan, Thornley, Williams, and Stevens. 2,918,658.
- Lones, Dain B., and S. E. Westman, to The Garrett Corp. Altitude controller. Re. 24,597, 2-3-59, Cl. 201—48.
- Lone Star Gas Co.: *See*—  
Foster, Robert F. 2,915,325.  
Whalen, Frank B. 2,901,138.
- Long, Alan G.: *See*—  
Hunt, John S., Long, and Mooney. 2,880,218.
- Long, Alan G., and W. Graham, to Glaxo Laboratories Ltd. Separation of steroid mixtures. 2,904,565, 9-15-59, Cl. 260—397.45.
- Long, Alan G., and L. J. Wyman, to Glaxo Laboratories Ltd. Separation of steroid mixtures. 2,908,695, 10-13-59, Cl. 260—397.45.
- Long, Albert E.: *See*—  
Mason, Hal F., and Long. 2,868,282.  
Mason, Hal F., and Long. 2,868,283.  
Mason, Hal F., and Long. 2,868,284.



- Long, Alexander, to Servonics, Inc. Potentiometer. 2,909,747, 10-20-59, Cl. 338-130.
- Long, Arthur H., to Wm. K. Stamets Co. Rotary cutoff machine with radially movable cutters. 2,894,582, 7-14-59, Cl. 164-60.
- Long, Ben J. Under ice towing and launching device. 2,904,919, 9-22-59, Cl. 43-4.
- Long, Bernard, to Compagnies Reunies des Glaces & Verres Speciaux du Nord de la France. Manufacture of glass. 2,900,764, 8-25-59, Cl. 49-54.
- Long, Charles A., Jr. Process and apparatus for treating iron ore. 2,911,296, 11-3-59, Cl. 75-5.
- Long, Clara M.: *See*—  
Webb, Leon C. 2,873,574.
- Long Co., The: *See*—  
Clay, Jeff C. 2,894,489.  
Long, John B., and Clay. 2,896,774.
- Long, Donald A.: *See*—  
Mosher, Walter W., Jr., and Goldammer. 2,893,143.
- Long, E., Ltd.: *See*—  
Wolfe, William G. 2,889,947.
- Long, Everett: *See*—  
Greenhalgh, Frank G., and Long. 2,877,170.
- Long, Florren E., to Continental Can Co., Inc. Automatic foaming unit. 2,899,318, 8-11-59, Cl. 99-180.
- Long, George, and T. Tsuchiya, to General Mills, Inc. Vibratory apparatus. 2,876,891, 3-10-59, Cl. 198-220.
- Long, George B., to General Motors Corp. Domestic appliance. 2,879,763, 3-31-59, Cl. 126-340.
- Long, George B., to General Motors Corp. Domestic appliance. 2,882,379, 4-14-59, Cl. 219-20.
- Long, George B., to General Motors Corp. Washer. 2,895,320, 7-21-59, Cl. 68-58.
- Long, George B., and B. L. Brucken, to General Motors Corp. Domestic appliance. 2,877,333, 3-10-59, Cl. 219-20.
- Long, George B., and R. E. Clever, to General Motors Corp. Domestic appliance. 2,894,105, 7-7-59, Cl. 219-20.
- Long, George B., and B. L. Brucken, to General Motors Corp. Washing machine. 2,906,111, 9-29-59, Cl. 68-28.
- Long, Henry M. Three-dimensional crosswood puzzle. 2,886,325, 5-12-59, Cl. 273-157.
- Long, James K.: *See*—  
Towle, Jack L., and Long. 2,881,120.
- Long, Jasper, to Wade Electric Products Co. Machine. 2,875,318, 2-24-59, Cl. 219-79.
- Long, Jasper, to Wade Electric Products Co. Headlight connector. 2,885,649, 5-5-59, Cl. 339-66.
- Long, Jasper, to Wade Electric Products Co. Machine. 2,906,855, 9-29-59, Cl. 219-79.
- Long, Jasper, and L. J. Hess, to Wade Electric Products Co. Switch. 2,907,852, 10-6-59, Cl. 200-159.
- Long, John B., and J. C. Clay, to The Long Co. Belt conveyors. 2,896,774, 7-28-59, Cl. 198-202.
- Long, John R.: *See*—  
Flint, Alden C., Livingston, Haven, and Long. 2,871,519.
- Long, John R., to Shuford Mills, Inc. Variable speed mechanism. 2,877,528, 3-17-59, Cl. 74-230.17.
- Long, John R. Dump scoop. 2,895,238, 7-21-59, Cl. 37-130.
- Long, John R., to Parks-Cramer Co. Apparatus for cleaning textile machines and the floors therebeneath. 2,910,719, 11-3-59, Cl. 15-316.
- Long, John R., to Shuford Mills, Inc. Variable speed control for winding machines. 2,918,779, 12-29-59, Cl. 57-98.
- Long, John R., and A. C. Flint, 50% to Granite Machine Co. and 50% to Livingston & Haven, Inc. Lap roll pressure means for lapping machines. 2,890,841, 6-16-59, Cl. 242-55.1.
- Long, John T., Jr.: *See*—  
Kunce, Basil H., Long, and Olson. 2,916,378.
- Long, John V., and J. V. Furth, to Solar Aircraft Co. Coating for cleaning and protecting metals. 2,889,238, 6-2-59, Cl. 117-103.
- Long, John V., and J. V. Furth, to Solar Aircraft Co. Protective cermet coating method and materials. 2,898,236, 8-4-59, Cl. 117-124.
- Long, John V., and J. V. Furth, to Solar Aircraft Co. Cermet composition and method of coating therewith. 2,900,276, 8-18-59, Cl. 117-70.
- Long, Joseph E.: *See*—  
Mosher, Walter W., Jr., and Goldammer. 2,893,143.
- Long, Joseph N., to The Vilter Mfg. Co. Liquid level and temperature responsive control valve for refrigeration apparatus. 2,909,042, 10-20-59, Cl. 62-192.
- Long, Justin T.: *See*—  
Sweeney, Orland R., Arnold, and Long. 2,871,207.
- Long, Laurence F. Folding safety anchor. 2,910,955, 11-3-59, Cl. 114-208.
- Long, Lewis D., to National Tank Co. Reversible motor valves. 2,903,011, 9-8-59, Cl. 137-270.
- Long-Lok Corp.: *See*—  
McKay, Thomas L., Oliver, and Starriett. 2,913,031.
- Long, Luther L., and R. G. Trout, to Owens-Corning Fiberglas Corp. Method for forming and treating fibers. 2,914,806, 12-1-59, Cl. 18-47.3.
- Long Mfg. Co., Inc.: *See*—  
Atkinson, Wallace E. 2,912,844.  
Eubanks, Furney M. 2,891,657.  
Long, William R. 2,891,658.
- Long, Merton W., Jr.: *See*—  
Fookes, James H., Pelton, and Long. 2,885,444.
- Long, Merton W., Jr., to The Dow Chemical Co. Preparation of piperazine. 2,910,477, 10-27-59, Cl. 260-268.
- Long, Paul M., to A. B. A. Mfg. Co. Adjustable dolly. 2,878,028, 3-17-59, Cl. 280-35.
- Long, Ray S.: *See*—  
Bailes, Richard H., Long, Olson, and Kerlinger. 2,873,165.
- Long, Ray S., to United States of America, Atomic Energy Commission. Process for the recovery of uranium from phosphatic ore. 2,882,123, 4-14-59, Cl. 23-14.5.
- Long, Reuben M. Scraper. 2,882,594, 4-21-59, Cl. 30-170.
- Long, Richard H.: *See*—  
Price, Earl R., and Long. 2,910,325.
- Long, Richard H., to Bendix Aviation Corp. Starter control mechanism. 2,893,368, 7-7-59, Cl. 123-179.
- Long, Richard H., and E. E. Prather, to Bendix Aviation Corp. Two stage governor. 2,906,833, 9-29-59, Cl. 200-80.
- Long, Robert B.: *See*—  
Houston, Robert W., Tarmy, and Long. 2,904,484.  
Tarmy, Barry L., and Long. 2,904,485.
- Long, Robert B., and H. J. Hibshman, to Esso Research and Engineering Co. Hydrocarbon radiochemical reactions. 2,904,483, 9-15-59, Cl. 204-154.
- Long, Robert B., H. J. Hibshman, J. P. Longwell, and R. W. Houston, to Esso Research and Engineering Co. Conversion of hydrocarbons in the presence of neutron irradiation and a hydrogenation catalyst. 2,905,606, 9-22-59, Cl. 204-154.
- Long, Robert B., H. J. Hibshman, J. P. Longwell, and R. W. Houston, to Esso Research and Engineering Co. Conversion of hydrocarbons in the presence of neutron radiation and a cracking catalyst. 2,905,607, 9-22-59, Cl. 204-154.
- Long, Robert S.: *See*—  
Clauser, Herbert C., and Long. 2,889,653.  
Hemminger, Charles E., Dudley, and Long. 2,885,345.  
Katz, Leon, Hein, Pretka, and Long. 2,913,450.  
Tsang, Sien M., and Long. 2,884,446.
- Long, Robert S., to Kilcore, Inc. Toy cap gun with hammer cocking means. 2,897,621, 8-4-59, Cl. 42-54.
- Long, Robert S., and S. M. Tsang, to American Cyanamid Co. Dyes from stilbene dicarboxylic acid amides. 2,877,218, 3-10-59, Cl. 260-168.
- Long, Robert S., and R. J. Boyle, to American Cyanamid Co. Pyrrocoline dyes. 2,877,230, 3-10-59, Cl. 260-295.
- Long, Robert S., and S. M. Tsang, to American Cyanamid Co. Biguanide azo dyes. 2,889,317, 6-2-59, Cl. 260-160.
- Long, Robert S., and B. G. Buell, to American Cyanamid Co. Azo dyes containing the benzonaphthofuranol nucleus. 2,893,986, 7-7-59, Cl. 260-152.
- Long, Robert S., and B. G. Buell, to American Cyanamid Co. Benzonaphthofuranols. 2,894,003, 7-7-59, Cl. 260-346.2.
- Long, Robert S., and S. M. Tsang, to American Cyanamid Co. Biguanide azo dyes. 2,898,332, 8-4-59, Cl. 260-148.
- Long, Robert S., and S. M. Tsang, to American Cyanamid Co. Stilbene dicarboxylic acid amides. 2,898,371, 8-4-59, Cl. 260-507.
- Long, Robert S., and S. M. Tsang, to American Cyanamid Co. Dyes from stilbene dicarboxylic acid amides. 2,903,450, 9-8-59, Cl. 260-240.
- Long, Robert S., and J. E. Pretka, to American Cyanamid Co. 2,5-bis(p-aminophenyl) furan derivatives. 2,915,534, 12-1-59, Cl. 260-347.2.
- Long, Roger A., to Rand Development Corp. Method and coating for protection of molybdenum and its alloys. 2,878,554, 3-24-59, Cl. 29-198.
- Long, Stuart S., and B. B. Cox, 1/2 to Paul Knitting Mills, Inc. Hosiery clipping and everting machine. 2,899,116, 8-11-59, Cl. 223-43.
- Long, Theodore M. Temperature responsive rocket nozzle. 2,870,599, 1-27-59, Cl. 60-35.6.
- Long, Theodore M. Flow controlling mechanism for reaction type motors. 2,870,603, 1-27-59, Cl. 60-35.6.
- Long, Thomas J.: *See*—  
Patrick, James T., and Long. 2,914,291.
- Long, Thomas L., to Johnston Testers, Inc. Firing head. 2,876,701, 3-10-59, Cl. 102-70.
- Long, Thomas L., to Johnston Testers, Inc. Well packing tool. 2,878,876, 3-24-59, Cl. 166-201.
- Long, William J., to Minneapolis-Honeywell Regulator Co. Mechanical apparatus for feeding documents. 2,908,496, 10-13-59, Cl. 271-32.
- Long, William L., and T. P. Hoffer, to Pressure Services, Inc. Well flow control and anchoring device. 2,885,006, 5-5-59, Cl. 166-125.
- Long, William R., to Long Mfg. Co., Inc. Conveyor clip. 2,891,658, 6-23-59, Cl. 198-179.
- Longacre, Henry C. M., to Sylvania Electric Products Inc. Induction heating apparatus. 2,876,324, 3-3-59, Cl. 219-104.9.
- Longacre, Henry C. M., to Sylvania Electric Products Inc. Lamp. 2,879,431, 3-24-59, Cl. 313-341.
- Longacre, Russell S. Self-watering flower pot assembly. 2,885,825, 5-12-59, Cl. 47-38.
- Longacre, Russel S. Window sash burglar alarm. 2,885,991, 5-12-59, Cl. 116-91.
- Longan, Mildred F., to Renfro-Franklin Co. Carrier tray for containers. 2,896,815, 7-28-59, Cl. 220-117.
- Longenecker, Daniel M., and H. H. Chamberlain, to General Electric Co. Pulse responsive relay. 2,897,412, 7-28-59, Cl. 317-147.
- Longenecker, John S. Method of making a one-piece display device. 2,900,667, 8-25-59, Cl. 18-47.5.



- Longerich, Ernest P., to Bendix Aviation Corp. Analog squaring and square rooting circuits. 2,879,002, 3-24-59, Cl. 235-186.
- Longert, Christian L., to Vimonta Internationale Handelsgesellschaft. Cleaning brush, particularly for mouth treatments. 2,888,696, 6-2-59, Cl. 15-136.
- Longfellow, Harold W., to Han-D-Hook, Inc. Implement holding device. 2,898,657, 8-11-59, Cl. 24-249.
- Longfellow, Melvin E., to United Aircraft Corp. Servo operated temperature compensated valve. 2,917,061, 12-15-59, Cl. 137-51.
- Longfellow, Richard C., to The Cretex Companies, Inc. Gasket sealed concrete pipe form. 2,869,213, 1-20-59, Cl. 25-127.
- Longfield, William F., to The Federal Machine and Welder Co. Press apparatus. 2,872,886, 2-10-59, Cl. 113-38.
- Longfield, William F., to The Federal Machine & Welder Co. Variable stroke press. 2,896,457, 7-28-59, Cl. 74-13.
- Longhi, Vincent L. Shingling gage. 2,889,632, 6-9-59, Cl. 33-188.
- Longi, Paoli: *See*—  
Natta, Giulio, Mazzanti, and Longi. 2,905,646.
- Longines-Whittnauer Watch Co. Inc.: *See*—  
Lucian, Arsene N., and Hilliard. 2,909,892.  
Oxberry, John W. 2,912,898.
- Longini, Richard L.: *See*—  
Muss, Daniel R., and Longini. 2,879,481.
- Longini, Richard L., to Westinghouse Electric Corp. Increase of image contrast with television pickup tube. 2,900,445, 8-18-59, Cl. 178-68.
- Longland, George M., Jr., to The Pure Oil Co. Oliensis negative asphalt production. 2,903,412, 9-8-59, Cl. 208-41.
- Longley, Herbert J. Lightweight adjustable louvers. 2,887,153, 5-19-59, Cl. 160-166.
- Longley, James E., and F. P. Valenziano, to Lock Joint Pipe Co. Method for tapping pipe. 2,911,859, 11-10-59, Cl. 77-42.
- Longley, Raymond I., Jr.: *See*—  
Chapin, Earl C., and Longley. 2,889,311.  
Chapin, Earl C., and Longley. 2,893,979.  
Chapin, Earl C., and Longley. 2,905,656.
- Longley, Raymond I., Jr., to Monsanto Chemical Co. Substituted styrenes. 2,916,521, 12-8-59, Cl. 260-613.
- Longmire, Marion A.: *See*—  
Hancock, Dorothy L., and Longmire. 2,882,708.
- Longo, Gregory W. Mounting device for strand supported elements. 2,889,451, 6-2-59, Cl. 240-52.
- Longstreth, Murray O., and J. E. Tollar, to The Dow Chemical Co. Assembly for supporting center cores in annular supply passageways for circumferential extrusion dies and the like. 2,913,763, 11-24-59, Cl. 18-14.
- Longton, Ernest W., A. J. Beaudoin, and P. W. Johnson. Power system transmitted alarm. 2,867,795, 1-6-59, Cl. 340-310.
- Longview Fibre Co.: *See*—  
Hamilton, Joseph P. 2,910,220.
- Longville, Henry W.: *See*—  
Enock, Arthur G., and Longville. 2,897,988.
- Longwell, John P.: *See*—  
Long, Robert B., Hibshman, Longwell, and Houston. 2,905,606.  
Long, Robert B., Hibshman, Longwell, and Houston. 2,905,607.
- Longwell, John P., to Esso Research and Engineering Co. Process using fluidized solids. 2,908,485, 10-13-59, Cl. 257-1.
- Lontz, John F.: *See*—  
Kumnick, Miles C., and Lontz. 2,876,131.  
Kumnick, Miles C., and Lontz. 2,891,921.
- Lonza Electric and Chemical Works Ltd.: *See*—  
Matile, Pascal. 2,892,870.  
Stirnemann, Ernst, and Lanz. 2,879,218.  
Voos, Walter. 2,905,551.
- Lonza Elektrizitätswerke und Chemische Fabriken A. G.: *See*—  
Zdansky, Ewald A. 2,871,179.  
Zdansky, Ewald A. 2,881,123.
- Loo, Ching C., to Carnation Co. Homogenizing valve. 2,882,025, 4-14-59, Cl. 259-4.
- Lock, Fred F.: *See*—  
De Smidt, Woodrow A., Lock, and Zarwell. 2,897,327.
- Loofbourrow, Alan G., to Chrysler Corp. Valve structure. 2,871,907, 2-3-59, Cl. 152-427.
- Loofbourrow, Alan G., to Chrysler Corp. Transmission gearshift control mechanism. 2,884,802, 5-5-59, Cl. 74-473.
- Loofbourrow, Alan G., to Chrysler Corp. Wheel mounted vibration damper. 2,901,290, 8-25-59, Cl. 301-5.
- Loofbourrow, Alan G., to Chrysler Corp. Vehicle transmission control apparatus. 2,902,881, 9-8-59, Cl. 74-473.
- Loofbourrow, Robert J.: *See*—  
Clements, Roy J., Loofbourrow, and Lee. 2,914,686.
- Look, Melvin: *See*—  
Rapoport, Henry, and Look. 2,890,221.
- Lookholder, David. Ash receiver. 2,880,736, 4-7-59, Cl. 131-242.
- Lookholder, David. Ash receiver. 2,910,073, 10-27-59, Cl. 131-231.
- Loomans, Robert E., to Deere & Co. Fertilizer distributor gate operating arrangement. 2,890,667, 6-16-59, Cl. 111-67.
- Loomans, Robert E., to Deere & Co. Fertilizer distributor attachment for grain drills. 2,894,663, 7-14-59, Cl. 222-282.
- Loomer, Lloyd K.: *See*—  
Hammer, Warren H., and Loomer. 2,906,584.
- Loomis, Alfred L., to United States of America, Navy. Long range navigation system. 2,884,628, 4-28-59, Cl. 343-103.
- Loomis, Echo T. Cultivating tool. 2,873,809, 2-17-59, Cl. 172-376.
- Loomis, Eugene. Necktie. 2,874,386, 2-24-59, Cl. 2-150.
- Loomis, Jack E., and D. W. McKee, to Clark Equipment Co. Clamping means. 2,902,247, 9-1-59, Cl. 248-361.
- Loomis, Nelson E., to Son-Chief Electric, Inc. Protected insulated heating element for electric percolators. 2,915,614, 12-1-59, Cl. 219-44.
- Loomis, Robert F., to Fuller Co. Conveying apparatus. 2,891,817, 6-23-59, Cl. 302-52.
- Loomis, Robert F., to Fuller Co. Discharge means for storage receptacles. 2,915,337, 12-1-59, Cl. 302-53.
- Loomis, Robert F., to Fuller Co. Conveying apparatus. 2,915,338, 12-1-59, Cl. 302-53.
- Loomis-Root Inc.: *See*—  
Root, Glenn M. 2,912,558.
- Loomis, Stanley K. Cigar protectors. 2,910,072, 10-27-59, Cl. 131-189.
- Loonam, Alfred C., to Chilean Nitrate Sales Corp. Titanium metallurgy. 2,895,852, 7-21-59, Cl. 117-107.
- Loonam, Alfred C., to Chilean Nitrate Sales Corp. Sanitizing compositions. 2,918,400, 12-22-59, Cl. 167-17.
- Looney, Fred, and H. O. Earnest. Windshield cleaning device. 2,870,470, 1-27-59, Cl. 15-118.
- Loop, James P., to Continental Steel Corp. Collapsible core spool mechanism. 2,894,701, 7-14-59, Cl. 242-72.1.
- Loos, Horst R., to Statní vyzkumny ustav tepelne techniky Praha. Electric measuring apparatus for measuring the time integral of momentary pulses. 2,903,646, 9-8-59, Cl. 324-123.
- Loose Leaf Metals Co.: *See*—  
Schroer, Walter E., Trybinski, and Walling. 2,902,039.
- Lopata, Stanley L. Corrosion-resistant coatings containing coal tar oil and an epoxy resin. 2,889,305, 6-2-59, Cl. 260-33.6.
- Lopatka, Dale R.: *See*—  
Levy, Edward M., and Lopatka. 2,910,187.
- Lopinski, Stanley A., and G. E. Childs, to Westinghouse Electric Corp. Coating nozzle cleaning apparatus. 2,884,895, 5-5-59, Cl. 118-49.1.
- Loper, Douglas A., to Abbott Laboratories. Hypodermic syringe and needle hub structure. 2,902,995, 9-8-59, Cl. 128-215.
- Loper, George B., to Socony Mobil Oil Co., Inc. Intensity-modulated transient display. 2,912,672, 11-10-59, Cl. 340-15.
- Loper, George B., and R. R. Pittman, to Socony Mobil Oil Co., Inc. Recording camera for monitoring seismic waves. 2,871,089, 1-27-59, Cl. 346-109.
- Lopes, Edward J.: *See*—  
Pollak, Philip, Jr., and Lopes. 2,911,279.
- Lopez, Alfonso S. Window alarm device. 2,868,915, 1-13-59, Cl. 200-61.72.
- Lopez, John P., and A. C. Monaghan, to Universal Corrugated Box Machinery Corp. Folded box blank crushing and gluing machine. 2,876,731, 3-10-59, Cl. 118-44.
- Lopez, Rene. Casing for camera. 2,868,098, 1-13-59, Cl. 95-11.5.
- Lopez, Rene. Camera case. 2,899,879, 8-18-59, Cl. 95-11.
- Lopez, Rene. Combination camera and radio. 2,899,881, 8-18-59, Cl. 95-12.
- Lopez, Serafin G. Hook and cleat combination. 2,892,230, 6-30-59, Cl. 24-123.
- López-Henriquez, Miguel. Brasserie construction. 2,900,982, 8-25-59, Cl. 128-476.
- Lopp, Charles R.: *See*—  
Levit, Edward C., and Lopp. 2,894,631.
- Lo Presti, Roy F.: *See*—  
Boersma, Richard F., and Lo Presti. 2,889,913.
- Lo Presti, Roy F., to Goodman Mfg. Co. Troughing roller assemblies for flexible cable supported belt conveyors. 2,885,066, 5-5-59, Cl. 198-192.
- Lo Presti, Roy F., and J. R. Madeira, to Goodman Mfg. Co. Rigidly spaced limber idler troughing roller assembly for endless conveyor. 2,875,886, 3-3-59, Cl. 198-192.
- Lo Presti, Roy F., and H. E. Smith, to Goodman Mfg. Co. Troughing roller assembly for belt conveyors. 2,892,533, 6-30-59, Cl. 198-192.
- Lorain Products Corp.: *See*—  
Huge, Henry M. 2,892,133.  
Huge, Henry M. 2,896,147.  
Merkel, Stephen L. 2,914,720.
- L'Orange G.m.b.H.: *See*—  
L'Orange, Rudolf H. 2,912,168.
- L'Orange, Rudolf H., to L'Orange G.m.b.H. Fuel injection unit. 2,912,168, 11-10-59, Cl. 239-88.
- Lorch, Hermann R., and J. A. McCleery, to British Insulated Callender's Cables Ltd. Electric heating cables. 2,905,919, 9-22-59, Cl. 338-224.
- Lord, Arthur V., to Marconi's Wireless Telegraph Co. Ltd. and Standard Telephones & Cables Ltd. Electronic information storage. 2,882,444, 4-14-59, Cl. 315-11.
- Lord, George W., to National Research Development Corp. Cold rolling mills. 2,872,833, 2-10-59, Cl. 80-38.
- Lord, Harold W., to General Electric Co. Apparatus for magnetic core testing. 2,888,641, 5-26-59, Cl. 324-34.



- Lord High Admiral of the United Kingdom of Great Britain and Ireland, The Commissioners for Executing the Office of, and Parsons and Marine Engineering Turbine Research and Development Association, The: *See*—  
Cleff, Peter H. 2,888,784.
- Lord, John G., and C. W. Woods, to Philco Corp. Insertion machine. 2,908,010, 10-13-59, Cl. 1—101.
- Lord Mfg. Co.: *See*—  
Beck, Merrill G. 2,893,722.  
Coleman, Elmer W., Jr., and Alstadt. 2,900,292.  
Coleman, Elmer W., Jr., and Alstadt. 2,905,582.  
Lipinski, Richard J. 2,881,106.  
Painter, Giles W. 2,906,523.
- Lord, Richard W.: *See*—  
Schenker, Bernard, Lord, and Campbell. 2,918,633.
- Lord, Thomas J.: *See*—  
Booth, Harry T., and Lord. 2,894,526.  
Booth, Harry T., and Lord. 2,894,712.
- Lord, Thomas J., and G. G. Foltz, to United Aircraft Products, Inc. Repeated action injector apparatus. 2,886,280, 5-12-59, Cl. 251—13.
- Lord Baltimore Press, Inc., The: *See*—  
Klein, Clarence F. 2,916,859.
- Loredo, Cyril J. Pen and pencil holder. 2,913,789, 11-24-59, Cl. 24—10.
- Loren Cook Co.: *See*—  
Rudy, Emil. 2,911,900.
- Lorence, Herman R.: *See*—  
Grant, David, and Lorence. 2,909,927.
- Lorence, Raymond W., Sr.: *See*—  
Hermann, Joseph A., and Lorence. 2,897,640.
- Lorenan, Eugenia. Manufacture of slidable-core pencils. 2,902,754, 9-8-59, Cl. 29—417.
- Lorensen, Lyman E.: *See*—  
Hewett, William A., Jones, and Lorensen. 2,895,915.
- Lorensen, Lyman E., to Shell Development Co. Lubricating oil compositions. 2,915,471, 12-1-59, Cl. 252—51.5.
- Lorensen, Lyman E., E. R. Barnum, and J. Zachar, to Shell Development Co. Lubricating oil compositions. 2,889,282, 6-2-59, Cl. 252—51.5.
- Lorentzen, Hans K., to Lorentzen Hardware Mfg. Corp. Cord lock fitting. 2,872,976, 10-1-59, Cl. 160—173.
- Lorentzen Hardware Mfg. Corp.: *See*—  
Anderle, Joseph A. 2,890,851.  
Anderle, Joseph A. 2,901,035.  
Lorentzen, Hans K. 2,872,976.
- Lorenz, Albert, to W. C. Heraeus, G.m.b.H. Method and apparatus for continuously degassing molten metals, particularly steel, by evacuation. 2,893,860, 7-7-59, Cl. 75—49.
- Lorenz, Albert, to W. C. Heraeus, G.m.b.H. Roots type vacuum pumps. 2,906,448, 9-29-59, Cl. 230—210.
- Lorenz, Anton: *See*—  
Fletcher, Peter S. 2,879,833.  
Fletcher, Peter S. 2,890,742.  
Fletcher, Peter S. 2,914,112.  
Fletcher, Peter S. 2,914,113.  
Fletcher, Peter S. 2,914,114.  
Luckhardt, Johannes and W. 2,870,822.  
Schliephacke, Fridtjof F. 2,869,617.  
Schliephacke, Fridtjof F. 2,869,618.  
Schliephacke, Fridtjof F. 2,871,917.  
Schliephacke, Fridtjof F. 2,871,918.  
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Schliephacke, Fridtjof F. 2,873,791.  
Schliephacke, Fridtjof F. 2,875,812.  
Schliephacke, Fridtjof F. 2,875,813.  
Schliephacke, Fridtjof F. 2,875,814.  
Schliephacke, Fridtjof F. 2,880,785.  
Schliephacke, Fridtjof F. 2,888,978.  
Schliephacke, Fridtjof F. 2,891,600.  
Schliephacke, Fridtjof F. 2,892,485.  
Schliephacke, Fridtjof F. 2,906,318.  
Schliephacke, Fridtjof F. 2,909,214.  
Schliephacke, Fridtjof F. 2,911,032.  
Schliephacke, Fridtjof F. 2,918,109.  
Schliephacke, Fridtjof F. 2,918,110.  
Schliephacke, Fridtjof F. 2,918,111.  
Schliephacke, Fridtjof F. 2,918,112.
- Lorenz, Anton. Article of repose for supporting the body of a person. Re. 24,759, 12-29-59, Cl. 155—106.
- Lorenz, Anton. Article of repose for supporting the body of a person. Re. 24,760, 12-29-59, Cl. 155—106.
- Lorenz, Anton. Article of repose for supporting the body of a person. 2,872,968, 2-10-59, Cl. 155—106.
- Lorenz, Anton. Article of repose for supporting the body of a person. 2,879,832, 3-31-59, Cl. 155—106.
- Lorenz, Anton. Reclining chair. 2,894,564, 7-14-59, Cl. 155—117.
- Lorenz, Anton. Reclining article of furniture. 2,895,538, 7-21-59, Cl. 155—106.
- Lorenz, Anton. Article of repose for supporting the body of a person. 2,908,321, 10-13-59, Cl. 155—106.
- Lorenz, Anton. Multiple position reclining chair. 2,918,113, 12-22-59, Cl. 155—106.
- Lorenz, Donald L.: *See*—  
Aspelin, Leslie L., Murray, and Lorenz. 2,887,058.  
Murray, John F., and Lorenz. 2,891,483.
- Lorenz, Donald L., to Thompson Products, Inc. Movable bushing for a pressure-loaded gear pump. 2,870,720, 1-27-59, Cl. 103—126.
- Lorenz, Eldon L., to Michigan Wheel Co. Pitch blocks. 2,916,074, 12-8-59, Cl. 153—32.
- Lorenz, Edward J.: *See*—  
Hauser, John H., and Lorenz. 2,872,391.
- Lorenz, Gert: *See*—  
Fischer, Wilhelm A., and Lorenz. 2,912,477.
- Lorenz, James H., and F. R. Whaley, to Union Carbide Corp. Preparation of mono-silane. 2,912,308, 11-10-59, Cl. 23—204.
- Lorenz, James H., and F. R. Whaley, to Union Carbide Corp. Preparation of mono-silane. 2,915,368, 12-1-59, Cl. 23—204.
- Lorenz, Lothar: *See*—  
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- Lorenz, Richard L., to General Time Corp. Program unit for time recorder. 2,874,773, 2-24-59, Cl. 161—21.
- Lorenz, Rudolf: *See*—  
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- Lorenz, Walter: *See*—  
Schrader, Gerhard, and Lorenz. 2,910,500.  
Schrader, Gerhard, and Lorenz. 2,914,530.
- Lorenz, Walter, to Farbenfabriken Bayer Akt. Di(lower alkyl)-mono( $\alpha$ -phenyl- $\beta$ -carbalkoxy-vinyl) phosphate esters. 2,894,018, 7-7-59, Cl. 260—461.
- Lorenz, Walter, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and process for their production. 2,902,493, 9-1-59, Cl. 260—326.5.
- Lorenz, Walter, R. Muhlman, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of thiophosphoric acid esters. 2,915,546, 12-1-59, Cl. 260—461.
- Lorenzen, Coby, to The Regents of the University of California. Pit removal mechanism. 2,882,944, 4-21-59, Cl. 146—28.
- Lorenzo, Alfred: *See*—  
Puddington, Ira E., MacIlhinney, and Lorenzo. 2,883,059.
- Lorenzo, Wilson. Lock safety device for door locks. 2,883,849, 4-28-59, Cl. 70—427.
- Loretitsch, Ferdinand J. Guard attachment for claw hammer. 2,879,030, 3-24-59, Cl. 254—26.
- Lorette, Nicholas B., to The Dow Chemical Co. Preparation of keto ethers. 2,871,269, 1-27-59, Cl. 260—594.
- Loria, Anthony: *See*—  
Salminen, Ilmari F., Barr, and Loria. 2,895,826.
- Loria, Samuel F.: *See*—  
Bogater, John P., Loria, and Putnam. 2,908,415.
- Lorig, Edwin T., to United States Steel Corp. Self-centering roll. 2,869,866, 1-20-59, Cl. 271—2.6.
- Loring, Lewis D., Jr., to Sinclair Refining Co. Process for the manufacture of mixed base sodium calcium greases. 2,915,469, 12-1-59, Cl. 252—40.
- Loring, Ralph C., to Phillips Petroleum Co. Seismic signal interpretation apparatus. 2,877,554, 3-17-59, Cl. 33—27.
- Lorrain, Paul M.: *See*—  
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- Lorscheidt, Manfred K., to Daimler-Benz Akt. Housing seal for internal combustion engines. 2,876,024, 3-3-59, Cl. 286—1.
- Lorthois, Michel. Game-playing clubs. 2,882,053, 4-14-59, Cl. 273—79.
- Lortie, Francis N. Posting collator. 2,913,257, 11-17-59, Cl. 282—29.
- Lortz, Russell W., to Phillips Petroleum Co. Check valve. 2,900,998, 8-25-59, Cl. 137—515.3.
- Lortz, Victor. Swimmer's safety belt. 2,882,537, 4-21-59, Cl. 9—19.
- Los Angeles By-Products Co.: *See*—  
Gillette, Sidney G. 2,913,113.
- Losch, Kenneth, and E. A. Petrocelli, to Westinghouse Electric Corp. Bus bar power channel. 2,913,601, 11-17-59, Cl. 307—147.
- Losch, Rudolf: *See*—  
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- Losco, Ezekiel F., J. H. Bechtold, and J. P. Webb, to Westinghouse Electric Corp. Applying metal coatings to molybdenum. 2,874,453, 2-24-59, Cl. 29—183.5.
- Losco, Ezekiel F., and G. Strull, to Westinghouse Electric Corp. Process for producing semiconductor devices. 2,909,453, 10-20-59, Cl. 148—1.5.
- Losco, Guiseppe: *See*—  
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- Losey, Thomas B., to The Guiberson Corp. Swab cup. 2,887,347, 5-19-59, Cl. 309—33.
- Losfeld, André, and M. Roustant. Instantaneous and time-lag percussion fuse for gun and small-arm projectile. 2,882,825, 4-21-59, Cl. 102—74.
- Loshaek, Sam, to Rohm & Haas Co. Polyisocyanate modified plural coat system for leather. 2,884,340, 4-28-59, Cl. 117—76.
- Loshaek, Sam, and W. W. Toy, to Rohm & Haas Co. Methods for producing coated leather and the products thereof. 2,884,336, 4-28-59, Cl. 117—11.
- Losinger & Co. A. G.: *See*—  
Siegfried, Erwin. 2,871,554.
- Lossau, Earl, to Bobcat Corp. Frame structure for golf bag motor scooter. 2,908,510, 10-13-59, Cl. 280—281.
- Lossef, David. Interchangeable tube cap circuit. 2,901,690, 8-25-59, Cl. 324—22.
- Lossius, Allan R. Fly swatter having fly pick up. 2,902,793, 9-8-59, Cl. 43—137.
- Lossius, Allan R. Fly swatter and pick up device. 2,911,250, 11-3-59, Cl. 294—99.



- Lotarski, Stephen P., and F. R. Speight, to United Shoe Machinery Corp. Insole rib attaching machines. 2,898,614, 8-11-59, Cl. 12-20.
- Lothrop, John W.: *See*—  
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- Lothrop, John W., and C. O. Rolando, to Polaroid Corp. Photographic apparatus including fluid-spreading and sheet-arresting mechanism. 2,871,777, 2-3-59, Cl. 95-89.
- Lott, De Forest, and E. G. Hamway, to The General Tire & Rubber Co. Plastic upholstery material. 2,875,115, 2-24-59, Cl. 154-46.
- Lott, Harry C.: *See*—  
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- Lott, Jeremiah A.: *See*—  
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- Lott, William A.: *See*—  
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- Lotter, Adolph G., to Stationers Loose Leaf Co. Loose leaf binder. 2,886,039, 5-12-59, Cl. 129-8.
- Lottemoser, Manfred, to J. Croning (deceased); E. M. D. Croning, born Bornsen, sole heir of said J. Croning. Molding material for producing shell molds for casting purposes. 2,881,082, 4-7-59, Cl. 106-38.8.
- Lotvik, Lars G. W.: *See*—  
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- Lotz, Otto, to The Babcock & Wilcox Co. Fuel burning apparatus. 2,868,179, 1-13-59, Cl. 122-235.
- Lotz, Otto, to The Babcock & Wilcox Co. Cyclone furnaces. 2,881,720, 4-14-59, Cl. 110-28.
- Lotz, Rudolf, to Vereinigte Glanzstoff-Fabriken A. G. Preparation of p-xylene dihalides. 2,868,821, 1-13-59, Cl. 260-429.9.
- Lotz, Rudolf, and R. Gerlach, to Vereinigte Glanzstoff-Fabriken A. G. Process for the production of terephthalic acid dimethyl ester. 2,876,252, 3-3-59, Cl. 260-475.
- Loucks, Alton L., to Western Electric Co., Inc. Tube-forming apparatus. 2,908,314, 10-13-59, Cl. 153-1.
- Louden, Harry L., to General Electric Co. Wire feeding apparatus. 2,883,072, 4-21-59, Cl. 214-1.
- Louden Machinery Co., The: *See*—  
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- Louden, Russell L., Television aerial mast turner. 2,869,387, 1-20-59, Cl. 74-425.
- Loudon, Allen W.: *See*—  
Lauder, Ernie L., Frederick, and Loudon. 2,903,565.
- Lauder, Ernie L., Loudon, and Frederick. 2,903,566.
- Loudon, Donald C., to Bendix Aviation Corp. Electrical apparatus having means to control the supply of energy from a coil to a plurality of circuits. 2,881,587, 4-14-59, Cl. 60-39.14.
- Loudon, Norman G. W.: *See*—  
Flower, Stanley H., Parsons, and Loudon. 2,892,339.
- Loudon, Robert C. Binder for papers, pamphlets, catalogs and similar articles. 2,906,267, 9-29-59, Cl. 129-1.
- Loudon, Robert E., and V. G. Skare, to Clary Corp. Switching circuit. 2,877,387, 3-10-59, Cl. 315-240.
- Lougheed, Henry B.: *See*—  
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- Loughlin, Bernard D.: *See*—  
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- Loughlin, Bernard D., to Hazeltine Research, Inc. Color-image-reproducing apparatus. 2,877,295, 3-10-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Color or monochrome, image-reproducing apparatus. 2,885,464, 5-5-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Image-reproducing system for a color-television receiver. 2,885,465, 5-5-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Wave-signal modifying apparatus. 2,890,273, 6-9-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Luminance-signal component-conversion system. 2,892,021, 6-23-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Gamma-correction apparatus. 2,896,014, 7-21-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Five zone composite transistor with common zone grounded to prevent interaction. 2,898,454, 8-4-59, Cl. 250-20.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Screen structure for constant luminance color receiver. 2,905,749, 9-22-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Automatic index level control circuit. 2,905,752, 9-22-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Color-television transmitting system. 2,905,753, 9-22-59, Cl. 178-5.4.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Automatic-control systems for television receivers. 2,913,522, 11-17-59, Cl. 178-7.3.
- Loughlin, Bernard D., to Hazeltine Research, Inc. Detector system correcting for single sideband distortion. 2,914,606, 11-24-59, Cl. 178-5.4.
- Loughlin, John P. Disposable safety razor. 2,911,711, 11-10-59, Cl. 30-32.
- Loughlin, Robert W. Tension spring. 2,884,240, 4-28-59, Cl. 267-15.
- Loughman, William F. Process for coating metal. 2,888,391, 5-26-59, Cl. 204-143.
- Loughran, Robert T., and W. P. Burton, to The M. W. Kellogg Co. Reactivation of catalyst for use in the reforming of hydrocarbon oils. 2,867,579, 1-6-59, Cl. 208-136.
- Loughren, Arthur V., to Hazeltine Research, Inc. Color-balance control system. 2,877,293, 3-10-59, Cl. 178-5.4.
- Loughry, Theodore F., and R. M. Escott, to Surface Combustion Corp. Pebble heat exchange apparatus. 2,867,512, 1-6-59, Cl. 23-284.
- Loui, Phillip J.: *See*—  
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- Louik, Leonard, and L. F. Marks, to Bruce Molded Plastics, Inc. Luggage handles. 2,913,080, 11-17-59, Cl. 190-57.
- Louis, Arnold S.: *See*—  
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- Gottschall, Herbert A., Louis, and Guggenheim. 2,908,882.
- Louis, Arnold S., and H. S. Zablocki. Potentiometer wiper arm. 2,885,519, 5-5-59, Cl. 201-55.
- Louis, Claus, K. Sieber, and F.-K. Koch. Heading machine having an additional punch stroke effective at the forward position of the header slide. 2,867,823, 1-13-59, Cl. 10-12.
- Louis, Raymond M. R. G., and P. C. Foatelli. Receptacles. 2,907,052, 10-6-59, Cl. 4-187.
- Louis, Romeo, to Forges et Ateliers de Constructions Electriques de Jeumont. Casing and method of making same. 2,902,934, 9-8-59, Cl. 102-43.
- Louisville Cap Corp.: *See*—  
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- Lipschutz, Frank K., and Rosenberg. 2,877,466.
- Loukonen, Roy A. Draft hitches. 2,898,126, 8-4-59, Cl. 280-467.
- Loung, Pai Y., to Wah Chang Corp. Purification of tungstates. 2,893,832, 7-7-59, Cl. 23-51.
- Loung, Pai Y., to Wah Chang Corp. Purification of tungstates. 2,894,814, 7-14-59, Cl. 23-51.
- Lounsberry, Stephen M.: *See*—  
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- Lourdes Instrument Co.: *See*—  
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- Louthan, Cordelia V. Hair curling device. 2,874,705, 2-24-59, Cl. 132-41.
- Louthan, Rector P., to Phillips Petroleum Co. Organic thio-sulfenates and method of preparation. 2,913,475, 11-17-59, Cl. 260-456.
- Louthan, Rector P., and C. W. Kruse, to Phillips Petroleum Co. Organic sulfur halides, derivatives thereof, and preparation of such halides and derivatives. 2,886,593, 5-12-59, Cl. 260-543.
- Loutz, Roger, to Cutter Laboratories, Inc. Venoclysis apparatus. 2,886,035, 5-12-59, Cl. 288-272.
- Louzos, Demetrios V., to Union Carbide Corp. Solid electrolyte battery system. 2,894,053, 7-7-59, Cl. 136-87.
- Love, Allan W.: *See*—  
Brant, Arthur A., and Love. 2,874,348.
- Love, David A.: *See*—  
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- Smith, Kenneth A., and Love. 2,916,993.
- Love, Delbert B.: *See*—  
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- Love, Gordon W., and C. A. Pelizzari. Removable window sash and a spring-channel combination therefor. 2,870,494, 1-27-59, Cl. 20-52.2.
- Love, John, to K. A. C. Ltd. Toggle fasteners. 2,873,495, 2-17-59, Cl. 24-68.
- Love, John, to K.A.C. Ltd. Flexible couplings for pipes. 2,904,356, 9-15-59, Cl. 285-226.
- Love, John W., to United States of America, Air Force. Centering and mounting means for cathode ray tubes and the like. 2,900,631, 8-18-59, Cl. 340-367.
- Love, Joseph C. and M. M. Quickly attachable and detachable cultivator shovel. 2,908,340, 10-13-59, Cl. 172-762.
- Love, Kenneth T. A.: *See*—  
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- Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,698.
- Eisenberg, Irwin W., Dibble, Armstrong, Love, and Rhodes. 2,905,776.
- Love, Leslie G. Over center locking clamp. 2,896,293, 7-28-59, Cl. 24-249.
- Love, Martha M.: *See*—  
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- Love, Millard. Tire grooving machine having cam guided cutters capable of lateral movement in opposite directions. 2,891,605, 6-23-59, Cl. 157-13.
- Love, Paul M.: *See*—  
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- Love, Richard R. Road paving machine. 2,907,319, 10-6-59, Cl. 126-343.5.
- Love, Robert M.: *See*—  
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- Love, Robert M., to Esso Research and Engineering Co. Process for regenerating platinum catalyst in a reforming process. 2,870,085, 1-20-59, Cl. 208-140.
- Love, Russell B., 15% each to P. M. and W. B. Love. Credit card punching device. 2,906,335, 9-29-59, Cl. 164-114.
- Love, Wayne B.: *See*—  
Love, Russell B. 2,906,335.
- Lovecky, Albert J., to Bell Telephone Laboratories, Inc. Wire unwrapping and rewinding tool. 2,898,952, 8-11-59, Cl. 140-124.



- Loveday, Paul E., to Union Carbide Corp. Method and apparatus for maintaining efficiency of vacuum insulation. 2,900,800, 8-25-59, Cl. 62-45.
- Lovegrove, Henry J., to Daystrom, Inc. Hermetic sealing arrangements for electrical measuring instruments. 2,901,913, 9-1-59, Cl. 74-18.1.
- Lovegrove, John W., to United States of America, Navy. Anti-gust stop. 2,906,348, 9-29-59, Cl. 170-160.55.
- Lovejoy, Elwyn R.: *See*—  
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- Lovelace, Donald E.: *See*—  
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- Lovelace, Donald E., to Consolidated Electrodynamics Corp. Symmetrical transducer. 2,872,813, 2-10-59, Cl. 73-398.
- Lovelady, Isaac W., and S. P. Kroeker, to Sivalis Tanks, Inc. Separator apparatus. 2,882,994, 4-21-59, Cl. 183-2-7.
- Loveland, Roger S.: *See*—  
Currie, Courtland B., and Loveland. 2,868,457.
- Loveland, Roger S., and L. I. Wolfe, to Minneapolis-Honeywell Regulator Co. Thermostatic valve. 2,889,990, 6-9-59, Cl. 236-48.
- Lovelett, William C.: *See*—  
Homa, Stephen W., and Lovelett. 2,886,193.
- Loveley, Joseph D., to Chrysler Corp. Evaporator unit with condensate collecting means. 2,886,956, 5-19-59, Cl. 62-285.
- Lovell, Clarence A., to Bell Telephone Laboratories, Inc. Quarter square electric voltage multiplier. 2,906,459, 9-29-59, Cl. 235-194.
- Lovell, Clarence E., and C. J. Lewis, to American Metal Climax, Inc. Production of alkali metal nitrates from alkali metal chlorides. 2,916,353, 12-8-59, Cl. 23-102.
- Lovell, Jack, to Chicago Pneumatic Industries Inc. Tower raising mechanism. 2,887,191, 5-19-59, Cl. 189-15.
- Lovell, Jack, to Cleveland Pneumatic Industries, Inc. Steering mechanism for aircraft landing gear. 2,919,084, 12-29-59, Cl. 244-50.
- Lovell Mfg. Co.: *See*—  
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- Lovens kemiske Fabrik ved A. Kongsted: *See*—  
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- Jansen, Alexander B. A., and Hamlet. 2,880,203.
- Lovenston, Bessie B.: *See*—  
Lovenston, Hans J. 2,883,755.
- Lovenston, Hans J., deceased; B. B. Lovenston, executrix, to Hanlo Gage Co. Calibrating means for indicator gages. 2,883,755, 4-28-59, Cl. 33-172.
- Lover, Seth E.: *See*—  
McCarthy, Theodore M., and Lover. 2,897,709.
- Lover, Seth E., to Gibson, Inc. Magnetic pickup for stringed musical instrument. 2,896,491, 7-28-59, Cl. 84-1.15.
- Lowerde, Lawrence V., to Oak Mfg. Co. Vibrators. 2,906,836, 9-29-59, Cl. 200-90.
- Lovett, Richard E., to National Standard Co. Wire cloth. 2,891,584, 6-23-59, Cl. 139-425.
- Lovett, Richard R., Jr. Syphon bailer for boats. 2,870,785, 1-27-59, Cl. 137-560.
- Lovett, William E., and E. D. Nostrand, to Esso Research and Engineering Co. Motor fuel. 2,918,359, 12-22-59, Cl. 44-56.
- Lovich, Edward L. Plaster cast. 2,875,752, 3-3-59, Cl. 128-83.
- Lovick, Edward, Jr., to Lockheed Aircraft Corp. Traveling wave device. 2,880,417, 3-31-59, Cl. 343-731.
- Lovsted, C. M., & Co., Inc.: *See*—  
Oster, Harvey J. C., Jr. 2,895,624.
- Low, John A.: *See*—  
Howlett, Frank, Butler, and Low. 2,907,754.
- Low, Laszlo L., to Purex Corp., Ltd. Bleaching and disinfecting compositions. 2,897,154, 7-28-59, Cl. 252-99.
- Low, Paul H. Mobile log caddy. 2,896,961, 7-28-59, Cl. 280-47.26.
- Lowdermilk, Ford R.: *See*—  
Bell, Thomas R., III, and Lowdermilk. 2,874,769.
- Lowe, Arthur, J. A. Moysse, and A. M. Wooler, to Imperial Chemical Industries Ltd. Water-soluble organic nitrogen compounds. 2,897,162, 7-28-59, Cl. 260-2.
- Lowe, Carl H., to Diamond Gardner Corp. Egg handling equipment. 2,881,930, 4-14-59, Cl. 214-6.
- Lowe, Carol S.: *See*—  
Williams, Robert F., Jr., and Lowe. 2,899,315.
- Lowe, Charles S., to United States of America, Atomic Energy Commission. Separation by adsorption. 2,890,932, 6-16-59, Cl. 23-14.5.
- Lowe, Charles S., and W. H. McVey, to United States of America, Atomic Energy Commission. Rare earth-actinide separation by adsorption. 2,903,333, 9-8-59, Cl. 23-14.5.
- Lowe, Donald J., and F. F. Hillix, to Young Brothers Co. Take-up for conveyors. 2,883,037, 4-21-59, Cl. 198-208.
- Lowe, Earl R.: *See*—  
Smith, Gordon R. 2,870,686.
- Lowe, Edison, and E. L. Durkee, to United States of America, Agriculture. Apparatus for treating particulate material with gaseous media. 2,876,558, 3-10-59, Cl. 34-236.
- Lowe, Frank W.: *See*—  
Poindexter, Franklin E., and Lowe. 2,903,400.
- Lowe, Fred C. Collapsible cores for concrete pipe. 2,878,545, 3-24-59, Cl. 25-128.
- Lowe, Harold, to Borg-Warner Corp. Transmission. 2,888,834, 6-2-59, Cl. 74-472.
- Lowe, Harry N., Jr.: *See*—  
Hahl, Robert G., and Lowe. 2,883,240.
- Lowe, Helen M. Hair styling equipment. 2,874,704, 2-24-59, Cl. 132-34.
- Lowe, Helen M. Hair styling device. 2,903,001, 9-8-59, Cl. 132-39.
- Lowe, Herbert J. Rolling contact printing form locking device. 2,874,638, 2-24-59, Cl. 101-378.
- Lowe, Irma B. Tool for supporting and using window cleaning implements. 2,895,153, 7-21-59, Cl. 15-118.
- Lowe, Joe, Corp.: *See*—  
Ensler, Arthur S., and Friedman. 2,898,213.
- Friedman, Aaron, Lurie, and Dale. 2,907,160.
- Lowe, Robert E. Variable speed transmission. 2,897,691, 8-4-59, Cl. 74-757.
- Lowe, Roy E. Vehicle load handling construction. 2,892,556, 6-30-59, Cl. 214-83.24.
- Lowe, Russell T., and R. D. Cavanaugh, to Barry Controls Inc. Resilient support. 2,912,212, 11-10-59, Cl. 248-358.
- Lowe, Warren: *See*—  
Hotten, Bruce W., and Lowe. 2,868,728.
- Stewart, William T., Stuart, and Lowe. 2,892,786.
- Stewart, William T., Stuart, and Lowe. 2,892,788.
- Stewart, William T., Stuart, and Lowe. 2,892,792.
- Stewart, William T., Stuart, and Lowe. 2,892,821.
- Stewart, William T., Stuart, Lowe, and Kavanagh. 2,892,819.
- Stuart, Frank A., Stewart, and Lowe. 2,892,790.
- Stuart, Frank A., Stewart, Lowe, and Kavanagh. 2,892,783.
- Lowe, Warren, to California Research Corp. p-Xylylene-diamine salts of glycol boric acids. 2,883,412, 4-21-59, Cl. 260-462.
- Lowe, Warren, to California Research Corp. Ester-containing lubricant compositions. 2,898,299, 8-4-59, Cl. 252-46.6.
- Lowe, Warren, to California Research Corp. Process for preparing lubricant compositions and concentrates therefor. 2,900,339, 8-18-59, Cl. 252-33.4.
- Lowe, Warren, to California Research Corp. Lubricating oil composition. 2,902,450, 9-1-59, Cl. 252-336.
- Lowe, Warren, and R. A. Stayner, to California Research Corp. Compounded hydrocarbon fuels. 2,892,690, 6-30-59, Cl. 44-62.
- Lowe, Warren, W. T. Stewart, and F. A. Stuart, to California Research Corp. Lubricant composition. 2,892,791, 6-30-59, Cl. 252-56.
- Lowe, Warren, W. T. Stewart, F. A. Stuart, and F. W. Kavanagh, to California Research Corp. Detergent copolymers. 2,892,816, 6-30-59, Cl. 260-78.
- Lowe, Warren, W. T. Stewart, F. A. Stuart, and F. W. Kavanagh, to California Research Corp. Detergent copolymers. 2,892,818, 6-30-59, Cl. 260-78.5.
- Lowe, Wilbur D., and V. C. James. Steam bath and generator therefor. 2,902,580, 9-1-59, Cl. 219-40.
- Lowell Counter Co.: *See*—  
Herlihy, William F. 2,905,955.
- Lowell, Howard C., to Patton-MacGuyer Co. Wire termination device. 2,887,670, 5-19-59, Cl. 339-275.
- Lowell, Rudolph L. Adding device. 2,911,148, 11-3-59, Cl. 235-80.
- Lowen, Stanley. Container cap. 2,914,206, 11-24-59, Cl. 215-41.
- Lowen, Stanley. Pill or tablet dispenser. 2,918,167, 12-22-59, Cl. 206-42.
- Löwenborg, John G. F.: *See*—  
Ekström, Gösta I., and Löwenborg. 2,900,959.
- Lowenfeld, Rudolf: *See*—  
Kracker, Herbert, Bauer, Kirst, Lowenfeld, and Staab. 2,908,679.
- Lowenstein, Jos. H., & Sons, Inc.: *See*—  
Tucker, Harold H. 2,890,094.
- Lower, Willem E.: *See*—  
Ten Have, Cornelis D., Bunining, Le Nobel, Pieters, and Lower. 2,893,954.
- Lowerre, Ralph T., to United States Steel Corp. Rail bond and method of installing the same. 2,893,640, 7-7-59, Cl. 238-14.13.
- Lowery, Fred, Hook attachment for hoists. 2,907,600, 10-6-59, Cl. 294-83.
- Lowery, Fred, and J. D. Phillips. Emergency braking system for vehicles. 2,900,053, 8-18-59, Cl. 188-106.
- Lowery, James A.: *See*—  
Thomas, Samuel O., Lowery, and Singleton. 2,914,525.
- Lowery, James C.: *See*—  
Cooper, Jacob L., Daniel, and Lowery. 2,913,784.
- Lowery, John M., to Radio Corp. of America. Tube tester. 2,873,424, 2-10-59, Cl. 324-26.
- Lowey, Francis J., to American Brake Shoe Co. Press for powdered metals. 2,913,764, 11-24-59, Cl. 18-16.5.
- Lowman, Malden C., Jr., and E. J. Fisch, to Shell Development Co. Recovery of oil from tar sands. 2,871,180, 1-27-59, Cl. 208-11.
- Lowman, Robert K. Weight distributor for detachable trailer hitch. 2,918,308, 12-22-59, Cl. 280-406.
- Lowndes, Wilbur J.: *See*—  
Hunt, Reed O., Erickson, and Lowndes. 2,884,147.
- Lownsbey, John G. Holders for cans for garbage, trash, refuse, etc. 2,905,333, 9-22-59, Cl. 211-83.
- Lowrey Organ Co., The: *See*—  
Erickson, Norman B. 2,881,293.



- Lowrie, Robert J. Surgical staple and stapler. 2,881,762, 4-14-59, Cl. 128—337.
- Lowry, Charles P.: *See*—  
Cox, Russell E., and Lowry. 2,905,378.
- Lowry, Edgar A., to Thompson Ramo Wooldridge Inc. Magnetic recorder mechanism. 2,912,514, 11-10-59, Cl. 179—100.2.
- Lowry, Lewis R., Jr.: *See*—  
Reeder, James R., Schuh, and Lowry. 2,885,568.  
Schuh, Niles F., Reeder, Lowry, and Hulsey. 2,885,569.
- Lowry, Lewis R., Jr., and G. W. Ernberger, to Westinghouse Electric Corp. Electrical generator control apparatus. 2,896,149, 7-21-59, Cl. 322—28.
- Lowther, Wilfred W., to Industrial Enterprises, Inc. Rectangular cleaners. 2,902,112, 9-1-59, Cl. 183—15.
- Loyd, Robert J.: *See*—  
Karasek, Francis W., and Loyd. 2,879,140.
- Lox, Walter E., to Forman, Ford & Co. Rubber-reactive pigment and drying oil protective coating compositions. 2,901,447, 8-25-59, Cl. 260—3.
- Loxham, John, to The Sigma Instrument Co. Ltd. Mechanical guiding devices. 2,894,741, 7-14-59, Cl. 267—1.
- Loy, Alvin L., Sr.: *See*—  
Warrick, Leon H., and Loy. 2,901,180.
- Loy, Fred W., to General Motors Corp. Method of assembling laminated stators. 2,910,767, 11-3-59, Cl. 29—155.61.
- Loyen, Roger: *See*—  
Hanlet, Jacques M. N., Heinisch, and Loyen. 2,919,402.
- Lozeau, Homer A., to Koehler Mfg. Co. Battery charging apparatus. 2,898,539, 8-4-59, Cl. 320—32.
- Lozensky, Charles A. Ratchet wrench. 2,891,434, 6-23-59, Cl. 81—60.
- Lozier, Gerald S., R. Glicksman, and C. K. Morehouse, to Radio Corp. of America. Primary cells. 2,874,079, 2-17-59, Cl. 136—137.
- Lozon, Alfred W. Arrow fetching fixture. 2,869,597, 1-20-59, Cl. 144—289.
- Lubach, William F.: *See*—  
Kroekel, Rolf H. W., and Lubach. 2,883,213.
- Lubelle, Jack G.: *See*—  
Mullen, Melvin Z. 2,869,286.
- Luber-Finer Inc.: *See*—  
Russell, John K., and Boggs. 2,878,016.
- Luberoff, Benjamin J.: *See*—  
Smolin, Edwin M., and Luberoff. 2,882,299.
- Luberoff, Benjamin J., to American Cyanamid Co. Preparation of acrylic acid esters. 2,882,297, 4-14-59, Cl. 260—486.
- Luberoff, Benjamin J., to American Cyanamid Co. Preparation of acrylic acid esters. 2,882,298, 4-14-59, Cl. 260—486.
- Lubersky, Albert R., and W. H. Wilcox, to Fibreboard Paper Products Corp. Machine for setting up cartons. 2,887,022, 5-19-59, Cl. 93—53.
- Lubig, Richard. Process of making bread-like baked goods. 2,883,285, 4-21-59, Cl. 99—90.
- Lubin, Bernard L., and G. Burnet, Jr., to Commercial Solvents Corp. Process for reducing moisture content of ammonium nitrate. 2,884,999, 5-5-59, Cl. 159—47.
- Lubin, Samuel, to Sprague Electric Co. Remote monitoring amplification. 2,901,634, 8-25-59, Cl. 250—253.
- Lubkin, Samuel, to Underwood Corp. Binary serial comparator. 2,889,534, 6-2-59, Cl. 340—149.
- Lubkin, Samuel, to Underwood Corp. Frequency divider. 2,892,934, 6-30-59, Cl. 250—27.
- Lubkin, Samuel, to Underwood Corp. Comparator. 2,905,931, 9-22-59, Cl. 340—174.
- Lubkin, Samuel, to Underwood Corp. Serial binary coded decimal pulse train comparator. 2,910,667, 10-27-59, Cl. 340—149.
- Lubkin, Samuel, and E. Leonard, to Underwood Corp. Signal generator. 2,889,548, 6-2-59, Cl. 340—345.
- Luboshez, Sergius N. F. Combined heat reflector and light transmitter structure. 2,874,611, 2-24-59, Cl. 88—60.
- Luboshez, Sergius N. F. Thermal insulator. 2,874,612, 2-24-59, Cl. 88—60.
- Luboshez, Sergius N. F. Process for bending plastic sheet material. 2,892,217, 6-30-59, Cl. 18—56.
- Lubow, Raymond. Delay apparatus. 2,892,898, 6-30-59, Cl. 179—100.1.
- Lubowitz, Hyman R.: *See*—  
Brown, Glenn H., Dreyer, Lubowitz, and Middendorf. 2,915,943.  
Greenberg, Harry, and Lubowitz. 2,894,982.
- Lubowitz, Hyman R., and H. Greenberg, to National Distillers and Chemical Corp. Preparation of alkoxysuccinic acid esters. 2,894,980, 7-14-59, Cl. 260—484.
- Lubrizol Corp., The: *See*—  
Asseff, Peter A. 2,895,983.  
Craig, Willis G., and Miller. 2,881,200.  
Goldsmith, Fred C. 2,905,683.  
Le Suer, William M. 2,915,517.  
Miller, Clark O. 2,900,378.  
Vogel, Paul W., and Meinhardt. 2,900,406.
- Lubszynski, Hans G., to Electric & Musical Industries Ltd. Electron discharge devices employing photoconductive target electrodes. 2,905,843, 9-22-59, Cl. 313—65.
- Lubszynski, Hans G., to Electric & Musical Industries Ltd. Cathode ray tubes for colour television. 2,912,615, 11-10-59, Cl. 315—12.
- Lubszynski, Hans G., and J. Wardley, to Electric & Musical Industries Ltd. Formation of layers of photo-conductive materials. 2,900,280, 8-18-59, Cl. 117—215.
- Lubszynski, Hans G., E. F. McGill, and S. Taylor, to Electric & Musical Industries Ltd. Light sensitive devices. 2,910,602, 10-27-59, Cl. 313—65.
- Lucanera, Constantino, and H. Avery, to International Telephone and Telegraph Corp. Omnidirectional beacon antenna. 2,912,693, 11-10-59, Cl. 343—761.
- Lucarelli, Frank J. Highway guard. 2,902,669, 9-1-59, Cl. 340—22.
- Lucas, Alfred R., to North Electric Co. Telephone ringer and the like. 2,872,672, 2-3-59, Cl. 340—392.
- Lucas, Alfred R., to North Electric Co. Volume control unit for telephone ringer. 2,886,808, 5-12-59, Cl. 340—397.
- Lucas, Charles D. Wheel-supported advertising signs. 2,869,262, 1-20-59, Cl. 40—129.
- Lucas, Don D. Portable barbecue. 2,912,973, 11-17-59, Cl. 126—30.
- Lucas, George R. Arm rest. 2,877,049, 3-10-59, Cl. 296—49.2.
- Lucas, Ike F., to Burlington Industries, Inc. Bobbin. 2,904,283, 9-15-59, Cl. 242—125.
- Lucas, John A., to The Prime Mfg. Co. Adapter for sand trap. 2,914,351, 11-24-59, Cl. 291—11.
- Lucas, John G. Combination fish hook and bait holder. 2,896,360, 7-28-59, Cl. 43—44.2.
- Lucas, John H.: *See*—  
Simmonds, Wayne W. 2,867,338.  
Simmonds, Wayne W. 2,903,948.  
Simmonds, Wayne W. 2,903,949.  
Simmonds, Wayne W. and A. J. 2,867,411.
- Lucas, John H., and K. L. Smith, to Powers-Samas Accounting Machines Ltd. Electric storage and data routing apparatus. 2,900,572, 8-18-59, Cl. 315—84.5.
- Lucas, John W., to Yuba Consolidated Industries, Inc. Three o'clock welding apparatus. 2,916,605, 12-8-59, Cl. 219—126.
- Lucas, Joseph E. Fabricated gate valve and method of making the same. 2,868,495, 1-13-59, Cl. 251—86.
- Lucas, Joseph (Industries) Ltd.: *See*—  
Bottoms, Charles H. 2,903,852.  
Clarke, John S., and Collinson. 2,867,982.  
Clarke, John S., and Jackson. 2,872,971.  
Downing, Eric W. 2,877,933.  
Downing, Eric W. 2,883,088.  
Downing, Eric W., and Duddell. 2,891,701.  
Freeman, Frank G. 2,904,066.  
Hudson, Geoffrey J., and Gregory. 2,882,681.  
Lawrence, Owen N. 2,872,784.  
Prickett, Alfred D. 2,911,497.  
Watkins, Sidney C. 2,878,065.
- Lucas, Kenneth E.: *See*—  
Folkins, Hillis O., and Lucas. 2,903,413.
- Lucas, Robert A., to Ciba Pharmaceutical Products, Inc. Esters of reserpic acid. 2,867,622, 1-6-59, Cl. 260—287.
- Lucas-Rotax Ltd.: *See*—  
Kitchen, John A. 2,916,032.  
Kitchen, John A., and Denham. 2,898,978.
- Lucas, Rupert G. Gauge for piston ring grooves. 2,901,829, 9-1-59, Cl. 33—168.
- Lucas, William H.: *See*—  
Page, Donald J., and Lucas. 2,906,069.
- Lucasey, James F.: *See*—  
Hull, Maurice E., Lucasey, and Hoback. 2,897,083.
- Lucchesi, Luciano. Mechanically operated violin bow and the like. 2,917,963, 12-22-59, Cl. 84—282.
- Luce, Stewart B., to Swift & Co. Method of copolymerizing acrylic or methacrylic acid with proteinaceous material and product obtained. 2,868,740, 1-13-59, Cl. 260—8.
- Luce, Yves. Liquid metering apparatus. 2,869,757, 1-20-59, Cl. 222—14.
- Luchsinger, Ernst G. L., to Pallz-Holding A.G. Hand knitting apparatus. 2,881,605, 4-14-59, Cl. 66—60.
- Luchtenberg, Alex., to J. P. Bemberg Akt. Process for the production of cellulose sheets. 2,880,465, 4-7-59, Cl. 18—57.
- Lucia, Carroll J.: *See*—  
McFarland, Forest R., and Lucia. 2,889,844.
- Lucian, Arsene N., and W. A. Hilliard, to Longines-Wittnauer Watch Co. Inc. Electric watch movement. 2,909,892, 10-27-59, Cl. 58—28.
- Lucien, Rene, to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M. Vibration damper. 2,875,861, 3-3-59, Cl. 188—88.
- Lucien, René, to Societe a responsabilite limitee: Recherches Etudes Production R.C.P. Anti-rolling system for automobile vehicles and the like. 2,880,014, 3-31-59, Cl. 280—112.
- Lucien, René, to Societe a Responsabilite Limitee Recherches-Etudes-Production R.E.P. Electro-valve distributor. 2,887,125, 5-19-59, Cl. 137—623.
- Lucien, Rene, to Societe a responsabilite limitee: Recherches Etudes Production R.E.P. Electro-magnetically controlled hydraulic distributor. 2,905,195, 9-22-59, Cl. 137—623.
- Lucien, René, to Societe a responsabilite limitee Recherches Etudes Production R.E.P. Self regulating pump. 2,918,012, 12-22-59, Cl. 103—37.



- Lucien, René, and J.-P. M. Legros, to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M. Anti-skid mechanism for master cylinder operated brake. 2,868,338, 1-13-59, Cl. 188—181.
- Lucien, René, and E. Tefart. Magnesium alloys. 2,882,145, 4-14-59, Cl. 75—168.
- Luck, David G. C., to Radio Corp. of America. System of communication employing pictorial display and time multiplexing. 2,919,303, 12-29-59, Cl. 178—5-6.
- Luck, Ronald E.: *See—*  
Villiers, Joseph B., Jr., and Luck. 2,897,669.
- Lücke, Josef: *See—*  
Lödige, Wilhelm and F., and Lücke. 2,892,443.  
Lödige, Wilhelm and F., and Lucke. 2,915,354.
- Luckenbach, Edward C.: *See—*  
Upchurch, Edward F., and Luckenbach. 2,876,079.
- Luckenbach, Edward C., W. J. Metralier, and C. E. Hemminger, to Esso Research and Engineering Co. Hydrocarbon conversion system. 2,874,112, 2-17-59, Cl. 208—48.
- Luckenbaugh, Raymond W., to E. I. du Pont de Nemours and Co. Herbicidal method and composition employing substituted phenyl carabanic acids. 2,895,817, 7-21-59, Cl. 71—2-5.
- Luckenbaugh, Raymond W., to E. I. du Pont de Nemours and Co. Certain 2-phenylimino, 3-alkyl oxazolidines, compositions and methods of use as herbicides. 2,902,356, 9-1-59, Cl. 71—2-5.
- Lucker, Millard B., to Lambert Brake Corp. Wedge-operated disc brake. 2,833,008, 4-21-59, Cl. 188—72.
- Lucker, Millard B., and R. R. Zindler, to Lambert Brake Corp. Self-adjusting disc brake and annular piston-type operating means therefor. 2,889,894, 6-9-59, Cl. 188—72.
- Luckett, Embry L. Portable livestock loading chute. 2,869,513, 1-20-59, Cl. 119—82.
- Luckhardt, Johannes, deceased; W. J. F. Luckhardt, sole heir of said Luckhardt, to N. P. Martin, and O. L. Walter, trustees of Kappa Trust. Reclining article of repose for supporting the body of a person. 2,870,621, 1-27-59, Cl. 155—106.
- Luckhardt, Johannes, deceased; W. Luckhardt, administrator, to A. Lorenz. Article of repose for supporting the body of a person. 2,870,822, 1-27-59, Cl. 155—106.
- Luckhardt, Wassili: *See—*  
Luckhardt, Johannes. 2,870,821.  
Luckhardt, Johannes. 2,870,822.
- Luckock, Mary R.: *See—*  
Luckock, Vernon O. and M. R. 2,874,734.
- Luckock, Vernon O. and M. R., 1/10 to Gadget-Of-The-Month Club, Inc. Automatic container-filler device. 2,874,734, 2-24-59, Cl. 141—87.
- Lucks, Gustav E. Valve construction. 2,868,219, 1-13-59, Cl. 137—197.
- Luczek, Walter: *See—*  
Pepitone, Vincent, and Luczek. 2,911,777.
- Luczek, Walter, and C. B. Cross, to Package Machinery Co. Tucking mechanism for wrapping machines. 2,911,779, 11-10-59, Cl. 53—378.
- Ludbrook, Leslie C., to The British Thomson-Houston Co. Ltd. Remote angular position control system. 2,901,681, 8-25-59, Cl. 318—30.
- Luddecke, Rudl. Automatically closable valve for a container having a fluid under pressure therein. 2,912,144, 11-10-59, Cl. 222—394.
- Ludeke, Carl A., and L. A. Petrov, to National Distillers and Chemical Corp. Tray supports and columns containing same. 2,908,489, 10-13-59, Cl. 261—113.
- Lüder, Günther: *See—*  
Hess, Hans, and Lüder. 2,919,006.
- Ludewig, Hermann, to VEB Thüringisches Kunstfaserwerk "Wilhelm Pieck" Schwarz. Process for the elimination of the unconverted polymer-forming monomers from synthetic linear polyamides. 2,887,805, 1-6-59, Cl. 260—78.
- Ludi & Cie. Metallwarenfabriken. Flawil: *See—*  
Bruggmann, Albert. 2,872,064.
- Ludman, Walter W., and T. Sowirka, to Philco Corp. Testing apparatus. 2,918,648, 12-22-59, Cl. 339—150.
- Ludowici, Johann W. Apparatus for transporting a stack of articles into and out of a processing chamber. 2,908,524, 10-13-59, Cl. 294—63.
- Luduenä, Froilan P., to Sterling Drug Inc. Parenteral composition to reduce duration of local anesthesia. 2,919,228, 12-29-59, Cl. 167—65.
- Ludvigsen, Carl W., to Cutler-Hammer, Inc. Instruments for measuring electrical resistance. 2,884,594, 4-28-59, Cl. 324—62.
- Ludvigsen, Leonard E., to Librascope, Inc. Potentiometer coil winding machine. 2,914,262, 11-24-59, Cl. 242—9.
- Ludvigson, Merrill T., to Collins Radio Co. Automatic antenna coupler. 2,910,655, 10-27-59, Cl. 333—17.
- Ludwig, Bernard J.: *See—*  
Berger, Frank M., and Ludwig. 2,878,280.  
Berger, Frank M., and Ludwig. 2,884,444.
- Ludwig, Carl, C. H. Wheeler, and A. R. Deedman, to Ex-Cell-O Corp. Hydraulic motor with wide vane and duplicate exhaust ports and special seals. 2,902,009, 9-1-59, Cl. 121—97.
- Ludwig, Ernst, to Brown, Boveri & Cie. Akt. Control system for regulation of direct current machines with rectifiers in armature and exciter circuits. 2,870,390, 1-20-59, Cl. 318—327.
- Ludwig, John R., to Dana Corp. Tractor take-off clutch. 2,899,897, 8-18-59, Cl. 192—48.
- Ludwig, Leon R.: *See—*  
Cumming, James M., and Ludwig. 2,900,509.
- Ludwig, Leon R. and R. C. Bergvall, to United States of America, Atomic Energy Commission. Calutron. 2,901,618, 8-25-59, Cl. 250—41-9.
- Ludwig, Louis. Outlet winker. 2,894,098, 7-7-59, Cl. 200—115-5.
- Ludwig, Milton: *See—*  
Cunningham, John R., and Ludwig. 2,907,644.
- Ludwig, Milton, to Standard Oil Co. of California. Method for recovering asphaltic materials from aqueous mixtures. 2,919,239, 12-29-59, Cl. 208—39.
- Ludwig, Walter D. Hand valve. 2,872,944, 2-10-59, Cl. 137—625-47.
- Luebke, Emmeth A.: *See—*  
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- Luebke, Emmeth A., and L. B. Vandenburg, to United States of America, Atomic Energy Commission. Neutronic reactor producing thermoelectric power. 2,902,423, 9-1-59, Cl. 204—193-2.
- Luebke, George C. Drafting devices. 2,883,754, 4-28-59, Cl. 33—104.
- Lueck, Irving B., and M. Friedman, to Bausch & Lomb Optical Co. Method and apparatus for toughening lenses. 2,886,921, 5-19-59, Cl. 49—45.
- Lueders, Oscar W. Socket adapter arrangement. 2,875,278, 2-24-59, Cl. 179—1.
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- Luehrs, Hans J., to The Cottrell Co. Gripper assemblies. 2,906,204, 9-29-59, Cl. 101—409.
- Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Lubrication system. 2,902,323, 9-1-59, Cl. 308—187.
- Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Dynamoelectric machinery having a supplemental saturable core rotor. 2,912,631, 11-10-59, Cl. 318—232.
- Luenberger, Frederick O., to U.S. Electrical Motors, Inc. Dynamoelectric machine provided with sealing means, and process for making same. 2,919,359, 12-29-59, Cl. 310—86.
- Luetzelschwab, Edgar J.: *See—*  
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- Lufcy, Carroll W. Magnetic transducer head for tape recording, playback and erasing. 2,912,515, 11-10-59, Cl. 179—100-2.
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- Lufkin, Paul M., and D. E. Stubbins, to Radio Corp. of America. Cathode ray tube deflection and high voltage apparatus. 2,872,615, 2-3-59, Cl. 315—27.
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- Luftig, Sanford B., to Hughes Aircraft Co. Logarithmic amplifier. 2,879,385, 3-24-59, Cl. 250—27.
- Lufttechnischen Gesellschaft m. b. H.: *See—*  
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- Luger, Norbert J. Collapsible pontoon boat. 2,876,728, 3-10-59, Cl. 114—61.
- Lugli, Giuseppe, to Pirelli Società per Azioni. Pneumatic vehicle wheel tires. 2,874,742, 2-24-59, Cl. 152—176.
- Lugli, Giuseppe, to Pirelli S.p.A. Pneumatic tire. 2,895,525, 7-21-59, Cl. 152—354.
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- Lufjckx, Willem L. M., and N. G. Kramer, to Shell Development Co. Preparation of aldrin. 2,917,552, 12-15-59, Cl. 260—648.
- Luikart, Ralph, II: *See—*  
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- Lukacs, George: *See—*  
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- Lukas, Alex: *See—*  
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- Luke, Oren V., Jr., G. B. Ulvild, and J. S. MacKenzie, to Celanese Corp. of America. Purification of acetic acid by azeotropic distillation. 2,893,923, 7-7-59, Cl. 202—42.
- Lukens, C. Dewitt, Surgical Mfg. Co., The: *See—*  
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- Lukens, Frederick E., to Spring Packing Corp. Box lubricator pad for journals in railway cars. 2,915,343, 12-1-59, Cl. 308—88.
- Lukens Steel Co.: *See—*  
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- Lukk, Georges G., C. H. Caesar, and S. Inyckyj, to Esso Research and Engineering Co. Process for sweetening naphthas. 2,908,637, 10-13-59, Cl. 208—203.



- Lukoff, Herman, to Sperry Rand Corp. Light indicator for electrical signals. 2,891,242, 6-16-59, Cl. 340-366.
- Lukman, John C.: See—  
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- Lulay, Arthur: See—  
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- Lum, David W., and I. L. Mador, to National Distillers and Chemical Corp. Preparation of N-substituted hydrazine derivatives. 2,917,545, 12-15-59, Cl. 260-583.
- Lum, Funston G.: See—  
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- Lum, Walter O., to Arthur C. Homeyer. Valves. 2,868,223, 1-13-59, Cl. 137-454.6.
- Lumber Fabricators, Inc.: See—  
Odegard, John C., and Grobort. 2,872,714.
- Luminous Ceilings, Inc.: See—  
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- Lummus Co., The: See—  
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- Lummus Cotton Gin Co.: See—  
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- Luna, Kenneth E.: See—  
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- Luna, William T. Extension attachment for vehicle jacks. 2,882,012, 4-14-59, Cl. 254-133.
- Lund, Alvin O., and M. Fink, to Westinghouse Electric Corp. Load measuring device for elevator systems. 2,886,137, 5-12-59, Cl. 187-29.
- Lund, Arthur W. Combined ladder and scaffold sling support. 2,908,345, 10-13-59, Cl. 182-214.
- Lund, Axel P. Collapsible raft. 2,876,467, 3-10-59, Cl. 9-11.
- Lund, Edward J. Display easel. 2,880,534, 4-7-59, Cl. 40-124.1.
- Lund, Harold S., to A. O. Smith Corp. Automatic safety control for automatic machinery. 2,912,565, 11-10-59, Cl. 219-124.
- Lund, Jack: See—  
Cooper, Bruce L., and Lund. 2,878,339.
- Lund, Lyle W.: See—  
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- Lund, Theodore J.: See—  
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- Lundahl, Arthur C.: See—  
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- Lundahl, Carl S., to Allmanna Svenska Elektriska Aktiebolaget. Method for joining electrodes. 2,914,654, 11-24-59, Cl. 219-136.
- Lundahl, Ossian: See—  
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- Lundberg, Bonnie. Hanger for drawings. 2,913,123, 11-17-59, Cl. 211-48.
- Lundberg, Hans T. F., R. W. Pringle, K. I. Roulston, and G. M. Brownell. Aerial geophysical exploration with scintillation spectrometer. 2,897,368, 7-28-59, Cl. 250-71.
- Lundborg, Carl J., to Anaconda Aluminum Co. Measuring means for the bath resistance of aluminum reduction cells. 2,918,421, 12-22-59, Cl. 204-225.
- Lundborg, Gustav L. Water ski pole. 2,893,021, 7-7-59, Cl. 9-24.
- Lundburg, Frank J.: See—  
De Rosa, Louis A., Masonson, and Lundburg. 2,915,750.
- Lundburg, Frank J., to International Telephone and Telegraph Corp. Radio frequency delay line. 2,916,615, 12-8-59, Cl. 250-15.
- Lunde, Earl N. Picking and grappling device. 2,905,498, 9-22-59, Cl. 294-19.
- Lunde, Einar, and W. T. Nichols, to The Trane Co. Centrifugal blower wheel. 2,884,187, 4-28-59, Cl. 230-134.
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- Lunde, Einar O., to Magor Car Corp. Door operating motor means for gable bottom cars. 2,893,327, 7-7-59, Cl. 105-240.
- Lunde, Kenneth E., to Dohrmann Hotel Supply Co. Grease extracting ventilator for kitchen ranges. 2,889,007, 6-2-59, Cl. 183-37.
- Lundeberg, Edgar C. Typewriter ribbon shield. 2,884,112, 4-28-59, Cl. 197-170.
- Lundeen, Chester A., to Borg-Warner Corp. Jerk and safety line retaining means for tongs. 2,875,657, 3-3-59, Cl. 81-53.
- Lundeen, Gottfred M. Cleaning and scouring device. 2,909,799, 10-27-59, Cl. 15-164.
- Lundeen, Stanley A. Automatic water softening system. 2,902,155, 9-1-59, Cl. 210-105.
- Lundell, Vernon J. Rotary row crop chopper. 2,880,561, 4-7-59, Cl. 56-16.
- Lundell, Vernon J. Corn chopper. 2,888,795, 6-2-59, Cl. 56-23.
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- Lunden, Olof B., and K. G. Wensman, to Stora Kopparbergs Bergslags Aktiebolag. Device for distillation. 2,880,145, 3-31-59, Cl. 202-158.
- Lunden, Robert K. Baby nursing and feeding bottle. 2,907,485, 10-6-59, Cl. 215-11.
- Lundgaard, Melvin O. Seed planter check correcting mechanism. 2,910,023, 10-27-59, Cl. 111-16.
- Lundgren, Axel G. Suspending folders. 2,889,832, 6-9-59, Cl. 129-16.7.
- Lundgren, Bruce H., and M. M. Hann, to Sundstrand Machine Tool Co. Porting arrangement for hydraulic pumps and motors. 2,896,546, 7-28-59, Cl. 103-162.
- Lundgren, Charlie N. Suspension bridging structure. 2,914,816, 12-1-59, Cl. 20-9.
- Lundgren, Claes E. G.: See—  
Arborelius, Mäns M., and Lundgren. 2,896,616.
- Lundgren, Harold P.: See—  
Moore, Joseph E., and Lundgren. 2,888,315.
- Lundgren, Herbert K. Window sash mounting. 2,879,559, 3-31-59, Cl. 20-52.2.
- Lundgren, Herbert K. Balance spring construction for window sash. 2,890,502, 6-16-59, Cl. 20-52.
- Lundgren, Herbert K. Window construction. 2,907,079, 10-6-59, Cl. 20-52.2.
- Lundgren, John L., to Geo. D. Roper Corp. Electric ignition system for the oven or broiler burner on a gas stove. 2,870,835, 1-27-59, Cl. 161-9.
- Lundgren, Robert H. Ladder attachment. 2,870,948, 1-27-59, Cl. 228-60.
- Lundhal, Sven: See—  
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- Lundholm, Josef E. Magnetic door latch. 2,894,778, 7-14-59, Cl. 292-251.5.
- Lundin, Sven O., to Aktiebolaget Melka. Folded shirt securing means. 2,889,971, 6-9-59, Cl. 223-71.
- Lundmark, Johan F. S.: See—  
Danielssen, Karl E. H., and Lundmark. 2,885,145.
- Lundquist, Birger H., and R. E. Fentner. Dental pattern. 2,889,598, 6-9-59, Cl. 22-164.
- Lundquist, Bror A. Device for dissolving and mixing soluble solid fertilizers in flowing water. 2,869,926, 1-20-59, Cl. 299-84.
- Lundquist, Richard C., to Goodman Mfg. Co. Pusher plate means for boring type mining machine. 2,868,529, 1-13-59, 262-7.
- Lundquist, Robert H.: See—  
Sherwood, Robert C., and Lundquist. 2,872,364.
- Lundquist, Sven A.: See—  
Carlén, Sölve, and Lundquist. 2,897,107.
- Lundqvist, Harald O. Wall shelving. 2,919,033, 12-29-59, Cl. 211-147.
- Lundry, Walter R., to Bell Telephone Laboratories, Inc. Transmission regulation. 2,876,283, 3-3-59, Cl. 179-15.
- Lundsager, Christian B., to E. I. du Pont de Nemours and Co. Orientation of polyethylene terephthalate film. 2,899,713, 8-18-59, Cl. 18-56.
- Lundstedt, Margit E. Collapsible cabin. 2,894,290, 7-14-59, Cl. 20-2.
- Lundstrom, Alexis A., to Bell Telephone Laboratories, Inc. Zero direct current sweep circuit. 2,886,701, 5-12-59, Cl. 250-27.
- Lundvall, Dan B. H., to Telefonaktiebolaget L. M. Ericsson. Device for signal receivers. 2,883,464, 4-21-59, Cl. 179-15.5.
- Lundy, Alvin S., R. P. Hartup, and N. J. Panzica, to Claude B. Schneible Co., Inc. Air treating system. 2,886,298, 5-12-59, Cl. 261-14.
- Lundy, Arthur J., to Short Brothers & Harland Ltd. Stands. 2,890,850, 6-16-59, Cl. 248-166.
- Lundy, Rodney B., and H. R. Miller, to John W. Bolton & Sons, Inc. Adjustable port valve. 2,917,069, 12-15-59, Cl. 137-240.
- Lundy, Warren J., and K. I. Swan, to United States Rubber Co. Screen conveyor. 2,880,848, 4-7-59, Cl. 198-131.
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- Lung, Kenneth R., to The Tait Mfg. Co. Pump. 2,867,173, 1-6-59, Cl. 103-87.
- Lung, Kenneth R., to The Tait Mfg. Co. Pumps. 2,885,964, 5-12-59, Cl. 103-87.
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- Lung, Kenneth R., to The Tait Mfg. Co. Pressure differential responsive snap-acting control for pumps and the like. 2,919,321, 12-29-59, Cl. 200-83.
- Lung, Kenneth R., to The Tait Mfg. Co. Electric motor construction. 2,919,357, 12-29-59, Cl. 310-42.
- Luning, George A., and L. A. Wilson, to International Business Machines Corp. Card feeding means. 2,877,017, 3-10-59, Cl. 271-44.
- Lunkenheimer, Carl J.: See—  
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- Lunn, Clarence R., to General Motors Corp. Carburetor float mechanism. 2,873,957, 2-17-59, Cl. 261-69.
- Lunn, Clarence R., to General Motors Corp. Carbureting system. 2,881,746, 4-14-59, Cl. 123-127.
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- Lunn, Richard T., to A.C.E. Machinery Ltd. Power-operated mobile hoists. 2,905,272, 9-22-59, Cl. 187-11.
- Lunsford, Carl D., to A. H. Robins Co., Inc. Substituted amino alcohols. 2,878,264, 3-17-59, Cl. 260-326.5.
- Lunsford, Carl D., to A. H. Robins Co., Inc. Certain esters of amino alcohols. 2,882,276, 4-14-59, Cl. 260-326.3.
- Lunsford, Carl D., to A. H. Robins Co., Inc. Method of production of 5-o-methoxyphenoxymethyl-2-oxazolidone. 2,895,960, 7-21-59, Cl. 260-307.
- Lunsford, Charles L.: *See*—  
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- Lunsford, Clyde H. Retractable emergency light. 2,918,566, 12-22-59, Cl. 240-7.1.
- Lunzer, Frederic A., to DeJury-Amsco Corp. Motion picture film drive. 2,893,287, 7-7-59, Cl. 88-18.4.
- Luoma, Aarne A., and J. G. Williams, to Worthington Corp. Pressure responsive valve. 2,890,014, 6-9-59, Cl. 251-14.
- Lupear Product, Inc.: *See*—  
Bunting, Arthur R. 2,887,911.
- Lupfer, Dale E., to Phillips Petroleum Co. Pneumatic telemetering apparatus. 2,890,707, 6-16-59, Cl. 137-86.
- Lupfer, Dale E., and E. A. Houser, to Phillips Petroleum Co. Gas analyzer. 2,880,073, 3-31-59, Cl. 23-254.
- Lupfer, Dale E., and D. M. Vesper, to Phillips Petroleum Co. Automatic time-temperature curve apparatus. 2,885,885, 5-12-59, Cl. 73-17.
- Lupfer, Dale E., and E. D. Tolin, to Phillips Petroleum Co. Multistream analyzer with stream switching apparatus. 2,890,617, 6-16-59, Cl. 88-14.
- Lupo, Fritz J., to Feedmatic Inc. Rotary device and torque transmission means therefor. 2,889,075, 6-2-59, Cl. 221-182.
- Lurgi Gesellschaft für Chemie und Huttenwesen m.b.H.: *See*—  
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- Lurgi Gesellschaft für Warmetechnik m. b. H.: *See*—  
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- Lurie, Benjamin L. Air filter. 2,877,863, 3-17-59, Cl. 183-49.
- Lurie, Daniel: *See*—  
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- Lurie, David, to American Cyanamid Co. Alum containing antioxidant and manufacture of sized paper therewith. 2,875,045, 2-24-59, Cl. 92-21.
- Lurie, Robert, to Campbell-Lurie Plastics, Inc. Meat packaging and the like. 2,918,379, 12-22-59, Cl. 99-174.
- Lurie, Robert J.: *See*—  
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- Lurie, William B.: *See*—  
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- Lurk, Hans-Joachim: *See*—  
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- Kesten, Ulrich, and Lurk. 2,904,635.
- Lusby, William E., Jr., to E. I. du Pont de Nemours and Co. Production of refractory metals. 2,876,094, 3-3-59, Cl. 75-84.4.
- Luscher, Robert W.: *See*—  
Kosowsky, David I., and Luscher. 2,913,677.
- Luscombe, Arthur J. Portable feed mixer. 2,896,923, 7-28-59, Cl. 259-8.
- Lusk, Charles E. Land leveling apparatus. 2,880,528, 4-7-59, Cl. 37-169.
- Luskin, Leo S.: *See*—  
De Benneville, Peter L., and Luskin. 2,897,182.  
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Matlin, Nathaniel A., and Luskin. 2,888,314.
- Luskin, Leo S., to Rohm & Haas Co. 2-isothiocyanatoisocamphane. 2,885,428, 5-5-59, Cl. 260-454.
- Lusskin, Robert M.: *See*—  
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Levy, Joseph, and Lusskin. 2,889,340.
- Lusted, Emile W., to Fuller Co. Discharge means for storage vessels. 2,915,339, 12-1-59, Cl. 302-53.
- Lusted, Emile W., to Fuller Co. Pressure equalizer for discharge vessels. 2,915,340, 12-1-59, Cl. 302-53.
- Lusti, John, and R. W. Madison, to Otis Elevator Co. Control of position indicator for elevators. 2,903,093, 9-8-59, Cl. 187-29.
- Lustig, Elvera: *See*—  
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- Lustig, Frank: *See*—  
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- Lustig, Frank C., to Revere Camera Co. Safety device for exposure in turret type motion picture camera. 2,906,163, 9-29-59, Cl. 88-16.
- Lustig, Frank C., to Revere Camera Co. Sensing device. 2,910,957, 11-3-59, Cl. 116-114.
- Lustig, Howard E., and W. F. Weber, to Sperry Rand Corp., Ford Instrument Co. Division. Punched card resistance matrix function generator. 2,887,552, 5-19-59, Cl. 201-48.
- Lustig, Walter R., deceased, by E. Lustig, administratrix, to Atwood Vacuum Machine Co. Hinged lid and hood supports for motor vehicles. 2,890,476, 6-16-59, Cl. 16-128.1.
- Lustwerk, Ferdinand: *See*—  
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- Lutcke, Helmut O.: *See*—  
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- Lutes, Harold R. Slide changer. 2,878,719, 3-24-59, Cl. 88-28.
- Luther, Arch C., Jr.: *See*—  
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- Luther, Arch C., Jr., to Radio Corp. of America. Stabilized clipper and clamp circuits. 2,875,332, 2-24-59, Cl. 250-27.
- Luther, Arch C., Jr., to Radio Corp. of America. Television transmission system. 2,887,575, 5-19-59, Cl. 250-27.
- Luther, Arch C., Jr., to Radio Corp. of America. Multivibrator with cathode stabilized by a capacitor. 2,891,148, 6-16-59, Cl. 250-27.
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- Luther, Arch C., Jr., and R. J. Marian, to Radio Corp. of America. Phase generating systems. 2,879,441, 3-24-59, Cl. 315-10.
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- Luther, Arch C., Jr., and I. Bosinoff, to Radio Corp. of America. Image signal correction apparatus. 2,892,025, 6-23-59, Cl. 178-7.1.
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- Luther, Herbert G.: *See*—  
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Price, Kenneth E., and Luther. 2,907,693.
- Luther, Herbert G., to Chas. Pfizer & Co., Inc. Animal feed composition and method of feeding said composition to animals. 2,907,658, 10-6-59, Cl. 99-2.
- Luther, Herbert G., to Chas. Pfizer & Co., Inc. Process of alleviation of bloat in ruminants using citric acid esters. 2,908,608, 10-13-59, Cl. 167-53.
- Luther, Paul E. Apparatus and method of filling containers. 2,880,766, 4-7-59, Cl. 141-292.
- Luther, Paul E. Liquid filling system. 2,913,016, 11-17-59, Cl. 141-7.
- Luther-Werke, Luther & Jordan: *See*—  
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- Luthi, Hans, to Hoffmann-La Roche Inc. Additive and method for improving wine production. 2,908,574, 10-13-59, Cl. 99-35.
- Luthi Machinery & Engineering Co., Inc.: *See*—  
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- Luthi, Oscar: *See*—  
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- Luthman, Lars G. V.: *See*—  
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- Luthy, Raymond V.: *See*—  
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- Lutke, Peter E. Grease seal for axially engaging clutch. 2,903,113, 9-8-59, Cl. 192-113.
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- Lutsky, Sidney. Back and abdomen bracing garment. 2,918,920, 12-29-59, Cl. 128-426.
- Lutters, Willi: *See*—  
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- Lutton, Melvin C., to ACF Industries, Inc. Module assembly. 2,905,920, 9-22-59, Cl. 339-17.
- Lutton, Melvin C., to ACF Industries, Inc. Electrical assembly. 2,907,924, 10-6-59, Cl. 317-101.
- Luttrell, William F.: *See*—  
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- Luttringhaus, Arthur, and K. Hagele, to E. Merck Akt., Darmstadt. Manufacture of 6,8 dihydroxy-n-octanoic acid-1. 2,915,536, 12-1-59, Cl. 260-413.
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Ainsworth, John R., Lutyens, and White. 2,867,262.  
Barker, William A., and Lutyens. 2,885,058.
- Lutz, August H., and O. Schneider, to Hoffmann-La Roche Inc. Pyridine compounds. 2,867,623, 1-6-59, Cl. 260-296.
- Lutz, August H., and O. Schneider, to Hoffmann-La Roche Inc. 3-aryl-3-alkyl-2-pyrrolidones. 2,916,498, 12-8-59, Cl. 260-326.5.
- Lutz, Earle R., and W. L. Sheffield, to Atlas Powder Co. Automatic machine for making and closing dynamite shell cartridges and casings and similar apparatus. 2,898,817, 8-11-59, Cl. 93-39.1.
- Lutz, Edward H.: *See*—  
McCarty, Daniel J., and Lutz. 2,906,494.
- Lutz, Friedrich, and H. Daniel, to Union Special Maschinenfabrik, G.m.b.H. Pedestal mounted portable bag closing machine. 2,901,992, 9-1-59, Cl. 112-11.
- Lutz, Frederick W., to Leetronics, Inc. Dispensing device. 2,900,116, 8-18-59, Cl. 222-477.
- Lutz, Henry J., and R. F. Doran, to Sylvania Electric Products Inc. Initiator primer. 2,880,671, 4-7-59, Cl. 102-28.
- Lutz, Irvin H.: *See*—  
Kirkland, Earl V., and Lutz. 2,871,248.
- Lutz, Karlheinz: *See*—  
Scharstein, Ernst, Lutz, and Falkenberg. 2,887,641.
- Lutz, Karlheinz, to Siemens-Schuckertwerke Akt. Voltage regulator for synchronous machines. 2,869,066, 1-13-59, Cl. 322-25.



- Lutz, Peter:** *See*—  
 Buchkremer, Josef, Bolton, Lutz, and Wistuba. 2,913,772.  
**Lutz, Russell L.** Electronic radio frequency ignition. 2,876,270, 3-3-59, Cl. 123-148.  
**Lutz, William A., and W. T. Marston,** to Dorr-Oliver Inc. Ammonium sulfate production. 2,867,523, 1-6-59, Cl. 71-61.  
**Lutze, Donald M.,** to J. C. Pittman & Sons, Inc. Deep fat frier. 2,867,164, 1-6-59, Cl. 99-403.  
**Lu Valle, James E.:** *See*—  
 Golberg, Gershon M., and Lu Valle. 2,875,050.  
**Luvisi, John P.:** *See*—  
 Schmerling, Louis, and Luvisi. 2,895,997.  
 Schmerling, Louis, and Luvisi. 2,916,532.  
**Luvisi, John P.,** to Universal Oil Products Co. Polyhalocyclo-alkenic derivatives of dialkenyl melamines. 2,868,788, 1-13-59, Cl. 260-249.6.  
**Luvisi, John P.,** to Universal Oil Products Co. Halo substituted polycyclic derivatives of pyridine and process. 2,889,329, 6-2-59, Cl. 260-290.  
**Luvisi, John P., and L. Schmerling,** to Universal Oil Products Co. Preparation of halogen substituted polycyclic epoxides. 2,882,279, 4-14-59, Cl. 260-348.  
**Luvisi, John P., and L. Schmerling,** to Universal Oil Products Co. Alkylation of aromatic compounds. 2,882,325, 4-14-59, Cl. 260-671.  
**Luvisi, John P., and L. Schmerling,** to Universal Oil Products Co. Alkylation of aromatic compounds. 2,910,515, 10-27-59, Cl. 260-671.  
**Luwa S.A.:** *See*—  
 Sauter, Karl. 2,889,873.  
**Luward Corp.:** *See*—  
 Zug, Morris W. 2,883,713.  
**Lux Clock Mfg. Co., Inc.:** *See*—  
 Trepanier, Ivan. 2,894,081.  
**Lux, Eugene J.** Vending machines. 2,873,012, 2-10-59, Cl. 194-2.  
**Lux, Horst D.,** to M. Mackenzie. Helicopter rotor. 2,869,649, 1-20-59, Cl. 170-160.11.  
**Lux, Russell E., and A. M. Brubaker,** to Whitmoyer Laboratories, Inc. Diamino-pyridine compositions for chemotherapy of coccidiosis. 2,895,874, 7-21-59, Cl. 167-53.1.  
**Luz, Christian,** to Ernst Leitz, G.m.b.H. Photographic enlarger with automatic focus. 2,889,741, 6-9-59, Cl. 88-24.  
**Lwowski, Viktor:** *See*—  
 Goerrig, Dieter, and Lwowski. 2,915,381.  
**Lyben, Raymond G.,** to Ethyl Corp. Antiknock mixtures. 2,869,993, 1-20-59, Cl. 44-69.  
**Lyddon, Percy E.,** to Morganite Inc. Split brushes. 2,918,591, 12-22-59, Cl. 310-248.  
**Lydfors, John,** to Aktiebolaget Addo. Symbol printing mechanisms in listing calculating machines and the like. 2,872,862, 2-10-59, Cl. 101-93.  
**Lydic, William K.:** *See*—  
 Horton, Richard C., Miller, and Lydic. 2,867,891.  
**Lydick, Harry M.,** to National-Standard Co. Stator block construction for wire coiling machine. 2,912,182, 11-10-59, Cl. 242-82.  
**Lydon, Richard M.:** *See*—  
 Erskine, Archibald M., and Lydon. 2,893,886.  
**Lyijynen, Fred,** to Chrysler Corp. Apparatus for forming laminated material. 2,868,942, 1-13-59, Cl. 219-19.  
**Lykes, Norman R.** Condiment container with multiple compartments. 2,907,497, 10-6-59, Cl. 222-142.4.  
**Lykes, Norman R.** Holder for a bedreader. 2,908,465, 10-13-59, Cl. 243-166.  
**Lykins, Herman F.:** *See*—  
 Stansbury, Harry A., Jr., and Lykins. 2,886,568.  
**Lykken, Henry G.,** to The Microcyclomat Co. Aerodynamic classifier. 2,915,179, 12-1-59, Cl. 209-20.  
**Lykken, Henry G. and W. H.,** to The Microcyclomat Co. Pulverizer. 2,875,956, 3-3-59, Cl. 241-55.  
**Lykken, Henry G. and W. H.,** to The Microcyclomat Co. Pneumatic classifier system. 2,914,172, 11-24-59, Cl. 209-144.  
**Lykken, William H.:** *See*—  
 Lykken, Henry G. and W. H. 2,875,956.  
**Lykken, Henry G. and W. H.** 2,914,172.  
**Lyle, Aaron K.,** to Emhart Mfg. Co. Apparatus for and method of making glass. 2,890,547, 6-16-59, Cl. 49-54.  
**Lyle, Alfred G., P. E. Brubaker, and A. J. Beyer,** to American Cyanamid Co. Separation of nickel and cobalt. 2,915,388, 12-1-59, Cl. 75-108.  
**Lyle, James E., and J. V. Jaramillo,** to International Harvester Co. Reversible disk plow and furrow wheel unit. 2,906,352, 9-29-59, Cl. 172-212.  
**Lyle, John M.,** to Ruud Mfg. Co. Water heaters. 2,892,465, 6-30-59, Cl. 137-216.  
**Lyles, George D.** Mechanical horse. 2,889,148, 6-2-59, Cl. 272-53.1.  
**Lyles, Omer C.:** *See*—  
 Klein, Victor G., Graef, and Lyles. 2,886,215.  
**Lyman, Frank:** *See*—  
 Henschen, Edgar, and Lyman. 2,868,243.  
**Lyman, Harold T.,** to Aladdin Industries, Inc. Wide range tuner with flat coil and cavity resonator. 2,871,360, 1-27-59, Cl. 250-40.  
**Lyman, Harold T.,** to Aladdin Industries, Inc. Very high frequency tuner convertible to intermediate frequency amplifier. 2,873,360, 2-10-59, Cl. 250-20.  
**Lyman, Harold T.,** to Aladdin Industries, Inc. Driving mechanism for tuners. 2,883,865, 4-28-59, Cl. 74-10.31.  
**Lyman, Harold T.,** to Aladdin Industries, Inc. Sleeve-tuned band-pass tuner with variable coupling. 2,913,681, 11-17-59, Cl. 333-70.  
**Lyman, Harold T., and M. M. Tupper,** to Aladdin Industries, Inc. Wide-range radio-frequency tuner. 2,873,373, 2-10-59, Cl. 250-40.  
**Lyman, Homer F.** Fluid spraying device for dishwashing or rinsing apparatus. 2,904,265, 9-15-59, Cl. 239-553.  
**Lyman, Raphael,** to R. Ullman. Clip for pin curls, or the like. 2,898,922, 8-11-59, Cl. 132-48.  
**Lyman, William C., Jr.:** *See*—  
 Brokaw, George Y., and Lyman. 2,895,879.  
**Lynar, William E., and W. J. Helwig,** to Radio Corp. of America. Electron tube. 2,884,554, 4-28-59, Cl. 313-270.  
**Lynch, Addison H.,** to Celanese Corp. of America. Apparatus for treating yarn with a liquid. 2,889,696, 6-9-59, Cl. 68-20.  
**Lynch, Charles S.:** *See*—  
 Ready, Harold R., Boyle, and Lynch. 2,895,973.  
**Lynch Corp.:** *See*—  
 Bartlo, John S. 2,915,866.  
 Koob, Bernard H. 2,881,803.  
**Larison, Harold E.** 2,903,058.  
**Reynolds, Walter J.** 2,891,780.  
**Reynolds, Walter J.** 2,903,216.  
 Taggart, Robert E. 2,877,737.  
 Youkers, Harold A. 2,874,516.  
**Lynch, Edward E.,** to General Electric Co. Condenser electrode mounting. 2,881,326, 4-7-59, Cl. 250-83.3.  
**Lynch, John E.:** *See*—  
 Lambrecht, Joseph A., Hensley, Kent, and Lynch. 2,902,402.  
**Lynch, John J.,** to Sperry Rand Corp. Tabulating machine for billing. 2,873,669, 2-17-59, Cl. 101-93.  
**Lynch, Leonard J., and H. H. Tishrock.** Television antenna. 2,870,443, 1-20-59, Cl. 343-812.  
**Lynch, Matthew J.,** to Abbott Laboratories. Ointment. 2,914,443, 11-24-59, Cl. 167-63.  
**Lynch, Ridgeway T.:** *See*—  
 Benninga, Noah, Johnston, Lynch, Markwood, and Parks. 2,908,944.  
**Lynch, Robert E.** Vernier scribing tool. 2,898,682, 8-11-59, Cl. 33-42.  
**Lynch, Robert T.,** to Bell Telephone Laboratories, Inc. Method of manufacturing sintered cathode. 2,899,299, 8-11-59, Cl. 75-207.  
**Lynch, Rona R.:** *See*—  
 Roy, Robert, Jr. 2,897,761.  
**Lynes, Arthur E.:** *See*—  
 Senkowski, Alexander, and Lynes. 2,888,998.  
**Lyness, John S.,** to United Shoe Machinery Corp. Rough rounding machines. 2,869,157, 1-20-59, Cl. 12-85.  
**Lynn, Arthur J.:** *See*—  
 Alholm, Wayne I., Campbell, Foye, Lynn, and Shanklin. 2,907,300.  
**Lynn, Harold E.,** to Beam Products Mfg. Co. Fuel supply system for internal combustion engines. 2,895,560, 7-21-59, Cl. 180-54.  
**Lynn, Holmes W., and A. R. Geiszler,** to The Wean Engineering Co., Inc. Strip inspecting apparatus. 2,872,039, 2-3-59, Cl. 209-111.  
**Lynn, John.** Sandwich holder. 2,892,719, 6-30-59, Cl. 99-88.  
**Lynn, Lawrence B.,** to Westinghouse Electric Corp. Stabilizing apparatus. 2,899,828, 8-18-59, Cl. 74-5.5.  
**Lynn, Raoul B.,** to Philco Corp. Electrical apparatus and method of manufacturing the same. 2,898,518, 8-4-59, Cl. 317-101.  
**Lynn, Robert E.** Quick change tool holder and block combination. 2,908,194, 10-13-59, Cl. 82-36.  
**Lynott, John J.:** *See*—  
 Harker, John M., and Lynott. 2,913,922.  
**Lynott, John J.,** to International Business Machines Corp. Motion transmitting device. 2,898,890, 8-11-59, Cl. 121-41.  
**Lynott, John J.,** to International Business Machines Corp. Multi-port selector. 2,904,070, 9-15-59, Cl. 137-552.5.  
**Lynskey, Peter J.:** *See*—  
 Hill, Kenneth M., and Lynskey. 2,890,953.  
**Lynskey, Peter J.,** to Peter Spence & Sons Ltd. Method of further reducing the reaction products of a titanium tetrachloride reduction reaction. 2,895,823, 7-21-59, Cl. 75-211.  
**Lyon, Chester S.** Extensible torque rod. 2,893,765, 7-7-59, Cl. 287-58.  
**Lyon, Donald G.,** to Barry-Wehmler Machinery Co. Automatic pallet loader. 2,885,097, 5-5-59, Cl. 214-6.  
**Lyon, Floyd A.:** *See*—  
 Aronson, Theodore F., and Lyon. 2,901,721.  
 Aronson, Theodore F., and Lyon. 2,918,278.  
**Lyon, George A.** Wheel cover. 2,867,477, 1-6-59, Cl. 301-37.  
**Lyon, George A.** Wheel cover. 2,868,588, 1-13-59, Cl. 301-37.  
**Lyon, George A.** Wheel cover. 2,869,928, 1-20-59, Cl. 301-37.  
**Lyon, George A.** Bomb shell with hanger socket structure. 2,870,707, 1-27-59, Cl. 102-2.  
**Lyon, George A.** Wheel cover. 2,871,062, 1-27-59, Cl. 301-37.  
**Lyon, George A.** Bomb tail construction. 2,873,674, 2-17-59, Cl. 102-2.



- Lyon, George A. Rocket gun. 2,876,678, 3-10-59, Cl. 89-17.
- Lyon, George A. Bomb head base structure. 2,876,699, 3-10-59, Cl. 102-2.
- Lyon, George A. Wheel cover. 2,878,072, 3-17-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,878,073, 3-17-59, Cl. 301-37.
- Lyon, George A. Apparatus for making wheel covers. 2,878,769, 3-24-59, Cl. 113-48.
- Lyon, George A. Wheel cover. 2,879,107, 3-24-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,879,108, 3-24-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,881,026, 4-7-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,881,027, 4-7-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,882,095, 4-14-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,882,096, 4-14-59, Cl. 301-37.
- Lyon, George A. Method of making a spoked wheel cover. 2,882,852, 4-21-59, Cl. 113-116.
- Lyon, George A. Wheel cover. 2,883,238, 4-21-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,883,239, 4-21-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,884,281, 4-28-59, Cl. 301-37.
- Lyon, George A. Air circulating wheel structure. 2,885,038, 5-5-59, Cl. 188-264.
- Lyon, George A. Wheel cover. 2,885,245, 5-5-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,886,376, 5-12-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,890,912, 6-16-59, Cl. 301-37.
- Lyon, George A. Projectile structure. 2,892,409, 6-30-59, Cl. 102-49.
- Lyon, George A. Wheel cover. 2,893,785, 7-7-59, Cl. 301-37.
- Lyon, George A. Wheel structure. 2,894,786, 7-14-59, Cl. 301-37.
- Lyon, George A. Bomb head construction. 2,895,418, 7-21-59, Cl. 102-2.
- Lyon, George A. Wheel cover. 2,898,149, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,898,150, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,898,151, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,898,152, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,898,153, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,898,154, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,898,155, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,898,156, 8-4-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,900,208, 8-18-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,901,291, 8-25-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,902,317, 9-1-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,902,318, 9-1-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,902,387, 9-1-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,904,372, 9-15-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,906,559, 9-29-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,906,560, 9-29-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,907,603, 10-6-59, Cl. 301-37.
- Lyon, George A. Wheel cover and method and means for making same. 2,911,257, 11-3-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,911,258, 11-3-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,911,259, 11-3-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,911,260, 11-3-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,911,261, 11-3-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,912,278, 11-10-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,912,279, 11-10-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,912,280, 11-10-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,912,281, 11-10-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,914,355, 11-24-59, Cl. 301-37.
- Lyon, George A. Wheel cover. 2,914,356, 11-24-59, Cl. 301-37.
- Lyon, George A. Method of making cartridge cases and like articles. 2,915,424, 12-1-59, Cl. 148-12.
- Lyon, George A. Wheel cover. 2,916,328, 12-8-59, Cl. 301-37.
- Lyon, George A. Method of making bomb head shells. 2,916,799, 12-15-59, Cl. 29-1.3.
- Lyon, George A., Jr. Sink construction. 2,889,559, 6-9-59, Cl. 4-187.
- Lyon, George A., Jr. Sink construction and method. 2,908,019, 10-13-59, Cl. 4-187.
- Lyon, George A., Jr. Automotive cooling system. 2,913,065, 11-17-59, Cl. 180-54.
- Lyon, George A., Jr., to Lyon Inc. Wheel cover. 2,917,341, 12-15-59, Cl. 301-37.
- Lyon, Inc.: See—  
Celovsky, Michael J. 2,873,709.  
Lyon, George A., Jr. 2,917,341.  
Martin, Wayne A. 2,913,804.  
Wisniewski, John C. 2,882,653.
- Lyon, Lucein L., to R. W. Walsh. Reciprocating sander. 2,870,581, 1-27-59, Cl. 51-170.
- Lyon, Luther L., Jr.: See—  
Barns, Robert L., Doshier, Humphries, Jeanes, Lyon, Perry, Speer, and Earhart. 2,900,343.
- Lyon, Luther L., Jr., and R. W. Qualley, to The Coleman Co., Inc. Closed vessel curing of concrete. 2,917,778, 12-22-59, Cl. 18-47.5.
- Lyon Metal Products, Inc.: See—  
O'Connor, John B. 2,868,605.
- Lyon, William H., to The Soundscribe Corp. Long time recorder having fixed transducer heads and yieldable tape pressure shoe. 2,892,901, 6-30-59, Cl. 179-100.2.
- Lyon, William H., to The Soundscribe Corp. Long time continuous magnetic recording with delayed monitoring. 2,897,287, 7-28-59, Cl. 179-100.2.
- Lyon, William H., to The Soundscribe Corp. Automatic tracking device for transverse sound track tape recorders. 2,897,290, 7-28-59, Cl. 179-100.2.
- Lyon, William H., to The Soundscribe Corp. Dual channel magnetic tape recorder. 2,915,595, 12-1-59, Cl. 179-100.2.
- Lyon, William H., and L. E. Nagy, to The Soundscribe Corp. Coated sheet magnetic recorder. 2,915,596, 12-1-59, Cl. 179-100.2.
- Lyons, Allan J., to Metallizing Co. of America. Method and apparatus for applying solder. 2,891,308, 6-23-59, Cl. 29-497.
- Lyons, Daniel J.: See—  
Anderson, Herbert M., Draemel, and Lyons. 2,914,469.
- Lyons, Douglas A. Loud speaker systems. 2,904,124, 9-15-59, Cl. 181-31.
- Lyons, Duane T.: See—  
Thompson, Crayton B., and Lyons. 2,882,157.
- Lyons, Evereth L.: See—  
Bettoli, Phillip S., and Lyons. 2,885,073.
- Lyons, Harold D.: See—  
Nowlin, Gene, and Lyons. 2,908,674.  
Nowlin, Gene, and Lyons. 2,910,461.  
Nowlin, Gene, and Lyons. 2,918,458.  
Nowlin, Gene, and Lyons. 2,918,459.
- Lyons, Harold R.: See—  
Gibson, Glenn J., and Lyons. 2,907,865.  
Rothschild, Gilbert R., and Lyons. 2,907,864.
- Lyons, Harold R., to Air Reduction Co., Inc. Electric arc welding. 2,882,385, 4-14-59, Cl. 219-74.
- Lyons, J., & Co. Ltd.: See—  
Boon, Harold A. 2,903,370.
- Lyons, John W., to Monsanto Chemical Co. Improving the physical properties of clay soils by treating with alkenyl polyamines. 2,898,706, 8-11-59, Cl. 47-58.
- Lyons, John W., to Monsanto Chemical Co. Soil stabilization. 2,899,329, 8-11-59, Cl. 106-287.
- Lyons, John W., to Monsanto Chemical Co. Soil stabilization. 2,899,330, 8-11-59, Cl. 106-287.
- Lyons, Joseph, O. C. Elmer, and R. E. Berry, deceased (by M. E. Berry, administratrix), to Texaco Inc. Extreme pressure lubricant additive. 2,900,341, 8-18-59, Cl. 252-48.4.
- Lyons, Joseph F.: See—  
Odell, Norman R., and Lyons. 2,908,644.
- Lyons, Joseph F., P. R. Thomas, and N. R. Odell, to The Texas Co. Lubricating greases thickened with benzidine diazo compounds. 2,880,177, 3-31-59, Cl. 252-49.9.
- Lyons, Joseph F., and N. R. Odell, to Texaco Inc. Lubricating grease thickened with ultramarine blue. 2,892,776, 6-30-59, Cl. 252-28.
- Lyons, Lawrence J., to Fairbanks, Morse & Co. Weighing scale system. 2,873,107, 2-10-59, Cl. 265-70.
- Lyons, Lawrence J., to Fairbanks, Morse & Co. Conveyor weighing scale. 2,882,036, 4-15-59, Cl. 265-28.
- Lyons, Leland R.: See—  
Schlotthauer, Joseph S., Snyder, and Lyons. 2,897,918.
- Lyons, Norma W.: See—  
Lyons, Richard C. and N. W. 2,915,065.
- Lyons, Richard C. and N. W. Surgical device. 2,915,065, 12-1-59, Cl. 128-275.
- Lyons, Sanford C., to Georgia Kaolin Co. Method of treating kaolinitic clay. 2,904,267, 9-15-59, Cl. 241-26.
- Lyons, Sanford C., to Georgia Kaolin Co. Method of handling and conditioning paper making clay for use. 2,915,412, 12-1-59, Cl. 106-286.
- Lyons, Sanford C., to Georgia Kaolin Co. Method of blunging clay. 2,916,214, 12-8-59, Cl. 241-16.



- Lyons, Thomas J.: *See*—  
Bauer, Armand C. 2,916,008.
- Lyons, Vincent J.: *See*—  
Silvey, Gene A., and Lyons. 2,898,248.
- Lyons, William. Variable illuminating mirror. 2,879,379, 3-24-59, Cl. 240-42.
- Lyons, William C., to The Bilco Co. Stringer and template for stair construction. 2,879,556, 3-31-59, Cl. 20-10.
- Lyons, William E.: *See*—  
Glasbrenner, Frederick K., and Lyons. 2,897,672.
- Lyrizits, Nikolaos. Combination spare and service tail shaft assembly. 2,873,587, 2-17-59, Cl. 64-1.
- Lysett, Daniel W.: *See*—  
Stevenson, James R., Lysett, and Zeidler. 2,880,833.
- Zeidler, Reinhold C., and Lysett. 2,917,001.
- Lysett, Daniel W., to Borg-Warner Corp. Friction clutches. 2,895,581, 7-21-59, Cl. 192-99.
- Lysholm, Alf. Combustion chamber inlet for thermal power plants. 2,907,171, 10-6-59, Cl. 60-39.65.
- Lysle, Audrey A.: *See*—  
Lysle, Edmond H. 2,906,165.
- Lysle, Edmond H., deceased, by A. A. Lysle, administratrix. Optical rectifier apparatus. 2,906,165, 9-29-59, Cl. 83-16.8.
- Lysle, Gordon, and C. M. Tuttle, to Specialties, Inc. Packaging of solutions in fiber web rolls. 2,906,399, 9-29-59, Cl. 206-59.
- Lysobey, John. Manufacture of flexible-walled tubing. 2,903,743, 9-15-59, Cl. 18-19.
- Lyster, Thomas C.: *See*—  
Miller, Charles F., and Lyster. 2,895,317.
- Lytax-Werke G.m.b.H.: *See*—  
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- Eber, Hans, and Ruf. 2,894,436.
- Lytle, Ardell L. Rocket motor. 2,913,983, 11-24-59, Cl. 102-35.6.
- Lytle, George F., to Vac-U-Lift Co. Vacuum control lifting apparatus. 2,887,849, 5-26-59, Cl. 60-60.
- Lytle, Lawrence D., and R. E. Brouillard, to General Aniline & Film Corp. Transforming oxazoline dyestuff bases to pigments. 2,918,465, 12-22-59, Cl. 260-246.
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- Konrad, Jakob, and Ramundt. 2,886,014.
- Köppel, Walter, and Ott. 2,898,895.
- Kubis, Heribert. 2,913,069.
- Liebel, Julius. 2,893,268.
- Meurer, Siegfried. 2,882,106.
- Scheuerpflug, Hans. 2,910,189.
- Schleicher, Alfred, and Fleischmann. 2,887,229.
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- M. & D. Store Fixtures, Inc.: *See*—  
Mapson, Donald L. 2,907,537.
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- MLLK Corp.: *See*—  
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- M & M Research and Development Co.: *See*—  
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- M-O Valve Co. Ltd., The: *See*—  
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- Clarke, Graham M. 2,898,507.
- Dix, Cyril H., and Heathcote. 2,899,604.
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- M.S.A. Research Corp.: *See*—  
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- M. S. S. Recording Co. Ltd.: *See*—  
Mee, Charles D. 2,873,319.
- M.W.P. Appliances, Inc.: *See*—  
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- Maag Gear-Wheel and Machinery Co., Ltd.: *See*—  
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- Maaz, Karl: *See*—  
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- MacAllister, Robert V., and C. J. Reichenwallner, to General Foods Corp. Force-deformation measuring apparatus. 2,912,855, 11-17-59, Cl. 73-89.
- Macan, Albert L.: *See*—  
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- MacArthur, Vera: *See*—  
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- Maccarone, Fred. Shoemaking. 2,872,746, 2-10-59, Cl. 36-76.
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- MacCracken, Calvin D., to Jet-Heat, Inc. Heat storage water heater. 2,911,513, 11-3-59, Cl. 219-39.
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- MacCracken, Calvin D., and G. N. Miles, to Jet-Heat, Inc. Hot water heating systems. 2,889,116, 6-2-59, Cl. 237-8.
- MacCurdy, William I., to United States Steel Corp. Article transfer mechanism. 2,883,031, 4-21-59, Cl. 198-20.
- MacCurdy, William K., to Southern Pacific Co. Draft gear for railroad cars. 2,911,112, 11-3-59, Cl. 213-8.



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- Macdonald, Alexander J., to National Steel Corp. Method for treating molten metal. 2,884,321, 4-28-59, Cl. 75-51.
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- MacDonald, Dennison H., to Revere Corp. of America. Electric weighing cell. 2,867,707, 1-6-59, Cl. 201-63.
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- MacDonald, Donald C., to United States Rubber Co. Transmission. 2,903,901, 9-15-59, Cl. 74-368.
- MacDonald, Duncan N.: *See—*
- Lahti, Arvo A., and MacDonald. 2,873,439.
- MacDonald, Duncan N., to Burroughs Corp. Reel supporting spindle. 2,882,078, 4-14-59, Cl. 287-53.
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- MacDonald, John L., to United States of America, Army. Cartridge positioning cam for automatic revolver guns. 2,892,885, 6-30-59, Cl. 89-137.
- MacDonald, Lee H., to The Upjohn Co. Nitrate stabilized ascorbic acid-cyanocobalamin compositions. 2,914,446, 11-24-59, Cl. 167-81.
- MacDonald, Robert A., and T. H. Stewart, to International Minerals & Chemical Corp. Granulation of fertilizers. 2,893,858, 7-7-59, Cl. 71-64.
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- MacDonnell, Gordon S., to Digital Control Systems, Inc. Packaged electronic circuit. 2,892,131, 6-23-59, Cl. 317-101.
- MacDonnell, Robert W., 1/2 to G. W. Sieg. Adjustable bulkhead for freight vehicle bodies. 2,875,707, 3-3-59, Cl. 105-376.
- MacDonough, Edward P., to Chance Vought Aircraft, Inc. Variable-contour airfoil. 2,912,190, 11-10-59, Cl. 244-44.
- MacDonough, Francis X., and L. M. Vant, to Bomac Laboratories Inc. Fixture for magnetizing toroidal permanent magnets. 2,897,417, 7-28-59, Cl. 317-203.
- MacDougall, Alexander, and J. H. Rothrock. Tray for wafers. 2,880,880, 4-7-59, Cl. 211-49.
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- Sedgfield, Hugh B., Taylor, and MacDougall. 2,903,891.
- MacDougall, Duncan P., to United States of America, Navy. Projectile cavity charges. 2,900,905, 8-25-59, Cl. 102-24.
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- MacDowell, Kenneth M., to Raytheon Mfg. Co. Phase inversions. 2,911,486, 11-3-59, Cl. 179-171.
- MacDuff, John N.: *See—*
- Sanborn, Walter F., and MacDuff. 2,917,266.
- MacDuff, Stanley I., to Bendix Aviation Corp. Hydro-pneumatic energy storage device. 2,893,433, 7-7-59, Cl. 138-30.
- MacDuff, Stanley I., to Bendix Aviation Corp. Power steering valve. 2,910,971, 11-3-59, Cl. 121-46.5.
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- McGarraghy, Andrew J., and Mace. 2,882,639.
- Macey Co.: *See—*
- Heigl, Carl H., and Zugel. 2,869,870.
- MacFadyen, Peter: *See—*
- Courtright, William R. 2,887,815.
- MacFarland, Charles H., to The Scott & Fetzer Co. Annular knife sharpener. 2,900,768, 8-25-59, Cl. 51-197.
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- MacGillivray, Robert K., to Superior Separator Co. Scalper. 2,915,180, 12-1-59, Cl. 209-106.
- Macgregor, Peter S.: *See—*
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- Macgregor, Peter S., and A. W. Goodliffe, to Flight Refueling Inc. Hose- or cable-carrying winches. 2,887,297, 5-19-59, Cl. 254-173.
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- Machalek, Ferdinand T., to International Telephone and Telegraph Corp. Piano hammer. 2,870,665, 1-27-59, Cl. 84-254.
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- Machalek, Ferdinand T., to International Telephone and Telegraph Corp. Headlight overriding system. 2,912,621, 11-10-59, Cl. 315-83.
- Machate, Fred, Jr. Cover. 2,907,467, 10-6-59, Cl. 210-469.
- Macher, Heinrich: *See—*
- Klemt, Günter, and Macher. 2,906,173.
- Macher, Karl H.: *See—*
- Klemt, Günter, and Macher. 2,897,725.
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- Bean, Charles H., and Macherey. 2,915,815.
- Macherey, Robert E., to United States of America, Atomic Energy Commission. Method of working beryllium. 2,872,363, 2-3-59, Cl. 148-11.5.
- Machessney, Henry J. Snap-on tire chain assembly for vehicles. 2,898,966, 8-11-59, Cl. 152-233.
- Machian, George R., to Western Electric Co., Inc. Wedge bar relay adjusting device. 2,882,954, 4-21-59, Cl. 153-52.
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- Streed, William R. 2,917,090.
- Machine Tool Works Oerlikon, Administration Co.: *See—*
- Herlach, Heinrich. 2,905,057.
- Herlach, Heinrich, Stadelmann, and Rossmanith. 2,910,917.
- Linke, Johannes. 2,870,681.
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- Linke, Johannes, and Michel. 2,915,945.
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- Mason, James A., and Duff. 2,870,972.
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- Machlanski, Henry T., to Kearfoot Co., Inc. Method of and apparatus for winding coils in place. 2,896,868, 7-28-59, Cl. 242-1.1.
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- Elwell, Henry G., Jr., and Machlanski. 2,874,375.
- Machler, Raymond C., and W. G. Fastie, to Leeds and Northrup Co. Radiation measurement of non-opaque bodies. 2,912,862, 11-17-59, Cl. 73-355.
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- Agule, George J. 2,894,730.
- Agule, George J., and Fengler. 2,896,483.
- Burley, Chester F. 2,886,723.
- Doolittle, Howard D. 2,873,401.
- Doolittle, Howard D. 2,900,549.
- Doolittle, Howard D., Nail, and Wadia. 2,870,364.
- Kirka, Chester. 2,890,385.
- Nail, Eugene J. 2,886,733.
- Palmer, Albert O. 2,877,372.
- Rogers, Thomas H., and Bavor. 2,879,404.
- Skehan, Joseph W. 2,890,366.
- Steen, Gottfrid W. 2,886,724.
- Wadia, Behram H. 2,879,430.
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- Yanagisawa, Samuel T. 2,886,725.
- Machlin, Eugene S. Process of condensing polytetrafluoroethylene vapors onto a substrate and sintering the condensate. 2,893,900, 7-7-59, Cl. 117-232.
- Machlis, Jerome, to Hymac Corp. Time base generator. 2,896,081, 7-21-59, Cl. 250-27.
- Machon, Hubert F. Safety ash tray. 2,891,558, 6-23-59, Cl. 131-235.
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- Machovec, Fred J. Portable mower conditioning unit. 2,915,853, 12-8-59, Cl. 51-26.
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- Macinko, John: *See*—Mann, Douglas, and Macinko. 2,871,669.
- Macintosh, Hamish F.: *See*—Jellyman, Philip E., Dickinson, and Macintosh. 2,895,260.
- Jellyman, Philip E., Macintosh, and Wilcock. 2,870,244.
- Macintosh, John R. Abrasive belt surfacing apparatus. 2,880,694, 4-7-59, Cl. 118-11.
- Macintosh, John R., and S. A. Mercurio, to Mermac Products, Inc. Expandable abrasive wheel. 2,874,519, 2-24-59, Cl. 51-191.
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- MacIntyre, Alfred J., Jr., and R. A. Martel, to Hughes Aircraft Co. Electroluminescent devices and methods therefor. 2,900,271, 8-18-59, Cl. 117-33.5.
- MacIntyre, Charles H., to Bendix Aviation Corp. Pressure and vacuum system for operating inflatable elements. 2,883,129, 4-21-59, Cl. 244-134.
- MacIntyre, Donald L.: *See*—O'Neill, Richard J., and MacIntyre. 2,893,777.
- MacIntyre, Ronald, and L. J. Sheakley, to Specialties Development Corp. Resistance material for fire detector element. 2,871,197, 1-27-59, Cl. 252-518.
- MacIntyre, William R., to Joseph Bancroft & Sons Co. Method for imparting durable lustered finish to fabric. 2,870,038, 1-20-59, Cl. 117-11.
- Maciszewski, Arthur H.: *See*—Hupert, Julius J., Maciszewski, and Reslock. 2,905,886.
- Maciszewski, Arthur H., J. J. Hupert, R. Goldstein, and T. Szubski, to A. R. F. Products, Inc. Multi-band compensated oscillator. 2,881,315, 4-7-59, Cl. 250-36.
- MacIver, Charles P.: *See*—Beckwith, Edwin L., and MacIver. 2,917,840.
- MacIver, Meliza C. Adjustable and collapsible desk for motor vehicles. 2,904,378, 9-15-59, Cl. 311-21.
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- Mack, Gerry P., and E. Parker, to Carlisle Chemical Works, Inc. Halogen-containing resins stabilized with organotin mercapto compounds. 2,914,506, 11-24-59, Cl. 260-45.75.
- Mack, Jules A., and A. A. Hoehner, to Hubbard and Co. Bracket for mounting articles upon a pole. 2,908,469, 10-13-59, Cl. 248-230.
- Mack Trucks, Inc.: *See*—Mazur, Nicholas, and Haskey. 2,916,297.
- Willis, Delbert E. 2,887,201.
- MacKay, Charles G., to Orenda Engines Ltd. Connector and flame tube construction including such connectors. 2,876,622, 3-10-59, Cl. 60-39.65.
- MacKay, Harold A., to Catalin Corp. of America. Industrial adhesive bonding agent comprising liquid melamine modified urea formaldehyde resin. 2,898,324, 8-4-59, Cl. 260-67.6.
- MacKay, John D. A., to Orenda Engines Ltd. Rotor assemblies for turbines. 2,918,253, 12-22-59, Cl. 253-39.
- Mackay, Johnstone S.: *See*—Ohsol, Ernest O., and Mackay. 2,874,187.
- Skaptason, Joseph B., and Mackay. 2,900,294.
- Mackay, Johnstone S., to Pittsburgh Coke & Chemical Co. Process of removing entrained alkali metal cyanides from ferro-manganese furnace gases. 2,877,086, 3-10-59, Cl. 23-2.
- Mackay Radio and Telegraph Co.: *See*—Butterworth, John W. 2,869,116.
- Butterworth, John W. 2,878,451.
- Webster, Fullerton D. 2,877,423.
- MacKellar, Donald G., to Food Machinery and Chemical Corp. Manufacture of mercuric acetate. 2,873,289, 2-10-59, Cl. 260-431.
- Mackenzie, Donald E. Automatic threading apparatus for lathes. 2,903,933, 9-15-59, Cl. 82-5.
- Mackenzie, Elbert K., to Moore Products Co. Valve positions. 2,915,045, 12-1-59, Cl. 121-41.
- Mackenzie, Ernest W. Commode. 2,912,702, 11-17-59, Cl. 4-135.
- Mackenzie, Fred T., and E. Quinn, to United Shoe Machinery Corp. Platform shoes. 2,910,787, 11-3-59, Cl. 36-19.5.
- Mackenzie, Gordon F., and K. L. Turbin, to The Dow Chemical Co. Manufacturing process for piperazine. 2,901,482, 8-25-59, Cl. 260-268.
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- Mackenzie, James C., to Godfrey L. Cabot, Inc. High temperature water resistant lubricating greases. 2,898,295, 8-4-59, Cl. 252-28.
- MacKenzie, James S.: *See*—Luke, Oren V., Jr., Ulvild, and MacKenzie. 2,893,923.
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- MacKenzie, Willard B.: *See*—Gardner, Harris L., and Argereu. 2,912,245.
- Mackenzie, William A., and W. H. C. Stark, to Southern United Telephone Cables Ltd. Machines for lapping insulating material on to electric conductors. 2,875,571, 3-3-59, Cl. 57-19.
- MacKenzie, William F.: *See*—Lee, Ferman N., MacKenzie, D'Arcey, and Cicchetti. 2,904,788.
- Mackey, Charles W., to Scovill Mfg. Co. Anti-siphon device for valves. 2,891,565, 6-23-59, Cl. 137-217.
- Mackey, Donald, to Radio Corp. of America. Printed circuit for high frequency amplifier apparatus. 2,896,028, 7-21-59, Cl. 179-171.
- Mackey, Henry W., to Chrysler Corp. Combined stretch and die forming machine. 2,880,780, 4-7-59, Cl. 153-40.
- Mackey, William H., to Cid Air Structures Co. Air-inflated drilling rig cover. 2,872,933, 2-10-59, Cl. 135-1.
- Mackie, Harry A.: *See*—Hastings, Russell, Jr., Mackie, and Squier. 2,911,232.
- Mackie, Harry A., to Clark Equipment Co. Control mechanism for materials handling machines. 2,881,931, 4-14-59, Cl. 214-140.
- Mackie, Harry A., to General Motors Corp. Adjustable steering column and shaft. 2,903,904, 9-15-59, Cl. 74-493.
- MacKinnon, Donald W. Clutter-operated anti-clutter circuit. 2,910,692, 10-27-59, Cl. 343-17.1.
- Mackiewicz, Edward J., and A. L. Lindow, to Cleveland Pneumatic Industries, Inc. Tube cleaning device. 2,911,665, 11-10-59, Cl. 15-321.
- MacKinnon, Charles, to Plymouth Cordage Co. Fine spreader. 2,913,774, 11-24-59, Cl. 19-129.
- Mackintosh, Charles. Truss constructions. 2,868,146, 1-13-59, Cl. 108-23.
- Mackintosh, Charles. Beam or truss arch constructions. 2,875,711, 3-3-59, Cl. 108-23.
- Mackintosh, Charles. Cover for folding grandstands. 2,876,503, 3-10-59, Cl. 20-1.126.
- Mackintosh, Charles. Filters. 2,889,932, 6-9-59, Cl. 210-450.
- Mackintosh, Charles. Nesting desk-chair combination. 2,894,561, 7-14-59, Cl. 155-2.
- Mackintosh, Charles. Combined chair arm and connector. 2,895,540, 7-21-59, Cl. 155-130.
- Mackintosh, Donald D. R. Variable throw radial pump. 2,900,839, 8-25-59, Cl. 74-57.1.
- Macklis, Stanley L., to The New York Air Brake Co. De-aerator for hydraulic systems subject to high temperatures. 2,889,983, 6-9-59, Cl. 233-27.
- MacKnight, Merritt L.: *See*—Adamson, Phil A., and MacKnight. 2,916,209.
- Mackridge, Muir J., to Technical Waxes Ltd. Means for the transporting of thermoplastic materials in bulk. 2,887,251, 5-19-59, Cl. 222-131.
- Macks, Elmer F., to Air-Glide, Inc. Air supported rotor. 2,889,474, 6-2-59, Cl. 310-90.
- Macks, Elmer F. Fluid actuated mechanism. 2,907,304, 10-6-59, Cl. 121-38.
- Macks, Elmer F. Seal. 2,907,594, 10-6-59, Cl. 286-9.
- Macks, Elmer F., to Air-Glide Inc. Fluid dynamic device. 2,916,642, 12-8-59, Cl. 310-90.
- Macksoud, Michel E., to Duro-Test Corp. Lamp construction. 2,879,449, 3-24-59, Cl. 315-49.
- Macksoud, Michel E., to Duro-Test Corp. Light source. 2,899,583, 8-11-59, Cl. 313-109.
- Macksoud, Michel E., to Duro-Test Corp. Electron emissive electrode. 2,916,653, 12-8-59, Cl. 313-346.
- MacKusick, Meredith H., to The Babcock & Wilcox Co. Fusible metallic arc metal working. 2,897,341, 7-28-59, Cl. 219-130.
- MacLachlan, John R., to North American Philips Co., Inc. Stud-welding gun. 2,867,714, 1-6-59, Cl. 219-98.
- MacLaren, Donald D.: *See*—Sage, Richard W., and MacLaren. 2,910,431.
- Welty, Albert B., Jr., and MacLaren. 2,904,503.
- MacLaren, Donald D., to Esso Research and Engineering Co. System for handling combined shot catalyst mixtures. 2,877,175, 3-10-59, Cl. 208-149.
- MacLaren, Donald D., to Esso Research and Engineering Co. Hydrogenation of petroleum oils with "shot" size catalyst and regeneration catalyst. 2,912,375, 11-10-59, Cl. 208-213.
- MacLaren, Donald D., W. G. May, and L. E. Swabb, Jr., to Esso Research and Engineering Co. Hydroforming process. 2,905,634, 9-22-59, Cl. 208-149.
- MacLaren, Frederick B.: *See*—Levine, Bernard, and MacLaren. 2,911,632.
- MacLay, William R.: *See*—Scott, George W., and MacLay. 2,915,906.
- MacLay, William R., to International Business Machines Corp. Method of forming permanent data on magnetic recording media. 2,881,073, 4-7-59, Cl. 96-36.
- MacLay, William R., to International Business Machines Corp. Spring drive apparatus. 2,914,956, 12-1-59, Cl. 74-125.5.
- MacLean, Alexander F.: *See*—Fisher, Gene J., and MacLean. 2,916,512.
- Stautzenberger, Adin L., and MacLean. 2,900,413.
- Stautzenberger, Adin L., and MacLean. 2,903,438.
- MacLean, Alexander F., and A. L. Stautzenberger, to Celanese Corp. of America. Production of piperidines. 2,885,402, 5-5-59, Cl. 260-293.2.



- Maclean, Duncan, N. Standing, P. V. Youle, and N. Munro, to Imperial Chemical Industries Ltd. Manufacture of polymethylene terephthalate in the absence of a catalyst. 2,907,753, 10-6-59, Cl. 260-75.
- MacLean-Fogg Lock Nut Co.: *See*—  
Hopkins, Earl V., and Oakley. 2,911,924.  
Oakley, Gilbert F. 2,870,722.  
Oakley, Gilbert F. 2,876,712.
- MacLean, Mently M. Slidable jaw face, open-end wrench. 2,907,243, 10-6-59, Cl. 81-179.
- Maclean, Norman E., to American Brake Shoe Co. Grinding mill end liners. 2,893,650, 7-7-59, Cl. 241-181.
- MacLean, William D., to Florida Canada Corp. Electrical plating tank connector. 2,890,991, 6-16-59, Cl. 204-297.
- Maclean, William D., to General Development Corp. Electroplating apparatus. 2,891,898, 6-23-59, Cl. 204-297.
- MacLean, William R.: *See*—  
Lederman, Samuel, and MacLean. 2,899,525.
- Macleans Ltd.: *See*—  
Gore, David N. 2,880,136.
- MacLelland, Willis G. Paper roll support. 2,917,249, 12-15-59, Cl. 242-55.2.
- MacLeod, Cameron, Jr. Body retaining self loosening cover and can. 2,867,351, 1-6-59, Cl. 220-43.
- MacLeod, David E., and E. J. Karb, to Carrier Corp. Control device for ice making machines. 2,867,987, 1-13-59, Cl. 62-71.
- MacLeod, David M.: *See*—  
Farmer, Michael H., Tiedje, and MacLeod. 2,906,688.
- MacLeod, Douglas W., and H. V. Selbach, to Farrel-Birmingham Co., Inc. Door closure for rubber mixers or the like. 2,918,905, 12-29-59, Cl. 121-44.
- MacLeod, Gordon A. Camera. 2,902,912, 9-8-59, Cl. 95-31.
- MacLeod, Lester R. Gyrtatory crusher. 2,908,448, 10-13-59, Cl. 241-215.
- MacLeod, Norman A. Shaped cavity explosive charge. 2,892,407, 6-30-59, Cl. 102-24.
- MacMillan & Bloedel Ltd.: *See*—  
Forrest, John R., and Moul. 2,900,098.
- MacMillan, Charles W., to Bear Mfg. Co. Automotive vehicle wheel alignment gauge. 2,883,762, 4-28-59, Cl. 33-203.14.
- MacMillan, Charles W., to Bear Mfg. Co. Bob weight for balance testing of counterbalanced crankshaft. 2,887,902, 5-26-59, Cl. 74-603.
- MacMillan, Charles W., to Bear Mfg. Co. Balance testing device for rotating bodies. 2,891,404, 6-23-59, Cl. 73-458.
- MacMillan, Charles W., to Bear Mfg. Co. Headlight aim testing device. 2,913,825, 11-24-59, Cl. 33-46.
- MacMillan, Donald M. Molds for retreading or recapping vehicle tires. 2,895,166, 7-21-59, Cl. 18-18.
- MacMillan, Donald M. Inside curing rim. 2,896,260, 7-28-59, Cl. 18-45.
- MacMillan, James C. A. Structural toy. 2,910,737, 11-3-59, Cl. 20-1.
- MacMillan, Raymond A.: *See*—  
Czerlinsky, Ernst R., and MacMillan. 2,911,824.
- MacMurphy, Helen: *See*—  
Clark, John. 2,868,133.
- MacMurray, Jess F.: *See*—  
Best, Charles W., Napier, and MacMurray. 2,873,874.
- MacNaught, Donald F., to Bethlehem Steel Co. Tanker bulkhead and compartment construction. 2,918,032, 12-22-59, Cl. 114-78.
- MacNaught, Donald F., and R. A. Jacobson, to Bethlehem Steel Co. Dogging means. 2,901,279, 8-25-59, Cl. 292-256.5.
- Macneale, Neil, to The Procter & Gamble Co. Multiple packages. 2,913,861, 11-24-59, Cl. 53-28.
- MacNeil, James P.: *See*—  
Patton, Paul W., Kelly, and MacNeil. 2,909,148.
- MacNeil, John H., and C. F. West, to United States of America. Air Force. Mercury memory tank. 2,867,789, 1-6-59, Cl. 340-173.
- MacNeil, Robert P., to Aetna Steel Products. Folding chairs. 2,918,963, 12-29-59, Cl. 155-139.
- MacNeill, John B., F. E. Florschutz, and K. L. Niebauer, to Westinghouse Electric Corp. Automatic recloser. 2,892,057, 6-23-59, Cl. 200-97.
- MacNerland, William A.: *See*—  
Day, Leslie, and MacNerland. Re. 24,694.
- MacNevin, William M., to Commonwealth Engineering Co. of Ohio, The. Gas plating of aluminum using aluminum triisobutyl. 2,867,546, 1-6-59, Cl. 117-107.
- Macomber, Inc.: *See*—  
Turner, Douglas, and Macomber. 2,889,875.
- Macomber, Robert C.: *See*—  
Turner, Douglas, and Macomber. 2,889,875.
- Macomson, Wistar W., to Patex Corp. Means for treating web materials. 2,904,981, 9-22-59, Cl. 68-3.
- Macon, John S., to Burlington Industries, Inc. Two-feed knitting machine. 2,911,806, 11-10-59, Cl. 66-42.
- Macormack, James G., to Alumiseal Corp. Insulating structures for refrigerated spaces. 2,885,743, 5-12-59, Cl. 20-4.
- Macovski, Albert: *See*—  
Harris, Bernard, and Macovski. 2,868,975.
- Macovski, Albert, to Radio Corp. of America. Balanced phase detecting circuits. 2,883,452, 4-21-59, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Automatic chroma control. 2,890,272, 6-9-59, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Color burst separation system. 2,891,104, 6-16-59, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. Color television chroma control system. 2,908,748, 10-13-59, Cl. 178-5.4.
- Macovski, Albert, to Radio Corp. of America. High level, color demodulation system. 2,914,604, 11-24-59, Cl. 178-5.4.
- Macovski, Albert, and L. F. Schaefer, to Radio Corp. of America. Chrominance signal amplifier control circuit. 2,913,519, 11-17-59, Cl. 178-5.4.
- Macy, Eugene W., and H. T. Odquist, to American Can Co. Jog limit device. 2,888,626, 5-26-59, Cl. 318-470.
- MacPeck, Donald L., to Union Carbide Corp. Process for preparing monobalooepoxyalkenes. 2,907,774, 10-6-59, Cl. 260-348.
- MacPherson, Arthur R.: *See*—  
Weston, David, MacPherson, Meaders, and Sheldon. 2,916,215.
- MacPherson, Donald R., to Johns-Manville Corp. Indurating compositions for hydraulic cementitious mixtures. 2,892,727, 6-30-59, Cl. 106-88.
- MacPherson, Earle S., to Ford Motor Co. Ball joint suspension for motor vehicle. 2,886,341, 5-12-59, Cl. 280-96.2.
- Macpherson, Robert B., to The Anderson Co. Wiper blade assembly. 2,907,065, 10-6-59, Cl. 15-245.
- MacPherson, William G.: *See*—  
Elder, Max E., Gunderman, MacPherson, and Parker. 2,894,927.
- MacQueen, George A. Ore separator. 2,889,926, 6-9-59, Cl. 209-379.
- MacQueen, Leonard B.: *See*—  
Cooper, Alfred, and MacQueen. 2,888,407.
- MacRae, Ronald L. J.: *See*—  
Partington, Alan, and MacRae. 2,890,873.
- MacSorley, Olin L., to International Business Machines Corp. Time controlled signal discriminator circuit. 2,880,331, 3-31-59, Cl. 307-88.5.
- MacSorley, Olin L., to International Business Machines Corp. Ritz circuit. 2,882,423, 4-14-59, Cl. 307-88.5.
- Macura, Karl: *See*—  
Siggel, Erhard, and Macura. 2,884,443.
- MacWilliams, Walter H., Jr., and R. C. Winans, to Bell Telephone Laboratories, Inc. Electronic probability circuit. 2,870,327, 1-20-59, Cl. 250-27.
- MacWood, George E., to Olin Mathieson Chemical Corp. Process for the recovery of diborane. 2,894,822, 7-14-59, Cl. 23-204.
- Macwood, George E., C. D. Wilder, and D. Altman, to United States of America, Atomic Energy Commission. Process for recovering uranium. 2,879,130, 3-24-59, Cl. 23-14.5.
- Macy, Donald, to Artercraft Venetian Blind Mfg. Co. Combined awning and shutter construction. 2,906,323, 9-29-59, Cl. 160-62.
- Macy, Donald, to Artercraft Venetian Blind Mfg. Co. of St. Louis. Pull cord for roll-up awnings. 2,908,327, 10-13-59, Cl. 160-133.
- Macy, Donald, and H. Nelson, to Artercraft Venetian Blind Mfg. Co. of St. Louis. Roll-up awning supporting bracket. 2,880,795, 4-7-59, Cl. 160-56.
- Macy, James C., to Ideco, Inc. Slide fastener. 2,880,488, 4-7-59, Cl. 24-205.12.
- Macy, Josiah N.: *See*—  
Hand, Leslie T., and Macy. 2,918,277.
- Madaffer, Frank. Bottle smashing device. 2,884,208, 4-28-59, Cl. 241-99.
- Madar, Emile, and P. Dive, to "Comptoir Industriel de Paris," (Societe a Responsabilite Limitee). Full-flow valved nipple. 2,918,084, 12-22-59, Cl. 137-539.
- Madara, Edward J. Paint roller. 2,889,613, 6-9-59, Cl. 29-116.
- Madaras, Ernest and J. Toy spinner of the top type. 2,891,351, 6-23-59, Cl. 46-61.
- Madaras, John: *See*—  
Madaras, Ernest and J. 2,891,351.
- Madaus, John H., and H. B. Urbach, to Olin Mathieson Chemical Corp. Electrolytic production of dichloroformoxime. 2,918,418, 12-22-59, Cl. 204-74.
- Madden Brass Products Co.: *See*—  
Lacart, Rollin H. 2,875,777.
- Madden, Charles C., to Bendix Aviation Corp. Control device and system for an induction throttle valve and supercharger of an aircraft engine. 2,878,797, 3-24-59, Cl. 123-103.
- Madden, Charles L. Flat deck conveyances. 2,872,880, 2-10-59, Cl. 105-368.
- Madden, David W. Guard for punch press or the like. 2,868,569, 1-13-59, Cl. 287-54.1.
- Madden, David W. Boat anchor. 2,887,980, 5-26-59, Cl. 114-208.
- Madden, David W. Guard mechanism. 2,888,123, 5-26-59, Cl. 192-134.
- Madden, Frank J.: *See*—  
Niven, Charles F., Jr., Deibel, and Wilson. 2,907,661.  
Pircon, Ladislav J. 2,896,054.
- Madden, Homer W. Double tier can conveyor. 2,868,350, 1-13-59, Cl. 198-35.
- Madden, John D.: *See*—  
Butterfield, William C., and Madden. 2,892,925.
- Maddock, Alfred G., and F. Smith, to United States of America, Atomic Energy Commission. Separation of plutonium from water insoluble fluorides derived from nitrate solutions of plutonium, uranium and fission products. 2,901,313, 8-25-59, Cl. 23-14.5.



- Maddox, Inez M.: *See*—  
Maddox, Marshall J. 2,884,655.
- Maddox, James, Jr., to The Texas Co. Geomicrobiological prospecting. 2,875,135, 2-24-59, Cl. 195-103.5.
- Maddox, James R.: *See*—  
Fassero, Anthony T., and Maddox. 2,869,180.  
Fassero, Anthony T., and Maddox. 2,915,783.
- Maddox, Marshall J., deceased, by I. M. Maddox, administratrix, to R. I. Maddox. Mop head and handle therefor. 2,884,655, 5-5-59, Cl. 15-144.
- Maddox, Richard I.: *See*—  
Maddox, Marshall J. 2,884,655.
- Maddux, Duane C. Tube end closing apparatus. 2,881,727, 4-14-59, Cl. 113-44.
- Madeira, John R.: *See*—  
Bergmann, Ernst R., and Madeira. 2,904,164.  
Lo Presti, Roy F., and Madeira. 2,875,886.
- Madeira, John R., to Goodman Mfg. Co. Rope clamp for rope frame conveyor. 2,903,769, 9-15-59, Cl. 24-125.
- Madeira, John R., to Goodman Mfg. Co. Belt conveyor troughing roller assembly and locking means therefor. 2,903,771, 9-15-59, Cl. 24-126.
- Madeline, Raymond G., and J. F. Pathus-Labour, to Firma Deutsche Erdoel A.G. Fireproofing textiles and the like. 2,907,683, 10-6-59, Cl. 117-136.
- Madeley, Paul E.: *See*—  
Erath, Louis W., and Madeley. 2,902,107.
- Mader, Albert C.: *See*—  
Van Tuyl, John E. 2,874,719.
- Mader, Lyle W.: *See*—  
Wesslund, Robert E., Mader, and Johnson. 2,874,372.
- Mader, Stewart S.: *See*—  
Silven, Herbert A., and Mader. Re. 24,744.
- Mades, Karl R. Variable pitch marine propeller. 2,916,095, 12-8-59, Cl. 170-160.34.
- Madge, Joachim: *See*—  
Heidecke, Reinhold, Bretthauer, and Madge. 2,869,396.  
Heidecke, Reinhold, Bretthauer, and Madge. 2,912,912.
- Madison, Ann-Mari: *See*—  
Rhoda, Richard N., and Madison. 2,915,406.
- Madison Equipment Co., The: *See*—  
Atkinson, Earl B. 2,917,917.
- Madison, James J., and F. B. Wilson. Road surfacing machine. 2,890,632, 6-16-59, Cl. 94-46.
- Madison, Richard K., and G. K. Bellis, to American Cyanamid Co. 1,4-bis-(2,2-dimethyl-3-carboxycyclobutyl) butane. 2,887,510, 5-19-59, Cl. 260-514.
- Madison, Robert W.: *See*—  
Lusti, John, and Madison. 2,903,093.
- Madison Silo Co.: *See*—  
Anderson, William R. 2,911,116.
- Madland, Glen R., and R. G. Worobey, to Motorola, Inc. Radiosonde. 2,915,624, 12-1-59, Cl. 250-17.
- Madonna, Oronzio. Mechanical apparatus for micrometric tuning of piano strings. 2,917,961, 12-22-59, Cl. 84-204.
- Madono, Osamu. Method of manufacturing ductile high aluminum iron alloy. 2,886,428, 5-12-59, Cl. 75-12.
- Mador, Irving L.: *See*—  
Lum, David W., and Mador. 2,917,545.
- Mador, Irving L., to National Distillers and Chemical Corp. Reaction of diazo compounds. 2,908,727, 10-13-59, Cl. 260-668.
- Mador, Irving L., and R. E. Robinson, to National Distillers and Chemical Corp. Reaction of alkali metals with epoxides. 2,915,562, 12-1-59, Cl. 260-618.
- Madsen, Arthur M., Jr. Automatic dental coolant attachment. 2,902,762, 9-8-59, Cl. 32-28.
- Madsen, Berthel F., to Teletype Corp. Space suppression bypass. 2,886,637, 5-12-59, Cl. 178-25.
- Madsen, Berthel F., to Teletype Corp. Shift mechanism. 2,909,603, 10-20-59, Cl. 178-40.
- Madsen, Ida D. A.: *See*—  
Madsen, Tage D. 2,910,332.
- Madsen, Jens A. W., to Albertson & Co., Inc. Rotary impact wrench mechanism. 2,886,997, 5-19-59, Cl. 81-52.3.
- Madsen, Jens A. W., to Albertson & Co., Inc. Power operated magazine-type socket wrench attachment. 2,895,360, 7-21-59, Cl. 81-57.
- Madsen, Jens A. W., to Albertson & Co., Inc. Magazine-type socket wrench. 2,896,489, 7-28-59, Cl. 81-124.1.
- Madsen, Jens A. W., to Albertson & Co., Inc. Spindle lock. 2,909,249, 10-20-59, Cl. 188-174.
- Madsen, Kurt P. H.: *See*—  
Madsen, Tage D. 2,910,332.
- Madsen, Paul S.: *See*—  
Gow, Arthur R., and Madsen. 2,906,533.
- Madsen, Peter A. Liquid level signaling device. 2,910,097, 10-27-59, Cl. 141-96.
- Madsen, Tage D., deceased, by I. D. A. and K. P. H. Madsen, sole inheritors, to Aktiebolaget Davy Robertsons Maskinfabrik. Composed packing rings, particularly in piston rings for internal combustion engines. 2,910,332, 10-27-59, Cl. 309-44.
- Madsen, Walter M. Dust collector. 2,878,893, 3-24-59, Cl. 163-80.
- Maeda, Masayasu: *See*—  
Matsumoto, Masakazu, Maeda, and Osugi. 2,909,502.
- Maeder, Arthur: *See*—  
Aenishaenslin, Rudolf, and Maeder. 2,879,181.  
Sallmann, Richard, Maeder, Porret, Leumann, and Albrecht. 2,885,387.  
Sallmann, Richard, Maeder, Porret, Leumann, and Albrecht. 2,885,388.  
Sulzer, Georg, Guertler, Fatzer, and Maeder. 2,888,420.  
Sulzer, Georg, Guertler, Fatzer, and Maeder. 2,898,239.
- Maeder, Arthur, to Ciba Ltd. Phosphorus compounds. 2,894,019, 7-7-59, Cl. 260-461.
- Maeder, Arthur, to Ciba Ltd. Salts of hydrolyzed polyacrylate esters and solutions thereof. 2,897,172, 7-28-59, Cl. 260-33.4.
- Maeder, Arthur, and O. Albrecht, to Ciba Ltd. New polymerizable vinyl ether quaternary ammonium compounds. 2,897,200, 7-28-59, Cl. 260-247.2.
- Maeder, Heinz-Jochem, to Klockner-Humboldt-Deutz Akt. Shaking sieve device with transverse girders for the sieve plate. 2,883,051, 4-21-59, Cl. 209-269.
- Maeder, Werner: *See*—  
Gewis, Max, Maeder, and Teher. 2,887,750.
- Maerker, Helmut. Rotational speed responsive device. 2,868,917, 1-13-59, Cl. 200-80.
- Maerkle, George P., to Fisher Radio Corp. Transducer circuits. 2,876,420, 3-3-59, Cl. 332-2.
- Maertens, Leopold J. Steel casting process and means for carrying out the same. 2,895,189, 7-21-59, Cl. 22-57.2.
- Maescher, Albert, to Cardel Electric Co. Inc. Silk screen print dryer. 2,907,118, 10-6-59, Cl. 34-155.
- Maeser, Mieth: *See*—  
Alderman, Leon D., Hobbs, and Maeser. 2,896,208.
- Maeser, Mieth, and F. S. Sillars, to United Shoe Machinery Corp. Seam structures. 2,902,961, 9-8-59, Cl. 112-262.
- Maeser, Mieth, and F. S. Sillars, to United Shoe Machinery Corp. Machines and methods for uniting multiple layers of work. 2,903,983, 9-15-59, Cl. 112-43.
- Maffei, Alessandro. Method for producing round-cornered cabinets and like pieces of furniture. 2,890,731, 6-16-59, Cl. 144-309.
- Maffei, John A., and W. H. Lautz. Automatic cooking devices. 2,889,786, 6-9-59, Cl. 107-60.
- Maffet, Vere, to E. I. du Pont de Nemours and Co. Silver halide emulsions and processes for preparing same. 2,910,359, 10-27-59, Cl. 96-87.
- Magaraci, Anthony F., to United States of America, Navy. Quadrature voltage eliminating motor control circuit. 2,917,690, 12-15-59, Cl. 318-30.
- Magasiny, Irving P., to Tele-Dynamics Inc. Automatic compensation in a telemetric system. 2,915,741, 12-1-59, Cl. 340-207.
- Magdziarz, Frank F. Automobile cigarette light quencher and ashtray. 2,888,936, 6-2-59, Cl. 131-237.
- Mageau, George J., Jr., to Buxton, Inc. Key case. 2,874,740, 2-24-59, Cl. 150-40.
- Magee Carpet Co., The: *See*—  
Park, Orrin J., and Cotner. 2,896,671.  
Park, Orrin J., and Cotner. 2,918,944.  
Penman, Montgomery B. 2,898,876.
- Magee, Charles F.: *See*—  
Carlsen, Leonard O., Critchley, and Magee. 2,869,427.
- Magee, Edward B. Fairlead. 2,919,110, 12-29-59, Cl. 254-190.
- Magee, Gertrude M. Flat iron rest. 2,900,748, 8-25-59, Cl. 38-107.
- Magee-Hale Park-O-Meter Co.: *See*—  
Hamilton, Robert W. 2,897,938.  
Hamilton, Robert W. 2,901,078.
- Magee, Marvin H. Home overhead car washer. 2,887,121, 5-19-59, Cl. 137-355.23.
- Magee, Russell M.: *See*—  
Alexander, William W., and Magee. 2,908,246.
- Magel, Theodore T., to United States of America, Atomic Energy Commission. Apparatus for high purity metal recovery. 2,873,108, 2-10-59, Cl. 266-15.
- Magel, Theodore T., to United States of America, Atomic Energy Commission. Deposition of metal on nonmetal filament. 2,873,185, 2-10-59, Cl. 75-84.
- Magel, Theodore T., to United States of America, Atomic Energy Commission. Process of producing actinide metals. 2,894,832, 7-14-59, Cl. 75-84.1.
- Magel, Theodore T., to United States of America, Atomic Energy Commission. Method of producing dense consolidated metallic regulus. 2,899,297, 8-11-59, Cl. 75-84.1.
- Magel, Theodore T., and L. Brewer, to United States of America, Atomic Energy Commission. Thermal decomposition of uranium compounds. 2,873,184, 2-10-59, Cl. 75-84.
- Mageoch, Harry Y., to H. K. Porter Co., Inc. Vehicle destination sign mechanism. 2,896,873, 7-28-59, Cl. 242-67.  
7-7-59, Cl. 93-36.
- Mager, Herbert. Explosive cartridge. 2,887,953, 5-26-59, Cl. 102-24.
- Magerlein, Barney J.: *See*—  
Fonken, Gunther S., Hogg, and Magerlein. 2,880,204.  
Fonken, Gunther S., Hogg, and Magerlein. 2,880,215.  
Spero, George B., Magerlein, Schneider, and Hogg. 2,884,420.
- Magerlein, Barney J., to The Upjohn Co. Intermediates for the production of 19-norhydrocortisone. 2,913,456, 11-17-59, Cl. 260-239.55.



- Magerlein, Barney J., and G. B. Spero, to The Upjohn Co. 6 $\alpha$ -methyl-11 $\beta$ ,21-dihydroxy-4-pregnene-3-one and 21-hydrocarbon carboxylic acid esters thereof. 2,883,402, 4-21-59, Cl. 260—397.45.
- Magerlein, Barney J., G. B. Spero, J. A. Hogg, and W. P. Schneider, to The Upjohn Co. 6-fluoro-17 $\alpha$ ,21-epoxy-4-pregnenes. 2,884,421, 4-28-59, Cl. 260—239.55.
- Magg, Alfred H., R. Jedlitschka, A. Schrode, and J. Schmah, to Zahnradfabrik Friedrichshafen. Gear shifting mechanism. 2,906,138, 9-29-59, Cl. 74—473.
- Maggio, John S. Animal trap. 2,885,820, 5-12-59, Cl. 43—61.
- Maggiolo, Allison: *See*—
- Niegowski, Sigismund J., and Maggiolo. 2,897,231.
- Maggioli & C. Società per Azioni: *See*—
- Cavallini, Guido, and Massarani. 2,878,291.
- Cavallini, Guido, and Massarani. 2,895,963.
- Magill, Donald G., to American Can Co. Method of preparing a container for shipment and subsequent use. 2,893,295.
- Magill, Donald G., Jr., to Riegel Paper Corp. Method of making resin impregnated paper. 2,895,868, 7-21-59, Cl. 92—21.
- Magin, Kenneth E., and G. D. Stuewer, to Socony Mobil Oil Co., Inc. Method and apparatus for granular solids transfer. 2,889,271, 6-2-59, Cl. 208—173.
- Magin, Sidney H. A., to D. Napier & Son Ltd. Turbo machines having adjustable guide blades. 2,917,275, 12-15-59, Cl. 253—78.
- Magna, Peter S., and W. E. McCormick, to United States Steel Corp. Dual-hopper apparatus for filling containers. 2,874,737, 2-24-59, Cl. 141—263.
- Magnani, Alessandro, to Etablissement pour Matériaux de Construction, and F. L. Smith & Co., A/S. Sleeve joint with resilient spacing means. 2,914,347, 11-24-59, Cl. 285—349.
- Magnat Machinery & Pattern Corp.: *See*—
- Mengel, William R. 2,890,517.
- Magnavox Co., The: *See*—
- Armstrong, Philip N., and Wiener. 2,905,465.
- Arsenault, William R., Garfein, and Thorensen. 2,905,834.
- Azari, Eric. Gray, Malin, and Thompson. 2,905,466.
- Bair, Murray W. 2,891,449.
- Buecker, Carl H. 2,887,623.
- Buecker, Carl H. 2,891,447.
- Gray, Alfred E., Malin, and Thompson. 2,883,188.
- Hoekstra, Cyrus E. 2,910,263.
- Hughes, Donald N. 2,891,398.
- Koontz, John C. 2,873,678.
- Orner, Allan. 2,901,247.
- Severance, Ralph H. 2,873,680.
- Severance, Ralph H. 2,887,057.
- Severance, Ralph H. 2,894,457.
- Thomas, Stephen E. 2,897,414.
- Wendling, John. 2,913,073.
- Wilson, Loren R. 2,883,189.
- Magneat, Rene P., to Waterbury Companies, Inc. Locking means for photo slide case. 2,906,579, 9-29-59, Cl. 312—309.
- Magner, John M. Monsanto Chemical Co. Pesticides. 2,901,393, 8-25-59, Cl. 167—30.
- Magnesium Elektron Ltd.: *See*—
- Fisher, Philip A. 2,872,179.
- Whitehead, Derek J., and Emley. 2,919,190.
- Magness, James F.: *See*—
- Goddin, Clifton S., Jr., and Magness. 2,898,362.
- Goddin, Clifton S., Jr., and Magness. 2,902,508.
- Magness, James F., to Pan American Petroleum Corp. Fines handling process. 2,877,107, 3-10-59, Cl. 75—35.
- Magnet Cove Barium Corp.: *See*—
- Reddie, William A. 2,885,358.
- Van Dyke, Orlen W. 2,895,911.
- Magnetic Analysis Corp.: *See*—
- Callan, Joseph M., and Germann. 2,918,621.
- Callan, Joseph M., and Spierer. 2,889,513.
- Magnetic Heating Corp.: *See*—
- Kohler, Fred, and Rudd. 2,919,342.
- Rudd, Wallace C. 2,873,353.
- Rudd, Wallace C. 2,876,323.
- Rudd, Wallace C. 2,886,691.
- Rudd, Wallace C. 2,892,914.
- Rudd, Wallace C. 2,919,343.
- Rudd, Wallace C., Cameron, and Osterer. 2,898,440.
- Rudd, Wallace C., and Stanton. 2,904,668.
- Stanton, Robert J., and Rudd. 2,887,560.
- Magnetic Metals Co.: *See*—
- Brownell, Harry R. 2,907,914.
- Magnetic Precision Controls Inc.: *See*—
- Mamon, Michel. 2,870,268.
- Magnetic Seal Corp.: *See*—
- Stevenson, Robert. 2,913,289.
- Magnetrol, Inc.: *See*—
- Binford, Benjamin L. 2,911,830.
- Magni, Gustav A. Autoclaves. 2,880,482, 4-7-59, Cl. 21—95.
- Magnin, Jean P., to Schlumberger Well Surveying Corp. Minimum rebalance time on-off control system. 2,906,933, 9-29-59, Cl. 318—28.
- Magni-Power Co.: *See*—
- Martin, William C., Jr. 2,896,991.
- Martin, William C., Jr. 2,912,106.
- Magnus, Elmer G.: *See*—
- Hawk, Le Roy R., Magnus, and Manion. 2,873,663.
- Hawk, Le Roy R., Magnus, and Manion. 2,912,330.
- Magnus, Finn H. Fish lure. 2,867,934, 1-13-59, Cl. 43—12.35.
- Magnus, Finn H. Display stand. 2,899,078, 8-11-59, Cl. 211—60.
- Magnus, Oscar F., to American Brake Shoe Co. Blowers for railway switches. 2,898,062, 8-4-59, Cl. 246—428.
- Magnuski, Henry, and A. J. Affrunti, to Motorola, Inc. Communication system. 2,892,930, 6-30-59, Cl. 250—15.
- Magnusson, Adolph L.: *See*—
- Miller, Aaron, and Magnusson. 2,913,364.
- Magnusson, Dale W., and De F. F. Smith, to United States of America, Atomic Energy Commission. Method for stabilizing klystrons. 2,882,442, 4-14-59, Cl. 315—518.
- Magnusson, Genevieve I.: *See*—
- Cowan, Tyson G. 2,870,585.
- Magnusson, Roy M. 2,889,856.
- Magnusson, Roy M. 2,910,392.
- Magnusson, Roy M., and Smith. 2,889,986.
- Magnusson, Roy M., and Smith. 2,910,393.
- Magnusson, Merriell P., and A. W. Elletson. Food packing device. 2,914,796, 12-1-59, Cl. 17—39.
- Magnusson, Raymond A., and N. M. Christiansen, to Vogel-Peterson Co. Garment rack. 2,894,644, 7-14-59, Cl. 211—177.
- Magnusson, Roland A., to United States of America, Army. High pressure pneumatic cylinder. 2,911,209, 11-3-59, Cl. 267—65.
- Magnusson, Roy M.: *See*—
- Cowan, Tyson G. 2,870,585.
- Magnusson, Roy M., deceased; G. I. Magnusson, executrix. Apparatus and methods of filling measured amounts of viscous liquids or finely divided solids. 2,889,856, 6-9-59, Cl. 141—5.
- Magnusson, Roy M., deceased; G. I. Magnusson, executrix,  $\frac{1}{2}$  to California Packing Corp. Method of removing the skin of fruit and vegetable articles. 2,910,392, 10-27-59, Cl. 146—241.
- Magnusson, Roy M., deceased, and T. J. Smith; said Smith assor., to said Magnusson; G. I. Magnusson, executrix of said R. M. Magnusson. Counting mechanism for use in canneries and the like. 2,889,986, 6-9-59, Cl. 235—98.
- Magnusson, Roy M., deceased (G. I. Magnusson, executrix), and T. J. Smith,  $\frac{1}{2}$  to California Packing Corp. and  $\frac{1}{2}$  to G. I. Magnusson. Process for loosening the skins of fruits and vegetables. 2,910,393, 10-27-59, Cl. 146—241.
- Magnusson, Vernon P., G. E. Hagen, and C. R. Williams, to Northrop Corp. Graph plotter. 2,912,160, 11-10-59, Cl. 235—58.
- Magnusson, Erik: *See*—
- Helin, Elis E. V., and Magnusson. 2,876,151.
- Magor Car Corp.: *See*—
- Lunde, Einar O. 2,893,327.
- Magor, Leslie H., to Aluminum Body Corp. Construction of vehicular bodies. 2,910,322, 10-27-59, Cl. 296—28.
- Magor, Lincoln S., to Retor Developments Ltd. Spool valve adjustment. 2,903,233, 9-8-59, Cl. 251—3.
- Magovern, Robert L., and H. C. Ries, to Shell Development Co. Apparatus for vaporizing liquids. 2,893,359, 7-7-59, Cl. 122—28.
- Magrath, William B., and H. J. Goetz, to Door-Oliver Inc. Method and apparatus for the continuous purification of liquids. 2,878,935, 3-24-59, Cl. 210—82.
- Magruder, William R., and C. W. Gomerding, to Injection Molding Co. Apparatus for treating polyethylene containers for printing. 2,894,139, 7-7-59, Cl. 250—49.5.
- Maguire Industries, Inc.: *See*—
- Falkenberg, Charles W., and Johnson. 2,891,873.
- Maguire, J. J.: *See*—
- Friedman, Herbert. 2,901,629.
- Maguire, J. J., Co.: *See*—
- Friedman, Herbert. 2,879,399.
- Friedman, Herbert. 2,901,629.
- Maguire, John, to Duo-Bed Corp. Adjustable frame support. 2,880,448, 4-7-59, Cl. 16—19.
- Maguire, Milton J. Paper making machine. 2,888,378, 5-26-59, Cl. 162—210.
- Maha, Otto J., to Parker-Hannifin Corp. Sealing apparatus. 2,907,596, 10-6-59, Cl. 286—26.
- Mahady, John J., to United States Rubber Co. Method of making hose with sealing rings attached at each end. 2,917,102, 12-15-59, Cl. 154—8.
- Maham, Carl E. Hold-down device. 2,895,705, 7-21-59, Cl. 248—361.
- Mahan, John E., to Phillips Petroleum Co. Production of substituted pyridines. 2,877,228, 3-10-59, Cl. 260—290.
- Mahan, John E., to Phillips Petroleum Co. Stabilization of vinylpyridines. 2,893,995, 7-7-59, Cl. 260—290.
- Mahan, John E., and C. W. Osborn, to Phillips Petroleum Co. Polycyclic alcohols prepared by ethynylation of a condensation product of a diolefin and a furfural. 2,884,316, 4-28-59, Cl. 71—25.
- Mahan, Laban A., and O. L. Lee. Model railroad turntable. 2,911,922, 11-10-59, Cl. 104—38.
- Maher, Edwin C. Fabricated pallet and spacer therefor. 2,918,241, 12-22-59, Cl. 248—120.
- Maher, Joseph L., to National Tank Co. Methods and means for low temperature separation of liquid hydrocarbons from natural gas. 2,873,814, 2-17-59, Cl. 183—27.
- Mahle, Hermann. Light alloy piston. 2,882,107, 4-14-59, Cl. 309—13.



- Mahle Kommandit-Gesellschaft: *See*—  
Hermann, Gerhard. 2,869,946.
- Mahler, Benjamin B.: *See*—  
Dodington, Sven H. M., and Mahler. 2,912,686.
- Mahler, Charles J., M. P. White, and R. B. Immel, to Westinghouse Electric Corp. Mounting means for contact members. 2,871,322, 1-27-59, Cl. 200—166.
- Mahler, Charles J., and M. P. White, to Westinghouse Electric Corp. Mounting means for contact members. 2,871,323, 1-27-59, Cl. 200—166.
- Mahler, George T., to The New Jersey Zinc Co. Recovery of titanium tetrachloride. 2,870,869, 1-27-59, Cl. 183—120.
- Mahler, Harold: *See*—  
Ganz, Daniel M. 2,869,732.
- Mahler, William S.: *See*—  
Dry, John D. 2,879,021.
- Mahlfeldt, Walter: *See*—  
Behrens, Heinz, and Mahlfeldt. 2,882,024.
- Mahlmeister, Louis J., to The Sheffield Corp. Gauging device. 2,878,572, 3-24-59, Cl. 33—174.
- Mahlmeister, Raymond A., to The Sheffield Corp. Gaging device. 2,903,796, 9-15-59, Cl. 33—147.
- Mahn, George R., to General Electric Co. Cathode assembly. 2,914,692, 11-24-59, Cl. 313—82.
- Maho, Jacques. Diffusing ducts for the ventilation of cereals or granular products stored in silos or warehouses. 2,906,190, 9-29-59, Cl. 98—56.
- Mahon, Joseph E., E. M. Walter, and C. C. Heyer. Neon tubing support. 2,885,538, 5-5-59, Cl. 240—11.4.
- Mahon, R. C., Co., The: *See*—  
Cross, Earl F. 2,871,998.
- Mahon, Thomas J., and A. L. Edelstein, to Association for Physiologic Research, Inc. Dispenser for materials in liquid and semisolid states. 2,895,650, 7-21-59, Cl. 222—387.
- Mahon, Thomas J., and A. L. Edelstein, to Association for Physiologic Research, Inc. Dispensing device. 2,895,651, 7-21-59, Cl. 222—399.
- Mahon, William J., and J. H. Wilson, to General Electric Co. Apparatus for internally coating articles. 2,879,740, 3-31-59, Cl. 118—49.
- Mahoney, Clarence L., to Shell Development Co. Method for oxidizing carbonaceous deposits. 2,882,237, 4-14-59, Cl. 252—186.
- Mahoney, Donald G.: *See*—  
Key, Don E., and Mahoney. 2,880,896.
- Mahoney, Edward T. Blade holders. 2,869,233, 1-20-59, Cl. 30—162.
- Mahoney, Frederick G. Adjustable handle on a hand implement. 2,887,710, 5-26-59, Cl. 15—172.
- Mahoney, James A. Package for incandescent lamps. 2,869,720, 1-20-59, Cl. 206—65.
- Mabut, René, J. Muller, and J. Sauteron, to Commissariat à l'Energie Atomique. Method of separating uranium and thorium from each other. 2,905,524, 9-22-59, Cl. 23—14.5.
- Maico Electronics, Inc.: *See*—  
Hogan, John W. 2,913,662.
- Mullin, Clayton D., and Rose. 2,904,639.
- Rose, John F. 2,916,538.
- Maiden Form Brassiere Co., Inc.: *See*—  
Coleman, Beatrice, Pioli, and Silvani. 2,888,930.
- Rosenthal, William. 2,892,459.
- Vuilleminot, Robert P. 2,894,673.
- Maid-O'-Mist Inc.: *See*—  
Heathman, Charles M. 2,888,252.
- Maier, Albert: *See*—  
Straub, Hermann, Belg, Maier, and Wiedmann. 2,889,530.
- Zittrell, Anton, and Maier. 2,900,059.
- Maier, Albert, to Zahnradfabrik Friedrichshafen. Multi-speed gear transmission. 2,897,690, 8-4-59, Cl. 74—720.
- Maier, Alfred, to Robert Bosch, G.m.b.H. Electrical apparatus. 2,896,049, 7-21-59, Cl. 200—113.
- Maier, Alfred E., and J. H. Taylor, to Westinghouse Electric Corp. Circuit breaker. 2,883,585, 4-21-59, Cl. 317—22.
- Maier, Dale E., to Borg-Warner Corp. Power driven wrench with reverse rotation limiting means. 2,900,856, 8-25-59, Cl. 81—54.
- Maier, Erich R. F.: *See*—  
Costa, Leo. 2,905,131.
- Maier-Huser, Hans, and R. Bourrillon, to Societe de l'Institut de Serotherapie. Method of producing the highly purified luteinizing gonadotropic factor. 2,894,875, 7-14-59, Cl. 167—74.
- Maier, John, III: *See*—  
Oyler, Glenn W., and Maier. 2,886,692.
- Oyler, Glenn W., and Maier. 2,890,322.
- Oyler, Glenn W., Maier, and Reed. 2,884,510.
- Reed, Thomas B., Maier, and Oyler. 2,874,265.
- Maier, Karl, J. Eisele, and W. Federkiel, to Badische Anilin- & Soda-Fabrik Akt. Amine salts of anthraquinone sulfonic acid compounds. 2,913,465, 11-17-59, Cl. 260—367.
- Maier, Karl W., to Olin Mathieson Chemical Corp. Cartridge actuated tool. 2,872,682, 2-10-59, Cl. 1—44.5.
- Maier, Karl W., to Northrop Aircraft, Inc. First round recoil reducer for automatic guns. 2,876,681, 3-10-59, Cl. 89—198.
- Maier, Karl W., to Olin Mathieson Chemical Corp. Hammer and buffer mechanism. 2,877,750, 3-17-59, Cl. 123—7.
- Maier, Karl W., to Olin Mathieson Chemical Corp. Buffer mechanism. 2,879,986, 3-31-59, Cl. 267—1.
- Maier, Robert, to American Feldmuehle Corp. Thread guide. 2,900,144, 8-18-59, Cl. 242—153.
- Maiershofer, Karl M., to G-M Laboratories Inc. Flash unit. 2,886,792, 5-12-59, Cl. 339—45.
- Maiga, Albert: *See*—  
Barber, Alfred E., and Maiga. 2,917,260.
- Maikowski, Michael A.: *See*—  
Erbe, Friedrich, Kaufmann, and Maikowski. 2,881,049.
- Mailhot, Harold J.: *See*—  
Vanderpoel, Albert G. H., and Mailhot. 2,876,793.
- Maillard, Bernard, to Brevets Aero-Mecaniques S. A. Feed devices for automatic guns supplied with ammunition in the form of a cartridge belt. 2,873,649, 2-17-59, Cl. 89—33.
- Maillard, Bernard, to Brevets Aero-Mecaniques, S.A. Trigger mechanisms for recoiling automatic guns of the open breech type. 2,905,058, 9-22-59, Cl. 89—150.
- Maillard, Bernard, to Brevets Aero-Mecaniques S.A. Regulating means for a gas piston operated gun. 2,918,848, 12-29-59, Cl. 89—193.
- Maillard, Gabriel: *See*—  
Joullie, Maurice, Laure, Maillard, and Muller. 2,894,039.
- Maille, Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédes Georges Claude. Gas-liquid contacting apparatus. 2,884,236, 4-28-59, Cl. 261—114.
- Main Alloy Company Establishment (Mace): *See*—  
Neu, Willi. 2,870,008.
- Mainers, Artez F. Article dispenser. 2,880,907, 4-7-59, Cl. 221—299.
- Mainland, John G.: *See*—  
Wotring, John A., and Mainland. 2,898,863.
- Maintain, Russell E.: *See*—  
Galassi, Francis J. 2,909,287.
- Mainwaring, Gareth: *See*—  
Ferguson, Harold M., and Mainwaring. 2,913,702.
- Maio, Nicola. Slide fastener attachment. 2,887,752, 5-26-59, Cl. 24—205.15.
- Maione, Theodore L., to Bell Telephone Laboratories, Inc. Equivalent four-wire repeaters. 2,875,283, 2-24-59, Cl. 179—170.
- Maiorino, Gennaro S., to Bausch & Lomb Optical Co. Microscope fine adjustment mechanism. 2,891,446, 6-23-59, Cl. 88—39.
- Mair, James, to Goslin-Birmingham Mfg. Co., Inc. Evaporator. 2,872,974, 2-10-59, Cl. 159—20.
- Mairo, Inc.: *See*—  
Good, Arthur L. 2,874,924.
- Maire, Georges, to Tavannes Watch Co. S. A. Watch movement. 2,872,775, 2-10-59, Cl. 58—59.
- Mais, Adolf R., to Aktiebolaget Hagglund & Soner. Quick action switch. 2,916,575, 12-8-59, Cl. 200—76.
- Maisch, Oliver. Rotary shaft seal. 2,899,244, 8-11-59, Cl. 308—36.2.
- Maisch, Oliver. Automatic vent valve. 2,908,282, 10-13-59, Cl. 137—199.
- Maisch, Oliver. Rotary pump. 2,909,124, 10-20-59, Cl. 103—126.
- Maisel, Bernard, 1/2 to Cornell Research Foundation, Inc., and 1/2 to New York Heart Association, Inc. Operating table apparatus for gravity exposure of the heart. 2,897,029, 7-28-59, Cl. 311—77.
- Maisel, Daniel S.: *See*—  
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- Maisel, Daniel S., to Esso Research and Engineering Co. Benzene recovery from mixed steam cracked hydroformate feed utilizing prefractionation. 2,890,154, 6-9-59, Cl. 202—39.5.
- Maish, George O.: *See*—  
Nieman, Henry W., and Maish. 2,888,901.
- Maish, Jay H., to The Jay H. Maish Co. Mailing pieces. 2,909,313, 10-20-59, Cl. 229—92.8.
- Maish, Jay H., Co., The: *See*—  
Maish, Jay H. 2,909,313.
- Maison, George L.: *See*—  
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- Maison Tschanz Comptoir de la Parfumerie S. A.: *See*—  
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- Maitino, Fred P., to General Dry Batteries Co., a division of P. R. Mallory & Co., Inc. Automatic battery making machine. 2,883,815, 4-28-59, Cl. 53—239.
- Maitland, Peter M., and M. Anritter, to Van Brode Milling Co., Inc. Battery hold-down device. 2,918,983, 12-29-59, Cl. 180—68.5.
- Maitzen, Richard P. Heating apparatus. 2,904,098, 9-15-59, Cl. 154—1.
- Maize, James A.: *See*—  
Anderson, Carl F., and Maize. 2,904,631.
- Maize, Paul F., and A. Yurka, Jr., to The Cyril Bath Co. Rapid cycle radial draw former. 2,881,821, 4-14-59, Cl. 153—40.
- Majac, Inc.: *See*—  
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- Majer, Christian. Method and machine for making paper tubes. 2,897,731, 8-4-59, Cl. 93—79.
- Majewski, John V.: *See*—  
Bertling, Ronald J., and Majewski. 2,916,237.
- Majkrzak, Charles P., to International Telephone and Telegraph Corp. Sliding contact device for tuning coils. 2,895,115, 7-14-59, Cl. 336—116.
- Majneri, Ludwig A. Bleeder valve structure. 2,892,614, 6-30-59, Cl. 251—347.



- Major, Charles W. Dual firing spark plug. 2,890,365, 6-9-59, Cl. 313-123.
- Major Engineering Corp.: *See*—  
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- Major, Stephen C.: *See*—  
Wright, Wayne E., Fitz Gibbons, and Major. 2,885,523.
- Major, Stephen C., and E. Yarotsky, to Sprague Electric Co. Electrical component and casting arrangement. 2,885,522, 5-5-59, Cl. 201-64.
- Majusick, Walter. Static line release. 2,900,206, 8-18-59, Cl. 294-83.
- Mak Maschinenbau Kiel Akt.: *See*—  
Krause, August. 2,883,823.
- Makara, Frank: *See*—  
Shelare, Robert F., and Makara. 2,884,716.
- Makela, Armas G., and C. P. McClelland, to General Motors Corp. Windshield cleaner. 2,910,716, 11-3-59, Cl. 15-255.
- Maker, Paul, to Bryant Chucking Grinder Co. Process control apparatus. 2,897,638, 8-4-59, Cl. 51-165.
- Makhtsavi Israel: *See*—  
Baniel, Abraham, and Blumberg. 2,880,063.  
Baniel, Abraham, and Blumberg. 2,894,813.  
Baniel, Abraham, and Blumberg. 2,902,341.
- Maki, Edwin C., to International Harvester Co. Counterbalancing means for hydraulically operated clutch. 2,876,743, 3-10-59, Cl. 121-38.
- Maki, Jacob K., and A. E. Rockwood, to Simplex Time Recorder Co. Tag printing apparatus. 2,907,275, 10-6-59, Cl. 101-413.
- Maki, John W. Engine lubricating system. 2,889,821, 6-9-59, Cl. 123-196.
- Makous, Lawrence, to A. O. Smith Corp. Resistance and temperature determinations of a motor winding. 2,912,644, 11-10-59, Cl. 324-62.
- Makovic, Frank J., Jr., and A. W. Goralske, to Libbey-Owens-Ford Glass Co. Apparatus for pressing curved glass laminations. 2,893,905, 7-7-59, Cl. 154-27.
- Makower, Benjamin: *See*—  
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- Makower, Benjamin, and T. H. Schulz, to United States of America, Agriculture. Process for preparing a solid flavoring composition. 2,899,313, 8-11-59, Cl. 99-140.
- Makower, Rachel U., to United States of America, Agriculture. Inactivation of enzymes in plant tissue. 2,890,120, 6-9-59, Cl. 99-154.
- Makowski, Günther, to Siemens & Halske Akt. Electromagnetic relay. 2,867,756, 1-6-59, Cl. 317-187.
- Makowsky, Jerzy, to Fairchild Engine and Airplane Corp. Invertible evaporator. 2,867,991, 1-13-59, Cl. 62-169.
- Makrides, Constantine G., to Emerson Radio & Phonograph Corp. Mail handling apparatus. 2,905,309, 9-22-59, Cl. 198-31.
- Malachick, Joseph A. Dispenser for bread crumbs and other food. 2,878,971, 3-24-59, Cl. 222-183.
- Malachowsky, Harry M. Reinforced rolling mill rolls. 2,871,737, 2-3-59, Cl. 80-58.
- Malan, George L. Vibrator. 2,891,775, 6-23-59, Cl. 259-1.
- Malaquin, Andre, to Society called: Societe Industrielle de Liaisons Electriques (S.I.L.E.C.). Torsional vibration damper. 2,916,280, 12-8-59, Cl. 267-1.
- Malary, Robert R., Jr. Sandwich construction for seaplane floats. 2,909,791, 10-27-59, Cl. 9-6.
- Malasky, John: *See*—  
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- Malavazos, Arthur J., to Friden, Inc. Back transfer mechanism. 2,909,320, 10-20-59, Cl. 235-63.
- Malavazos, Arthur J., and N. F. Hawthorne, to Friden, Inc. Duplex recording calculator with value transfer mechanism. 2,911,142, 11-3-59, Cl. 235-60.34.
- Malchow, Max E., to Radio Corp. of America. Semi-conductor squelch circuit. 2,904,678, 9-15-59, Cl. 250-20.
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- Malco Tool & Mfg. Co.: *See*—  
Harris, Thomas R. 2,871,551.  
Narozny, Ronald S. 2,877,441.
- Malcolm, Robert H., to International Harvester Co. Pump lubrication means. 2,902,012, 9-1-59, Cl. 123-41.86.
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- Malcom, Glen, and M. Behrman, to The Reliance Electric & Engineering Co. Spinning frame drive. 2,885,898, 5-12-59, Cl. 74-230.17.
- Male, Herman A.: *See*—  
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- Malecki, George J., to Patent Protection Corp., trustee. Preservation of color in green vegetables. 2,875,071, 2-24-59, Cl. 99-186.
- Malecki, George J. Preservation of comestibles with suspensions. 2,894,843, 7-14-59, Cl. 99-166.
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- Malecki, Witold, to King-Seeley Corp. Governor. 2,876,792, 3-10-59, Cl. 137-482.
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- Malecki, Witold, and T. I. Larsen, to King-Seeley Corp. Variable speed governor. 2,911,054, 11-3-59, Cl. 180-82.1.
- Malek, Chester B., to Mead Specialties Co., Inc. Valve. 2,914,087, 11-24-59, Cl. 137-622.
- Malek, Georg, to Emig Elektrizitäts- und Metallwaren-Industrie. Motion picture camera. 2,887,182, 5-19-59, Cl. 185-44.
- Malek, Georg, to A. Handler and K. Vockenhuber. Photocell arrangement for moving picture camera. 2,918,854, 12-29-59, Cl. 95-10.
- Malek, Joseph V., to American Phenolic Corp. Electrical connector for coaxial cable. 2,870,420, 1-20-59, Cl. 333-33.
- Malerich, J. Anthony, Jr. Combined surgical table and body member support. 2,871,074, 1-27-59, Cl. 311-11.
- Malew Engineering Ltd.: *See*—  
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- Maley, Robert L. Filter means. 2,889,836, 6-9-59, Cl. 134-110.
- Malhiot, Clarence J., to F. B. Redington Co. Package stacking and sealing mechanism. 2,913,864, 11-24-59, Cl. 53-387.
- Malick, Franklin S. Control drive apparatus. 2,871,727, 2-3-59, Cl. 74-813.
- Malick, Franklin S. Successive index mechanism. 2,876,660, 3-10-59, Cl. 74-821.
- Malick, Franklin S., to United States of America, Navy. Computer impedance changing with magnetic amplifier. 2,879,463, 3-24-59, Cl. 321-25.
- Malin, Herbert, and H. C. Roehrs, to The Dow Chemical Co. Method for preparing tetrahydrofuran lacquer of wet vinylidene chloride-acrylonitrile copolymer. 2,906,721, 9-29-59, Cl. 260-29.6.
- Malin, Herman J.: *See*—  
Azari, Eric, Gray, Mallin, and Thompson. 2,905,466.  
Gray, Alfred E., Mallin, and Thompson. 2,883,188.
- Mallin, Louis. Umbrella tip and tool for use therewith. 2,914,008, 11-24-59, Cl. 112-114.
- Malina, Marshall A.: *See*—  
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- Malitte, Robert. Seats with retractable leg and foot rest. 2,901,025, 8-25-59, Cl. 155-111.
- Malkemus, John D.: *See*—  
Bell, John B., Jr., Currier, and Malkemus. 2,915,529.
- Malkemus, John D., to Jefferson Chemical Co., Inc. Process for preparing glycol monoesters of organic carboxylic acids. 2,910,490, 10-27-59, Cl. 260-410.6.
- Malkiewicz, Wladyslaw F., to Houdaille Industries, Inc. Steering and damping control device. 2,913,919, 11-24-59, Cl. 74-388.
- Malkin, Sam, to Lobstairste Inc. Method for the preservation of live crustacea such as lobsters. 2,890,680, 6-16-59, Cl. 119-2.
- Malkoff, Hyman, to Kramer Trenton Co. Valve construction for refrigerating systems. 2,879,024, 3-24-59, Cl. 251-44.
- Malkoff, Hyman, and D. E. Kramer, to Kramer Trenton Co. Fluid flow controlling valve and heat exchange system employing the same. 2,892,318, 6-30-59, Cl. 62-151.
- Malkomes, Walter, to Koppers Co., Inc. Apparatus for combined leveling coal and removing coke from one side of horizontal coking chamber oven batteries. 2,894,649, 7-14-59, Cl. 214-23.
- Mall, Arthur W., to Remington Arms Co., Inc. Removable roller bearing guide. 2,888,964, 6-2-59, Cl. 143-32.
- Mall, Arthur W., to Remington Arms Co., Inc. Take-up handle for chain saw. 2,910,099, 10-27-59, Cl. 143-32.
- Mall, Arthur W., C. A. Mattson, and W. Ziegler, to Remington Arms Co., Inc. Chain saw starter mechanism. 2,895,466, 7-21-59, Cl. 123-179.
- Mall, James E.: *See*—  
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- Mall, Willis B. Convertible skates. 2,874,970, 2-24-59, Cl. 280-7.13.
- Malleable Iron Fittings Co.: *See*—  
Jenne, Kenneth C. 2,874,439.  
Jenne, Kenneth C. 2,888,722.  
Jenne, Kenneth C. 2,901,798.
- Malley, Thomas J., J. D. Pennell, and H. D. Schindler, to American Cyanamid Co. Preparation of desulfurization catalysts. 2,911,374, 11-3-59, Cl. 252-465.
- Mallina, Rudolph F., to Bell Telephone Laboratories, Inc. Wire connecting machine. 2,905,400, 9-22-59, Cl. 242-7.
- Mallinckrodt Chemical Works: *See*—  
De La Mater, George B. 2,870,063.  
De La Mater, George B. 2,913,451.  
Howard, Frank L., and Cormier. 2,876,155.  
Ruhoff, John R., Martin, and Gerfen. 2,895,792.  
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- Mallinckrodt, George E. Aircraft. 2,874,920, 2-24-59, Cl. 244-23.
- Mallinckrodt, George E., to Elliot Enterprises, Inc. Rotary engine. 2,882,872, 4-21-59, Cl. 123-11.
- Mallinckrodt, George E., to Elliot Enterprises, Inc. Rotary engine. 2,895,457, 7-21-59, Cl. 123-11.
- Mallinckrodt, George E. Charged-particle accelerator. 2,898,508, 8-4-59, Cl. 315-5.42.
- Mallinckrodt, George E. Propeller. 2,918,128, 12-22-59, Cl. 170-160.1.
- Mallinson, Dennis H.: *See*—  
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- Mallison, Thomas D. Locating devices. 2,902,969, 9-8-59, Cl. 116-114.



- Malloch, Robert S.: *See*—  
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 Hogan, Eric E., and Malloch. 2,894,307.  
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- Mallory, Bonnie L. Wire repairing and tightening means. 2,879,808, 3-31-59, Cl. 140-123.5.
- Mallory, Harvey E., and W. H. Ayscuse, to Great Western Drilling Co. Sealing porous formations. 2,867,278, 1-6-59, Cl. 166-33.
- Mallory, Henry R. Electrical control circuit. 2,892,132, 6-23-59, Cl. 317-137.
- Mallory, Marion. Steam engine. 2,867,975, 1-13-59, Cl. 60-27.
- Mallory, Marion, to The Mallory Research Co. Spark plug. 2,906,908, 9-29-59, Cl. 313-144.
- Mallory, P. R., & Co., Inc.: *See*—  
 Ang, Choh-Yi. Re. 2,6174.  
 Barnes, Robert E. 2,916,581.  
 Bence, Lynton, Pugh, and Willson. 2,876,272.  
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 Huetten, Clarence, and Aldred. 2,895,118.  
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 Morone, Joseph P., Jr. 2,882,512.  
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- Mallory Research Co., The: *See*—  
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- Mallory, Robert A.: *See*—  
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- Mallory-Sharon Metals Corp.: *See*—  
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- Mallory-Sharon Titanium Corp.: *See*—  
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- Mallory, Warren M., and C. A. Cinnamon. Fluoroscope. 2,874,302, 2-17-59, Cl. 250-78.
- Malloy, John B., to Standard Oil Co. Hydroforming with platinum-on-alumina catalyst. 2,916,433, 12-8-59, Cl. 208-65.
- Malloy, Paul V. Long wall mining machine using conveyor driven power take-off means. 2,903,253, 9-8-59, Cl. 262-30.
- Malm, Arne I.: *See*—  
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- Malm, Carl J., and C. L. Crane, to Eastman Kodak Co. Manufacture of cellulose acetate. 2,899,423, 8-11-59, Cl. 260-227.
- Malm, Elof. Rope splicing device. 2,884,755, 5-5-59, Cl. 57-23.
- Malm, John G., and S. Fried, to United States of America, Atomic Energy Commission. Separation of protactinium from contaminants. 2,893,825, 7-7-59, Cl. 23-14.5.
- Malm, John G., B. Weinstein, and H. H. Claassen, to United States of America, Atomic Energy Commission. Platinum hexafluoride and method of fluorinating plutonium containing mixtures therewith. 2,893,826, 7-7-59, Cl. 23-14.5.
- Malm, Lawrence L., to Industrial Rayon Corp. Method for the removal of monomers, etc., from molten polymers. 2,904,109, 9-15-59, Cl. 159-49.
- Malm, Robert N., and V. Vodicka, to General Electric Co. Electric incandescent lamp and method of manufacture. 2,904,716, 9-15-59, Cl. 313-318.
- Malm, Roy H.: *See*—  
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- Maldad, Fred. Box structure. 2,914,237, 11-24-59, Cl. 229-41.
- Malmie, Elmer K. Electrical insulator. 2,870,245, 1-20-59, Cl. 174-175.
- Malmer, Albert E. Leveling means for a lap tray. 2,877,073, 3-10-59, Cl. 311-25.
- Malmquist, Alfred B., to E. I. du Pont de Nemours and Co. Coated book cover material. 2,919,206, 12-29-59, Cl. 117-76.
- Malmros, Edward T., to Centric Clutch Co. Centrifugal clutch with thermal control. 2,879,874, 3-31-59, Cl. 192-150.
- Malmros, Gustav V. A.: *See*—  
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- Malmros, Gustav V. A., and R. H. Harrington, to International Business Machines Corp. High speed printing apparatus. 2,897,752, 8-4-59, Cl. 101-93.
- Malmstadt, Howard V., to E. H. Sargent & Co. Automatic differential potentiometric titrator. 2,878,106, 3-17-59, Cl. 23-253.
- Malmstrom, Edward: *See*—  
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- Malo, Russell V.: *See*—  
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- Malo, Russell V., and K. A. Hyle, to Standard Oil Co. Pre-conditioning of alumina-supported platinum hydroforming catalysts. 2,876,195, 3-3-59, Cl. 208-138.
- Malo, Russell V., and G. M. Webb, to Standard Oil Co. Regeneration of platinum-type hydroforming catalysts. 2,879,232, 3-24-59, Cl. 252-416.
- Maloff, Ioury G., to Radio Corp. of America. Television deflection and power supply circuits. 2,896,114, 7-21-59, Cl. 315-27.
- Malone, Dolphus D. Tower packing block. 2,911,204, 11-3-59, Cl. 261-95.
- Malone, Dominick M. Cylindrical brush assembly. 2,885,705, 5-12-59, Cl. 15-179.
- Malone, Esta L. Chewing gum depository. 2,896,841, 7-28-59, Cl. 232-43.2.
- Malone, Ferner A. Sheet rolling device. 2,874,915, 2-24-59, Cl. 242-74.1.
- Malone, Harold L.: *See*—  
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- Malone, Roger L.: *See*—  
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- Maloney, Bernard: *See*—  
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- Maloney, Henry B.: *See*—  
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- Maloney, Henry B., and W. L. Russo, to Raytheon Co. Tubulation apparatus. 2,896,064, 7-21-59, Cl. 219-85.
- Maloney, James D., Jr., and C. B. Brown, to The Mead Corp. Chilling roll for paper coating machines. 2,867,414, 1-6-59, Cl. 257-95.
- Maloney, James O., and M. Teplitz, to The Kansas University Endowment Association. Production of aromatic hydrocarbons. 2,898,388, 8-4-59, Cl. 260-673.5.
- Maloney, Mabel: *See*—  
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- Maloney, William T., deceased; M. Maloney, executrix. Process of producing high bulking finely divided silica. 2,879,136, 3-24-59, Cl. 23-182.
- Malott, Clifton S., Jr., to The American Laundry Machinery Co. Adjustable width small piece folder and stacker. 2,887,313, 5-19-59, Cl. 270-86.
- Malsbar, James S., and E. B. Hilker, deceased, by A. Hilker, administratrix, to Wagner Electric Corp. Control for parallel connected A. C. supply circuits. 2,871,373, 1-27-59, Cl. 307-51.
- Malsbury Mfg. Co.: *See*—  
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- Malsbury, James S., to Wagner Electric Corp. Automatic control for voltage control device. 2,892,146, 6-23-59, Cl. 323-66.
- Malsbury, Kenneth C.: *See*—  
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- Malsbury, William B.: *See*—  
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- Malsbury, William C., K. C., and W. B. Portable concrete shaping device. 2,902,910, 9-8-59, Cl. 94-46.
- Maltby, C. Lauren: *See*—  
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- Maltby, Frederick L.: *See*—  
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- Maltby, Frederick L., to Robertshaw-Fulton Controls Co. Program control. 2,912,052, 11-10-59, Cl. 161-1.
- Maltby, Lewis J., to Menasco Mfg. Co. Landing gear for helicopters. 2,909,342, 10-20-59, Cl. 244-103.
- Maltby, Wilson R.: *See*—  
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- Maly, Laddo. Tackle box support and clamp. 2,893,673, 7-7-59, Cl. 248-126.
- Malz, Hugo, O. Bayer, H. Freytag, and F. Lober, to Farbenfabriken Bayer Akt. Thiophosphoric acid esters and their production. 2,891,059, 6-16-59, Cl. 260-247.1.
- Malz, Nickolas, and R. J. Braski, to Dormeyer Corp. Liquifier. 2,897,862, 8-4-59, Cl. 146-68.
- Malzahn, Lester W.: *See*—  
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- Malzahn, Ronald C., R. F. Phillips, and A. M. Hanson, to Grain Processing Corp. Riboflavin process. 2,876,169, 3-3-59, Cl. 195-28.
- Manalis, Patrick, D. McHale, and K. J. Stevens, to Vitamins Ltd. Diguandine derivatives. 2,908,713, 10-13-59, Cl. 260-564.
- Mamas, Leo G.: *See*—  
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- Mamon, Michel, 40% to G. A. Rubissow, and 60% to Magnetic Precision Controls Inc. Transistor controlled low level magnetic amplifier. 2,870,268, 1-20-59, Cl. 179-171.
- Mamzie, Charles L., to Moore Products Co. Leak testing apparatus. 2,872,806, 2-10-59, Cl. 73-40.
- Man, Eugene H., to E. I. du Pont de Nemours and Co. Electrolytic preparation of sulfur hexafluoride. 2,904,476, 9-15-59, Cl. 204-59.
- Manahan, Max J., to General Motors Corp. Electric radio tuner. 2,882,391, 4-14-59, Cl. 250-20.
- Manahan, Roderick D., to Colgate-Palmolive Co. Fluoride dentifrice stabilized by a water-soluble acid phosphate compound. 2,876,167, 3-3-59, Cl. 167-93.
- Manas, Herman D., to M. R. M. Machinery Co., Inc. Label applying means. 2,873,040, 2-10-59, Cl. 216-55.
- Manas, Vincent T., to Josam Mfg. Co. Fixture carrier and coupling. 2,901,754, 9-1-59, Cl. 4-252.
- Manas, Vincent T., to Josam Mfg. Co. Branched vertical soil pipe line fitting with vent. 2,916,310, 12-8-59, Cl. 285-153.



- Manasse, Mervyn H.: *See*—  
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- Manausa, Bernard H. Foot construction for vibrating chair. 2,890,544, 6-16-59, Cl. 45—137.1.
- Manausa, Bernard H. Vibrating assembly. 2,894,505, 7-14-59, Cl. 128—33.
- Månberg, Charles K. T., to Aktiebolaget Husqvarna, Borstfabrik. Rotary brush and machine for making brush strips. 2,903,729, 9-15-59, Cl. 15—182.
- Mancera, Octavio: *See*—  
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- Mancera, Octavio, G. Rosenkranz, and F. Sondheimer, to Syntex S. A. 16-methylene-testosterone, its esters and intermediates and process for preparing the same. 2,890,227, 6-9-59, Cl. 260—397.3.
- Manchester Machine Co., The: *See*—  
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- Manchester Machine & Tool Co.: *See*—  
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Novkov, Raymond E. 2,915,949.
- Manchester Oil Refinery (Holdings) Ltd.: *See*—  
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- Manchester, William J., to Power Grip, Inc. Non-rotating pneumatic chuck actuator. 2,886,007, 5-12-59, Cl. 121—35.
- Manchey, Lessel L., and V. C. Bidlack, Jr., to The Denver Chemical Mfg. Co. Therapeutic compositions containing iodopropylidene glycerol. 2,872,378, 2-3-59, Cl. 167—70.
- Mancib, Alvin S.: *See*—  
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- Mancini, Luigi, ½ to G. Scalero. Transmission. 2,875,644, 3-3-59, Cl. 74—665.
- Mancini, Luigi. Suction cup device for equipment to be applied onto submersed surfaces, such as hull plates and the like. 2,876,026, 3-3-59, Cl. 287—20.
- Mancini, Vitaliano. Valve control for a musical instrument. 2,902,896, 9-8-59, Cl. 84—376.
- Mancusi, Agnes W.: *See*—  
Mancusi, Joseph J., Jr. 2,889,824.
- Mancusi, Joseph J., Jr., to A. W. Mancusi. Fire place constructions. 2,889,824, 6-9-59, Cl. 126—164.
- Mancuso, Ferdinand F.: *See*—  
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- Mandato, Dominick, Jr.: *See*—  
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- Mandekic, Anthony V. Trailer hitch. 2,917,323, 12-15-59, Cl. 280—470.
- Mandel, Elliot, and W. Goldsborough, said Goldsborough, to said Mandel. Steam saturizing means for offset press. 2,873,667, 2-17-59, Cl. 101—147.
- Mandel, Henri, ½ to E. Scott. Automatic signal and barrier device for railroad crossings. 2,874,493, 2-24-59, Cl. 39—42.
- Mandel, Henri, ½ to E. Scott. Animated toy boxer. 2,899,774, 8-18-59, Cl. 46—120.
- Mandel, Manley: *See*—  
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- Mandel, Mark: *See*—  
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- Mandel, Mark, to International Telephone and Telegraph Corp. Aerial navigation system. 2,912,690, 11-10-59, Cl. 343—106.
- Mandel, Mark, to International Telephone and Telegraph Corp. Radio navigation receiver. 2,912,691, 11-10-59, Cl. 343—106.
- Mandler, Walter, to Ernst Leitz, Canada Ltd. Telescopic sight. 2,867,151, 1-6-59, Cl. 88—32.
- Mandrel Industries, Inc.: *See*—  
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- Manes, Antone I., and T. McKinley, to United States Steel Corp. Belt conveyor. 2,912,098, 11-10-59, Cl. 198—194.
- Manett Enterprises, Inc.: *See*—  
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- Manetti, Fred: *See*—  
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- Manetti, Mario J. and F. Removable closure member for television cabinets. 2,910,687, 10-27-59, Cl. 340—367.
- Manevitz, Abraham: *See*—  
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- Manfrede, Roland. Combination shoe shine brush. 2,901,758, 9-1-59, Cl. 15—114.
- Manfredi, Robert E., to General Electric Co. Envelope structure for electric discharge device. 2,883,577, 4-21-59, Cl. 313—290.
- Mangan, Howard: *See*—  
Angel, Arthur M., and Mangan. 2,916,624.
- Mangan, Paul C., and W. E. Kohman, to Westinghouse Electric Corp. "Hot streak" ignition arrangement for afterburner fuel control system. 2,892,307, 6-30-59, Cl. 60—35.6.
- Manganese Chemicals Corp.: *See*—  
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- Mange, Franklin E.: *See*—  
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- Mange, Franklin E., to Petrolite Corp. Modification of waxes and products therefrom. 2,890,124, 6-9-59, Cl. 106—23.
- Mange, Franklin E., to Petrolite Corp. Modification of oxidized hydrocarbons and products therefrom. 2,890,125, 6-9-59, Cl. 106—23.
- Manger, Warren P.: *See*—  
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- Mangold, Anthony J., Jr., and G. M. Spera, to National Lead Co. Shutter assembly. 2,908,254, 10-13-59, Cl. 126—200.
- Mangravite, George H., to Twin Trees Gardens, Inc. Fitment for bottles or the like. 2,886,220, 5-12-59, Cl. 222—545.
- Mangrum, Clifford T., and C. O. Everett. Hot tinning lead gun. 2,890,834, 6-16-59, Cl. 239—85.
- Mangum, Earl W., to Clark Suds Return Systems, Inc. Holder for abrasive strips. 2,878,625, 3-24-59, Cl. 51—187.
- Mangum, Lude E. Shower bath accessory. 2,876,908, 3-10-59, Cl. 211—86.
- Manhart, Charles E. Raft-boarding aid. 2,869,150, 1-20-59, Cl. 9—11.
- Maniaci, Matteo. Protective pipe clamp. 2,889,602, 6-9-59, Cl. 24—81.
- Manicone, Santo: *See*—  
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- Manintveld, Jan A.: *See*—  
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Nijland, Louis M., and Manintveld. 2,887,630.
- Manion, Dewey A.: *See*—  
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Hawk, Le Roy R., Magnus, and Manion. 2,912,330.
- Manion, Dewey A., Jr.: *See*—  
Kircher, Albert, Jr., and Manion. 2,874,054.
- Manis, Peter, and D. R. Vogelsang, to The Goodyear Tire & Rubber Co. Rubber chaffer and method of making the same. 2,888,058, 5-26-59, Cl. 152—363.
- Manitowoc Equipment Works, a division of The Manitowoc Co., Inc.: *See*—  
Guyton, Robert H., and West. 2,911,799.
- Mankowich, Ivan, L. E. Steidle, and F. P. Chiavetta, to United States Rubber Co. Reclaiming of vulcanized scrap rubber. 2,871,205, 1-27-59, Cl. 260—2.3.
- Mankowich, Ivan, L. E. Steidle, and F. P. Chiavetta, to United States Rubber Co. Treatment of reclaimed rubber. 2,871,206, 1-27-59, Cl. 260—5.
- Manley, Edward J., to United States Steel Corp. Safety stop for roll-up door. 2,878,865, 3-24-59, Cl. 160—189.
- Manley, Inc.: *See*—  
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- Manley, Jack M., and P. A. Reiling, to Bell Telephone Laboratories, Inc. Voice-operated gain adjusting device. 2,892,891, 6-30-59, Cl. 179—15.5.
- Manley, Marion B. Eye glass holder. 2,884,220, 4-28-59, Cl. 248—309.
- Manley, Thomas R.: *See*—  
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- Manly, Arthur H. Evaporation apparatus. 2,902,028, 9-1-59, Cl. 126—271.
- Mann, Abe: *See*—  
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- Mann Automatic Transmission Co.: *See*—  
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- Mann, Carl P., to Selas Corp. of America. Furnace for heating sheets of material. 2,875,994, 3-3-59, Cl. 263—6.
- Mann, Charles J. Retractable work-support. 2,910,301, 10-27-59, Cl. 279—4.
- Mann, Charles W., to Dynamics Corp. of America. Crystal oven. 2,915,653, 12-1-59, Cl. 310—9.
- Mann, David J.: *See*—  
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Sloan, Arthur W., and Mann. 2,891,055.
- Mann, Douglas: *See*—  
Vander Arend, Peter C., and Mann. 2,882,694.
- Mann, Douglas, and J. Macinko, to United States of America, Navy. Radiation shield circulation system for large liquefied gas storage containers. 2,871,669, 2-3-59, Cl. 62—54.
- Mann, Earl, Jr., to Mann Automatic Transmission Co. Apparatus for testing automatic transmissions. 2,918,822, 12-29-59, Cl. 73—432.
- Mann, Edward F., to The Hoover Co. Wax applicator. 2,876,475, 3-10-59, Cl. 15—131.
- Mann, George A. Power haystack saw. 2,876,817, 3-10-59, Cl. 146—70.
- Mann, Julius W., and G. F. Russell. Continuously-operated radio frequency adhesive setter for the edge bonding of materials. 2,870,808, 1-27-59, Cl. 144—281.
- Mann, Leonard J.: *See*—  
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- Mann, Leonard J., to General Motors Corp. Refrigerating apparatus having air control means for multiple compartments. 2,907,180, 10-6-59, Cl. 62—155.
- Mann, Leonard J., to General Motors Corp. Refrigerating apparatus. 2,912,834, 11-17-59, Cl. 62—276.
- Mann, Oliver: *See*—  
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- Mann, Theodore C., to Ekstrom-Carlson & Co. Arm construction for routers. 2,886,079, 5-12-59, Cl. 144-136.
- Mann, Theodore C., to Ekstrom-Carlson & Co. Profiling machine. 2,895,386, 7-21-59, Cl. 90-13.
- Mann, Theodore C., to Ekstrom-Carlson Co. Machine tool with control means for traversing the tool thereof. 2,913,964, 11-24-59, Cl. 90-13.5.
- Mann, Walter B.: *See*—  
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- Mann, Walter J.,  $\frac{1}{2}$  to E. H. Roden, and  $\frac{1}{2}$  to G. C. Ickes, Jr. Horizontal corrugated paper tube and method of making the same. 2,893,436, 7-7-59, Cl. 138-78.
- Mann, William, and B. Maloney, to American Steel Foundries. Combination brake. 2,873,821, 2-17-59, Cl. 188-33.
- Mann, William K. Fire control system. 2,903,945, 9-15-59, Cl. 89-41.
- Mannal, Clifford: *See*—  
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- Manne, Moe. Method of making a finger ring. 2,902,749, 9-8-59, Cl. 29-160.6.
- Manners, Frank A., to Square D Co. Signal voltage responsive control system. 2,911,547, 11-3-59, Cl. 307-149.
- Manners, John V., to Paperbox Corp. Grape box. 2,902,200, 9-1-59, Cl. 229-16.
- Mannerstedt, Folke C. E. Valve timing gear for internal combustion engines. 2,878,796, 3-24-59, Cl. 123-90.
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- Mannesmann Aktiengesellschaft: *See*—  
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Darmann, Otto, Kobusch, and Speith. 2,900,285.  
Fritsch, Hermann. 2,917,821.  
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- Mannesmann-Meer Akt.: *See*—  
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- Mannesmann-Meer Engineering and Construction Co.: *See*—  
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- Mannesmann-Trauzl Aktiengesellschaft: *See*—  
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- Manning, Glenn E. Buoyant garment. 2,888,691, 6-2-59, Cl. 9-20.
- Manning, James J. Enlarging easel especially adapted for use in a system for identifying horses. 2,895,377, 7-21-59, Cl. 88-24.
- Manning, Joseph P., and D. L. Coleman. Unidirectional woven fabric. 2,887,132, 5-19-59, Cl. 139-420.
- Manning, Maxwell & Moore, Inc.: *See*—  
Du Bois, Robert C. 2,879,802.  
Du Bois, Robert C. 2,883,958.  
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Gilchrist, Edgar S. 2,887,646.  
Gilchrist, Edgar S., and Sable. 2,913,672.  
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- Manning, Ray: *See*—  
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- Manning, Walter F., to Garrard Engineering and Mfg. Co. Ltd. Record supporting spindles for record changing gramophones. 2,873,977, 2-17-59, Cl. 274-10.
- Manning, William J.: *See*—  
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- Mannon, Lloyd. Filling device with preset automatic shutoff. 2,906,301, 9-29-59, Cl. 141-209.
- Manns, Marshall M., to Michigan Chemical Co. Method for the insertion of sampling tubes used to determine the dispersion of a fumigant in grain and apparatus therefor. 2,904,443, 9-15-59, Cl. 99-225.
- Manns, Thomas J., to Philco Corp. Recovery of germanium values. 2,910,346, 10-27-59, Cl. 23-23.
- Manns, William F., L. G. Cheatum, and B. W. Gustafson, to Deere & Co. Conveyor feeder for mobile ensilage loader. 2,900,069, 8-18-59, Cl. 198-204.
- Manor Hosiery Mills, Inc.: *See*—  
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- Manor, Paul A., to Surface Combustion Corp. Air supply system. 2,881,687, 4-14-59, Cl. 98-1.
- Manse, Thomas J.: *See*—  
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- Man-Sew Corp.: *See*—  
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- Mansfield, Geoffrey C. G., to D. Napier & Son Ltd. Hydraulic couplings. 2,893,205, 7-7-59, Cl. 60-54.
- Mansfield, James R.: *See*—  
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- Mansfield, Lee. Educational device of interlocked puzzle pieces. 2,875,531, 3-3-59, Cl. 35-69.
- Mansfield, Richard C., J. G. Morrison, and C. J. Schmidle, to Rohm & Haas Co. Corrosion inhibiting compositions. 2,874,119, 2-17-59, Cl. 252-8.55.
- Mansfield, Roland M., to Tek Bearing Co. Method and apparatus for forming a self-aligning bearing. 2,892,246, 6-30-59, Cl. 29-149.5.
- Mansfield, Wilfred P., to The British Internal Combustion Engine Research Assn. Turbo-charged internal combustion engines. 2,910,826, 11-3-59, Cl. 60-13.
- Mansfield, Wilfred P., to British Internal Combustion Engine Research Association. Fuel injection systems. 2,916,028, 12-8-59, Cl. 123-139.
- Mansford, Hugh L., to Electric & Musical Industries Ltd. Sawtooth waveform generators. 2,897,453, 7-28-59, Cl. 331-145.
- Mansheim, Richard J., to W. A. Sheaffer Pen Co. Writing instrument. 2,868,173, 1-13-59, Cl. 120-47.
- Mansholt, Dirk R. Apparatus for lifting bulbs, tubers and root plants, particularly beets. 2,884,079, 4-28-59, Cl. 171-99.
- Mansky, Clarence B., and I. M. Sheaffer, Jr., to Burroughs Corp. Data storage apparatus. 2,916,726, 12-8-59, Cl. 340-174.
- Manson, Morris: *See*—  
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- Manspeaker, Robert O.: *See*—  
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- Mansperger, Richard C. Soap dispenser. 2,894,662, 7-14-59, Cl. 222-242.
- Manteuffel, Allan: *See*—  
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- Manteuffel, Allan A.: *See*—  
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- Manteuffel, Allan A., and G. R. Cook, to The Pure Oil Co. Soluble oil compositions of improved emulsification and dispersion at low temperatures. 2,890,172, 6-9-59, Cl. 252-33.3.
- Manteuffel, Allan A., G. R. Cook, and W. W. Cortiss, to The Pure Oil Co. Lubricants. 2,900,342, 8-18-59, Cl. 252-57.
- Manthey, Carleton J., to Central States Paper & Bag Co. Sheet handling units. 2,883,190, 4-21-59, Cl. 271-27.
- Manthey, Edward: *See*—  
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- Manthos, Atlee G. Water saddle. 2,894,270, 7-14-59, Cl. 9-17.
- Manton-Gaulin Mfg. Co., Inc.: *See*—  
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- Mantzel, Albrecht-Wolf, and H. Deuring, to Rand-Goetze Corp. Resilient wheel. 2,915,100, 12-1-59, Cl. 152-49.
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- Manunsel, Guy A. Underwater joints for subway segments. 2,877,628, 3-17-59, Cl. 61-43.
- Manwaring, David H., to Nelson-Ricks Creamery Co. Process and apparatus for making cheese. 2,868,651, 1-13-59, Cl. 99-116.
- Manwaring, Joshua G. D. Apparatus for fusing plastic material to textiles. 2,883,505, 4-21-59, Cl. 219-10.53.
- Manzer, Marvin R. Dispensing apparatus. 2,870,590, 1-27-59, Cl. 53-250.
- Manzinger, Johann: *See*—  
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- Mapes, Daniel, to Specialties Development Corp. Body catcher. 2,906,366, 9-29-59, Cl. 182-139.
- Mappes, William L., to Northeast Capital Corp. Clearance marker light. 2,871,342, 1-27-59, Cl. 240-8.2.
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- Mapson, Donald L., to M. & D. Store Fixtures, Inc. Support for display panels, mirrors or the like. 2,907,537, 10-6-59, Cl. 248-28.
- Mapstone, Herbert W., to Crosman Seed Corp. Display rack. 2,873,033, 2-10-59, Cl. 211-2.
- Mar San Mfg. Co.: *See*—  
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- Marak, Eldon J., to Phillips Petroleum Co. Light scattering device and control system. 2,897,247, 7-28-59, Cl. 260-683.15.



- Maraman, William J., H. R. Baxman, and R. D. Baker, to United States of America, Atomic Energy Commission. Method for decontamination of reactor solutions. 2,885,260, 5-5-59, Cl. 23-14.5.
- Marander, Myron P., F. B. Gschwend, and M. F. Smith, to Fibreboard Paper Products Corp. Paper products having a release coating and method of preparation thereof. 2,869,722, 1-20-59, Cl. 206-84.
- Marano, Herbert W., to Wilson Jones Co. Receptacle support. 2,883,792, 4-28-59, Cl. 45-57.
- Marano, Herbert W., to Wilson Jones Co. Fastener driving device. 2,917,747, 12-22-59, Cl. 1-49.
- Marantette, William F., to Boeing Airplane Co. Voltage monitoring circuits. 2,883,529, 4-21-59, Cl. 250-27.
- Marantz, Israel H., to Columbia Cable & Electric Corp. Suction nozzle. 2,897,743, 8-4-59, Cl. 98-115.
- Marasco, Paul B. Fog nebulizing vaporizer. 2,909,329, 10-20-59, Cl. 239-351.
- Marason, Gabriel, Jr., to Beckman Instruments, Inc. Potentiometer. 2,887,555, 5-19-59, Cl. 201-56.
- Marathon Corp. of Canada Ltd.: See—  
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- Maratzke, Lester C., and A. L. Sumpter, to M. D. Sell. Adjustable antenna mounting. 2,883,665, 4-21-59, Cl. 343-878.
- Maravolo, Joseph: See—  
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- Marban, Julian G. Filling device for fountain pens. 2,894,541, 7-14-59, Cl. 141-30.
- Marble, Harold A., and C. P. Burbey, to International Sales Co. Gas furnace construction. 2,884,048, 4-28-59, Cl. 158-7.
- Marble, Kingsley W. Rear view mirror attachment. 2,871,754, 2-3-59, Cl. 88-2.2.
- Marblehead Lime Co.: See—  
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- Marburg, Edgar, to United States Steel Corp. Slotted hot top. 2,914,825, 12-1-59, Cl. 22-147.
- Marbury, Ralph E., to Westinghouse Electric Corp. Series capacitor protective device. 2,900,578, 8-18-59, Cl. 317-12.
- Marce, Henri, to The American Pad & Textile Co. Cushion pads. 2,870,053, 1-20-59, Cl. 154-54.
- Marcantonio, Daniel L. Electrical device for forming holes in nursing nipples. 2,900,481, 8-18-59, Cl. 219-29.
- Marcec, Ervin A., 1/2 to F. H. Ellenbaum. Hot top. 2,914,824, 12-1-59, Cl. 22-147.
- Marcellus, Brooks, to Barber-Colman Co. Coding device for computers. 2,885,358, 5-5-59, Cl. 340-174.
- March, Clifton J., to The Black & Decker Mfg. Co. Drill chuck and spindle connection. 2,874,985, 2-24-59, Cl. 287-53.
- March, William A., to Rockwell Mfg. Co. Hydrocarbon resistant glycerol base lubricant. 2,878,184, 3-17-59, Cl. 252-15.
- Marchal, Raymond H.: See—  
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- Marchand, William C., to Continental Motors Corp. Camshaft drive for internal combustion engines. 2,875,739, 3-3-59, Cl. 123-53.
- Marchant Calculators, Inc.: See—  
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- Marchant, Francis C. L., W. J. Morley, and E. Briggs, to Bristol Aero-Engines Ltd. Rotors for axial flow compressors or turbines. 2,869,820, 1-20-59, Cl. 253-69.
- Marchant, Paul A., to Injection Molding Co. Dropper assembly. 2,870,797, 1-27-59, Cl. 141-24.
- Marchant Research, Inc.: See—  
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- Marchbank, John, to Frederick Braby and Co. Ltd. Window assembly. 2,893,072, 7-7-59, Cl. 20-52.4.
- Marchese, Theodore J., and R. W. Wilmarth, to International Telephone and Telegraph Corp. Pulsed-cathode electron gun. 2,912,616, 11-10-59, Cl. 315-14.
- Marchetti, Augusto, to Gebrueder Buehler. Carrying-frame conveyor for tiered driers. 2,901,090, 8-25-59, Cl. 198-84.
- Marchetti, Augusto, to Gebrueder Buehler. Distributor, in particular for short-length food-paste products. 2,905,311, 9-22-59, Cl. 198-112.
- Marchetti, Francis R.: See—  
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- Marchionda, Tony F. Pneumatic skill toy. 2,919,135, 12-29-59, Cl. 273-119.
- Marchisella, Americo, to Rago Foundations, Inc. Foundation
- Marchyn, John M., to American Flange & Mfg. Co. Inc. Closure plugs. 2,906,429, 9-29-59, Cl. 220-39.
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- Marco Industries Co.: See—  
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Noyes, Charles W. 2,916,725.
- Marco, John. High pressure rotary pump unit. 2,878,757, 3-24-59, Cl. 103-202.
- Marcona Mining Co.: See—  
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- Marcote Co., The: See—  
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- Marcotte, Frank B.: See—  
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- Marcotte, Oswald J. Cigarette maker. 2,868,209, 1-13-59, Cl. 131-58.
- Marcucci, Emil F. Christmas tree stand. 2,899,156, 8-11-59, Cl. 248-48.
- Marcum, Charles R., to Gemco Development and Engineering Co. Multi-leverage fluid pressure pump. 2,891,480, 6-23-59, Cl. 103-38.
- Marcus, David H.: See—  
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- Marcus, Mitchell P., and F. O. Underwood, to International Business Machines Corp. Electrical counter for diminishing counts. 2,889,987, 6-9-59, Cl. 235-132.
- Marcus, Richard D., J. J. Zones, and A. Preciado. Pie crust former. 2,896,555, 7-28-59, Cl. 107-15.
- Marcus, Samuel M. Powered golf caddy cart. 2,903,082, 9-8-59, Cl. 180-19.
- Marcus, William. Molding apparatus for container covers. 2,875,472, 3-3-59, Cl. 18-42.
- Marcus, William. Container cap. 2,886,218, 5-12-59, Cl. 222-517.
- Marcus, William. Apparatus for molding a hollow container with an integral handle. 2,900,666, 8-25-59, Cl. 18-42.
- Marcy, John P. Multi-contact fractionation tray. 2,875,993, 3-3-59, Cl. 261-113.
- Marden, Carleton S.: See—  
Davison, Robert T. B., Eriksson, Gordon, and Marden. 2,883,086.
- Marden, John W., to Westinghouse Electric Corp. Segmented molybdenum gun liner. 2,915,946, 12-8-59, Cl. 89-16.
- Marden, John W., D. M. Wroughton, and R. F. Baker, to Westinghouse Electric Corp. Ultra-high-temperature furnace. 2,916,535, 12-8-59, Cl. 13-22.
- Mardick, John A.: See—  
Borda, John P., and Mardick. 2,913,286.
- Mardoian, Milton G.: See—  
Gilmore, Loren D., and Mardoian. 2,912,967.
- Mardon, James: See—  
Logan, Kenneth C., and Mardon. 2,892,499.
- Mare, Ernest. Adjustable sieves. 2,907,404, 10-6-59, Cl. 183-9.
- Marean, Dale F. Internal combustion rotary engine. 2,869,522, 1-20-59, Cl. 123-12.
- Marek, Günter: See—  
Rische, Kurt, Kreil, and Marek. 2,908,404.
- Marette, Ralph T., and P. J. Miller, to The Weatherhead Co. Pneumatic suspension for vehicles and control valve therefor. 2,910,305, 10-27-59, Cl. 280-124.
- Marganski, Joseph J., and A. King, Jr., to Farrel-Birmingham Co., Inc. Baffle for rolls. 2,890,026, 6-9-59, Cl. 257-95.
- Margarinbolaget Aktiebolag: See—  
Wode, Nils G., and Holm. 2,903,364.
- Margason, Jack V.: See—  
Anderson, Gerald L., and Margason. 2,903,005.  
Campbell, Donald A., and Margason. 2,905,193.
- Margetts, David R.: See—  
Hare, George H., and Margetts. 2,896,083.
- Margetts, Hyrum R., and L. F., to The Brunswick-Balke-Collender Co. Basketball folding backstop. 2,872,192, 2-3-59, Cl. 273-1.5.



- Margetts, Hyrum R. and L. F., to The Brunswick-Balke-Collender Co. Wall winch with restricted base. 2,882,013, 4-14-59, Cl. 254-186.
- Margetts, Lynn F.: See—
- Margetts, Hyrum R. and L. F. 2,872,192.
- Margetts, Hyrum R. and L. F. 2,882,013.
- Margida, Frank J., to Saf-T-Brake Valve Co., Inc. Displacement type brake safety valve. 2,902,043, 9-1-59, Cl. 137-115.
- Margolin, Efraim. Coat hanger. 2,876,938, 3-10-59, Cl. 223-85.
- Margon Corp.: See—
- Bashover, Albert. 2,870,571.
- Bashover, Albert. 2,892,288.
- Bashover, Albert. 2,904,928.
- Marheine, Edward A., to Electronic Secretary Industries, Inc. Telephone answering apparatus control. 2,881,253, 4-7-59, Cl. 179-6.
- Marian, Roy J.: See—
- Luther, Arch C., Jr., and Marian. 2,879,441.
- Luther, Arch C., Jr., Marian, and Bosinoff. 2,890,276.
- Mariani, Alfred: See—
- Silenzi, Louis, and Mariani. 2,903,078.
- Mariani Frozen Foods Corp.: See—
- Cuevas, Daniel S. 2,911,718.
- Mariano, Connie. Accordion reed construction. 2,915,933, 12-8-59, Cl. 84-363.
- Marié, Pierre G. Lobe-scanning microwave antenna. 2,869,124, 1-13-59, Cl. 343-783.
- Marié, Pierre G. Resonant directional coupler with square guide. 2,897,457, 7-28-59, Cl. 333-10.
- Marien, Clement S., to Swank, Inc. Cuff link. 2,897,560, 8-4-59, Cl. 24-90.
- Marien, Clement S., to Swank, Inc. Cuff link. 2,897,562, 8-4-59, Cl. 24-97.
- Marien, Melvin W., to Ramsey Corp. Piston assembly. 2,882,108, 4-14-59, Cl. 309-22.
- Marien, Melvin W., to Ramsey Corp. Piston ring. 2,886,383, 5-12-59, Cl. 309-45.
- Marien, Melvin W., to Ramsey Corp. Piston ring. 2,886,385, 5-12-59, Cl. 309-45.
- Marien, Melvin W., to Ramsey Corp. Circumferential expander type piston ring assembly. 2,893,799, 7-7-59, Cl. 309-44.
- Marien, Melvin W., to Ramsey Corp. Electro-hydraulic actuating cylinder. 2,918,795, 12-29-59, Cl. 60-52.
- Marietta, Michael T. Face mask. 2,890,457, 6-16-59, Cl. 2-9.
- Marina, Ramón F. Mask. 2,897,817, 8-4-59, Cl. 128-141.
- Marinace, John C., to General Electric Co. Semiconductor devices. 2,904,704, 9-15-59, Cl. 307-88.5.
- Marinace, John C., and U. Cocca, to General Electric Co. Photoelectric device. 2,885,562, 5-5-59, Cl. 250-83.3.
- Marine Instrument Co.: See—
- Pavey, George M., Jr. 2,870,708.
- Marine Oil Terminal Co., Inc.: See—
- Griebe, Erwin S. 2,894,268.
- Marine Products Co.: See—
- Fernstrum, Frank O. 2,875,697.
- Marine Research Co.: See—
- Pavey, George M., Jr. 2,897,755.
- Mariner, Peter F., and C. A. Cochane, to Elliott Brothers (London) Ltd. High frequency radio aerials. 2,867,801, 1-6-59, Cl. 343-756.
- Mariner, Peter F., and J. A. C. Kinnear, to Elliott Brothers (London) Ltd. Lens, mirror or like elements for high frequency radio aerials. 2,900,706, 8-25-59, Cl. 29-155.5.
- Marini, Herman R., to Pittsburgh Plate Glass Co. Method of bending glass. 2,871,623, 2-3-59, Cl. 49-84.
- Marini, Herman R., to Pittsburgh Plate Glass Co. Method and apparatus for glass chip removal. 2,915,423, 12-1-59, Cl. 134-9.
- Marini, Thomas O. Baseboard radiator. 2,872,162, 2-3-59, Cl. 257-133.
- Marino, Jean, to Les Industries Musicales et Electriques Pathe Marconi. Multi-speed drive mechanisms. 2,906,133, 9-29-59, Cl. 74-190.
- Marino, Nicholas A. Girdle. 2,895,482, 7-21-59, Cl. 128-563.
- Marino, Paul J., and J. G. Subblondo, to Sperry Rand Corp. Quick erecting means for gyro verticals. 2,879,672, 3-31-59, Cl. 74-547.
- Marion, John F.: See—
- Witten, Arthur L., Jr., Marion, and Henning. 2,876,447.
- Marion, William W. Fountain brushes. 2,909,798, 10-27-59, Cl. 15-136.
- Marisc, Milton M., and H. Hennig, to The Pure Oil Co. Catalytic cracking process. 2,903,414, 9-8-59, Cl. 208-80.
- Mark, Herman F., to R. S. Arles. Novel condensation products. 2,895,944, 7-21-59, Cl. 260-65.
- Mark, John T., to Radio Corp. of America. Pneumatic electrical connector. 2,883,638, 4-21-59, Cl. 339-35.
- Mark, Richard S.: See—
- Boyden, Robert E., Eakin, Mark, and Spiro. 2,884,900.
- Mark, Richard S., to Clary Corp. Printing mechanism. 2,879,712, 3-31-59, Cl. 101-95.
- Mark, Vennice E. Combination work and storage unit. 2,869,957, 1-20-59, Cl. 312-298.
- Mark, Vennice E. Concealable support for machines. 2,878,087, 3-17-59, Cl. 312-21.
- Mark, Vennice E. Support providing concealed storage. 2,878,088, 3-17-59, Cl. 312-29.
- Mark, Vennice E. Combination work and storage unit having sliding platform. 2,878,089, 3-17-59, Cl. 312-29.
- Mark, Vennice E. Concealable platform. 2,899,250, 8-11-59, Cl. 312-21.
- Mark, Vennice E. Concealable platform. 2,904,380, 9-15-59, Cl. 312-27.
- Mark, Victor, to Universal Oil Products Co. Polyxyalkylene cyclic hydrocarbon substituted amines and their ammonium salt derivatives. 2,876,263, 3-3-59, Cl. 260-573.
- Marke, Hans, to Aetna Products & Mfg. Co. Fishing rod guide. 2,914,882, 12-1-59, Cl. 43-24.
- Markel Electric Products, Inc.: See—
- Piper, Richard C., Jr., and Ogden. 2,900,128.
- Markel, John M., to J. I. Case Co. Manure spreader with adjustable end gate. 2,876,014, 3-3-59, Cl. 275-3.
- Markem Machine Co.: See—
- Tripp, Kenneth F. 2,917,994.
- Marken, Alden S., to The Texas Co. Apparatus for treating wells. 2,884,067, 4-28-59, Cl. 166-75.
- Marker, Hannes. Safety ski binding. 2,899,210, 8-11-59, Cl. 280-1135.
- Marker, Harold F. Piston packing rings and method of producing same. 2,873,154, 2-10-59, Cl. 309-29.
- Marker, Henry H., and N. B. Greenleaf, to Sponge Products Corp. Cam operated mop device. 2,882,540, 4-21-59, Cl. 15-119.
- Marks, Robert O. Inking device. 2,910,960, 11-3-59, Cl. 118-268.
- Markenstein, John, and C. B. Nelson, to General Motors Corp. Shock absorbing support. 2,880,681, 4-7-59, Cl. 105-368.
- Markenstein, John, and C. H. Patrie, to General Motors Corp. Railway vehicle suspension. 2,907,283, 10-6-59, Cl. 105-199.
- Market Transport Ltd.: See—
- Tapp, Raymond P. J. 2,911,118.
- Markey, Frank J., to G P E Controls, Inc. Web guide. 2,871,013, 1-27-59, Cl. 271-26.
- Markey, Frank J., to Askania Regulator Co. Shielded web edge detector. 2,877,786, 3-17-59, Cl. 137-83.
- Markgraf, Andreas G.: See—
- Deighton, William W., Du Gan, Markgraf, and Stromback. 2,914,759.
- Markham, Aaron E., to Puget Sound Pulp and Timber Co. Purification of alcohol. 2,892,757, 6-30-59, Cl. 195-39.
- Markham, Charles E., to White-Rodgers Co. Space thermostat with adjustable anticipator. 2,905,790, 9-22-59, Cl. 200-122.
- Markham, Charles W., Jr., V. H. Meyer, and W. R. Wade, to United Shoe Machinery Corp. Two-station sole pre-spotting and attaching machines. 2,896,233, 7-28-59, Cl. 12-33.6.
- Markham, Robert N., to Highland Container Co., Inc. Protective corner pad for packing mirrors and the like. 2,896,833, 7-28-59, Cl. 229-14.
- Markhart, Albert H.: See—
- Bonzagni, Francis A., Cohen, and Markhart. 2,917,427.
- Markil, Franklin S., to Republic Aviation Corp. Carrier. 2,877,688, 3-17-59, Cl. 89-1.5.
- Markle, Adolf, to Firma Montanwerke Walter Akt. Grinding machine. 2,873,557, 2-17-59, Cl. 51-33.
- Markle, Adolf, to Firma Montanwerke Walter Akt. Grinding machine. 2,874,517, 2-24-59, Cl. 51-34.
- Marklew, Cecil K., to Alfred Herbert Ltd. Control means for a machine which is to operate on a predetermined cycle. 2,905,929, 9-22-59, Cl. 340-174.
- Markley, Francis X.: See—
- Orloff, Harold D., and Markley. 2,870,186.
- Orloff, Harold D., and Markley. 2,911,431.
- Markley, Joseph M., to New England Gear Works. Motor operated valves. Re. 24,663, 6-30-59, Cl. 251-134.
- Markoff-Moghadam, Leo: See—
- Moghadam, Leon M. 2,894,304.
- Markoff, Nicholas, to Tokheim Corp. Switch and register control mechanism. 2,874,874, 2-24-59, Cl. 222-35.
- Markoff, Nicholas, to Tokheim Corp. Dispenser control mechanism. 2,874,875, 2-24-59, Cl. 222-35.
- Markovich, William H. Anti-burglar window lock. 2,912,268, 11-10-59, Cl. 292-262.
- Markow, George R., to International Business Machines Corp. Signal translating apparatus. 2,875,432, 2-24-59, Cl. 340-347.
- Markowicz, Marion: See—
- Eidlow, Alan J., Markowicz, and Morgan. 2,870,595.
- Markowitz, Jerome, to Allen Organ Co., Inc. Combination electronic organ and transient tone producing device. 2,888,850, 6-2-59, Cl. 84-1.01.
- Markowitz, Nathan M.: See—
- Fidelman, Paul H. 2,882,598.
- Markowitz, Oscar, to United States of America, Navy. Means for dynamic test of overvoltage relays. 2,898,547, 8-4-59, Cl. 324-28.
- Markowski, Edwin P., to Barry Controls Inc. Vibration isolator. 2,917,265, 12-15-59, Cl. 248-358.
- Marks, Alfred L. Fishing lure with luminescent eyes. 2,912,783, 11-17-59, Cl. 43-42.05.
- Marks, Alvin M., to Marks Polarized Corp. Glare-eliminating optical system. 2,887,566, 5-19-59, Cl. 240-9.5.
- Marks, Alvin M., to M. M. Marks. Machine for the continuous casting of films directly from solution. 2,897,544, 8-4-59, Cl. 18-15.



- Marks, Barnard M., to E. I. du Pont de Nemours and Co. Thermoplastic molding composition of cyclohexyl methacrylate, methyl methacrylate and an acrylic acid ester of a saturated alcohol having less than 3 carbon atoms. 2,882,261, 4-14-59, Cl. 260—80.5.
- Marks, Beal: *See*—  
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- Marks, Burton S.: *See*—  
Schoepfle, Blaine O., Marks, and Robitschek. 2,913,428.
- Marks, Charles E.: *See*—  
Radke, Donald F., Fagin, and Marks. 2,869,790.
- Marks, Daniel R., to Veliscol Chemical Corp. Improvement in the process of preparing endrin from isodrin. 2,899,446, 8-11-59, Cl. 260—348.5.
- Marks, Edward M. Nailing beam. 2,913,076, 11-17-59, Cl. 189—34.
- Marks, Eugene A., and A. A. Ferguson, to Bourns Laboratories, Inc. Switches. 2,881,277, 4-7-59, Cl. 200—61.45.
- Marks, George M., to Industrial Heat Engineering Co. Safety cut-off valve. 2,875,616, 3-3-59, Cl. 74—2.
- Marks, Henry C., R. R. Joiner, and H. K. Parker, to Wallace & Tiernan Inc. Procedures and compositions for the treatment of flour. 2,903,361, 9-8-59, Cl. 99—93.
- Marks, James R. Irrigation water signal. 2,911,939, 11-10-59, Cl. 116—118.
- Marks, Lou F.: *See*—  
Louik, Leonard, and Marks. 2,913,080.
- Marks, Mortimer M.: *See*—  
Marks, Alvin M. 2,897,544.
- Marks Polarized Corp.: *See*—  
Marks, Alvin M. 2,887,566.
- Marks, Robert E.: *See*—  
Langdon, Howard H., Buresh, Castor, and Marks. 2,890,497.
- Marks, Robert M.: *See*—  
Bauer, Clifford D., Marks, and Bernardoni. 2,871,123.
- Marks, Ronald H. Continuous process and apparatus for making paper yarn. 2,896,393, 7-28-59, Cl. 57—32.
- Marks, Spence T., to United States of America, Army. Method for constructing a barium titanate blast velocity gauge. 2,894,317, 7-14-59, Cl. 29—155.5.
- Marks, Theodore. Automatic machines for making brushes. 2,903,299, 9-8-59, Cl. 300—2.
- Markson, Alfred A., to Hagan Chemicals & Controls, Inc. Trip thermostats having sharp reference temperatures. 2,870,297, 1-20-59, Cl. 200—142.
- Markson, Alfred A., to Hagan Chemicals & Controls, Inc. Pilot assemblies including a low pressure valve and a high pressure valve actuated by a piston in the low pressure valve. 2,904,075, 9-15-59, Cl. 137—622.
- Markstrum, John A., to Thompson Products, Inc. Apparatus and method of making a spirally grooved ball type bearing member. 2,867,145, 1-6-59, Cl. 82—12.
- Markus, George, and M. Siegel, to Aristocrat Leather Products, Inc. Ornamental sheet material. 2,891,340, 6-23-59, Cl. 41—34.
- Markusen, David L., to Minneapolis-Honeywell Regulator Co. Automatic steering mechanism for dirigible craft. 2,877,967, 3-17-59, Cl. 244—77.
- Markwell, Harry D., to Harbor Plywood Corp. Veneer scarfing machine. 2,871,896, 2-3-59, Cl. 144—309.
- Markwood, Paul W.: *See*—  
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- Marland One-Way Clutch Co.: *See*—  
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- Marlen, Leslie C.: *See*—  
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- Marley Co., The: *See*—  
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Baker, Donald R., and Fordyce. 2,892,509.  
Baker, Donald R., Nelson, and Storer. 2,867,016.  
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Jones, Douglas L. 2,918,962.  
Mart, Leon T. 2,872,168.
- Marlin, Elmer D., to The Garrett Corp. Pneumatic speed sensing governor. 2,896,653, 7-28-59, Cl. 137—54.
- Marlin-Rockwell Corp.: *See*—  
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Schultz, Eugene C. 2,902,300.  
Peterson, Carl O. 2,917,328.
- Marlo, Arvid: *See*—  
Strauss, Arvid. 2,896,352.
- Marlor, Bertram H.: *See*—  
Bissell, Kathleen M. 2,883,820.
- Marlow, Jacob, to Robertshaw-Fulton Controls Co. Capacity level control and improved probe. 2,888,945, 6-2-59, Cl. 137—392.
- Marly, Pierre A. Ophthalmological instrument for the examination of the eye-sight. 2,888,856, 6-2-59, Cl. 88—22.
- Marmon, Thomas W. Mason raker. 2,883,854, 4-28-59, Cl. 72—138.
- Marmor, Ralph A.: *See*—  
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- Marohn, Richard P., and W. C. Sealey, to Allis-Chalmers Mfg. Co. Load ratio control circuit with neutralizer winding. 2,909,721, 10-20-59, Cl. 323—43.5.
- Marola, Americo, to The Torrington Co. Mounting for roller bearings. 2,897,022, 7-28-59, Cl. 308—208.
- Maropis, Nicholas: *See*—  
De Prisco, Carmine F., Elmore, and Maropis. 2,917,691.
- Marosi, Jess, to Ford Motor Co. Vehicle parking brake. 2,899,025, 8-11-59, Cl. 188—170.
- Marotta, Ralph J., to Florida Cracker, Inc. Pest control device. 2,917,736, 12-15-59, Cl. 340—386.
- Marple, Rollo, to Hancock Industries, Inc. Door lock. 2,883,847, 4-28-59, Cl. 70—135.
- Marple, Thomas P., to General Railway Signal Co. Railway signaling system with automatic meets between trains. 2,916,612, 12-8-59, Cl. 246—2.
- Marples, Bernard P., and A. Foster, to Powers-Samas Accounting Machines Ltd. Electrically operable prime movers. 2,917,681, 12-15-59, Cl. 317—171.
- Marquardson, Kent F.: *See*—  
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- Marquardt Aircraft Co.: *See*—  
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Rabier, Jean C. 2,886,761.
- Marquardt, John A., to Streeter-Amet Co. Device to determine the position of a moving car irrespective of the number of wheels on each truck thereof. 2,899,544, 8-11-59, Cl. 246—77.
- Marquez, Charles L.: *See*—  
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- Marquis, Donald P., and O. S. French, to Thompson Products, Inc. Wedge biased means for making a joint socket in the side of a tube. 2,868,263, 1-13-59, Cl. 153—21.
- Marquis, Henry. Rolling pin. 2,884,876, 5-5-59, Cl. 107—50.
- Marquis, John F., to Littlefuse Inc. Circuit breaker. 2,887,547, 5-19-59, Cl. 200—113.
- Marquis, Richard F. Door hinge. 2,901,766, 9-1-59, Cl. 16—16.4.
- Marquis, Urban C., to Humble Oil & Refining Co. Mining of sulfur by liquefaction of the sulfur. 2,896,931, 7-28-59, Cl. 262—3.
- Marquis, Urban C., to Humble Oil & Refining Co. Apparatus for hot water sulfur mining. 2,896,932, 7-28-59, Cl. 262—3.
- Marr, Robert L. Quail calling whistle. 2,880,548, 4-7-59, Cl. 46—179.
- Marraffino, Leonard L.: *See*—  
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- Marraffino, Leonard L.,  $\frac{1}{2}$  to J. J. Spero. Striping dispenser. 2,905,364, 9-22-59, Cl. 222—94.
- Marraffino, Leonard L.,  $\frac{1}{2}$  to J. J. Spero. Striping dispenser. 2,914,220, 11-24-59, Cl. 222—145.
- Marraffino, Leonard L.,  $\frac{1}{2}$  to J. J. Spero. Method of dispensing paste-like material. 2,918,199, 12-22-59, Cl. 222—1.
- Marran, John S.: *See*—  
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- Marriott, William L., to Allen Electric and Equipment Co. Rate finder for battery charger. 2,899,624, 8-11-59, Cl. 320—48.
- Marrison, Warren A.: *See*—  
Langmuir, David D., and Marrison. 2,880,337.
- Marrison, Warren A., to Bell Telephone Laboratories, Inc. Apparatus for converting radiant energy to electromechanical energy. 2,919,358, 12-29-59, Cl. 310—46.
- Marrocco, Henry F. Skirt and trouser combination holder and hanger. 2,918,201, 12-22-59, Cl. 223—95.
- Marron, Thomas U., F. K. White, Jr., and H. M. Rosenberger, to A. B. Dick Co. Positive working photolithographic plate and method for manufacturing same. 2,875,046, 2-24-59, Cl. 96—33.
- Mars, Inc.: *See*—  
O'Rourke, John J. 2,904,438.
- Marsan, Arthur E. Ileostomy or drainage appliance. 2,910,065, 10-27-59, Cl. 128—283.
- Marschalk, Paul M. Basketball practice device. 2,918,283, 12-22-59, Cl. 273—1.5.
- Marschka, Frank D., and J. E. Kuehne, to Radio Corp. of America. Composite photoconductive layer. 2,881,042, 4-7-59, Cl. 316—6.
- Marsden, Charles P., Jr., to United States of America, Navy. Automatic evacuation system for electron tubes. 2,894,795, 7-14-59, Cl. 316—30.
- Marsden, Charles P., Jr., and F. H. Brewer, to United States of America, Navy. Ceramic wafer, electronic tube. 2,897,394, 7-28-59, Cl. 313—245.
- Marsden, George B. Protractor. 2,894,326, 7-14-59, Cl. 33—1.
- Marsden, Herman A. Training apparatus for practicing artificial respiration. 2,904,898, 9-22-59, Cl. 35—17.
- Marsden, John F., Jr., to F. T. and R. E. Roberts. Method of making hose. 2,901,024, 8-25-59, Cl. 154—8.
- Marsee, Jack H., to Phillips Petroleum Co. Kick shoe for wash pipe. 2,884,068, 4-28-59, Cl. 166—103.
- Marsee, Frederick J., to Holley Carburetor Co. Engine governor actuator. 2,910,055, 10-27-59, Cl. 123—103.
- Marsel, Charles J., and J. Happel. Manufacturing process for synthetic drying oils. 2,902,457, 9-1-59, Cl. 260—23.
- Marsh, Alfred H., to Sun Oil Co. Liquid proportioning system. 2,870,776, 1-27-59, Cl. 137—99.
- Marsh, Audrey S.: *See*—  
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- Marsh, Charles R., to Westinghouse Electric Corp. Filament shield. 2,876,375, 3-3-59, Cl. 313-117.
- Marsh, Charles W., to Bured, Inc. Braid packaging machine. 2,896,386, 7-28-59, Cl. 53-113.
- Marsh, Charles W. Headrest. 2,917,109, 12-15-59, Cl. 155-177.
- Marsh, David F.: See—  
Thornton, James R., and Marsh. 2,891,069.
- Marsh, David F., to McNeil Laboratories, Inc. Composition and method for relieving spasticity. 2,895,877, 7-21-59, Cl. 167-65.
- Marsh, David F., deceased (A. S. Marsh, executrix), and J. Sam. Composition and method for relieving spasticity. 2,890,985, 6-16-59, Cl. 167-65.
- Marsh, De Loss L. Underwater breathing apparatus. 2,900,977, 8-25-59, Cl. 128-142.
- Marsh, De Loss L., and S. C. Butler. Underwater spear gun. 2,900,972, 8-25-59, Cl. 124-13.
- Marsh, Elda G.: See—  
Ericson, Charles G. 2,884,199.
- Marsh, Gareld E., to General Railway Signal Co. Mechanically resonant decoding apparatus. 2,900,581, 8-18-59, Cl. 317-147.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Corrosion rate metering system. 2,869,003, 1-13-59, Cl. 307-95.
- Marsh, Glenn A., and E. Schaschl, to The Pure Oil Co. Apparatus for determining the pitting rate of a corrosive medium on a metal. 2,888,642, 5-26-59, Cl. 324-71.
- Marsh, Glenn A., L. E. Ellison, and E. Schaschl, to The Pure Oil Co. Indirectly connected corrosion-test probe. 2,912,645, 11-10-59, Cl. 324-65.
- Marsh, Harry S.: See—  
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Neff, Paul J., Christy, Marsh, and McIntyre. 2,886,144.
- Marsh, Howard W.: See—  
Fedotowsky, Leonid, and Marsh. 2,906,932.
- Marsh, Jas. P., Corp.: See—  
Gilbert, Richard H. 2,905,431.  
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- Marsh, John L., to Kalamazoo Vegetable Parchment Co. Apparatus and method of bonding paper having thermoplastic coating. 2,898,973, 8-11-59, Cl. 154-1.
- Marsh, Leon A.: See—  
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- Marsh, Lucille R.: See—  
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- Marsh, Orlo W.: See—  
Southworth, James, Jr., Marsh, Badger, and Drengler. 2,907,809.
- Marsh, Orlo W., to The General Industries Co. Molded plastic rotor hub tightening and driving construction. 2,882,077, 4-14-59, Cl. 287-53.
- Marsh, Richard E., to The Hallcrafters Co. Variable inductor. 2,873,431, 2-10-59, Cl. 336-135.
- Marsh, Richard O., Jr., to Raymond International Inc. Marine platforms. 2,908,141, 10-13-59, Cl. 61-46.5.
- Marsh, Roger: See—  
Kopf, Rowland J., and Marsh. 2,891,249.
- Marsh, Roger, to Olin Mathieson Chemical Corp. Apparatus for handling disks for powder-actuated tools. 2,876,931, 3-10-59, Cl. 221-279.
- Marsh, Roger, to Weapons, Inc. Compensating device used with different size cartridges. 2,887,013, 5-19-59, Cl. 89-193.
- Marsh Stencil Machine Co.: See—  
Hempel, Herbert W. 2,904,155.  
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- Marsh Wall Products, Inc.: See—  
Robinson, Joseph J., Jr. 2,880,481.
- Marshall, Barbara H.: See—  
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- Marshall, Benjamin T., T. A. Reiter, and R. J. Yoder, to Esso Research and Engineering Co. Feed distribution system for a fluidized solids vessel. 2,889,270, 6-2-59, Cl. 208-158.
- Marshall, Charles A.: See—  
Mock, Richard A., Marshall, and Morris. 2,910,445.
- Marshall, Charles O., to Toledo Scale Corp. Centrifugal forced meat chopping machine. 2,878,846, 3-24-59, Cl. 146-124.
- Marshall, Chester B.: See—  
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- Marshall, Claire B.: See—  
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- Marshall, Clifford D.: See—  
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- Marshall, Colin S., to Tiltman Langley Ltd. Power transmission clutch. 2,869,697, 1-20-59, Cl. 192-17.
- Marshall, Donald E., to Westinghouse Electric Corp. Ignitron. 2,917,649, 12-15-59, Cl. 313-171.
- Marshall, Donald G.: See—  
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- Marshall, Elsie W.: See—  
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- Marshall, Frank C.: See—  
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Christie, Soren L., and Marshall. 2,904,748.
- Marshall, George E. E., and G. Inker, to Stothert & Pitt, Ltd. Automatic control for variable capacity pumps. 2,910,943, 11-3-59, Cl. 103-11.
- Marshall, George S. Apparatus for producing a thermal absorption bank of water. 2,902,839, 9-8-59, Cl. 62-354.
- Marshall, Henry P., and R. E. Davies, to Celanese Corp. of America. Composition comprising chlorinated ethylenically unsaturated linear polyester and mixture of monomers copolymerizable therewith. 2,880,193, 3-31-59, Cl. 260-45.4.
- Marshall, James W., and H. W. Cowan, to Hoffman Electronics Corp. UHF antenna multicoupler system or the like. 2,897,499, 7-28-59, Cl. 343-850.
- Marshall, James W., and F. A. Walter, to United States Rubber Co. Apparatus for assembling a vibration damper. 2,914,844, 12-1-59, Cl. 29-235.
- Marshall, John T. Device for teaching diving techniques. 2,886,315, 5-12-59, Cl. 272-1.
- Marshall, John W., deceased, by E. W. Marshall, administratrix. Sectional piston. 2,889,182, 6-2-59, Cl. 309-15.
- Marshall, Jule F., to American Felt Co. Filter-silencer. 2,907,405, 10-6-59, Cl. 183-41.
- Marshall, Leonard S. Aerial tow target. 2,879,999, 3-31-59, Cl. 273-105.3.
- Marshall, Peter L., to North American Aviation, Inc. Control surface. 2,869,805, 1-20-59, Cl. 244-87.
- Marshall, Peter R., and P. J. Ridout, to The Birmingham Small Arms Co. Ltd. Powder metal compacts. 2,872,311, 2-3-59, Cl. 75-200.
- Marshall, Preston F., to The Kendall Co. Grass seed mat and process for making same. 2,909,003, 10-20-59, Cl. 47-56.
- Marshall, Ralph R. Kit case. 2,902,195, 9-1-59, Cl. 224-5.
- Marshall, Raymond W.: See—  
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- Marshall, Robert N.: See—  
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- Marshall, Temple G., Jr., to The National Cash Register Co. Logical circuit element. 2,885,564, 5-5-59, Cl. 250-213.
- Marshall, Thomas E., III: See—  
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- Marshall, Vernon. Towel vending machines. 2,875,923, 3-3-59, Cl. 221-186.
- Marshall, William R., Jr., to Proctor and Schwartz, Inc. Spray drying process. 2,880,794, 4-7-59, Cl. 159-48.
- Marshall, William H. Capping means for storage battery. 2,889,391, 6-2-59, Cl. 136-170.
- Marshburn, James P., and H. W. Willis, 10% to W. R. Hodge. Anchor. 2,870,731, 1-27-59, Cl. 114-208.
- Marsteller, Lester O., to Westinghouse Air Brake Co. Protective electrical discharge devices. 2,907,910, 10-6-59, Cl. 313-231.
- Marston, William T.: See—  
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- Mart, Leon T., to The Marley Co. Forced draft fan-in-base cooling tower. 2,872,168, 2-3-59, Cl. 261-30.
- Martel, Antonin. Loading means for magnetic films ensuring the endless winding up and unwinding of the bands. 2,899,507, 8-11-59, Cl. 179-100.2.
- Martel, Bob E., to Texas Instruments Inc. Clamping mechanism. 2,904,869, 9-22-59, Cl. 24-243.
- Martel, Richard A.: See—  
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- Marteleur, Carl, to International Standard Electric Corp. Magnetic recording and reproducing device. 2,916,559, 12-8-59, Cl. 179-100.2.
- Martell, Jack A.: See—  
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- Martelli, Francesco: See—  
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- Martelli, Guido, N. and F. Rotary machine for the automatic vacuum forming of continuous thermoplastic bands. 2,902,718, 9-8-59, Cl. 18-19.
- Martelli, Nerio: See—  
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- Martens, Albert: See—  
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- Martens, Henry F., to Armour and Co. Poultry package. 2,871,131, 1-27-59, Cl. 99-194.
- Martensson, Marten, and T. J. Lund. Safety shutoff coupling. 2,876,983, 3-10-59, Cl. 251-151.
- Marter, Clarence. Girder pocket form boxes. 2,871,692, 2-3-59, Cl. 72-108.
- Marti, Paul O., Jr., to Standard Oil Co. Anticaking-agent for ammonium nitrate. 2,879,133, 3-24-59, Cl. 23-103.
- Marti, Paul O., Jr., to Standard Oil Co. Anti-caking agent for ammonium nitrate. 2,901,317, 8-25-59, Cl. 23-103.
- Marti, Rueben A. Fourdrinier paper making machine. 2,893,486, 7-7-59, Cl. 162-352.
- Martignon, Daniel: See—  
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- Martin, Albert E., and D. Mounfield, to Sir Howard Grubb, Parsons & Co., Ltd. Sonic gas analysers. 2,874,564, 2-24-59, Cl. 73-24.
- Martin, Alfred R., to Imperial Chemical Industries Ltd. Griseofulvin uses and compositions. 2,900,304, 8-18-59, Cl. 167-65.
- Martin, Alfred W., to Celanese Corp. of America. Purification of methylisobutylketone. 2,871,169, 1-27-59, Cl. 202-60.



- Martin, Andrew S., and J. E. McCleary. Sign supporting bracket. 2,870,935, 1-27-59, Cl. 248—324.
- Martin, Andrew S., and J. E. McCleary. Sign supporting bracket. 2,889,128, 6-2-59, Cl. 248—324.
- Martin, Archer J. P., to Consolidated Electrodynamics Corp. Apparatus for detecting movements of a fluid. 2,890,586, 6-16-59, Cl. 73—204.
- Martin, Archworth: *See*—  
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- Martin, Arlo A., to General Dynamics Corp. Instrument illuminating device. 2,874,268, 2-17-59, Cl. 240—21.
- Martin, Armor B., to Washington Water Power Co. Electric and fuel burning heating system. 2,893,639, 7-7-59, Cl. 237—2.
- Martin, Arthur L. Device for taking clippings from magazines or the like. 2,882,599, 4-21-59, Cl. 30—294.
- Martin, Bernard P., to The McGean Chemical Co. Electrodeposition of nickel. 2,872,392, 2-3-59, Cl. 204—49.
- Martin, Carl A., and P. B. Sweet. Pelletizing calcium tungstate. 2,886,427, 5-12-59, Cl. 75—3.
- Martin, Carleton E., to United States of America, Navy. Three dimensional cam. 2,872,151, 2-3-59, Cl. 251—58.
- Martin, Charles G.,  $\frac{1}{2}$  to Thomas Blaylock and Edward Manthey. Security hinge for filing cabinets. 2,913,296, 11-17-59, Cl. 312—216.
- Martin, Charles L.: *See*—  
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- Martin, Clarence L. Meat patty forming and wrapping apparatus. 2,886,930, 5-19-50, Cl. 53—180.
- Martin, Cletus O.: *See*—  
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- Martin Co., The: *See*—  
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- Martin, Dana W., to Norton Co. Grinding machine. 2,887,828, 5-26-59, Cl. 51—86.
- Martin, Daniel W., to The Baldwin Piano Co. Monaural-binaural transmission of sound for producing a Haas effect. 2,879,683, 3-31-59, Cl. 84—124.
- Martin-Decker Corp.: *See*—  
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- Martin, Donald B. Dispenser. 2,906,432, 9-29-59, Cl. 221—207.
- Martin, Earnest E., and R. W. Walsh; said Martin assor. to said Walsh. Metal drilling apparatus. 2,891,425, 6-23-59, Cl. 77—5.
- Martin, Earnest E., and R. W. Walsh; said Martin assor. to said Walsh. Method of metal drilling. 2,891,426, 6-23-59, Cl. 77—5.
- Martin, Edna F.: *See*—  
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- Martin, Edward G.: *See*—  
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- Martin, Edwin R., to Standard Dayton Corp. Motor control assembly. 2,906,935, 9-29-59, Cl. 318—211.
- Martin, Elmore L., to E. I. du Pont de Nemours and Co. Photopolymerizable composition comprising an unsaturated vinyl polymer and a sheet support coated therewith. 2,892,716, 6-30-59, Cl. 96—115.
- Martin, Elmore L., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions and elements and process of making reliefs therefrom. 2,902,365, 9-1-59, Cl. 96—35.
- Martin, Elmore L., and R. E. Putnam, to E. I. du Pont de Nemours and Co. Process of producing 1,1,4,4-tetrafluorobutadiene and product. 2,888,447, 5-26-59, Cl. 260—92.1.
- Martin, Eugene C.: *See*—  
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- Martin, Eugene E., to Research Corp. Current rectifier. 2,886,736, 5-12-59, Cl. 313—297.
- Martin, Eugene J., to Sylvania Electric Products Inc. Shield and package for electron discharge device. 2,897,252, 7-28-59, Cl. 174—35.
- Martin, Frank J. Self-locking reversing valve. 2,875,780, 3-3-59, Cl. 137—599.1.
- Martin, Francis J., and O. W. Scheflow, to Cleveland Pneumatic Industries, Inc. Actuator finger lock. 2,887,091, 5-19-59, Cl. 121—38.
- Martin, Fred L., to OPW Corp. Nozzle valve for dispensing power fluids. 2,906,302, 9-29-59, Cl. 141—392.
- Martin, Fred P. Hydraulically operated reciprocating cutting assembly. 2,884,752, 5-5-59, Cl. 56—25.
- Martin, Frederick H.: *See*—  
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- Martin, George E., to Wheeling Steel Corp. Method of making a composite structure. 2,869,228, 1-20-59, Cl. 29—428.
- Martin, George E., to Wheeling Steel Corp. Pallet and shipping container. 2,893,588, 7-7-59, Cl. 220—4.
- Martin, George E., to Wheeling Steel Corp. Pallet and shipping container. 2,918,190, 12-22-59, Cl. 220—4.
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Ruhoff, John E., Martin, and Gerfen. 2,895,793.
- Martin, George M. Automatic sheet stacker apparatus. 2,901,250, 8-25-59, Cl. 271—68.
- Martin, Georgia W. Pneumatic conveyor for planting implement. 2,872,248, 2-3-59, Cl. 302—21.
- Martin, Glenn L., Co., The: *See*—  
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- Martin, Gunther J., to Schlumberger Well Surveying Corp. Electronic switch. 2,872,575, 2-3-59, Cl. 250—27.
- Martin, Gunther J., to Schlumberger Well Surveying Corp. Switching circuits. 2,894,130, 7-7-59, Cl. 250—27.
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- Martin, Gustav J., S. Avakian, and A. E. Gal, to The National Drug Co. Propargyl barbiturates. 2,868,690, 1-13-59, Cl. 167—52.
- Martin, Gustav J., and J. M. Beiler, to The National Drug Co. Reserpine-acetamide hypotensive compositions. 2,908,613, 10-13-59, Cl. 167—67.
- Martin, Harry, to Permanent Hair Waving Corp. Hair waving lotion of alkali metal and ammonium salts of an aliphatic mercaptan carboxylic acid. 2,876,781, 3-10-59, Cl. 132—7.
- Martin, Harry. Captive plug coupling. 2,913,791, 11-24-59, Cl. 24—126.
- Martin, Harry M., and D. H. Rush, to Rescue Lite Inc. Signal flares. 2,905,863, 9-22-59, Cl. 315—183.
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- Martin, Henry J. Furnace humidifier system. 2,888,006, 5-26-59, Cl. 126—113.
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- Martin, Homer Z., C. E. Jahnig, and J. W. Herrmann, to Esso Research and Engineering Co. Fluid coking process using transfer-line burner. 2,868,719, 1-13-59, Cl. 208—157.
- Martin, Homer Z., and C. E. Jahnig, to Esso Research and Engineering Co. Fluid coking process with quenching. 2,882,206, 4-14-59, Cl. 202—37.
- Martin, Horst-Edgar: *See*—  
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- Martin, Howard B. and D. W. J., to Pullman Inc. Railway car body construction means. 2,911,933, 11-10-59, Cl. 113—99.
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- Martin, James C.: *See*—  
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- Martin, James C., and J. P. Hawk, to Eastman Kodak Co. Oxidation of acetals. 2,887,512, 5-19-59, Cl. 260—530.
- Martin, James F., to Arizona Activite, Inc. Process for producing micro-organisms and soil conditioners. 2,908,113, 10-13-59, Cl. 47—58.
- Martin, James M. Heat and cold retaining glasses, mugs, bowls and the like. 2,895,636, 7-21-59, Cl. 220—15.
- Martin, James W., to Oil Recovery Corp. Method of recovery of oil by injection of hydrocarbon solution of carbon dioxide into oil structure. 2,875,830, 3-3-59, Cl. 166—7.
- Martin, James W., to Oil Recovery Corp. Process of recovering oil from oil fields involving the use of critically carbonated water. 2,875,833, 3-3-59, Cl. 166—9.
- Martin, James W., F. A. Hessel, I. P. Hammer, and J. B. Rust, to Oil Recovery Corp. Dissemination of wetting agents in subterranean hydrocarbon bearing formations. 2,875,831, 3-3-59, Cl. 166—9.



- Martin, James W., F. A. Hessel, I. P. Hammer, and J. B. Rust, to Oil Recovery Corp. Gaseous hydrocarbon and carbon dioxide solutions in hydrocarbons. 2,875,832, 3-3-59, Cl. 166-9.
- Martin, Jean P. P., to La Brosse & J. Dupont Reunis (Societe Anonyme). Automatic brush-filling machine. 2,893,783, 7-7-59, Cl. 300-9.
- Martin, Jean P. P., to La Brosse & J. Dupont Reunis (Societe Anonyme). Automatic machine for the manufacture of brushes. 2,901,289, 8-25-59, Cl. 300-9.
- Martin, Jerome L., to Commercial Solvents Corp. Process for vapor phase nitration of alkanes. 2,905,724, 9-22-59, Cl. 260-644.
- Martin, Johannes J. Device for disintegrating strands of fuel. 2,867,385, 1-6-59, Cl. 241-32.
- Martin, John: See—  
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- Martin, John F.: See—  
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- Martin, John F., to R. E. Phelon Co., Inc. Magneto mechanism. 2,915,574, 12-1-59, Cl. 123-149.
- Martin, John G., to Bendix Aviation Corp. Brake assembly. 2,893,519, 7-7-59, Cl. 188-71.
- Martin, John R.: See—  
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- Martin, John R., to Esso Research and Engineering Co. Viscosimeter. 2,878,670, 3-24-59, Cl. 73-60.
- Martin, John W., Jr., to Koppers Co., Inc. Ethylene polymerization process. 2,900,373, 8-18-59, Cl. 260-94.9.
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- Martin, Joseph, to Pullman Couch Co. Convertible sofa bed. 2,876,462, 3-10-59, Cl. 5-13.
- Martin, Joseph F., to M. M. Martin and himself. Hydraulic actuator for foot operated emergency brake. 2,867,309, 1-6-59, Cl. 192-4.
- Martin, Joseph F., to M. M. Martin and himself. Vacuum actuator for foot operated emergency brake. 2,867,310, 1-6-59, Cl. 192-4.
- Martin, Joseph M., R. T. Norwood, and P. Winsor, III, to Burroughs Corp. Controlled spacing signal wire distribution system. 2,903,502, 9-8-59, Cl. 174-72.
- Martin, Kenneth P., and W. P. Rowland, to The Colonial Press, Inc. Automatic book feeding mechanism. 2,909,266, 10-20-59, Cl. 198-21.
- Martin, Leslie E., to Sealco Mfg. Inc. End thrust bearing seal. 2,890,901, 6-16-59, Cl. 286-11.
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- Martin, Lonzy M.: See—  
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- Martin, Lyle, to Bendix Aviation Corp. Torque tube torque motor. 2,905,871, 9-22-59, Cl. 317-197.
- Martin, Lyle, to Bendix Aviation Corp. Control circuit. 2,910,624, 10-27-59, Cl. 317-5.
- Martin, Lyle, to Bendix Aviation Corp. Magnetic amplifier system. 2,910,642, 10-27-59, Cl. 323-89.
- Martin, Lynn P., to W. A. Sheaffer Pen Co. Writing implement. 2,914,028, 11-24-59, Cl. 120-42.16.
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Martin, Joseph F. 2,867,310.
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- Martin, Menno G., to The Shaw-Walker Co. Payroll record and computing papers. 2,869,898, 1-20-59, Cl. 282-27.
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- Martin, Orville R., to The General Tire & Rubber Co. Molded rubber football. 2,874,965, 2-24-59, Cl. 273-65.
- Martin, Owen D., to American Motors Corp. Refrigerant control means for maintaining multiple temperatures. 2,914,925, 12-1-59, Cl. 62-197.
- Martin-Parry Corp.: See—  
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- Martin, Paul N., to Westinghouse Air Brake Co. Alternating current track circuit with direct current track relay superimposed thereon. 2,880,307, 3-31-59, Cl. 246-34.
- Martin, Paul N., to Consolidated Electronics Industries Corp. Relay. 2,913,548, 11-17-59, Cl. 200-87.
- Martin, Paul S. Camera shutters. 2,917,982, 12-22-59, Cl. 95-62.
- Martin, Raymond N. and J. R. Cigarette extinguishing device. 2,879,776, 3-31-59, Cl. 131-256.
- Martin, Reginald J.: See—  
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- Martin, Richard H., Jr., to Monsanto Chemical Co. Vinyl chloride interpolymers. 2,898,244, 8-4-59, Cl. 117-232.
- Martin, Richard H., Jr., to Monsanto Chemical Co. Vinyl halide suspension polymerization process. 2,917,494, 12-15-59, Cl. 260-78.5.
- Martin, Richard J.: See—  
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- Martin, Robert J.: See—  
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- Martin, Robert M. Furniture leg build up. 2,893,164, 7-7-59, Cl. 45-137.
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- Martin, Robert W., to Shell Development Co. Epoxy ethers of polyhydroxy-polyhydrocarbyl-substituted benzenes and their polymers. 2,914,507, 11-24-59, Cl. 260-47.
- Martin, Robert W., and F. E. Condo, to Shell Development Co. Process for preparing resins of poly-substituted benzenes. 2,870,098, 1-20-59, Cl. 260-2.
- Martin, Roger M. L. Solid fuel flow controller. 2,894,466, 7-14-59, Cl. 110-101.
- Martin, Royce H. Fletching jig. 2,897,860, 8-4-59, Cl. 144-289.
- Martin, Samuel W., to Pitney-Bowes, Inc. Envelope stuffing machine. 2,914,895, 12-1-59, Cl. 53-59.
- Martin, Stanley, to British Scientific Instrument Research Corp. Devices for measuring relative humidity. 2,886,682, 5-12-59, Cl. 201-63.
- Martin, Steve E., to Bendix Aviation Corp. Power driven fluid pressurizing device. 2,875,583, 3-3-59, Cl. 60-54.6.
- Martin, Tellis A., to Mead Johnson & Co. 1,4-bis-(D-glucosyl)piperazine and process of preparation. 2,910,465, 10-27-59, Cl. 260-211.5.
- Martin, Tellis A., and D. I. Randall, to General Aniline & Film Corp. Vat dyestuffs. 2,908,684, 10-13-59, Cl. 260-276.
- Martin, Victor S., to Western Electric Co., Inc. Methods of making insulated conductors. 2,883,314, 4-21-59, Cl. 154-224.
- Martin, Warren S. Powder-disseminating device. 2,870,565, 1-27-59, Cl. 43-148.
- Martin, Warren S., to Plant Products Corp. Dusting device. 2,892,286, 6-30-59, Cl. 43-148.
- Martin, Warren W. Roller-type paint applicator. 2,882,542, 4-21-59, Cl. 15-132.5.
- Martin, Wayne A., to Lyon Inc. One step cold nosing of shells. 2,913,804, 11-24-59, Cl. 29-1.21.
- Martin, Wesley L.: See—  
Gormley, Robert S., Johnson, and Martin. 2,878,415.
- Martin, William. Drinking fountain with a connector conduit. 2,899,137, 8-11-59, Cl. 239-29.
- Martin, William A., to Eastman Kodak Co. Camera turret indexing mechanism. 2,869,445, 1-20-59, Cl. 95-45.
- Martin, William C., Jr., to Magni-Power Co. Magnetic door holder. 2,896,991, 7-28-59, Cl. 292-251.5.
- Martin, William C., Jr., to Magni-Power Co. Magnetic separator. 2,912,106, 11-10-59, Cl. 209-223.
- Martin, William E. Flexible coupling. 2,879,650, 3-31-59, Cl. 64-10.
- Martin, William J., and E. J. Kraus. Guide markers. 2,868,123, 1-13-59, Cl. 101-400.
- Martin, William M., to James Dole Engineering Co. Preserving products in sealed containers. 2,870,024, 1-20-59, Cl. 99-182.
- Martin, William O., to Crerar, Adams & Co. Control valve. 2,886,377, 5-12-59, Cl. 303-68.
- Martindale, James H., to The Black-Clawson Co. Paper machinery. Re. 24,677, 7-28-59, Cl. 210-415.
- Martindell, Frank: See—  
Bass, George E., and Martindell. 2,889,021.
- Martindell, Frank, to Ferracuta Machine Co. Assembled head for metal-working press. 2,890,648, 6-16-59, Cl. 100-214.
- Martindell, Frank, to Ferracuta Machine Co. Clutch-brake mechanism. 2,890,773, 6-16-59, Cl. 192-18.
- Martindell, Frank, to Ferracuta Machine Co. Ram adjustment mechanism for presses. 2,910,898, 11-3-59, Cl. 78-41.
- Martindell, Frank, to Fairchild Camera & Instrument Corp. Tape controlled embossing machine. 2,911,086, 11-3-59, Cl. 197-20.
- Martinez, Eugene F., to Health-Mor, Inc. Suction cleaner nozzle construction for cleaning cotton rugs. 2,893,048, 7-7-59, Cl. 15-422.
- Martinez, Eugene F., to Health-Mor, Inc. Portable filter demonstration device for suction cleaner. 2,908,088, 10-13-59, Cl. 35-13.
- Martinez, Eugene F., to Health-Mor, Inc. Suction cleaner tool holder construction. 2,918,692, 12-29-59, Cl. 15-323.
- Martinek, George A. Shot gun rib sight. 2,874,504, 2-24-59, Cl. 42-76.
- Martinek, Thomas W.: See—  
Remes, Nathaniel L., and Martinek. 2,890,255.  
Remes, Nathaniel L., Martinek, and Fronczak. 2,913,409.
- Martinek, Thomas W., to The Pure Oil Co. Waterproof silica-base greases. 2,891,010, 6-16-59, Cl. 252-28.
- Martinek, Thomas W., to The Pure Oil Co. Apparatus for preparing colloidal dispersions. 2,905,448, 9-22-59, Cl. 259-9.
- Martinek, Thomas W., and E. T. Fronczak, to The Pure Oil Co. Anhydrous calcium base greases containing free fatty acid. 2,900,340, 8-18-59, Cl. 252-40.
- Martinez, Alfred. Spring activated cuff links. 2,879,571, 3-31-59, Cl. 24-102.
- Martinez, Melroy M. Sea food processing apparatus. 2,873,473, 2-17-59, Cl. 17-2.



- Martinez, Michele P. L., to Panacolor, Inc. Photographic iron-silver color process. 2,886,435, 5-12-59, Cl. 96-49.
- Martini, Leo A. Means for drilling. 2,905,439, 9-22-59, Cl. 255-44.
- Martini, William R.: *See*—  
McElroy, William N., and Martini. 2,879,146.
- Martiniak, Leonard J., and J. E. Bebinger, to General Electric Co. Washing apparatus with water conditioning dispenser. 2,867,224, 1-6-59, Cl. 134-58.
- Martinmaas, Werner, Jr. Sharpener for mower sickle section. 2,893,268, 7-21-59, Cl. 51-250.
- Martino, Albert J.: *See*—  
Noltin, Frederick, and Martino. 2,887,194.
- Martino, Eugene A.: *See*—  
Hirt, Gerald E., and Martino. 2,900,150.
- Martinoli, Sante T. Apparatus for increasing efficiency of internal combustion engines. 2,889,904, 6-9-59, Cl. 192-3.
- Martins, Thomas, to Rhymney Engineering Co. Ltd. Load hoisting and lowering skips. 2,901,281, 8-25-59, Cl. 294-69.
- Martinson, Edwin O., to Koehring Co. Automatic driving mechanism. 2,885,043, 5-5-59, Cl. 192-13.
- Martinson, Vassili: *See*—  
Olsson, Sven M. J., and Martinson. 2,911,455.
- Martire, Louis, Jr. Food tray. 2,878,932, 3-24-59, Cl. 206-72.
- Martt, Ernest C., and D. E. Beeninga, to General Electric Co. Arc tube mount. 2,888,585, 5-26-59, Cl. 313-25.
- Martt, William E. Fender for vehicle trailer. 2,914,341, 11-24-59, Cl. 280-152.
- Marturano, Anthony G. Slide changer-recorder synchronizer. 2,889,742, 6-9-59, Cl. 88-28.
- Martuscello, Peter J., and M. G. Stermer, to Corning Glass Works. Sheet glass manufacture. 2,880,551, 4-7-59, Cl. 49-17.
- Marty, René. Magnetic talking machine. 2,909,616, 10-20-59, Cl. 179-100.2.
- Marty, Walter, to Maschinenfabrik Benninger A.-G. Apparatus for the treatment of products of fibrous material. 2,918,813, 12-29-59, Cl. 68-43.
- Martz, Bernard A.: *See*—  
Jurgensen, Louis A., and Martz. 2,881,983.
- Marugg, Frank P. Wheel clamp. Re. 2,4712, 10-6-59, Cl. 70-225.
- Maruhn, Herbert F. W., to Daimler-Benz Akt. Motor vehicle transmission gear bracing means. 2,888,999, 6-2-59, Cl. 180-54.
- Maruo, Hisao. Muffler. 2,908,344, 10-13-59, Cl. 181-59.
- Maruska, Edwin J., 1/2 to L. V. Monfre. Tie holder. 2,905,329, 9-22-59, Cl. 211-13.
- Maryama, Iwajiro. Heald frame. 2,877,803, 3-17-59, Cl. 139-92.
- Maryama, Taketo, T. Sakamoto, S. Tamura, E. Kawahara, and T. Okubo, to Toyo Rayon Co., Ltd. Apparatus for producing special rayon yarn. 2,896,252, 7-28-59, Cl. 18-8.
- Maruzen Kabushiki Kaisha: *See*—  
Nishigori, Kimpel, and Hayashi. 2,899,891.
- Marvalaud, Inc.: *See*—  
Gibbons, Thomas P. 2,899,728.
- Pond, Robert B. 2,879,566.
- Pond, Robert B. 2,900,708.
- Pond, Robert B. 2,907,082.
- Pond, Robert B. 2,910,744.
- Wade, Worth. 2,886,866.
- Wade, Worth, Pond, and Gibbons. 2,904,859.
- Marvel Specialty Co.: *See*—  
Harralson, George G., Jr. 2,890,818.
- Newton, Charles G., and Church. 2,903,889.
- Marvel Specialty Co., Inc.: *See*—  
Laxson, J. T. 2,869,765.
- Marvin, Edgar S., and R. F. O'Brien, to Eastman Kodak Co. Double exposure prevention device. 2,874,624, 2-24-59, Cl. 95-31.
- Marvin, Edgar S., and R. F. O'Brien, to Eastman Kodak Co. Lens focusing mechanism for cameras. 2,908,209, 10-13-59, Cl. 95-45.
- Marvin, George, to Marvin Landplane Co. Combination agricultural implement. 2,870,554, 1-27-59, Cl. 37-153.
- Marvin, Howard L., and P. G. Stimson, to The Standard Register Co. Record material processing machine. 2,911,905, 11-10-59, Cl. 101-93.
- Marvin, John T., to General Motors Corp. Ice block ejecting arrangement. 2,882,700, 4-21-59, Cl. 62-267.
- Marvin Landplane Co.: *See*—  
Marvin, George. 2,870,554.
- Marvin, Philip R., to Union Carbide Corp. Method of gas plating. 2,905,573, 9-22-59, Cl. 117-60.
- Marvin, Philip R., to Union Carbide Corp. Adhesive tape with a gas plated metal film for a conductor. 2,916,398, 12-8-59, Cl. 117-68.
- Marvin, W. B., Mfg. Co.: *See*—  
Johnson, James B. 2,892,605.
- Marwil, Stanley J.: *See*—  
Tek, Mehmet R., and Marwil. 2,910,424.
- Marx, Alfred: *See*—  
Moehrl, Eduard, Marx, and Franck. 2,885,406.
- Marx, John W., to Phillips Petroleum Co. Vibratory impact tool. 2,893,692, 7-7-59, Cl. 255-4.
- Marx, John W., to Phillips Petroleum Co. Apparatus for measuring properties of gases. 2,908,819, 10-13-59, Cl. 250-43.5.
- Marx, Karl, and M. Stäubli, to Maschinenfabrik Schweizer A. G. Method of and arrangement for winding the starting end yarn on to pirns in automatic weft pirn winding machines. 2,867,388, 1-6-59, Cl. 242-27.
- Marx, Louis, & Co., Inc.: *See*—  
Case, Noel L., and Dohanic. 2,890,887.
- Lohr, Raymond J., and Hubiak. 2,898,796.
- Marx, Michael: *See*—  
Smith, Leland L., Marx, and Muller. 2,905,662.
- Marx, Paul F., to Dresser Industries, Inc. Pipe coupling. 2,887,446, 5-19-59, Cl. 204-197.
- Marx, Paul M.: *See*—  
Scheuer, Fred F., and Marx. 2,870,475.
- Marxer, Adrian, to Ciba Pharmaceutical Products, Inc. New hydroxy-quinones and process for preparing same. 2,893,991, 7-7-59, Cl. 260-239.
- Maryanski, John L., and M. L. Valentino, to Bardons & Oliver, Inc. Collet. 2,863,550, 1-13-59, Cl. 279-50.
- Marygold, George E., to Northrop Corp. Clamp device. 2,904,294, 9-15-59, Cl. 248-74.
- Maryland Baking Co., The: *See*—  
Heyman, Albert A. 2,877,117.
- Maryland Cup Co., The: *See*—  
Carter, Paul H. 2,879,935.
- Maryland Devices, Inc.: *See*—  
Samuels, Abe O. 2,906,265.
- Maryland Engineering Co.: *See*—  
Neer, Clifford H. 2,869,297.
- Maryland Shipbuilding and Drydock Co.: *See*—  
Schonhoff, John A., and Borkowski. 2,868,932.
- März, Otto, to Metzeler Gummiwerke AG. Inflatable boat. 2,873,459, 2-17-59, Cl. 9-2.
- Marzan, Peter R., to Times Facsimile Corp. Facsimile recording system. 2,877,297, 3-10-59, Cl. 178-6.6.
- Marzetta, Louis A., to United States of America, Commerce. Automatic tracking proximity gage. 2,871,432, 1-27-59, Cl. 318-31.
- Marzocchi, Alfred: *See*—  
Park, John K., and Marzocchi. 2,886,470.
- Marzocchi, Alfred, R. F. Caroselli, and G. E. Rammel, to Owens-Corning Fiberglass Corp. Method of cleaning and coating sized glass fabric. 2,868,669, 1-13-59, Cl. 117-46.
- Marzolf, George B., Sr. Multiple piece pipe flange. 2,911,239, 11-3-59, Cl. 285-415.
- Mascaro, Anthony. Pump. 2,917,002, 12-15-59, Cl. 103-149.
- Maschinenfabrik Augsburg-Nürnberg A. G.: *See*—  
Dietrich, Paul. 2,887,045.
- Gercke, Erwin. 2,916,162.
- Herwig, Otto. 2,909,416.
- Hofer, Max. 2,886,945.
- Liebel, Julius. 2,914,044.
- Meurer, Siegfried. 2,868,187.
- Meurer, Siegfried. 2,873,727.
- Meurer, Siegfried, Ramundt, Merkel, and Liebel. 2,904,028.
- Reinartz, Robert. 2,874,635.
- Scheuerpflug, Hans. 2,874,792.
- Scheuerpflug, Hans. 2,874,851.
- Scheuerpflug, Hans. 2,893,502.
- Sorensen, Emil. 2,874,932.
- Maschinenfabrik Benninger A. G.: *See*—  
Marty, Walter. 2,918,813.
- Stobi, Johann. 2,883,950.
- Maschinenfabrik Goebel G. m. b. H.: *See*—  
Saubertlich, Willy, and Hickethier. 2,873,672.
- Maschinenfabrik Hasenclever A. G.: *See*—  
Nilgen, Anton. 2,911,861.
- Maschinenfabrik Heid Akt.: *See*—  
Prähauser, Heinrich, and Petschauer. 2,875,875.
- Maschinenfabrik Lorenz Aktiengesellschaft: *See*—  
Rothe, Gerhard. 2,909,102.
- Maschinenfabrik Schweizer A. G.: *See*—  
Marx, Karl, and Stäubli. 2,867,388.
- Schweiter, Walter. 2,873,063.
- Schweiter, Walter. 2,873,883.
- Maschinenfabrik Stromag G. m. b. H.: *See*—  
Schlotmann, Karl, and Mitsche. 2,893,223.
- Maschinenfabrik Surth Zweigniederlassung der Gesellschaft für Linde's Eismaschinen Aktiengesellschaft: *See*—  
Eich, Hans. 2,918,086.
- Masciantonio, Philip: *See*—  
Gruenbaum, Heinz, and Masciantonio. 2,882,280.
- Masera, Giovanni. Shoe made of thermo-plastic or thermo-setting material or the like. 2,887,794, 5-26-59, Cl. 36-25.
- Mash, Derek H., to Thorn Electrical Industries Ltd. Combined electro-luminescent and photo-conductive devices. 2,918,582, 12-22-59, Cl. 250-213.
- Mash, Derek H., to Thorn Electrical Industries Ltd. Electro-luminescent devices. 2,919,366, 12-29-59, Cl. 313-108.
- Mashio, Fujio, and S. Kato, to Fine Organics Inc. Method for the simultaneous production of hydrogen peroxide and carbonyl compounds. 2,910,415, 10-27-59, Cl. 204-158.
- Masi, Frank J., and A. F. Millett, to United States Radium Corp. Fluorescent X-ray screens. 2,904,689, 9-15-59, Cl. 250-80.
- Masinda, Albert G., to IBC Products, Inc. Locator pin. 2,879,599, 3-31-59, Cl. 33-125.
- Maskin Aktiebolaget Plavia: *See*—  
Plaven, Ola. 2,913,114.
- Maskinfirma R. L. Carlstedt: *See*—  
Kleine, Werner K. M. 2,895,355.



- Masko, Vincent E.:** *See—*  
Holdeman, John W., Masko, Polomski, and Whelpley. 2,895,344.
- Masland, C. H., & Sons:** *See—*  
Doyle, Thomas A. 2,879,805.  
Harding, John H. 2,915,091.  
Hoeselbarth, Frank W. E. 2,867,244.  
Hoeselbarth, Frank W. E. 2,867,245.  
Hoeselbarth, Frank W. E. 2,882,845.  
Hoeselbarth, Frank W. E. 2,883,735.  
Hoeselbarth, Frank W. E. 2,884,012.  
Hoeselbarth, Frank W. E. 2,884,013.  
Hoeselbarth, Frank W. E. 2,891,582.  
Hoeselbarth, Frank W. E. 2,898,947.  
Hoeselbarth, Frank W. E. 2,905,202.  
Hoeselbarth, Frank W. E. 2,905,203.  
Hoeselbarth, Frank W. E. 2,908,296.  
MacCaffray, Rex S., Jr. 2,891,396.  
MacCaffray, Rex S., Jr. 2,907,191.  
MacCaffray, Rex S., Jr. 2,907,193.  
Masland, Charles H., 2nd. 2,880,684.
- Masland, Charles H., 2nd, deceased;** C. H. Masland, 3rd and D. L. Masland, executors, to C. H. Masland & Sons. Formation of high and low pile by needling. 2,880,684, 4-7-59, Cl. 112-79.
- Masland, Charles H., 3rd:** *See—*  
Masland, Charles H., 2nd. 2,880,684.
- Masland, Daniel L.:** *See—*  
Masland, Charles H., 2nd. 2,880,684.
- Maslin, Thomas I., and O. A. Herman,** to General Electric Co. Illuminated oil-tight pushbutton. 2,916,673, 12-8-59, Cl. 317-99.
- Maslow, John F., and R. J. Zeitler,** to Flight Refueling Inc. Check valve. 2,913,001, 11-17-59, 127-527.4.
- Maslow, Louis.** Shelving unit. 2,894,643, 7-14-59, Cl. 211-148.
- Masnuk, Walter, E. V. Romeo, and J. V. Zurlo,** to Specialties Development Corp. Piston driving mechanism and lubricating means therefor. 2,877,653, 3-17-59, Cl. 74-60.
- Mason, Christopher A.** Femoral nail. 2,874,691, 2-24-59, Cl. 128-92.
- Mason, Edward A., C. E. Tirrell, and T. A. Kirkham,** to Ionics, Inc. Centered strap spacer for electrodiagnosis unit. 2,891,899, 6-23-59, Cl. 204-301.
- Mason, Edward M.,** to Impax, Inc. Hydraulically damped spring-biased pistons and cylinders. 2,905,458, 9-22-59, Cl. 267-1.
- Mason, Edwin.** Cigarette holder. 2,884,930, 5-5-59, Cl. 131-175.
- Mason, Francis G.:** *See—*  
Coutermarsh, Louis E., and Mason. 2,868,984.
- Mason, Francis G.,** to Aladdin Industries Inc. Cam drive for tuners. 2,883,864, 4-28-59, Cl. 74-10.6.
- Mason, Francis G.,** to Aladdin Industries, Inc. Ultrahigh frequency tuner. 2,913,683, 11-17-59, Cl. 333-82.
- Mason, Frederick P.,** to Creed & Co. Ltd. Facsimile recording apparatus. 2,889,398, 6-2-59, Cl. 178-4.1.
- Mason, Frederick P., and R. G. Stemp,** to Creed & Co. Ltd. Printing telegraph transmitter control. 2,903,106, 9-8-59, Cl. 192-02.
- Mason, Frederick P., and G. J. L. Stevens,** to Creed & Co. Ltd. Power supply equipment. 2,916,682, 12-8-59, Cl. 318-171.
- Mason, Hal F., and A. E. Long.** Venetian blind bottom rail and clip. 2,868,282, 1-13-59, Cl. 160-173.
- Mason, Hal F., and A. E. Long.** Venetian blind slat and clip. 2,868,283, 1-13-59, Cl. 160-173.
- Mason, Hal F., and A. E. Long.** Venetian blind. 2,868,284, 1-13-59, Cl. 160-177.
- Mason, Harry L., and D. L. Noble,** to Sperry Rand Corp. Electronic computing circuits utilizing enhancement amplifiers. 2,908,830, 10-13-59, Cl. 307-88.5.
- Mason, Henry L.,** to United States of America, Commerce. Mass flowmeter. 2,896,450, 7-28-59, Cl. 73-194.
- Mason, Homer R.** Drapery traverse rods. 2,880,955, 4-7-59, Cl. 248-263.
- Mason, Jack S.:** *See—*  
Skelton, Charles W., Mason, and Whisenant. 2,886,661.
- Mason, James A., and H. H. Duff,** to Machinery Electrification, Inc. Coiling apparatus. 2,870,972, 1-27-59, Cl. 242-25.
- Mason, James H.** Colostomy device. 2,869,548, 1-20-59, Cl. 128-283.
- Mason, Maurice M.** Ignition distributor. 2,879,346, 3-24-59, Cl. 200-21.
- Mason, Richard C., 1/2 to M. J. McNulty, Jr.** Plunger pump. 2,906,210, 9-29-59, Cl. 103-158.
- Mason, Richard J.,** to Bendix Aviation Corp. Accumulator. 2,873,682, 2-17-59, Cl. 103-52.
- Mason, Robert S.,** to The Dow Chemical Co. Film slip tester. 2,887,874, 5-26-59, Cl. 73-9.
- Mason, Robert W., and A. W. Yodis,** to Allied Chemical Corp. Apparatus for production of high purity elemental silicon. 2,912,311, 11-10-59, Cl. 23-277.
- Mason, Samuel J.,** to United States of America, Navy. Metal-plate lens microwave antenna. 2,884,629, 4-28-59, Cl. 343-753.
- Mason Silk Co., The:** *See—*  
Vandervoort, Norman F. 2,911,784.
- Mason, Stanley A.** Spinning fish lure. 2,911,751, 11-10-59, Cl. 43-42.06.
- Mason, Veyne V.** Rotary seal structure. 2,915,326, 12-1-59, Cl. 286-5.
- Mason, Vincent I.,** to Boston Mfg. Co. Moisture detector. 2,872,668, 2-3-59, Cl. 340-235.
- Mason, Walker, and S. J. Biello,** to Avco, Inc. Line hydraulic pressure relief valve. 2,884,952, 5-5-59, Cl. 137-494.
- Mason, Walter A.** Product for effecting a cold chemical oxidation of copper and its alloys. 2,878,149, 3-17-59, Cl. 148-6.24.
- Mason, Warren P.:** *See—*  
Kohman, Girard T., Mason, and McAfee. 2,892,508.
- Mason, Warren P.,** to Bell Telephone Laboratories, Inc. Metal connection. 2,870,241, 1-20-59, Cl. 174-94.
- Mason, Warren P.,** to Bell Telephone Laboratories, Inc. Ferroelectric torsional transducer. 2,880,334, 3-31-59, Cl. 310-9.6.
- Mason, Warren P.,** to Bell Telephone Laboratories, Inc. Piezoelectric switching device. 2,883,486, 4-21-59, Cl. 200-87.
- Mason, Warren P.,** to Bell Telephone Laboratories, Inc. Electrostrictive ceramics comprising a principal component of barium titanate. 2,906,973, 9-29-59, Cl. 333-72.
- Mason, Warren P.,** to Bell Telephone Laboratories, Inc. Method and apparatus for eliminating mechanical vibrations in aerial cables. 2,907,811, 10-6-59, Cl. 174-42.
- Mason, Warren P., and R. N. Thurston,** to Bell Telephone Laboratories, Inc. Torsional vibrational wave filters and delay lines. 2,906,971, 9-29-59, Cl. 333-71.
- Mason, Willard F.,** to N. Anton. Printed circuit connector. 2,882,511, 4-14-59, Cl. 339-176.
- Mason, William G.:** *See—*  
Colette, Michael. 2,868,918.
- Mason, Wylie A., Jr.,** to International Harvester Co. Control apparatus for agricultural implement. 2,869,656, 1-20-59, Cl. 172-458.
- Masonite Corp.:** *See—*  
Foley, Edward A. 2,898,720.  
Robinson, Joseph J., Jr., and Story. 2,906,034.
- Masonson, Martin:** *See—*  
De Rosa, Louis A., Masonson, and Lundburg. 2,915,750.
- Masonson, Martin,** to International Telephone and Telegraph Corp. Correlation system. 2,906,956, 9-29-59, Cl. 324-83.
- Massachusetts Institute of Technology:** *See—*  
Coffin, Stewart T. 2,902,600.
- Massarani, Elena:** *See—*  
Cavallini, Guido, and Massarani. 2,878,291.  
Cavallini, Guido, and Massarani. 2,885,434.  
Cavallini, Guido, and Massarani. 2,895,963.
- Massari, Frank.** Waste basket holder. 2,877,976, 3-17-59, Cl. 248-313.
- Massari, Joseph.** Contractile tool holder. 2,905,028, 9-22-59, Cl. 77-4.
- Massaro, Frank J.** Game apparatus. 2,902,284, 9-1-59, Cl. 273-144.
- Massat, Heinz:** *See—*  
Indest, Heinz, Massat, and Stohr. 2,884,414.
- Masse, Francis X.:** *See—*  
Robinson, Charles V., and Masse. 2,886,034.
- Masselin, Jacques G.,** to Compagnie Francalse Thomson-Houston. Search receiver with stop-on-signal means having sawtooth oscillator halted responsive to signal. 2,884,519, 4-28-59, Cl. 250-20.
- Massen, Armand:** *See—*  
Uhler, Wilmer P., and Massen. 2,879,595.
- Massen, Armand,** to The S. S. White Dental Mfg. Co. High speed handpiece. 2,879,594, 3-31-59, Cl. 32-26.
- Massengale, John T.:** *See—*  
Loev, Bernard, and Massengale. 2,899,444.
- Massengale, John T., and R. H. Elliott, Jr.,** to Pennsalt Chemicals Corp. Chemical composition and process for aluminum etching. 2,872,301, 2-3-59, Cl. 41-42.
- Massengill, Robert T.** Apparatus for preparing hams. 2,893,051, 7-7-59, Cl. 17-1.
- Massengill, S. E., Co., The:** *See—*  
Leake, Norman H., and Fielden. 2,887,486.
- Masser, Lloyd D.,** to Neway Equipment Co. Axle mounting for running gear for automotive vehicles. 2,907,579, 10-6-59, Cl. 280-124.
- Massey, Albert G.,** to Curtiss-Wright Corp. Transient load compensating system for hydraulic governors. 2,910,968, 11-3-59, Cl. 121-42.
- Massey-Ferguson Inc.:** *See—*  
Ashton, Robert. 2,881,580.  
Ashton, Robert. 2,886,016.  
Beck, Henry E. 2,869,665.  
Belkowski, Jerzy, and Hockey. 2,875,768.  
Bjerre, Peder. 2,881,956.  
Davis, Charles J. 2,883,067.  
Davis, Charles J. 2,897,986.  
Davis, Charles J. 2,912,130.  
Forgach, Calman. 2,880,452.  
Gardner, Guy F. 2,907,396.  
Kepkay, Leslie L. 2,885,120.  
Klemm, Herman G. 2,875,840.  
Krause, Leonard M. 2,912,089.  
Miller, William G. 2,885,953.  
Miller, William G., and Krause. 2,869,660.  
Nelson, Noral A., Wathen, and Thompson. 2,882,813.  
Peterson, Merton W. 2,886,114.  
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Todd, Everett W. 2,915,130.  
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- Massey-Harris-Ferguson (Sales) Ltd.: *See*—  
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Senkowski, Alexander, and Lynes. 2,888,998.
- Massey, Lester G., and W. K. T. Gleim; said Massey assor. to Universal Oil Products Co. Contacting apparatus. 2,914,385, 11-24-59, Cl. 23-270.5.
- Massey, Paul D.: *See*—  
Kass, Lawrence W., and Massey. 2,880,826.
- Massier, Walter. Special purpose chuck. 2,894,758, 7-14-59, Cl. 279-56.
- Massillon-Cleveland-Akron Sign Co., The: *See*—  
Frey, Edward. 2,882,630.  
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Frey, Edward. 2,911,746.  
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Mollet, Samuel J., III. 2,893,147.
- Massin, Hyman D.: *See*—  
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- Massingill, Elton T., to Lennox Industries, Inc. Evaporative cooler pump. 2,902,939, 9-8-59, Cl. 103-87.
- Massman, Albert W., to Motorola, Inc. Color television receiver oscillator control. 2,874,289, 2-17-59, Cl. 250-36.
- Massman, Albert W., to Motorola, Inc. Color television receiver. 2,880,361, 3-31-59, Cl. 315-13.
- Massman, Albert W., and R. A. Kraft, to Motorola, Inc. Television receiver. 2,872,512, 2-3-59, Cl. 178-7.3.
- Massman, Irwin. Nail polish container, mixer and applicator. 2,904,808, 9-22-59, Cl. 15-105.
- Masson, Auguste. Stone dressing and planing machines. 2,912,969, 11-17-59, Cl. 125-23.
- Masson, Bernard: *See*—  
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- Mast Development Co., Inc.: *See*—  
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Mast, Gifford M. 2,908,094.  
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- Mast, Fred: *See*—  
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- Mast, Fred, W. Baumgartner, F. Held, and E. Baumann, to Gesellschaft zur Förderung der Forschung an der Eidg. Techn. Hochschule. Arrangement for amplifying the light intensity of an optically projected image. 2,896,507, 7-28-59, Cl. 88-61.
- Mast, Gifford M., to Mast Development Co. Transparency viewer. 2,908,094, 10-13-59, Cl. 40-106.1.
- Mast, Gifford M., W. K. Gannett, and W. A. Taylor, to Mast Development Co., Inc. Dot counters. 2,875,950, 3-3-59, Cl. 235-64.
- Masta, Alexander. Driving mechanism for watercraft. 2,884,890, 5-5-59, Cl. 115-42.
- Mastabar Mining Equipment Co. Ltd.: *See*—  
Tebb, Bernard, and Perry. 2,895,454.  
Wood, John G., Hainsworth, and Tebb. 2,870,886.
- Mastak, Edmond J., to Summit Mfg. Co., a Division of Ace Tool Engineering Co., Inc. Apparatus for testing wall structure of hollow articles. 2,874,566, 2-24-59, Cl. 73-40.
- Master Lock Co.: *See*—  
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Soref, Harry E., and Foote. 2,893,231.
- Master Pneumatic, Inc.: *See*—  
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- Master Pneumatic Tool Co., Inc.: *See*—  
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- Master Vibrator Co.: *See*—  
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Barnes, Ralph G. 2,869,441.  
Barnes, Ralph G. 2,878,730.
- Masters, Albert T.: *See*—  
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- Masters, Albert T., to Olin Mathieson Chemical Corp. Explosively driven stud with split shank locking means. 2,898,964, 8-11-59, Cl. 151-41.73.
- Masters, Charles R.: *See*—  
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- Masters, Edwin L.: *See*—  
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- Masters, John E.: *See*—  
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Cooke, Harold G., Jr., and Masters. 2,909,496.
- Masters, John E., to Devco & Reynolds Co., Inc. Epoxide-anhydride-hydroxy polymer compositions and method of making same. 2,908,663, 10-13-59, Cl. 260-45.5.
- Masters, John E., to American Can Co. Coating composition containing phenol aldehyde condensation product, vinyl polymer, catalyst, amine phosphate and heavy metal salt. 2,917,481, 12-15-59, Cl. 260-43.
- Masters, Joseph H., L. W. Lawrence, and E. L. Masters, to Jackson Mfg. Co. Feed control mechanism for material spreaders. Re. 24,622, 3-17-59, Cl. 222-311.
- Masters, Philip C.: *See*—  
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- Masters, Robert W., to Radio Corp. of America. Skewed antenna array. 2,888,677, 5-26-59, Cl. 343-798.
- Mastin, Thomas G.: *See*—  
Seeger, Nelson V., and Mastin. 2,879,251.
- Mastney, Edward J., and J. H. Williams, to Oak Mfg. Co. Push button mechanism. 2,911,834, 11-10-59, Cl. 74-10.33.
- Mastrobattista, Arthur: *See*—  
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- Masur, Elieser L. Doorlock for motorcars. 2,910,318, 10-27-59, Cl. 292-201.
- Masuyama, Isao, to Belcon Importing Co. Needle threader for a sewing machine. 2,912,948, 11-17-59, Cl. 112-225.
- Masuzawa, Kenro: *See*—  
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- Mataré, Herbert P., to Sylvania Electric Products Inc. Zone melting apparatus. 2,897,329, 7-28-59, Cl. 219-10.43.
- Matarese, John, to Sylvania Electric Products Inc. Oscillator. 2,898,556, 8-4-59, Cl. 331-107.
- Matasio, Thomas M. Sheet handling device. 2,917,205, 12-15-59, Cl. 221-210.
- Matchette, Jack E., Jr.,  $\frac{1}{2}$  to N. J. Matchette, Sr. Foldable fish pole support. 2,881,996, 4-14-59, Cl. 248-46.
- Matchette, Nelson J., Sr.: *See*—  
Matchette, Jack E., Jr. 2,881,996.
- Matchett, John C., to William Periman. Tube couplings. 2,913,261, 11-17-59, Cl. 285-175.
- Matchett, Mahlon M., to Martin-Decker Corp. Micro-adjusting means for gauges. 2,908,184, 10-13-59, Cl. 74-522.
- Mater, Milton H. Retractable wing knee. 2,904,083, 9-15-59, Cl. 143-122.
- Materese, Vincent, to Mink-Dayton, Inc. Oil burner construction. 2,873,797, 2-17-59, Cl. 158-37.
- Materese, Vincent, to Mink-Dayton, Inc. Illuminated baggage rack. 2,915,619, 12-1-59, Cl. 240-7.35.
- Materi, Antonio. Rubber safety belt for automobiles. 2,871,927, 2-3-59, Cl. 155-189.
- Materi, Antonio. Pneumatic bumper for vehicles. 2,890,904, 6-16-59, Cl. 293-71.
- Matey, George J.: *See*—  
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- Mathema Corp. Reg. Trust: *See*—  
Kuhlenkamp, Alfred. 2,904,887.
- Matheny, Francis M., to American Pipe and Construction Co. Method for lining pipelines. 2,917,820, 12-22-59, Cl. 29-401.
- Matheny, James L.: *See*—  
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- Mather, Charles B.: *See*—  
Head, William L., Kirk, and Mather. 2,869,972.
- Mathes, Roger A., to The B. F. Goodrich Co. Stabilization of rubber with resinous bis-cresols. 2,883,364, 4-21-59, Cl. 260-45.95.
- Mathes, Roger A., to The B. F. Goodrich Co. Sulfur vulcanizable rubber and 1,1 bis(4-hydroxyphenyl) cycloalkane. 2,883,365, 4-21-59, Cl. 260-45.95.
- Matheson, James N., to The Electric Storage Battery Co. Respirator. 2,874,693, 2-24-59, Cl. 128-146.
- Matheson, James N., to The Electric Storage Battery Co. Respirator. 2,895,472, 7-21-59, Cl. 128-146.
- Matheson, James N., to The Electric Storage Battery Co. Detachable paddings for goggles. 2,918,676, 12-29-59, Cl. 2-14.
- Mathews, Anthony J.: *See*—  
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- Mathews, Glenn M.: *See*—  
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- Mathews, Howard H., to Air Reduction Co., Inc. Electric arc welding. 2,870,320, 1-20-59, Cl. 219-74.
- Mathews, Howard H., to Air Reduction Co., Inc. Preparation of esters of acrylic acid. 2,903,479, 9-8-59, Cl. 260-486.
- Mathews, Martin B., and L. O. Thurnberg, to R. R. Street & Co., Inc. Conductivity measuring device for dry cleaning apparatus. 2,913,893, 11-24-59, Cl. 68-18.
- Mathews, Max V.: *See*—  
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- Mathews, Russell B., to Baso Inc. Control apparatus. 2,908,325, 10-13-59, Cl. 158-123.
- Mathews, Walter H.: *See*—  
Dey, Chester, and Mathews. 2,879,461.
- Mathewson, Arthur A., Jr., and C. S. Penfield, to Borg-Warner Corp. Sonic earth boring drill. 2,903,240, 9-8-59, Cl. 255-4.
- Mathez, Robert. Sound head of a magnetic tape recorder. 2,916,560, 12-8-59, Cl. 179-100.2.
- Mathias, Robert A., and L. A. Finzi, to United States of America, Navy. Electric circuits for performing analytic operations. 2,898,043, 8-4-59, Cl. 235-178.
- Mathiesen, Per N. Card file structure with magnetic card spreading. 2,871,862, 2-3-59, Cl. 129-16.
- Mathieu, Francois J. H., to Societe les Construction Guinard. Apparatus to separate the solid particles in a liquid solution and to dry said particles. 2,870,912, 1-27-59, Cl. 210-213.
- Mathieu, Gaston A., to North American Philips Co., Inc. Radio-telecommunication equipment for simplex or duplex traffic with uni-selector switch. 2,885,540, 5-5-59, Cl. 250-6.
- Mathieu, Jean B., and G. T. Nomine, to Les Laboratoires Francais De Chimiotherapie. 2,5-di-phenyl-piperazine bipenicillinate G. 2,903,447, 9-8-59, Cl. 260-239.1.



- Mathieu, Michel F. V. G.: *See*—  
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- Mathis, Clyde H., and W. B. Polk, to Phillips Petroleum Co. Improved quenching method. 2,877,866, 3-17-59, Cl. 183-120.
- Mathis, Clyde H., W. P. Strole, and W. L. Parker, to Phillips Petroleum Co. Control of chemical reaction temperature. 2,918,506, 12-22-59, Cl. 260-683.3.
- Mathis, Earl C., to Weber Engineered Products, Inc. Safety guard for rotary lawn mowers. 2,906,082, 9-29-59, Cl. 56-25.4.
- Mathis, Vernon P., and J. J. Suran, to General Electric Co. Semiconductor mixing circuits. 2,879,482, 3-24-59, Cl. 332-52.
- Mathisen, Anders,  $\frac{1}{2}$  to Gravier Mfg. Co. Ltd., and  $\frac{1}{2}$  to The Wilkinson Sword Co. Ltd. Means for detecting and suppressing explosions. 2,869,647, 1-20-59, Cl. 168-4.
- Mathisen, Anders,  $\frac{1}{2}$  to Gravier Mfg. Co. Ltd., and  $\frac{1}{2}$  to Wilkinson Sword Ltd. Fluid containers. 2,884,076, 4-28-59, Cl. 169-9.
- Mathisen, Anders,  $\frac{1}{2}$  to Gravier Mfg. Co., Ltd., and  $\frac{1}{2}$  to The Wilkinson Sword Co. Ltd. Inertia operated devices. 2,885,505, 5-5-59, Cl. 200-61.53.
- Mathisen, Anders, to Gravier Mfg. Co. Ltd. Detectors of oil mists and the like. 2,907,993, 10-6-59, Cl. 340-237.
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- Mathison, Robert V., to Crest Furniture Corp. Upholstered furniture and method of constructing. 2,913,041, 11-17-59, Cl. 155-180.
- Matich Brothers: *See*—  
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- Matich, Martin A., to Matich Brothers. Side form for concrete pavement. 2,902,742, 9-8-59, Cl. 25-118.
- Matile, Pascal, to Lonza Electric and Chemical Works Ltd. Process for purifying and crystallizing urea. 2,892,870, 6-30-59, Cl. 260-555.
- Matis, Ernest, P. Demolon, C. Nobecourt, and R. Henri, to Houlleres du Bassin du Nord et du Pas-de-Calais. Apparatus for processing compressed fuel briquettes and similar materials. 2,899,189, 8-11-59, Cl. 263-28.
- Matkins, Eugene G.: *See*—  
Atkins, Carl E., and Matkins. 2,904,699.
- Matkins, Eugene G., to General Motors Corp. Low voltage light sensitive control system. 2,872,618, 2-3-59, Cl. 315-83.1.
- Matkins, Eugene G., to General Motors Corp. Light controlled headlight on-off switch. 2,888,611, 5-26-59, Cl. 315-82.
- Matkins, Eugene G., and K. R. Skinner, to General Motors Corp. Automatic headlamp control system. 2,890,386, 6-9-59, Cl. 315-83.
- Matkins, Eugene G., and C. W. Miller, to General Motors Corp. Pulsed light sensitive control circuit. 2,905,867, 9-22-59, Cl. 317-130.
- Matkins, Eugene G., and C. W. Miller, to General Motors Corp. Self oscillating light controlled circuit. 2,905,868, 9-22-59, Cl. 317-130.
- Matlachowsky, Stefan, to A. H. Schutte. Arresting device for the work spindles of multiple-spindle automatic lathes. 2,876,527, 3-10-59, Cl. 29-38.
- Matlachowsky, Stefan, to A. H. Schutte. Control of tools and other movable parts in automatic lathes. 2,886,949, 5-19-59, Cl. 60-54.5.
- Matlachowsky, Stephan, to A. H. Schutte. Locking device for the spindle drum of an automatic multi-spindle lathe. 2,908,357, 10-13-59, Cl. 188-69.
- Matlack, Albert S., to Hercules Powder Co. Process for the polymerization of ethylene. 2,891,041, 6-16-59, Cl. 260-94.9.
- Matlack, Albert S., to Hercules Powder Co. Process for polymerization of ethylene. 2,891,042, 6-16-59, Cl. 260-94.9.
- Matlack, Albert S., to Hercules Powder Co. Process for polymerization of ethylene. 2,891,043, 6-16-59, Cl. 260-94.9.
- Matlack, Albert S., to Hercules Powder Co. Process for polymerization of ethylene. 2,891,044, 6-16-59, Cl. 260-94.9.
- Matlack, Albert S., to Hercules Powder Co. Process for the polymerization of propylene. 2,913,442, 11-17-59, Cl. 260-93.7.
- Matlack, Jacob D.: *See*—  
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- Matlin, Nathaniel A., to Rohm & Haas Co. Dye stripping solution. 2,902,453, 9-1-59, Cl. 252-105.
- Matlin, Nathaniel A., and L. S. Lusk, to Rohm & Haas Co. Textile material and inhibition of acid-fading dyes thereon. 2,888,314, 5-26-59, Cl. 8-61.
- Matoff, Richard: *See*—  
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- Matonak, Lawrence A.: *See*—  
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- Matralin Co., Inc.: *See*—  
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- Matson, William N., and J. F. Connors, said Connors assor. to said Matson. Guy wire connector. 2,886,361, 5-12-59, Cl. 287-83.
- Matsubara, Toru: *See*—  
Terayama, Denzaburo, Matsubara, Hayashi, and Hirakawa. 2,874,665.
- Matsuda, Ichiro. Automatic rotatory type machine for making shoes or boots rubber-soled with heat and compression. 2,909,807, 10-27-59, Cl. 18-20.
- Matsukawa, Tatsuo. Process for producing composite powder of silver and cadmium oxide. 2,894,839, 7-14-59, Cl. 75-212.
- Matsumoto, Masakazu, M. Maeda, and T. Osugi,  $\frac{3}{4}$  to Kurashiki Rayon Co., Ltd., and  $\frac{1}{4}$  to Air Reduction Co., Inc. Method of producing vinyl alcohol polymer fibers and products thereof. 2,909,502, 10-20-59, Cl. 260-45.5.
- Matsuo, Yoshiharu: *See*—  
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- Matsuoka, Toshio. Nursing bottle holder. 2,909,345, 10-20-59, Cl. 248-106.
- Matter, Erich, and O. Albrecht, to Ciba Ltd. Diquaternary ammonium compounds used in the cationic dyeing of fibers of polyacrylonitrile. 2,891,835, 6-23-59, Cl. 8-55.
- Matter, George H.: *See*—  
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- Matter, Gustave O. Measuring dispenser. 2,896,826, 7-28-59, Cl. 222-455.
- Matter, Gustave O. Measuring dispenser. 2,899,115, 8-11-59, Cl. 222-455.
- Matter, Gustave O. Measuring dispenser. 2,901,150, 8-25-59, Cl. 222-370.
- Matter, Theodore S., to American Viscose Corp. Yarn processing reel having inter-drum baffle. 2,880,602, 4-7-59, Cl. 68-205.
- Matter, Theodore S., A. I. Bates, and F. L. Brandau, to American Viscose Corp. Method for applying finish to filamentary yarns. 2,888,363, 5-26-59, Cl. 117-56.
- Mattern, Johannes, and P. Henss. Vehicle wheel with elastic intermediate members between rim and hub. 2,912,034, 11-10-59, Cl. 152-49.
- Mattern, Johannes, and P. Henss, said Henss assor. to said Mattern. Suspension system, especially for vehicles. 2,917,302, 12-15-59, Cl. 267-1.
- Mattes, Alan P. Folding box. 2,868,404, 1-13-59, Cl. 217-14.
- Matteson, Benjamin H., W. F. Hughes, and W. H. Ayer, to Research Corp. Air conditioned pluggable unit assembly. 2,910,627, 10-27-59, Cl. 317-100.
- Matteson, Joel S. Box or carton with adjustable display cover. 2,894,618, 7-14-59, Cl. 206-45.28.
- Matthael, Curt: *See*—  
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- Mattheis, Wilhelm: *See*—  
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- Matthes, Hendrik J. R.: *See*—  
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- Matthes, Hulbert and H. J. R. Heating device. 2,902,027, 9-1-59, Cl. 126-93.
- Matthes, Samuel S., to The Ohio Brass Co. Overhead trolley crossing. 2,872,522, 2-3-59, Cl. 191-37.
- Matthew, Jack L., and A. Punturi. Tremolo device for stringed musical instruments. 2,897,711, 8-4-59, Cl. 84-313.
- Matthew, John A., and J. L. Spencer-Smith, to Linen Industry Research Association of The Research Institute. Drafting of textile fibres. 2,905,976, 9-29-59, Cl. 19-70.
- Matthews, Ada I.: *See*—  
Bisby, Harry, Chapman, and Matthews. 2,891,699.
- Matthews, Benjamin H.: *See*—  
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- Matthews, Benjamin H. Method of regenerating a zeolite bed. 2,902,445, 9-1-59, Cl. 210-35.
- Matthews, Birchard L., and E. J. Zarybnicky, to The W. J. Schoenberger Co. Ignition devices for gas burners. 2,878,862, 3-24-59, Cl. 158-115.
- Matthews, Birchard L., and E. J. Zarybnicky, to The W. J. Schoenberger Co. Pilot light burners. 2,881,829, 4-14-59, Cl. 158-115.
- Matthews, Clieff R., and R. H. Cole, to The Dalton Foundries, Inc. Trailer coupler. 2,869,893, 1-20-59, Cl. 280-512.
- Matthews, Clifford C.: *See*—  
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- Barkow, William H. and Matthews. 2,901,665.
- Matthews, Clinton A. Hospital gown. 2,886,822, 5-19-59, Cl. 2-114.
- Matthews, Dennis: *See*—  
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- Matthews, Dennis, and B. F. Swannick, to S. A. Monk, Ltd. (Sutton in Ashfield). Draw mechanism for straight-bar knitting machines. 2,872,798, 2-10-59, Cl. 66-110.
- Matthews, Ernest: *See*—  
Maudsley, Roy H., and Matthews. 2,886,030.
- Matthews, Earnest P., to Haloid Xerox Inc. Method for development of electrostatic images. 2,877,132, 3-10-59, Cl. 117-17.5.
- Matthews, Earnest P., to Haloid Xerox Inc. Rough surface powder cloud generation. 2,878,972, 3-24-59, Cl. 222-193.
- Matthews, Earnest P., to Haloid Xerox Inc. Apparatus for xerographic development. 2,894,486, 7-14-59, Cl. 118-637.
- Matthews, Earnest P., to Haloid Xerox, Inc. Apparatus for developing electrostatic images. 2,911,945, 11-10-59, Cl. 118-637.
- Matthews, Harry C.: *See*—  
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- Matthews, Howard W., and W. K. Wyatt, to Turbo Machine Co. Apparatus for curling textile yarns. 2,875,502, 3-3-59, Cl. 28-1.
- Matthews, Jennie, to Westinghouse Electric Corp. Turbine apparatus. 2,899,822, 8-18-59, Cl. 73-136.
- Matthews, John T., to Wil-Mat Corp. Swivel bearing. 2,895,770, 7-21-59, Cl. 308-227.
- Matthews, Joseph S., to Mine Safety Appliances Co. Combination sampling-testing device. 2,890,797, 6-16-59, Cl. 210-488.
- Matthews, Kenneth A., and R. A. Hyman, to International Standard Electric Corp. Electronic distributor devices. 2,886,739, 5-12-59, Cl. 315-12.
- Matthews, Lawrence J.: *See*—  
Loizzo, John R., and Matthews. 2,876,639.
- Matthews, Lyle E., and E. Q. Smith, Jr. Shock and vibration isolation device. 2,874,826, 2-24-59, Cl. 206-1.
- Matthews, Merton L., to Maxson Automatic Machinery Co. Feeding and stacking method and machine. 2,906,530, 9-29-59, Cl. 271-88.
- Matthews, Robert, to The Decca Record Co. Ltd. Moving target radar display apparatus. 2,905,938, 9-22-59, Cl. 343-7.7.
- Matthews, Robert, to The Decca Record Co. Ltd. Radar display apparatus. 2,880,412, 3-31-59, Cl. 343-11.
- Matthews, Robert M.: *See*—  
Bennett, Garland E., Matthews, and Bailey. 2,898,023.
- Bolles, James C., Matthews, and Bobo. Re. 24,737.
- Matthews, Russell B., to Baso Inc. Fuel flow control device. 2,872,972, 2-10-59, Cl. 158-129.
- Matthews, Russell B., to Baso Inc. Flow control devices. 2,873,069, 2-10-59, Cl. 236-1.
- Matthews, Russell B., to Baso Inc. Fuel control apparatus. 2,875,773, 3-3-59, Cl. 137-66.
- Matthews, Russell B., to Baso Inc. Control and indicating system. 2,875,822, 3-3-59, Cl. 158-122.
- Matthews, Russell R., to Atlantic Industries, Inc. Anti-soiling treatment of carpet and rug backing yarns and fibers. 2,876,141, 3-3-59, Cl. 117-139.5.
- Matthews, Russell B., to Baso Inc. Fluid pressure operated control devices. 2,876,951, 3-10-59, Cl. 236-84.
- Matthews, Russell B., to Baso Inc. Electroresponsive control. 2,885,605, 5-5-59, Cl. 317-133.5.
- Matthews, Russell B., to Baso Inc. Flow control device. 2,888,024, 5-26-59, Cl. 137-66.
- Matthews, Russell B., to Baso Inc. Electronic fuel control and safety shut-off system. 2,891,729, 6-23-59, Cl. 236-9.
- Matthews, Russell B., to Minnesota Mining and Mfg. Co. Control apparatus using thermoelectric power. 2,892,591, 6-30-59, Cl. 236-9.
- Matthews, Russell B., to Baso Inc. Control apparatus. 2,899,970, 8-18-59, Cl. 137-66.
- Matthews, Russell B., to Baso Inc. Fluid pressure operated control devices. 2,899,972, 8-18-59, Cl. 137-495.
- Matthews, Russell B., to Baso Inc. Fluid flow control device. 2,905,189, 9-22-59, Cl. 137-66.
- Matthews, Russell B., to Baso Inc. Fuel flow control device. 2,909,218, 10-20-59, Cl. 158-123.
- Matthews, Russell B., to Baso Inc. Combination control device. 2,909,219, 10-20-59, Cl. 158-131.
- Matthews, Russell B., to Baso Inc. Homopolar motor. 2,914,688, 11-24-59, Cl. 310-178.
- Matthews, Russell B., to Baso Inc. Modulating and safety shut-off fuel control device. 2,917,239, 12-15-59, Cl. 236-1.
- Matthews, Russell B., and R. A. Merrell, to Baso Inc. Magnetic valves. 2,911,183, 11-3-59, Cl. 251-137.
- Matthews, Stanley R., T. J. Darlington, and M. G. Sheets. Safety mercury switch. 2,899,522, 8-11-59, Cl. 200-152.
- Matthews, Stephen J.: *See*—  
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- Matthews, Thomas A., II, to Phillips Petroleum Co. Centrifugal separation. 2,905,380, 9-22-59, Cl. 233-27.
- Matthews, William R. Wood wafer cutting machine. 2,876,811, 3-10-59, Cl. 144-162.
- Matthias, Alan R., and R. E. Bodtke. Photograph mount. 2,889,646, 6-9-59, Cl. 40-159.
- Matthias, Bernd T., to Bell Telephone Laboratories, Inc. Ferroelectric devices. 2,901,679, 8-25-59, Cl. 317-262.
- Matthias, Lynn H.: *See*—  
Kuhn, Edward H., and Matthias. 2,919,327.
- Matthies, Robert W.: *See*—  
Lockhart, Marshall L. 2,893,390.
- Matthiesen, Peter C., to Danfoss ved ingeniør Mads Clausen. Pilot-controlled regulating valve. 2,884,951, 5-5-59, Cl. 137-489.5.
- Matthieu, Johannes, to International Standard Electric Corp. Relay chains comprising magnetic counting or storing relays. 2,896,129, 7-21-59, Cl. 317-140.
- Matthysse, Irving F.: *See*—  
Dupre, Henry P., and Matthysse. 2,895,002.
- Matthysse, Irving F., and H. W. Bullinger, to Burndy Corp. Fuse receptacle. 2,903,539, 9-8-59, Cl. 200-129.
- Mattiat, Oskar E., to Clevite Corp. Electromechanical filter elements. 2,877,432, 3-10-59, Cl. 333-72.
- Mattil, Karl F.: *See*—  
Sims, Rex J., Mattil, and Lehmann. 2,872,465.
- Mattimoe, George E., E. G. Stehn, and G. R. Giannini. Automatic taring device. 2,903,231, 9-8-59, Cl. 249-63.
- Mattingly, Charles D.: *See*—  
Kice, Jack W., and Mattingly. 2,875,593.
- Mattingly, John J.: *See*—  
Mattingly, Ralph J., and J. J. 2,868,403.
- Mattingly, Lawrence J., to Motorola, Inc. Television receiver. 2,876,342, 3-3-59, Cl. 250-20.
- Mattingly, Ralph J., and J. J. Can labeler. 2,868,403, 1-13-59, Cl. 216-58.
- Mattingly, Robert D., and F. E. Butler, to United States of America, Navy. Drill mine. 2,912,929, 11-17-59, Cl. 102-10.
- Mattingly, Robert L., to Bell Telephone Laboratories, Inc. Microwave delay device. 2,881,433, 4-7-59, Cl. 343-756.
- Mattingly, Virdean R. Pump. 2,869,945, 1-20-59, Cl. 309-3.
- Mattison, Edwin L., to E. I. du Pont de Nemours and Co. Chemical process. 2,868,822, 1-13-59, Cl. 260-437.
- Mattison, Robert J., Jr.: *See*—  
Peterson, Clarence J., and C. L., and Mattison. 2,899,066.
- Mattner, Joachim, to Schering A. G. Process of producing chloranil. 2,872,461, 2-3-59, Cl. 260-396.
- Mattner, Joachim, to Schering A. G. Process of producing hexachloro benzene from hexachloro cyclohexanes. 2,886,606, 5-12-59, Cl. 260-650.
- Mattson, Ernest E., to E. Braverman. Exercising chair. 2,915,055, 12-1-59, Cl. 128-25.
- Mattox, Milton E. Sighting level. 2,900,159, 8-18-59, Cl. 248-229.
- Mattox and Moore, Inc.: *See*—  
Mattox, William E., and Moore. 2,881,112.
- Mattox, Ralph F., Sr. Transportation system. 2,903,526, 9-8-59, Cl. 191-49.
- Mattox, William E., and F. C. Moore, to Mattox and Moore, Inc. Hormone composition for improving meat production efficiency and method for using same. 2,881,112, 4-7-59, Cl. 167-53.1.
- Mattox, William J.: *See*—  
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- Kimberlin, Charles N., Jr., and Mattox. 2,902,430.
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- Mattox, William J., to Esso Research and Engineering Co. Regeneration process. 2,877,174, 3-10-59, Cl. 208-136.
- Mattox, William J., to Esso Research and Engineering Co. Process for removal of metal contaminants from high boiling oils by use of boron compounds. 2,891,004, 6-16-59, Cl. 208-251.
- Mattox, William J., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Removal of metal contaminants from a hydrocarbon feed. 2,884,369, 4-28-59, Cl. 208-91.
- Mattox, William J., and W. F. Arey, Jr., to Esso Research and Engineering Co. Alkylation of aromatics. 2,904,607, 9-15-59, Cl. 260-671.
- Matts, Sigvard, to AB Svenska Flaktfabriken. Electrofilters. 2,884,087, 4-28-59, Cl. 183-7.
- Mattson, Charles A.: *See*—  
Mall, Arthur W., Mattson, and Ziegler. 2,895,466.
- Mattson, Charles A., to Remington Arms Co., Inc. Automatic chain oiler for chain saw. 2,883,000, 4-21-59, Cl. 184-15.
- Mattson, Harry L.: *See*—  
Provi, Mike A., and Mattson. 2,875,999.
- Mattson, Raymond C.: *See*—  
Gerrard, Jack A., and Mattson. 2,918,442.
- Mattson, Roy H., to Bell Telephone Laboratories, Inc. Transistor blocking oscillator. 2,906,893, 9-29-59, Cl. 307-88.5.
- Mattsson, Gosta A. E., to Telefonaktiebolaget L M Ericsson. Device for transmission of electric power with large frequency range. 2,909,737, 10-20-59, Cl. 333-96.
- Matty, Pete. Circulating beverage pumps. 2,895,403, 7-21-59, Cl. 99-309.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Electrical discharge machining watchdog circuit. 2,871,410, 1-27-59, Cl. 315-120.
- Matulaitis, Victor E., to Elox Corp. of Michigan. EDM (disc cutter). 2,902,586, 9-1-59, Cl. 219-69.
- Matulaitis, Victor E., to Elox Corp. of Michigan. Arc machining with band electrode. 2,903,557, 9-8-59, Cl. 219-69.
- Matuszak, Alfred H., and A. J. Morway, to Esso Research and Engineering Co. Synthetic lubricating composition. 2,889,281, 6-2-59, Cl. 252-49.6.
- Matuzas, Anthony J., to The Singer Mfg. Co. Presser mechanisms for sewing machines. 2,870,726, 1-27-59, Cl. 112-236.
- Matuzas, Anthony J., to The Singer Mfg. Co. Sewing machine spool-pin supports. 2,871,808, 2-3-59, Cl. 112-218.
- Matuzas, Anthony J., to The Singer Mfg. Co. Presser mechanisms for sewing machines. 2,874,663, 2-24-59, Cl. 112-236.
- Matuzas, Anthony J., to The Singer Mfg. Co. Presser mechanisms for sewing machines. 2,915,999, 12-8-59, Cl. 112-236.
- Matwijcow, John J. Scalpel. 2,877,553, 3-17-59, Cl. 30-339.
- Matyear, Charles, Jr., to Phillips Petroleum Co. Solvent extraction apparatus. 2,900,308, 8-18-59, Cl. 196-14.52.
- Matyear, Charles, Jr., to Phillips Petroleum Co. Drying of gases. 2,910,139, 10-27-59, Cl. 183-114.2.
- Matz, Norman, to Thompson Products, Inc. Control system for transmission. 2,914,965, 12-1-59, Cl. 74-687.
- Matz, Wayne C.: *See*—  
Beeninga, Dale E., and Matz. 2,904,710.



- Matzen, Julius C. Automatic feeding machines. 2,915,308, 12-1-59, Cl. 271-5.
- Matzenauer, Brother B. Electric toaster. 2,918,860, 12-29-59, Cl. 99-335.
- Matzinger, Charles P., to The Mountain Copper Co., Ltd. Copper pentachlorophenate solution. 2,901,395, 8-25-59, Cl. 167-42.
- Matzner, Simon. Longitudinal expandable shoe tree. 2,890,469, 6-16-59, Cl. 12-115.6.
- Matzuk, Alexander R.: *See*—  
Brown, Horace D., and Matzuk. 2,888,380.
- Mau, Clayton C. Animal trap. 2,894,353, 7-14-59, Cl. 43-88.
- Mauborgne, Paul. Variable drive device for fishing winches. 2,918,227, 12-22-59, Cl. 242-83.21.
- Mauch, Hans A. Ventilator cover. 2,897,741, 8-4-59, Cl. 98-1.
- Mauch, Hans A. Reading machine. 2,907,833, 10-6-59, Cl. 179-100.1.
- Mauck, Arthur R., and J. M. Zorad, to General Motors Corp. Oil mist turbine lubrication. 2,886,133, 5-12-59, Cl. 184-6.
- Maude, William A., to General Electric Co. Condition responsive apparatus. 2,903,321, 9-8-59, Cl. 346-17.
- Maudsley, Roy H., and E. Matthews. Orthopaedic appliances. 2,886,030, 5-12-59, Cl. 128-75.
- Mauduech, Robert R. Phase shifting and modulating device. 2,887,662, 5-19-59, Cl. 332-16.
- Mauer, John A., to The Weber Dental Mfg. Co. Fluid-driven dental handpiece construction. 2,897,596, 8-4-59, Cl. 32-27.
- Mauerhoff, Gairt H. Protective disc for phonograph records. 2,906,536, 9-29-59, Cl. 274-1.
- Mauersberger, Heinrich, to VEB Tullmaschinenbau Karl-Marx-Stadt. Textile material and manufacture. 2,890,579, 6-16-59, Cl. 66-192.
- Maughan, John, to International Harvester Co. Hitch device. 2,912,258, 11-10-59, Cl. 280-479.
- Maui Pineapple Co., Ltd.: *See*—  
Bainbridge, Marvin. 2,917,989.
- Maul, John A., to Addressograph-Multigraph Corp. Printing machines. 2,909,998, 10-27-59, Cl. 101-269.
- Maul, Michael: *See*—  
Pfeiffer, Max. 2,913,242.
- Maul, Michael. Feeding devices for record card machines. 2,873,114, 2-10-59, Cl. 270-58.
- Maul, Michael. Record card controlled cross computing machines. 2,909,318, 10-20-59, Cl. 235-61.1.
- Maul, Michael. Record card controlled summary punch. 2,910,228, 10-27-59, Cl. 235-61.1.
- Maumee Collieries Co., The: *See*—  
Kolbe, Frank F. 2,903,969.
- Maunder, Claude A., to Masson Seeley and Co. Ltd. Marking of heat-stable objects. 2,887,051, 5-19-59, Cl. 101-426.
- Mauney, Paul: *See*—  
Neisler, Charles E., Jr., and Mauney. 2,872,690.
- Neisler, Charles E., Jr., and Mauney. 2,912,033.
- Maunoury, Francois M. L.: *See*—  
Kadosch, Marcel, Le Foll, Maunoury, and Bertin. 2,868,479.
- Maupin, Elwood F. Merchandise display shelf. 2,891,679, 6-23-59, Cl. 211-134.
- Maupin, Joseph T., to Minneapolis-Honeywell Regulator Co. Tetra transistor amplifier. 2,915,602, 12-1-59, Cl. 179-171.
- Maupin, Joseph T., and R. J. Zelinka, to Minneapolis-Honeywell Regulator Co. Tetra transistor bias circuit. 2,889,417, 6-2-59, Cl. 179-171.
- Maure, Douglas R.: *See*—  
Morcerf, Francis J., Jr., and Maure. 2,869,068.
- Maure, Douglas R., and R. W. Kettlety, to General Electric Co. Function generator. 2,907,888, 10-6-59, Cl. 250-217.
- Maurer, Albrecht, and E. Giese, to Ringspann Albrecht Maurer K.G. Over-running clutch couplings or the like. 2,901,072, 8-25-59, Cl. 192-45.1.
- Maurer, Edwin R., to Chrysler Corp. Power transmission. 2,916,928, 12-15-59, Cl. 74-336.
- Maurer, Elmer W.: *See*—  
Stirton, Alexander J., Weil, and Maurer. 2,915,473.
- Weil, James K., Stirton, and Maurer. 2,867,586.
- Maurer, Erwin H. Dental X-ray film holder. 2,899,559, 8-11-59, Cl. 250-70.
- Maurer, Eugen, to Rollenlager-Spindelfabrik "Spintex" G. m. b. H. Top rolls for drawing systems of ring spinning frames. 2,873,484, 2-17-59, Cl. 19-142.
- Maurer, Hans. Water closet appliance. 2,872,687, 2-10-59, Cl. 4-7.
- Maurer, James I.: *See*—  
Cavanagh, Walter R., and Maurer. 2,874,081.
- Maurer, Pierre W., and H. L. Blust, to Radio Corp. of America. Lead wire feeding device. 2,873,835, 2-17-59, Cl. 193-2.
- Maurer, Richard E., to Eastman Kodak Co. Light-sensitive film prescreened by Herschel exposure. 2,912,325, 11-10-59, Cl. 96-79.
- Maurer, Richard E., to Eastman Kodak Co. Direct positive prescreened photographic material. 2,912,326, 11-10-59, Cl. 96-79.
- Maurer, Richard E., to Eastman Kodak Co. Prescreened negative photographic material. 2,912,327, 11-10-59, Cl. 96-79.
- Maurer, Richard E., to Eastman Kodak Co. Direct positive prescreened photographic material. 2,912,328, 11-10-59, Cl. 96-79.
- Maurer, Spencer B. Rotary impact power tool. 2,898,791, 8-11-59, Cl. 81-52.3.
- Maurice, Clayton H., Jr., to Toledo Scale Corp. Inking means for rotary printing apparatus. 2,895,415, 7-21-59, Cl. 101-228.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du "Ferodo." Electromagnetic clutches. 2,876,879, 3-10-59, Cl. 192-84.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise Du Ferodo. Hydraulic coupling and means for controlling the quantity of fluid therein. 2,878,642, 3-24-59, Cl. 60-12.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Circuits for the control of an electromagnetic clutch. 2,880,831, 4-7-59, Cl. 192-052.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise Du Ferodo. Devices for suppressing parasitic currents in vehicles with electro-magnetic clutches. 2,896,732, 7-28-59, Cl. 180-70.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise Du Ferodo. Electromagnetic clutch. 2,897,933, 8-4-59, Cl. 192-84.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Centrifugal clutches. 2,907,433, 10-6-59, Cl. 192-105.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Control mechanism for automatic clutches of automotive vehicles. 2,914,131, 11-24-59, Cl. 180-82.
- Maurice, Jean, and M. Rist, to Societe Anonyme Francaise du Ferodo. Electromagnetic clutch and control therefor. 2,914,151, 11-24-59, Cl. 192-3.5.
- Maurice, Philip, to Monsanto Chemicals Ltd. Germicidal compositions. 2,906,664, 9-29-59, Cl. 167-31.
- Maurin, Jean D.: *See*—  
Gislon, Andre, Quiquerez, and Maurin. 2,886,521.
- Maurits, Orville C.: *See*—  
Bower, Ernest P., Maurits, and Stelma. 2,905,497.
- Mauro, Daniel A. Cutting device for rotary mowers. 2,908,128, 10-13-59, Cl. 56-295.
- Maury, Lucien G.: *See*—  
Dehm, Henry C., and Maury. 2,888,484.
- Maus, Lawrence L. Filtering apparatus. 2,877,901, 3-17-59, Cl. 210-391.
- Mausser, Alfons. Seating arrangement. 2,891,601, 6-23-59, Cl. 155-130.
- Mausser, Alfons, to Firma Mauser, Kommandit-Gesellschaft. Seat mounting device. 2,913,039, 11-17-59, Cl. 155-86.
- Mauthe, Friedrich, G. m. b. H.: *See*—  
Bertsch, Hans, and Stein. 2,867,971.
- Mauthe, Gustav: *See*—  
Eitel, Kurt, Schmidt, and Mauthe. 2,897,166.
- Graulich, Wilhelm, Mauthe, and Eitel. 2,887,410.
- Meister, Martin, Mauthe, and Faber. 2,890,095.
- Zorn, Bruno, and Mauthe. 2,884,403.
- Mautner, Henry R., to General Aniline & Film Corp. Solubilization of pigments. 2,876,061, 3-3-59, Cl. 8-1.
- Mautner, Henry R., to General Aniline & Film Corp. Continuous dyeing process. 2,888,313, 5-26-59, Cl. 8-54.
- Mautner, Henry R., to General Aniline & Film Corp. Dyeing synthetic fibers with vat dyestuffs. 2,890,092, 6-9-59, Cl. 8-34.
- Mautner, Henry R., to General Aniline & Film Corp. Dyeing acrylic fibers. 2,890,093, 6-9-59, Cl. 8-34.
- Mautner, Robert S. Sockets for printed electrical circuits. 2,894,240, 7-7-59, Cl. 339-17.
- Mavor & Coulson Ltd.: *See*—  
Gillespie, William. 2,898,098.
- Mawney, Robert G.: *See*—  
Grenier, Aime J., Beggs, and Mawney. 2,907,847.
- Mawson, Ronald: *See*—  
Chubb, Alexander A., Mawson, and Levy. Re. 24,680.
- Max, C. Willard: *See*—  
Thompson, Oliver T., and Cook. 2,909,089.
- Max, Nicolaas: *See*—  
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- Maxcy, William J.: *See*—  
Chiddix, Max E., Maxcy, and Sundberg. 2,901,430.
- Maxey, Alexander R., to Ampex Corp. Magnetic tape apparatus. 2,912,518, 11-10-59, Cl. 179-100.2.
- Maxey, Edwin M., to The B. F. Goodrich Co. Method of preparing shirred heat-sealed elastic vinyl products. 2,905,581, 9-22-59, Cl. 154-124.
- Maxey, Hillis I., O. G. Steinert, and R. J. Clougherty, to The Pillsbury Co. Packaging machines. 2,902,812, 9-8-59, Cl. 53-385.
- Maxey, Thomas J., to Hughes Aircraft Co. Frequency calibration system. 2,878,448, 3-17-59, Cl. 324-79.
- Maxfield, Clyde E., and F. S. Dutel, 1/2 to F. B. Maxfield. Medicine cabinet construction. 2,879,124, 3-24-59, Cl. 312-242.
- Maxfield, Florence B.: *See*—  
Maxfield, Clyde E., and Dutel. 2,879,124.
- Maxim, Andrew, to Imperial Mfg. Corp. Spindle for automatic phonograph record changer. 2,893,739, 7-7-59, Cl. 274-10.
- Maxim Electronics Ltd.: *See*—  
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- Maxim, Myles S., to Monsanto Chemical Co. Production of titanium tetraiodide. 2,907,632, 10-6-59, Cl. 23-87.
- Maxim, Oren B., to Scovill Mfg. Co. Button loop fastener. 2,899,731, 8-18-59, Cl. 24-202.1.
- Maxim, Walter S.: *See*—  
Kueter, Kenneth E., and Maxim. 2,910,248.
- Maximov, Michael. Sea-fishing kite. 2,912,782, 11-17-59, Cl. 43-27.2.
- Maxion, Emil J., to Chase Chemical Co. Acid addition products of the tetracyclines. 2,880,234, 3-31-59, Cl. 260-501.
- Maxon, Glenway, Jr. Dump truck for concrete and other semi-liquid materials. 2,880,977, 4-7-59, Cl. 259-171.
- Max-Planck-Institut für Biophysik: *See*—  
Fischer, Wilhelm A., and Lorenz. 2,912,477.  
Heuse, Otto L. 2,900,543.
- Maxson Automatic Machinery Co.: *See*—  
Matthews, Merton L. 2,906,530.
- Maxson, W. L., Corp., The: *See*—  
Chanitz, Lawrence, and Klein. 2,902,654.  
Weaver, Preston R. 2,879,053.  
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- Maxwell, Carl A., and R. W. Parrish, to The Lummus Co. Pipe testing plug. 2,886,067, 5-12-59, Cl. 138-90.
- Maxwell, Donald E., to General Electric Co. Transient analyzing system. 2,883,528, 4-21-59, Cl. 250-27.
- Maxwell, Elvin F. Farm implement hitch. 2,894,765, 7-14-59, Cl. 280-472.
- Maxwell, Fletcher E., deceased, and M. J. Maxwell, administratrix. Self grounding electrical connector. 2,880,403, 3-31-59, Cl. 339-14.
- Maxwell, Glenn D.: *See*—  
Lahti, Arvo A., and Maxwell. 2,909,337.
- Maxwell Industries, Inc.: *See*—  
Busch, Thomas J. 2,878,695.  
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- Maxwell, Ira C., O. H. Langen, and D. R. Plehal, to The Unipress Co., Inc. Folding table. 2,913,155, 11-17-59, Cl. 223-37.
- Maxwell, Maud J.: *See*—  
Maxwell, Fletcher E. and M. J. 2,880,403.
- Maxwell, Ruth S.: *See*—  
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- Maxwell, William A.: *See*—  
Grala, Edward M., and Maxwell. 2,910,356.
- Maxwell, William A. Method for improving the high-temperature strength and other properties of molybdenum disilicide and other intermetallic compounds. 2,898,660, 8-11-59, Cl. 25-156.
- Maxwell, William A., R. S. Gurnick, and A. C. Francisco, to United States of America, Navy. Article fabrication from powders. 2,893,102, 7-7-59, Cl. 25-156.
- May & Baker Ltd.: *See*—  
Adams, Arthur, and Slack. 2,871,243.
- May, Charles G., and P. Akroyd, to Lever Brothers Co. Flavoring substances and their preparation. 2,918,376, 12-22-59, Cl. 99-140.
- May, Claude H., to The Murray Corp. of America. Road vehicle door construction. 2,900,207, 8-18-59, Cl. 296-47.
- May, David E., and W. W. Steen, to Mar San Mfg. Co. Baby cradle. 2,916,744, 12-15-59, Cl. 5-102.
- May, Don, Jr.: *See*—  
Austrow, Harold W., May, Neumann, and Szten. 2,876,916.
- May, Edward G.: *See*—  
Taubenslag, Morris J., and May. 2,898,460.
- May, Edward M. Dirt shield for swivel joints. 2,872,217, 2-3-59, Cl. 285-45.
- May, Ernest C., to M. E. P. Co. Ltd. Shifting boards for ship's holds. 2,909,139, 10-20-59, Cl. 114-75.
- May, Frederick T.: *See*—  
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Siries, John P., May, and Eberiel. 2,870,938.
- May, Gordon H., to International Business Machines Corp. Selective clutching mechanism for reciprocating motion. 2,884,794, 5-5-59, Cl. 74-126.
- May, Harry C., to Westinghouse Air Brake Co. Fluid pressure brake apparatus. 2,889,175, 6-2-59, Cl. 303-59.
- May, Harry C., to Westinghouse Air Brake Co. Control valve device for vehicle air springs. 2,893,752, 7-7-59, Cl. 280-124.
- May, Harry C., to Westinghouse Air Brake Co. Brake valve device. 2,905,507, 9-22-59, Cl. 303-50.
- May, Howard F., to General Motors Corp. Power elements for thermostats. 2,873,633, 2-17-59, Cl. 73-358.
- May, James L. Strip shingle roofing. 2,867,180, 1-6-59, Cl. 108-7.
- May, James L. Brassiere cup. 2,908,275, 10-13-59, Cl. 128-425.
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- May, John E., to General Electric Co. Method for producing grain-oriented silicon steel. 2,867,558, 1-6-59, Cl. 148-111.
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- May, John J., to Dow Corning Corp. Organosilicon lubricants. 2,877,182, 3-10-59, Cl. 252-49.6.
- May, John J., and R. C. Ulrey, to General Motors Corp. Unit injector pump with pilot injection. 2,890,657, 6-16-59, Cl. 103-41.
- May, John K., and C. E. Maynard, to Pro-Phy-Lac-Tic Brush Co. Method of decorating articles formed of thermosetting materials. 2,874,419, 2-24-59, Cl. 18-61.
- May, Joseph C., to The Superior Electric Co. Multi-stage magnetic amplifier type of control. 2,896,153, 7-21-59, Cl. 323-89.
- May, Lawrence T., to Allen B. Du Mont Laboratories, Inc. Grid-cathode structure for cathode ray tubes. 2,886,729, 5-12-59, Cl. 313-85.
- May, Marvin M., to Tubular Structures Corp. of America. Clamping devices. 2,906,551, 9-29-59, Cl. 287-54.
- May, Maurice, to American Art Metals Co. Cart door bumper. 2,883,714, 4-28-59, Cl. 20-16.
- May, Oswald: *See*—  
Ziesche, Kurt, Kobus, and May. 2,905,020.
- May, Patrick L., to International Harvester Co. Wire twister for balers. 2,897,747, 8-4-59, Cl. 100-4.
- May, Walter G.: *See*—  
MacLaren, Donald D., May, and Swabb. 2,905,634.  
Schulman, Bernard L., and May. 2,886,518.
- May, Walter G., R. W. Winkler, and H. J. Ogorzaly, to Esso Research and Engineering Co. Desulfurization process employing metallic sodium on an inert carrier. 2,902,441, 9-1-59, Cl. 208-246.
- Maybach-Motorenbau G.m.b.H.: *See*—  
Von Kienlin, Markus, Seifert, and Barth. 2,879,754.
- Maybarduk, Leon A., to United States of America, Air Force. Mechanical integrator. 2,908,188, 10-13-59, Cl. 74-674.
- Mayberry, Joe L., and L. P. Giddings, to R. R. Street & Co., Inc. Combination washer-extractor and spray means. 2,895,321, 7-21-59, Cl. 68-148.
- Mayer, Clarence A., Jr.: *See*—  
Everitt, Allen L., Frederick, and Mayer. 2,879,090.
- Mayer, Edward F., to General Dynamics Corp. Electrostatic photography. 2,877,133, 3-10-59, Cl. 117-37.
- Mayer, Edward F., to General Dynamics Corp. Xerographic developer composition. 2,890,174, 6-9-59, Cl. 252-62.1.
- Mayer, Edward F., to General Dynamics Corp. Electrostatic printing. 2,892,709, 6-30-59, Cl. 96-1.
- Mayer, Edward F., to Horizons Inc. Memory device. 2,912,592, 11-10-59, Cl. 250-211.
- Mayer, Edward F., and V. E. Straughan, to Horizons Inc. Intermittent electrophotographic recorder. 2,878,120, 3-17-59, Cl. 96-1.
- Mayer, Edward F., and V. E. Straughan, to General Dynamics Corp. Developer for electrostatic printing. 2,891,911, 6-23-59, Cl. 252-62.1.
- Mayer, Edward F., and R. T. Joy, to General Dynamics Corp. Method and apparatus for developing electrostatic image. 2,913,353, 11-17-59, Cl. 117-37.
- Mayer, Eugene O., F. L. Walling, and W. C. Van Ness, to The Singer Mfg. Co. Rotary thread take-ups for sewing machines. 2,882,848, 4-21-59, Cl. 112-248.
- Mayer, Franz: *See*—  
Kaiser, Josef. 2,876,457.
- Mayer, Fred H. Volatile fumigant pad. 2,872,244, 2-3-59, Cl. 299-24.
- Mayer, Joseph E. Golf bag cart. 2,899,212, 8-11-59, Cl. 280-38.
- Mayer, Karl, Erste Hessische Wirkmaschinen-Fabrik G.m.b.H.: *See*—  
Kohl, Karl. 2,902,847.
- Mayer-Krapoll, Hermann, to Ruhr-Stickstoff Akt. Process of improving forest soil and arboreal growth. 2,874,035, 2-17-59, Cl. 71-1.
- Mayer, Max. Oscillating adjustable stroke mortising machine. 2,895,516, 7-21-59, Cl. 144-80.
- Mayer, Mayer, Jr., and J. I. Kotter, to United States of America, Agriculture. Fiber cleaner. 2,867,850, 1-13-59, Cl. 19-58.
- Mayer, Nathan. Knock down chair and stool assemblies. 2,876,828, 3-10-59, Cl. 155-196.
- Mayer, Oscar, & Co., Inc.: *See*—  
Eddison, William B. 2,914,059.  
Olson, Floyd C., and Turner. 2,888,351.  
Olson, Floyd C., and Turner. 2,898,212.  
Turner, Earl W., and Olson. 2,874,060.
- Mayer, Ralph: *See*—  
Castedello, William, Kaprellan, and Mayer. 2,905,050.
- Mayer, Rudolph: *See*—  
De Stevens, George, Heymann, and Mayer. 2,910,484.
- Mayer, Simon E., to International Standard Electric Corp. Low resistance contacts to germanium. 2,914,449, 11-24-59, Cl. 204-37.
- Mayer, Simon E., and J. M. Waddell, to International Standard Electric Corp. Magnetic control circuit. 2,907,885, 10-6-59, Cl. 250-212.
- Mayer, Victor K.: *See*—  
Asheim, Bernard B., and Mayer. 2,904,197.
- Mayer, Wilbur, to The Loudon Machinery Co. Enclosed electrified track and current collector. 2,918,540, 12-22-59, Cl. 191-23.
- Mayerle, Evan A.: *See*—  
Carmody, Don R., and Mayerle. 2,898,735.  
Carmody, Don R., Mayerle, and Zietz. 2,893,203.  
Carmody, Don R., Mayerle, and Zietz. 2,898,733.  
Carmody, Don R., Mayerle, and Zietz. 2,898,734.
- Mayes, Fred M., to Sun Oil Co. Tubing caliper. 2,870,541, 1-27-59, Cl. 33-178.
- Mayes, Fred M., to Sun Oil Co. Tank gauge. 2,899,751, 8-18-59, Cl. 33-126.6.



- Mayes, Fred M., to Sun Oil Co. Impedance measuring device. 2,918,624, 12-22-59, Cl. 324-60.
- Mayes, Walter F. Bobbin dispenser. 2,879,122, 3-24-59, Cl. 312-71.
- Mayes, Wesley T.: *See*—  
Kaiser, Herman F., Mayes, and Willis. 2,883,569.
- Mayet, Pierre J.: *See*—  
Verges, Paul F., and Mayet. 2,914,280.
- Mayfair Molded Products Corp.: *See*—  
Adams, Glenn T. 2,869,100.
- Mayfield, Burleigh M. Line guide for fishing rods. 2,872,751, 2-10-59, Cl. 43-24.
- Mayhew, Elston J. Vending machine. 2,897,939, 8-4-59, Cl. 194-79.
- Mayhew, Raymond L.: *See*—  
Grifo, Richard A., and Mayhew. 2,872,332.
- Mayhew, Raymond L., J. P. Copes, and E. P. Williams, to General Aniline & Film Corp. Rust preventive compositions. 2,898,301, 8-4-59, Cl. 252-51.5.
- Mayhew, Raymond L., and C. F. Jelinek, to General Aniline & Film Corp. Corrosion preventive compositions. 2,899,391, 8-11-59, Cl. 252-56.
- Mayhew, William E., and P. de Cardi, to Republic Aviation Corp. Self-contained emergency fluid cylinder. 2,903,848, 9-15-59, Cl. 60-14.
- Maykuth, Daniel J.: *See*—  
Jaffee, Robert I., Ogden, and Maykuth. 2,892,704.
- Maynard, Charles A., to The Indiana Steel Products Co. Magnetic chuck. 2,884,572, 4-28-59, Cl. 317-159.
- Maynard, Charles E.: *See*—  
May, John K., and Maynard. 2,874,419.
- Maynard, John A., and W. A. Rote, to Minneapolis-Honeywell Regulator Co. Measuring system. 2,874,350, 2-17-59, Cl. 324-57.
- Maynard, John A., and S. N. Wasserman, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,908,168, 10-13-59, Cl. 74-5.6.
- Maynard, John T., to A. O. Smith Corp. Thrust bearing. 2,890,916, 6-16-59, Cl. 308-160.
- Maynard, Michael, to Gestetner Ltd. Collapsible containers. 2,891,700, 6-23-59, Cl. 222-92.
- Maynard, Ralph D., Jr., to Spencer-Hughes Corp. Merchandise package. 2,876,899, 3-10-59, Cl. 206-80.
- Maynard, Ralph D., Jr., to Washington Steel Products, Inc. Method and apparatus for packaging merchandise. 2,912,805, 11-17-59, Cl. 53-37.
- Maynard, Samuel J., to Kwik-Set Expansion Co. Expansion bolt and wedge with a cylindrical holding section. 2,900,863, 8-25-59, Cl. 85-2.
- Mayne, John E. O., to The British Iron and Steel Research Association. Cementiferous paints. 2,874,057, 2-17-59, Cl. 106-14.
- Mayne, Robert A. Beading machine. 2,897,873, 8-4-59, Cl. 153-59.
- Mayner, Thomas S., to Industrial Rayon Corp. Method for the manufacture and treatment of polyamide fibers. 2,871,090, 1-27-59, Cl. 8-151.1.
- Mayner, Thomas S., to Industrial Rayon Corp. Method and apparatus for handling a plurality of yarns. 2,903,841, 9-15-59, Cl. 57-2.5.
- Mayo, Alfred M., H. L. Walpole, and J. P. Nolan, to United States of America, Navy. Moisture-proof illuminated instrument. 2,868,959, 1-13-59, Cl. 240-2.1.
- Mayo, Clyde R., to Battelle Development Corp. Electric image development. 2,895,847, 7-21-59, Cl. 117-17.5.
- Mayo, Clyde R., and B. J. Wolfe, to Haloid Xerox Inc. Xerographic copier. 2,878,732, 3-24-59, Cl. 95-1.7.
- Mayo, Clyde R., and B. J. Wolfe, to Haloid Xerox, Inc. Electrophotographic camera apparatus. 2,892,391, 6-30-59, Cl. 95-1.7.
- Mayo, Edward L., to The Bishop and Babcock Mfg. Co. Power brake system for automobiles. 2,902,827, 9-8-59, Cl. 60-54.5.
- Mayo, Edward L., to The Bishop and Babcock Mfg. Co. Remotely controlled rear view mirror. 2,906,098, 9-29-59, Cl. 60-97.
- Mayo, Edward L., to The Bishop and Babcock Mfg. Co. Rear view mirror and adjusting means therefor. 2,906,292, 9-29-59, Cl. 137-622.
- Mayo, Frank R.: *See*—  
Miller, Alexander A., and Mayo. 2,911,436.
- Mayo, Frank R., to General Electric Co. Oxide formation. 2,879,276, 3-24-59, Cl. 260-348.5.
- Mayo, Howard A.: *See*—  
Harwood, Kenneth J., Mayo, and Bletzinger. 2,902,037.
- Mayo, Roy E., to Caterpillar Tractor Co. Air cooling for tractor steering mechanism. 2,869,659, 1-20-59, Cl. 180-6.2.
- Mayo, William. Vehicle safety wheel-flat tire roller. 2,879,821, 3-31-59, Cl. 152-158.
- Mayon, Leon, to United States of America, Navy. Knob lock. 2,881,867, 4-14-59, Cl. 188-73.
- Mayon, Leon, to W & M Corp. Fastening device. 2,900,865, 8-25-59, Cl. 85-36.
- Mayr, Otmarr, to Dr. Ing. h.c.F. Porsche K.-G. Traction attachment for wheeled tractors. 2,891,821, 6-23-59, Cl. 305-3.
- Mayrath, Thomas L., to Bendix Aviation Corp. Power transmission. 2,875,633, 3-3-59, Cl. 74-472.
- Mavs, James R. Hospital utility cabinet. 2,894,794, 7-14-59, Cl. 312-313.
- Mayson, Herbert, to Textilose Ltd. Paper stick for supporting confections and method of making the same. 2,914,409, 11-24-59, Cl. 99-138.
- Maytag Co., The: *See*—  
Goodlaxson, John D. 2,874,559.
- Mellinger, John C. 2,910,890.
- Moor, David L. 2,902,871.
- Smith, Thomas R. 2,872,801.
- Smith, Thomas R. 2,880,873.
- Smith, Thomas R. 2,893,135.
- Smith, Thomas R. 2,894,384.
- Smith, Thomas R. 2,899,817.
- Smith, Thomas R. 2,900,812.
- Smith, Thomas R. 2,901,294.
- Smith, Thomas R. 2,915,120.
- Smith, Thomas R. 2,915,158.
- Smith, Thomas R., and Scott. 2,899,818.
- Mayville Boat Carrier, Inc.: *See*—  
Grimshaw, Perry I. 2,889,950.
- Mayville, Walter H. Wheel lift. 2,904,309, 9-15-59, Cl. 254-131.
- Maze, Hervé, to Shell Development Co. Sulfuric acid sweetening of run petroleum distillates. 2,912,374, 11-10-59, Cl. 208-189.
- Mazeika, Albert, to Milton Mfg. Co., Inc. Driveway signals. 2,886,807, 5-12-59, Cl. 340-396.
- Mazet, Charles. Shock absorbing device for the yarn carrier rods in flat knitting machines of the cotton type. 2,903,870, 9-15-59, Cl. 66-130.
- Mazur, Ferdinand J., and D. W. Barkley, to Libbey-Owens-Ford Glass Co. Rear view mirror. 2,900,872, 8-25-59, Cl. 88-77.
- Mazur, Nicholas, and R. R. Haskey, to Mack Trucks, Inc. Methods and apparatus for shipping buses having air suspension systems. 2,916,297, 12-8-59, Cl. 280-124.
- Mazur, Paul M. Ground anchor. 2,870,884, 1-27-59, Cl. 189-90.
- Mazur, Sylvester S.: *See*—  
Herbenar, Edward J., and Mazur. 2,880,025.
- Mazur, Yehuda: *See*—  
Sondheimer, Franz, and Mazur. 2,891,075.
- Mazurkiewicz, Edward J.: *See*—  
Ruhl, John H., and Mazurkiewicz. 2,913,254.
- Mazzacane, Robert W.: *See*—  
Copeland, William M., and Mazzacane. 2,904,317.
- Mazzagatti, Roy P., O. D. Stephens, and A. S. Connors, to The Texas Co. Radioactivity measuring. 2,888,571, 5-26-59, Cl. 250-83.6.
- Mazzanti, Giorgio: *See*—  
Natta, Giulio, Mazzanti, and Longi. 2,905,646.
- Natta, Giulio, Pino, and Mazzanti. 2,882,263.
- Mazzarella, Daniel A., to Bendix Aviation Corp. Control for apparatus for treating smokestack gases and like effluents. 2,870,383, 1-20-59, Cl. 317-157.
- Mazzarisi, James. Window brackets for curtains, draperies and the like. 2,895,701, 7-21-59, Cl. 248-263.
- Mazzeno, Laurence W., Jr.: *See*—  
Reinhardt, Robert M., Mazzeno, and Reid. 2,917,412.
- Mazzeo, Rosario. Clarinet. 2,867,146, 1-6-59, Cl. 84-382.
- Mazzeo, Anthony J.: *See*—  
Niesen, George P., Mazzeo, and Dubois. 2,888,874.
- Mazzeo, Anthony J., G. P. Niesen, G. E. Engelstad, and E. H. Du Bois, to A. B. Dick Co. Feed mechanism and interrupter for duplicating machines. 2,895,416, 7-21-59, Cl. 101-245.
- Mazzlotti, Philip J.: *See*—  
Burkhalter, Robert R., and Mazzlotti. 2,897,023.
- Mazzola, Ambrose. Overhead travelling crane interlock system. 2,891,484, 6-23-59, Cl. 104-98.
- Mazzola, Ambrose, and V. V. Mappin, said Mappin assor. to Calabar Corp. Support for bridges of overhead traveling cranes. 2,884,871, 5-5-59, Cl. 105-148.
- Mazzola, Anthony. Clamp nailing apparatus. 2,903,699, 9-15-59, Cl. 1-149.
- Mazzucchelli, Arthur P., T. E. Bugel, and L. Rosenthal, to Union Carbide Corp. Resistance heating of plastic-metal fiber articles and articles made thereby. 2,909,752, 10-20-59, Cl. 338-226.
- McAdam, John C., to International Electronic Research Corp. Tuning system for toroid inductors. 2,915,637, 12-1-59, Cl. 250-40.
- McAdam, Raymond L.: *See*—  
Shaler, Richard G., McAdam, and Baalman. 2,916,377.
- McAdam, Will, and J. H. Moore, to Leeds and Northrup Co. Negative feedback amplifiers. 2,901,563, 8-25-59, Cl. 179-171.
- McAfee, Ernest, 1/2 to A. Yalen, and 1/2 to R. Yalen. Spring metal U-shaped anchor. 2,887,002, 5-19-59, Cl. 85-2.4.
- McAfee, Jerry: *See*—  
Hirsch, Joel H., and McAfee. 2,892,773.
- McAfee, Jerry, to Gulf Research & Development Co. Transfer of fluidized solids. 2,892,772, 6-30-59, Cl. 208-164.
- McAfee, Jerry, to Gulf Research & Development Co. Method of cooling and granulating petroleum pitch. 2,896,261, 7-28-59, Cl. 18-47.2.
- McAfee, Kenneth B., Jr.: *See*—  
Kohman, Girard T., Mason, and McAfee. 2,892,508.
- McAleer, William, and E. L. Dulaney, to Merck & Co., Inc. Oxygenation of steroids in the 11, 17 and 21 positions by mixed cultures. 2,875,132, 2-24-59, Cl. 195-51.
- McAleer, William J.: *See*—  
Dulaney, Eugene L., and McAleer. 2,875,133.
- Dulaney, Eugene L., and McAleer. 2,888,469.



- McAlister, Craig L., to McGraw-Edison Co. Protectors for electric circuits. 2,913,555, 11-17-59, Cl. 200-123.
- McAlister, J. G., Inc.: *See*—  
Logan, Ralph L. Re. 24,647.
- McAllan, David T.: *See*—  
Hooper, John H. D., and McAllan. 2,897,072.
- McAllister, Robert W. High-calcium lime refractories and method for making them. 2,916,389, 12-8-59, Cl. 106-60.
- McAlpine, Charles H.: *See*—  
Winkel, Herbert C., McAlpine, and McGowan. 2,908,377.
- McAndrew, John F. to Hercules Powder Co. Process of de-ashing cellulose ethers. 2,915,520, 12-1-59, Cl. 260-232.
- McAneny, Michael J., to L. Schott. Metal strap fastening means. 2,870,503, 1-27-59, Cl. 24-23.
- McAninch, Herbert A.: *See*—  
Erwin, Robert L., and McAninch. 2,907,428.
- McArthur, Donald W., to Miehle-Goss-Dexter, Inc. Film inserting apparatus. 2,892,295, 6-30-59, Cl. 53-123.
- McArthur, John E. Tractor wheel with segmental rim and retractable lugs. 2,869,930, 1-20-59, Cl. 301-46.
- McAshan, Robert B., Jr. Automatic shut-off device. 2,883,834, 4-28-59, Cl. 62-55.
- McAuley, James H., to McAuley Mfg., Inc. Sprocket chain. 2,889,915, 6-9-59, Cl. 198-176.
- McAuley, James W.: *See*—  
McCown, William E., and McAuley. 2,890,354.
- McAuley, James W., C. H. Griss, and W. E. McCown, to Libbey-Owens-Ford Glass Co. Surface cleaning apparatus and method. 2,883,310, 4-21-59, Cl. 134-1.
- McAuley Mfg., Inc.: *See*—  
McAuley, James H. 2,889,915.
- McBee, Earl T., and O. R. Pierce, to Research Corp. Fluorine-containing alkoxyalkylsilanes. 2,892,859, 6-30-59, Cl. 260-448.8.
- McBee, Earl T., O. R. Pierce, and H. M. Metz, to Research Corp. Fluorine-containing phosphonates. 2,899,454, 8-11-59, Cl. 260-461.
- McBee, Earl T., C. W. Roberts, and G. Wilson, Jr., to Hooker Electrochemical Co. Difunctional F-containing acids, esters and acid halides. 2,908,710, 10-13-59, Cl. 260-481.
- McBee, Earl T., J. D. Idol, Jr., and C. W. Roberts, to Purdue Research Foundation. Cyclic tetradecachloro compound and method of making. 2,911,448, 11-3-59, Cl. 260-648.
- McBee, Warren D., to Sperry Rand Corp. Traveling wave tube. 2,887,608, 5-19-59, Cl. 315-3.5.
- McBrayer, Manuel L., and T. J. Hill. Split jamb window unit. 2,901,784, 9-1-59, Cl. 20-52.
- McBrian, John E. Relay for printed circuits. 2,903,536, 9-8-59, Cl. 200-87.
- McBride, Byron V.: *See*—  
Trigg, Warren M., and McBride. 2,904,875.
- McBride, Donald W.: *See*—  
Gore, Le Roy D., Hanson, and McBride. 2,907,547.
- Hanson, Theodore L., and McBride. 2,903,165.
- McBride, John A., and R. M. Green, to Phillips Petroleum Co. Crystal separation and purification. 2,904,412, 9-15-59, Cl. 23-302.
- McBride, John P., to United States of America, Atomic Energy Commission. Method of increasing the dispersibility of slurry particles. 2,917,406, 12-15-59, Cl. 117-100.
- McBride, John W., to Bantar, Inc. Stringed musical instrument of the percussion type. 2,906,158, 9-29-59, Cl. 84-315.
- McBride, Lee: *See*—  
Cook, Robert W., and McBride. 2,894,539.
- McBride, Lee F.: *See*—  
Gallmeyer, Richard D., and McBride. 2,910,042.
- McBride, LeRoy C. Conflagration-fighting method. 2,891,624, 6-23-59, Cl. 169-1.
- McBride, Robert B.: *See*—  
Morro, William C., Jr., and McBride. 2,891,633.
- McBride, William E.: *See*—  
Edmonston, Woolford L. Re. 24,595.
- McBrien, Roger W. Readily adjustable flexible holder. 2,914,831, 12-1-59, Cl. 24-243.
- McBroom, Robert C., to United States of America, Army. Limit switch. 2,910,564, 10-27-59, Cl. 200-153.
- McCabe, Cecil Z.: *See*—  
McCabe, Ira E. 2,874,522.
- McCabe, Edward J., Jr.: *See*—  
Foster, Bertram D., and McCabe. 2,879,761.
- McCabe, George D.: *See*—  
McCabe, Ira E. 2,874,522.
- McCabe, Ira E., deceased, C. Z. McCabe, T. P. Crawford, and G. D. McCabe, co-executors, to The Mercord Corp. Method and apparatus for manufacturing hermetically sealed electric switch. 2,874,522, 2-24-59, Cl. 53-22.
- McCabe, Matthew J., to The Superior Electric Co. Rheostat. 2,896,184, 7-21-59, Cl. 338-97.
- McCabe, Owen J., to The Superior Electric Co. Automatic illuminating control unit. 2,882,450, 4-14-59, Cl. 315-151.
- McCabe-Powers Auto Body Co.: *See*—  
Balogh, Roy O. 2,871,048.
- Balogh, Roy O. 2,888,299.
- McCachren, Parks C. Paper roll holder. 2,879,932, 3-31-59, Cl. 225-89.
- McCaffrey, John F. Road form. 2,907,089, 10-6-59, Cl. 25-118.
- McCaffrey, Leo F., to E. W. Bilss Co. Entry sticker guide for rolling mills. 2,890,609, 6-16-59, Cl. 80-51.
- McCahan, John K.: *See*—  
Imhoff, Bernard H., and McCahan. 2,889,166.
- McCain, Cecil C., and E. Sirp, to Western Electric Co., Inc. Aligning fixture for assembling parts of a magnetron tube. 2,873,516, 2-17-59, Cl. 29-287.
- McCain, William F.: *See*—  
Iannone, John A., Hebling, and McCain. 2,883,193.
- McCall, Florian H.: *See*—  
McMorris, Herschel G., and McCall. 2,894,852.
- McCall, Floyd and L. Drive means for reciprocating cutting assembly. 2,867,070, 1-6-59, Cl. 56-296.
- McCall, Floyd and L. Hoisting mechanism. 2,894,645, 7-14-59, Cl. 212-8.
- McCall, Harold M.: *See*—  
Nicolaissen, Reidar J., and McCall. 2,899,921.
- McCall, Harold M., to Raymond International Inc. Steam actuated hammers. 2,906,245, 9-29-59, Cl. 121-30.
- McCall, Lloyd: *See*—  
McCall, Floyd and L. 2,867,070.
- McCall, Floyd and L. 2,894,645.
- McCall, Marvin A.: *See*—  
Coover, Harry W., Jr., and McCall. 2,875,230.
- Dickey, Joseph B., and McCall. 2,904,577.
- McCall, Marvin A., and R. L. McConnell, to Eastman Kodak Co. Organophosphorus compounds derived from phosphorothiolothionates and epoxides. 2,895,984, 7-21-59, Cl. 260-461.
- McCall, Marvin A., and R. L. McConnell, to Eastman Kodak Co. Halomethanephosphonates. 2,900,405, 8-18-59, Cl. 260-461.
- McCall, Marvin A., and H. W. Coover, Jr., to Eastman Kodak Co. Dialkyl S(1,3,3-trialkoxypropyl) phosphorothiolothionates. 2,908,707, 10-13-59, Cl. 260-461.
- McCall, Richard H.: *See*—  
Drushel, William H., McCall, and Perilloux. 2,874,548.
- McCall, Richard H., to The Texas Co. Cathodic protection of metal structures. 2,870,079, 1-20-59, Cl. 204-197.
- McCall, Thomas D., to United States of America, Army. Pulse radar simulator. 2,883,661, 4-21-59, Cl. 343-17.7.
- McCallum, Robert A.: *See*—  
Brown, Clarence H., and McCallum. 2,907,559.
- McCallum, Robert A., to Goodman Mfg. Co. Strand supported belt conveyor with tension determining means for the support strands. 2,892,532, 6-30-59, Cl. 198-184.
- McCallum, Russell D.: *See*—  
Davis, Ernest, and McCallum. 2,886,178.
- McCammon, Robert F.: *See*—  
Heiland, Carl A., and McCammon. 2,908,866.
- McCammon, Robert F., to Minneapolis-Honeywell Regulator Co. Photographic flash lamp. 2,906,862, 9-29-59, Cl. 240-1.3.
- McCandless, Robert W.: *See*—  
Stephens, Clifford A., and McCandless. 2,889,163.
- McCandless, William, and E. A. Kern. Odometer driving means. 2,910,232, 10-27-59, Cl. 235-97.
- McCandlish, Albanis P., and W. T. Tallon, to Recovery Oil & Gas Co., Inc. Pump jack. 2,874,641, 2-24-59, Cl. 103-46.
- McCann-Erickson Inc.: *See*—  
Wheaton, David H. 2,890,811.
- McCann, Farrell A.: *See*—  
Brown, George W., Cartwright, Hutter, McCann, Nyberg, Skeirik, and Krag. 2,909,968.
- McCann, John M.: *See*—  
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- McCann, John M., to Vandale Corp. Silo unloader coupling assembly. 2,906,108, 9-29-59, Cl. 64-27.
- McCann, Keith, to Goodman Mfg. Co. Troughing roller assembly for belt conveyor. 2,868,355, 1-13-59, Cl. 198-192.
- McCann, Keith R.: *See*—  
Craggs, Joseph, and McCann. 2,880,849.
- McCann, Marshall J.: *See*—  
Halden, Frederick G., and McCann. 2,870,246.
- McCann, Marshall J., to The Western Union Telegraph Co. Facsimile transmitter blanking system. 2,903,511, 9-8-59, Cl. 178-7.1.
- McCarter, Ed R., to Jersey Production Research Co. Pulse modulation system. 2,902,657, 9-1-59, Cl. 332-9.
- McCarthy, Charles S., to American Forging and Socket Co. Hand brake system. 2,907,228, 10-6-59, Cl. 74-516.
- McCarthy, Charles S., R. B. Koskela, and A. J. Rhodes, to American Forging & Socket Co. Brake system. 2,905,024, 9-22-59, Cl. 74-539.
- McCarthy Dennis. Multi-purpose device for fishing accessories. 2,917,862, 12-22-59, Cl. 43-54.5.
- McCarthy, Edward L.: *See*—  
Scott, Larkin B., and McCarthy. 2,887,935.
- McCarthy, John A., to Bell Telephone Laboratories, Inc. Electron discharge device. 2,899,577, 8-11-59, Cl. 313-68.
- McCarthy, John R.: *See*—  
Franklin, Richard C., and McCarthy. 2,911,340.
- McCarthy, Joseph W., to Sears, Roebuck and Co. Umbrella tent. 2,873,750, 2-17-59, Cl. 135-1.
- McCarthy, Lawrence A.: *See*—  
Diodati, Giacomo F., McCarthy, and Souter. 2,889,027.
- McCarthy, Lawrence A., to Western Electric Co., Inc. Apparatus for molding liquid resin materials. 2,892,214, 6-30-59, Cl. 18-30.
- McCarthy, Owen F. Height adjustable single or multiple clothesline. 2,879,901, 3-31-59, Cl. 211-119.17.
- McCarthy, Robert T. Panel construction. 2,867,857, 1-13-59, Cl. 20-15.



- McCarthy, Vincent J., to The Salem Tool Co. Coal mining machine. 2,880,707, 4-7-59, Cl. 121-45.
- McCarthy, William A., to Phillips Petroleum Co. Production of fuel gas and liquid hydrocarbon fuels. 2,905,622, 9-22-59, Cl. 208-78.
- McCarthy, Dale E.: *See*—  
Perry, Donald R. 2,917,204.
- McCart, Daniel J., and E. H. Lutz, to United States of America, Navy. Heat responsive means for blade cooling. 2,906,494, 9-29-59, Cl. 253-39.1.
- McCart, Donald L.: *See*—  
Walton, George W., and McCart. 2,891,621.
- McCart, Frederick J.: *See*—  
Tilford, Charles H., McCart, and Van Campen. 2,894,949.
- Wheeler, Keith W., Seyler, Palopoli, and McCart. 2,898,339.
- McCart, Horace G.: *See*—  
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- McCart, Horace G., to Sperry Rand Corp. Control mechanism. 2,892,351, 6-30-59, Cl. 74-17.5.
- McCart, Horace G., to Sperry Rand Corp. Crop treating apparatus. 2,918,774, 12-29-59, Cl. 56-1.
- McCart, Horace G., and L. L. Bedke, to Sperry Rand Corp. Forage wagon discharge control baffle. 2,880,004, 3-31-59, Cl. 275-3.
- McCart, Horace G., and J. K. Hale, to Sperry Rand Corp. Agricultural implement. 2,906,076, 9-29-59, Cl. 56-1.
- McCart, Horace G., and H. J. Brikowski, to Sperry Rand Corp. Hitching device. 2,910,816, 11-3-59, Cl. 56-25.
- McCart, Lourdes V., to Controls Co. of America. Fuel valve with flow rate dependent upon combustion fan operation. 2,870,778, 1-27-59, Cl. 137-209.
- McCart, Lourdes V., to Controls Co. of America. Stack draft responsive fuel flow control. 2,881,790, 4-14-59, Cl. 137-389.
- McCart, Lourdes V., to Controls Co. of America. Air prover. 2,891,761, 6-23-59, Cl. 251-62.
- McCart, Orin P., and J. R. Barr, to General Electric Co. Controlled speed tap changing mechanism. 2,878,333, 3-17-59, Cl. 200-62.
- McCart, Theodore M., and S. E. Lover, to Gibson, Inc. Electrical pickup for stringed musical instruments. 2,897,709, 8-4-59, Cl. 84-1.15.
- McCarvell, John H.: *See*—  
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- McCarvell, John H., and W. C. Carlisle. Gas lift valve. 2,869,568, 1-20-59, Cl. 137-155.
- McCaskey, Earl A. Tire mounting method and means. 2,907,380, 10-6-59, Cl. 157-1.21.
- McCaughan, Thomas. Casement stays. 2,873,992, 2-17-59, Cl. 292-262.
- McCauley, David A.: *See*—  
Lien, Arthur P., and McCauley. 2,868,854.
- Slaughter, John I., and McCauley. 2,906,788.
- Slaughter, John I., and McCauley. 2,908,728.
- Wilson, Alexander T., and McCauley. 2,872,396.
- McCauley, David A., to Standard Oil Co. Production of trimethylbenzenes by xylene disproportionation. 2,881,228, 4-7-59, Cl. 260-671.
- McCauley, David A., to Standard Oil Co. Upgrading fused benzenoid ring hydrocarbons. 2,884,469, 4-28-59, Cl. 260-671.
- McCauley, David A., to Standard Oil Co. Process for the preparation of 1,3,5-tri-*t*-butylbenzene by alkylation. 2,908,729, 10-13-59, Cl. 260-671.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Preparation of chloroalkylbenzene. 2,881,224, 4-7-59, Cl. 260-650.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Aromatic recovery using hydrogen fluoride and copper fluoride. 2,914,584, 11-24-59, Cl. 260-674.
- McCauley, David A., and A. P. Lien, to Standard Oil Co. Xylene-ethylbenzene separation using hydrogen fluoride and copper fluoride. 2,914,585, 11-24-59, Cl. 260-674.
- McCauley Industrial Corp.: *See*—  
Rudisch, Walter E. 2,875,876.
- Rudisch, Walter E. 2,913,081.
- McCauley, John H., and J. R. Bethke, to Burroughs Corp. Indicator tubes. 2,906,906, 9-29-59, Cl. 313-109.5.
- McCauley, John K.,  $\frac{1}{2}$  to R. C. McCauley. Walking aid. 2,889,842, 6-9-59, Cl. 135-45.
- McCauley, Norman, and J. J. Schmidt. Overhead valve cover hold-down device. 2,877,756, 3-17-59, Cl. 123-195.
- McCauley, Raymond E. Coffee beverage making machine. 2,906,193, 9-29-59, Cl. 99-283.
- McCauley, Rosa C.: *See*—  
McCauley, John K. 2,889,842.
- McCauley, John W., to Universal Oil Products Co. Solids elevator. 2,909,391, 10-20-59, Cl. 302-17.
- McCawley, Frank X., to Chicago Development Corp. Method of coating and working metal. 2,893,115, 7-7-59, Cl. 29-424.
- McChesney, Cuyler S.: *See*—  
Hawkins, Harold F., and McChesney. 2,899,711.
- McClain, James E. Voltage regulating transformer. 2,904,743, 9-15-59, Cl. 323-56.
- McClaine, Leslie A., to United States of America, Atomic Energy Commission. Uranium leaching and recovery process. 2,900,229, 8-18-59, Cl. 23-14.5.
- McClamroch, Harold H.,  $\frac{1}{2}$  to J. G. W. MacClamroch. Picker stick check. 2,903,020, 9-8-59, Cl. 139-161.
- McClanahan, Daulce N. Cleaning tool. 2,888,700, 6-2-59, Cl. 15-236.
- McClary, Lee R.: *See*—  
Jones, Kenneth M., Marcus, and McClary. 2,903,041.
- McClathie, Samuel F. Flow throttling controls for blowers, turbines and the like. 2,902,209, 9-1-59, Cl. 230-114.
- McClean, Stanley M., to Phillips Control Corp. Relay assembly fixture. 2,915,814, 12-8-59, Cl. 29-238.
- McCleary, Harry R., to Thormac Packaging Corp. Dispenser carton. 2,919,020, 12-29-59, Cl. 206-57.
- McCleary, James E.: *See*—  
Martin, Andrew S., and McCleary. 2,870,985.
- Martin, Andrew S., and McCleary. 2,889,128.
- McCleary, Lawrence R., to Radio Corp. of America. Battery loading compartment for portable radio receiver casings and the like. 2,910,580, 10-27-59, Cl. 250-14.
- McCleary, Roy E.: *See*—  
Ring, Harold H., Shrode, Clay, and McCleary. 2,888,734.
- McCleary, James A.: *See*—  
Lorch, Hermann R., and McCleary. 2,905,919.
- McClellan, George T. Shipping unit convertible to a highway trailer. 2,876,016, 3-3-59, Cl. 280-30.
- McClellan, Harry R., Jr. Wall-mounted indoor or outdoor cooking fireplace. 2,915,960, 12-8-59, Cl. 99-421.
- McClellan, Howard. Rocker support device and the like. 2,893,471, 7-7-59, Cl. 155-56.
- McClellan, Marcus E., to Deere Mfg. Co. Agricultural crop-handling machine. 2,871,643, 2-3-59, Cl. 56-24.
- McClellan, Paul P., to Jefferson Chemical Co., Inc. Catalytic process for producing alkylene carbonates. 2,873,282, 2-10-59, Cl. 260-340.2.
- McClellan, Ralph E., to Meilink Steel Safe Co. Followers for filing cabinets. 2,906,269, 9-29-59, Cl. 129-28.
- McClelland, Clarence P.: *See*—  
Makela, Armas G., and McClelland. 2,910,716.
- McClelland, John C., to Tattall Measuring Systems Co. Specimen grips. 2,908,163, 10-13-59, Cl. 73-103.
- McClelland, John W.,  $\frac{1}{2}$  to G. H. Mensch, Jr. Antiskid device. 2,896,685, 7-28-59, Cl. 152-214.
- McClelland, Joseph R.: *See*—  
Easton, Clarence I., and McClelland. 2,867,203.
- McClenahan, Douglas S. Recoil-action machine gun. 2,900,877, 8-25-59, Cl. 89-173.
- McCleskey, Henry F. Tandem disc harrow. 2,897,905, 8-4-59, Cl. 172-581.
- McClintock, Ross A.: *See*—  
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- McClintock, Sherman A.,  $\frac{1}{2}$  to P. J. Stine. Curb service device. 2,896,748, 7-28-59, Cl. 186-1.
- McClintock, Sherman E.,  $\frac{1}{2}$  to P. J. Stine. Speed alarm indicator for automotive vehicles. 2,903,684, 9-8-59, Cl. 340-263.
- McClintock, William M.: *See*—  
Milz, Wendell C., and McClintock. 2,902,439.
- McClinton, John. Keyseat tool. 2,869,828, 1-20-59, Cl. 255-28.
- McClinton, John. Combination broach and drill collar for use in well drilling. 2,888,845, 6-2-59, Cl. 77-72.
- McClinton, Leslie T.: *See*—  
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- McCloskey, Melvin N., to Webster Manufacturing, Inc. Indicating mechanism for underbunker coal control gates. 2,888,170, 5-26-59, Cl. 222-41.
- McCloud, George R., to McGraw-Edison Co. Drop-out fuse constructions. 2,884,500, 4-28-59, Cl. 200-114.
- McCloud, George R., to McGraw-Edison Co. Contact clip for fuse cutout. 2,901,576, 8-25-59, Cl. 200-133.
- McCloud, George R., to McGraw-Edison Co. Drop-out delayed action fuse constructions. 2,904,658, 9-15-59, Cl. 200-114.
- McCloud, James R., to I-T-E Circuit Breaker Co. Motor spring operating mechanism for oil circuit breakers. 2,909,629, 10-20-59, Cl. 200-92.
- McCloughy, Thomas. Rocket control. 2,868,478, 1-13-59, Cl. 244-14.
- McCloy, John F.: *See*—  
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- McCloy, John D., to Thermoid Co. Flame and heat resistant asbestos textile base material. 2,884,343, 4-28-59, Cl. 117-126.
- McCluney, Chester L. Flashing. 2,874,654, 2-24-59, Cl. 108-26.
- McClung, Eugene F. Floor mat. 2,908,027, 10-13-59, Cl. 15-217.
- McClure, Arthur W., to W. O. Hickok Mfg. Co. Banding machine. 2,903,830, 9-15-59, Cl. 53-198.
- McClure, Charles M.: *See*—  
Doherty, James J., and McClure. 2,877,151.
- McClure, George M.: *See*—  
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- McClure, Glenn T., and T. F. Hursen, to Westinghouse Air Brake Co. Slack varying means for use with railway car truck brake beams. 2,918,149, 12-22-59, Cl. 188-197.
- McClure, Glenn T., and W. B. Jeffrey, to Westinghouse Air Brake Co. Load-controlled brake apparatus for railway cars. 2,919,163, 12-29-59, Cl. 303-22.
- McClure, Holmes H.: *See*—  
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- Smith, Raymond A., McClure, and Bond. 2,899,274.



- McClure, Holmes H., J. S. Melbert, and L. D. Hoblit, to The Dow Chemical Co. Method of reducing the halogen content of halo-hydrocarbons. 2,886,605, 5-12-59, Cl. 260—650.
- McClure, Kenneth R.: *See*—  
Dickey, Wallace J. and McClure. 2,869,911.
- McClure, Robert, to General Motors Corp. Safety steering wheel. 2,895,345, 7-21-59, Cl. 74—493.
- McClure, Robert, to General Motors Corp. Automobile door hinge. 2,915,780, 12-8-59, Cl. 16—153.
- McClurg, Carl D., to The Buckeye Steel Castings Co. Retaining means for coupler carrier. 2,880,887, 4-7-59, Cl. 213—61.
- McClurg, Carl D., to The Buckeye Steel Castings Co. Striker and carrier for railway couplers. 2,893,572, 7-7-59, Cl. 213—60.
- McClurg, Carl D., to The Buckeye Steel Castings Co. Combined spring group and friction damper. 2,895,727, 7-21-59, Cl. 267—9.
- McColl, Bruce J., to Clark Equipment Co. Locking differential. 2,876,658, 3-10-59, Cl. 74—710.5.
- McColl, Bruce J., to Clark Equipment Co. Coupling construction. 2,884,083, 4-28-59, Cl. 180—12.
- McColl-Fontenac Oil Co. Ltd.: *See*—  
Veinot, William D., and Robinson. 2,903,010.
- McColl, John W., to Borg-Warner Corp. Compound thermostatic element. 2,879,870, 3-31-59, Cl. 192—82.
- McCollister, Howard M. Reading material holder for beds. 2,896,364, 7-28-59, Cl. 45—82.
- McCollough, William E., to Holley Carburetor Co. Ignition control for an internal combustion engine. 2,867,197, 1-6-59, Cl. 123—117.
- McCollum, Louis S.: *See*—  
Houston, Harry H., and McCollum. 2,878,131.
- McCollum, Louis S., and S. Gindoff, to International Minerals & Chemical Corp. Fibrous agglomerate. 2,902,379, 9-1-59, Cl. 106—99.
- McCollum, Roscoe C.: *See*—  
Gordon, Robert B., and McCollum. 2,876,432.
- McCombie, Frederick W., to Megator Pumps & Compressors Ltd. Rotary pumps or compressors. 2,879,913, 3-31-59, Cl. 220—38.
- McCombs, Eugene W. Casket and vault. 2,916,797, 12-15-59, Cl. 27—35.
- McCombs, Howard L., Jr., to Bendix Aviation Corp. Ignition control for turbojet afterburner. 2,867,083, 1-6-59, Cl. 60—35.6.
- McConalogue, Denis J.: *See*—  
Farmer, Eugene D., and McConalogue. 2,895,132.
- McConalogue, Wesley E., to Dorr-Oliver Inc. Rapid closure locking means for pressure vessels. 2,916,143, 12-8-59, Cl. 210—236.
- McConchie, Burton G., and F. Pulsifer, to United Shoe Machinery Corp. Transfer mechanism for work handling apparatus. 2,903,722, 9-15-59, Cl. 12—1.
- McConnell, Richard L.: *See*—  
McCall, Marvin A., and McConnell. 2,895,984.
- McConica, Thomas H., III. Ski rigging apparatus. 2,918,234, 12-22-59, Cl. 244—102.
- McConnaughey, Robert K. Variable diameter tensed ring piston. 2,895,773, 7-21-59, Cl. 309—23.
- McConnell, Clint P. Tissue roll holder. 2,889,122, 6-2-59, Cl. 242—55.53.
- McConnell, Frank J., to The American Hardware Corp. Door latch operating unit. 2,879,096, 3-24-59, Cl. 292—169.
- McConnell, George, and K. N. Jones, to Imperial Chemical Industries Ltd. Isolation of gamma benzene hexachloride. 2,889,376, 6-2-59, Cl. 260—648.
- McConnell, Howard M., to United States Steel Corp. Inductor and method for welding plate edges. 2,879,365, 3-24-59, Cl. 219—10.53.
- McConnell, John H., to Electro-Sonic Laboratories, Inc. Moving armature phonograph pickups. 2,883,478, 4-21-59, Cl. 179—100.41.
- McConnell, Joseph. Reading guides for figures in lines and columns. 2,871,816, 2-3-59, Cl. 116—119.
- McConnell, Richard L.: *See*—  
Coover, Harry W., Jr., and McConnell. 2,875,229.  
Coover, Harry W., Jr., and McConnell. 2,899,455.  
McCall, Marvin A., and McConnell. 2,900,405.
- McConnell, Richard L., to Eastman Kodak Co. Method of preparation of 2,2-dimethyl-1,3-propanediol cyclic hydrogen phosphite. 2,916,508, 12-8-59, Cl. 260—461.
- McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Catalytic process of reacting a phosphite and lactone. 2,875,231, 2-24-59, Cl. 260—461.
- McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Phosphonoalkanamides prepared from phosphites and lactams. 2,875,232, 2-24-59, Cl. 260—461.
- McConnell, Richard L., and N. H. Shearer, Jr., to Eastman Kodak Co. Organophosphorus derivatives of dihydrothiophene 1,1-dioxide. 2,882,278, 4-14-59, Cl. 260—332.1.
- McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Reaction products of dialkyl phosphorothiolothionates and acetylenic compounds. 2,912,450, 11-10-59, Cl. 260—461.
- McConnell, Thomas E. Fishing line meter. 2,874,477, 2-24-59, Cl. 33—129.
- McConnell, Vincent P.: *See*—  
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- McConnell, Wayne V.: *See*—  
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- McConnell, William J. Preset control system for open-hearth furnace. 2,919,122, 12-29-59, Cl. 263—15.
- McConnell, William M., to Taylor-Wilson Mfg. Co. Pipe expansion and testing apparatus. 2,907,202, 10-6-59, Cl. 73—49.6.
- McConologue, Edward J. Fire escape ladder. 2,901,056, 8-25-59, Cl. 182—85.
- McConologue, Edward J. Fire escape. 2,905,261, 9-22-59, Cl. 182—85.
- McCord, Andrew T. Process of extracting and recovering columbium and tantalum values from their ores and products thereof. 2,888,320, 5-26-59, Cl. 23—88.
- McCord, Andrew T., and D. R. Spink, to The Carborundum Co. Electrolytic polishing of zirconium, hafnium and their alloys. 2,904,479, 9-15-59, Cl. 204—140.5.
- McCord, Harold A., to MLLK Corp. Coating composition and process. 2,885,295, 5-5-59, Cl. 106—2.
- McCord, Harold E. Power substitution circuit. 2,868,996, 1-13-59, Cl. 307—64.
- McCord, Henry L. Thyatron variable-width-pulse generator. 2,869,038, 1-13-59, Cl. 315—230.
- McCord, Wilfred M., Jr.: *See*—  
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- McCorkle, Kenneth M. Ceiling structure. 2,910,738, 11-3-59, Cl. 20—4.
- McCorkle, Willard H., to United States of America, Atomic Energy Commission. Positioning device. 2,894,647, 7-14-59, Cl. 214—1.
- McCormack, Charles E.: *See*—  
Becker, John, and McCormack. 2,906,740.
- McCormack, Donald C., to J. A. Wilson Lighting & Display Ltd. Globe support. 2,918,569, 12-22-59, Cl. 240—128.
- McCormack, Foster D., to Minnesota and Ontario Paper Co. Fiber board positioner. 2,892,213, 6-30-59, Cl. 18—17.
- McCormack, Leonard J., Jr.: *See*—  
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- Tavender, Walter K., and McCormack. 2,878,360.
- Tavender, Walter K., and McCormack. 2,913,564.
- McCormack, William B., and H. E. Schroeder, to E. I. du Pont de Nemours and Co. Organophosphorus polymers. 2,891,915, 6-23-59, Cl. 260—2.
- McCormack, William H., to The Garrett Corp. Electronic temperature regulating apparatus. 2,889,112, 6-2-59, Cl. 236—9.
- McCormick, Charles E. Glare shield for curved windshields. Re. 24,706, 9-29-59, Cl. 296—97.
- McCormick, Charles W., ½ to M. F. Steward. Window blind. 2,882,563, 4-21-59, Cl. 20—63.
- McCormick & Co., Inc.: *See*—  
Bonotto, Michele. 2,903,359.
- McCormick, Dale B., to General Motors Corp. Track closure. 2,891,822, 6-23-59, Cl. 305—10.
- McCormick, Francis H., to General Motors Corp. Domestic appliance. 2,870,313, 1-20-59, Cl. 219—20.
- McCormick, Francis H., to General Motors Corp. Washing and extracting machine. 2,879,655, 3-31-59, Cl. 68—23.
- McCormick, Frank, to Federal Carton Corp. Carton for bottles or the like. 2,884,181, 4-28-59, Cl. 229—41.
- McCormick, Frank, to Federal Carton Corp. Display stand. 2,911,106, 11-3-59, Cl. 211—69.
- McCormick, Gayle R. Lathe spindle stop. 2,871,023, 1-27-59, Cl. 279—51.
- McCormick, Jerry R. D.: *See*—  
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- McCormick, Jerry R. D., U. Hirsch, E. R. Jensen, and N. O. Sjolander, to American Cyanamid Co. 6-demethyltetra-cyclines and methods for preparing the same. 2,878,289, 3-17-59, Cl. 260—559.
- McCormick, John, ½ to J. Murnighan. Scaffold assembly. 2,876,048, 3-3-59, Cl. 304—40.
- McCormick, John M., to Owens-Illinois Glass Co. Electronic memory device for article sorting apparatus. 2,873,855, 2-17-59, Cl. 209—90.
- McCormick, John M., to Owens-Illinois Glass Co. Comparing and measuring values by use of X-rays. 2,890,347, 6-9-59, Cl. 250—83.3.
- McCormick, John M., to Owens-Illinois Glass Co. Means for cooling glass forming molds. 2,901,865, 9-1-59, Cl. 49—40.
- McCormick, Martin M., to Sinclair Refining Co. Method of preparing an anhydrous calcium grease. 2,915,467, 12-1-59, Cl. 252—39.
- McCormick, Robert F., to Automatic Switch Co. Pilot-operated three-way valve. 2,881,801, 4-14-59, Cl. 137—620.
- McCormick, Robert H.: *See*—  
Fenske, Merrell R., and McCormick. 2,909,576.
- McCormick, Ronald R. Collapsible handrail. 2,873,904, 2-17-59, Cl. 228—67.
- McCormick, William E.: *See*—  
Magna, Peter S., and McCormick. 2,874,737.
- McCosh, Andrew K. Light buoys. 2,908,810, 10-13-59, Cl. 240—52.
- McCosh, Frederick I., to Thoreson-McCosh, Inc. Plastic granule dryer and conveyor. 2,916,831, 12-15-59, Cl. 34—57.
- McCourtly, William D., to H. M. Hobson, Ltd. Fuel supply systems for gas turbine engines. 2,896,700, 7-28-59, Cl. 158—36.4.



- McCown, Max C., and P. F. Wiley, to Eli Lilly and Co. Thiadiazocyanine anthelmintic compositions and methods of using them. 2,893,914, 7-7-59, Cl. 167-53.
- McCown, Everett E.: *See—*  
Nye, Robert G., McCown, and Harwood. 2,903,626.
- McCown, Fred M.: *See—*  
Freyholdt, Helmut A., and McCown. 2,912,013.
- McCown, William E.: *See—*  
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- McCown, William E., and J. W. McAuley, to Libbey-Owens-Ford Glass Co. Vibratory devices. 2,890,354, 6-9-59, Cl. 310-26.
- McCoy, Claudius T., to Philco Corp. Modular circuitry. 2,894,077, 7-7-59, Cl. 179-171.
- McCoy, David O.: *See—*  
Hoadley, James C., and McCoy. 2,874,287.
- McCoy, Donald H. Book indexes. 2,903,277, 9-8-59, Cl. 285-39.
- McCoy, Ewald H. Electrodepositing copper. 2,876,178, 3-3-59, Cl. 204-52.
- McCoy, George, C. E. Inman, and G. D. Kyker, to Pennsalt Chemicals Corp. Dehydrohalogenation of benzene hexachloride. 2,914,573, 11-24-59, Cl. 260-650.
- McCoy, Howard M.: *See—*  
Miller, Harry C., Taylor, and McCoy. 2,873,162.
- McCoy, Paul B.: *See—*  
Atwater, William M., and McCoy. 2,896,996.
- McCoy, Rawley D.: *See—*  
Meissinger, Hans F., and McCoy. 2,899,550.
- McCoy, Rawley D., and S. Godel, to Reeves Instrument Corp. Apparatus for automatically positioning a movable object. 2,889,508, 6-2-59, Cl. 318-30.
- McCoy, Robert E., and M. V. Kalfayan. Cross-talk neutralization in color pick-up tube. 2,901,531, 8-25-59, Cl. 178-5.4.
- McCoy, Robert L., and J. Kaminski, Jr., to General Electric Co. Shielding means for dead ended double conductor installations. 2,899,484, 8-11-59, Cl. 174-144.
- McCoy, Thomas A., to Carando Machine Works. Sealing unit for drum testers. 2,880,610, 4-7-59, Cl. 73-49.2.
- McCoy, Thomas A., to Carando Machine Works. Elevating and centering device for cylindrical bodies. 2,901,085, 8-25-59, Cl. 198-29.
- McCoy, William K.: *See—*  
Blewett, Guy C., McCoy, and Walsh. 2,883,996.
- McCracken, Edward A.: *See—*  
Newchurch, Edwin J., and McCracken. 2,901,413.
- McCracken, James W. Packing crate for sheets or the like. 2,901,102, 8-25-59, Cl. 206-60.
- McCracken, John H., and L. Jacobson, to Diamond Alkali Co. Fire extinguishing composition. 2,912,379, 11-10-59, Cl. 252-7.
- McCrary, Homer T. Retractable ripper tooth. 2,912,774, 11-17-59, Cl. 37-145.
- McCray, Maurice C., and W. Doble, to Jabsco Pump Co. Pump control system. 2,918,011, 12-22-59, Cl. 103-23.
- McCready, William B. Building panels. 2,914,150, 11-24-59, Cl. 189-86.
- McCreary, Elmer J., to Phillips Petroleum Co. Method of treating absorber solution used in gas purification. 2,890,931, 6-16-59, Cl. 23-3.
- McCreary, Harold J., to General Telephone Laboratories, Inc. Register-sender system employing magnetic storage. 2,872,525, 2-3-59, Cl. 179-18.
- McCreary, Harold J., to General Telephone Laboratories, Inc. High speed recorder system. 2,894,799, 7-14-59, Cl. 346-74.
- McCreary, Harold J., to General Telephone Laboratories, Inc. Magnetostrictive relay. 2,896,044, 7-21-59, Cl. 200-87.
- McCreary, Harold J., to General Telephone Laboratories, Inc. Electromagnetic relay. 2,899,520, 8-11-59, Cl. 200-104.
- McCreary, Harold J., to General Telephone Laboratories, Inc. Code switch. 2,918,549, 12-22-59, Cl. 200-98.
- McCreary, Robert M.: *See—*  
Dahl, Einar S., and McCreary. 2,917,035.
- McCrimlish, Gerard J.: *See—*  
Pader, Morton, Hamilton, Miles, and McCrimlish. 2,874,049.
- McCrone, Harold W., to Yankee Engineering Co., Inc. Locking device for clothes hangers. 2,868,390, 1-13-59, Cl. 211-124.
- McCroskey, Robert D., to E. I. du Pont de Nemours and Co. Snubbing pin for drawing yarn. 2,886,926, 5-19-59, Cl. 51-288.
- McCrosen, Fred C., P. W. Vittum, and A. Weissberger, to Eastman Kodak Co. Benzoylacet-o-alkoxyanilide couplers for color photography. 2,875,057, 2-24-59, Cl. 96-100.
- McCrum, Walter M.: *See—*  
Fahey, Floyd J., and McCrum. 2,882,894.
- McCue, James M., to United States of America, Army. Code transmitting apparatus. 2,885,664, 5-5-59, Cl. 340-365.
- McCuen, Burton A., to Independent Lock Co. Boring jig construction. 2,886,989, 5-19-59, Cl. 77-62.
- McCulley, James M., to Radio Corp. of America. Step-wave generator with means to adjust and measure height of any step. 2,874,280, 2-17-59, Cl. 250-27.
- McCulloch Corp.: *See—*  
Bandli, John C., Foster, and Farmer. 2,899,902.
- Carlson, Byron, and Klancek. 2,903,991.
- Hazzard, Harry I. 2,913,023.
- Gudmundsen, Austin. 2,872,956.
- Gudmundsen, Austin. 2,887,838.
- Gudmundsen, Austin. 2,896,746.
- McCulloch Motors Corp.: *See—*  
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- Gudmundsen, Austin. 2,905,209.
- Oehrli, John W. 2,905,026.
- Oehrli, John W. 2,913,932.
- Sanborn, Daniel S. 2,916,023.
- McCulloch, Thomas B., to Jersey Production Research Co. Permanent well completion apparatus. 2,894,587, 7-14-59, Cl. 166-183.
- McCulloch, William J. G.: *See—*  
Bowman, Lewis W., Leary, and McCulloch. 2,890,187.
- Seelbach, Charles W., and McCulloch. 2,893,984.
- McCulloch, William J. G., and I. Kirshenbaum, to Esso Research and Engineering Co. Dehydrogenation of secondary alcohols. 2,885,442, 5-5-59, Cl. 260-596.
- McCulloch, William J. G., and A. W. Langer, Jr., to Esso Research and Engineering Co. Polymerization of olefins. 2,898,327, 8-4-59, Cl. 260-88.1.
- McCulloch, Winfield H., to Jersey Production Research Co. Throttling plug valve. 2,902,054, 9-1-59, Cl. 137-625.12.
- McCullough, David S., to The Dumore Co. Attachment for internal keyway cutting and slotting. 2,868,090, 1-13-59, Cl. 90-39.
- McCullough, Jack A.: *See—*  
Eitel, William W., McCullough, and Wunderlich. 2,918,597.
- McCullough, Jack A., and P. D. Williams, to Eitel-McCullough, Inc. Ceramic type electron tube. 2,910,607, 10-27-59, Cl. 313-250.
- McCullough, John P.: *See—*  
Ruhmann, Welton A., and McCullough. 2,888,263.
- McCullough, Lester C., to McGraw-Edison Co. Insulating bushing. 2,868,867, 1-13-59, Cl. 174-153.
- McCullough, Robert F., to United States of America, Atomic Energy Commission. Process for recovery of constituents of ores. 2,885,259, 5-5-59, Cl. 23-14.5.
- McCullough, Robert F., to United States of America, Atomic Energy Commission. Method of processing ore material. 2,905,526, 9-22-59, Cl. 23-14.5.
- McCullough, Robert F., and J. B. Adams, to United States of America, Atomic Energy Commission. Method of recovering mineral values. 2,894,809, 7-14-59, Cl. 23-14.5.
- McCullough, Robert J., Sr. Garage door lock controls, and the like. 2,890,903, 6-16-59, Cl. 292-48.
- McCullough, Robert W.: *See—*  
Murray, Edward A., and McCullough. 2,907,094.
- McCully, Robert R., and J. W. McDuffie, to Sperry Rand Corp. Support-jack. 2,885,181, 5-5-59, Cl. 254-86.
- McCune, Homer W., to The Procter & Gamble Co. Detergent composition containing phosphated alkyl glyceryl ether corrosion and tarnish inhibitor. 2,892,796, 6-30-59, Cl. 252-137.
- McCune, William J., Jr.: *See—*  
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- McCurdy, L. L.: *See—*  
Broell, Percy C. 2,886,120.
- McCurdy, William H.: *See—*  
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- Miller, Carl F., and McCurdy. 2,892,119.
- Miller, Carl F., McCurdy, and Lederer. 2,907,911.
- McCurley, Edward B.,  $\frac{1}{4}$  to W. B. Mann, and  $\frac{1}{4}$  to C. T. Bashman. Stopper plug valve. 2,913,012, 11-17-59, Cl. 138-94.
- McCutchan, Roy T., to Southwest Research Institute. Process for extinguishing burning magnesium and other combustible metals. 2,880,172, 3-31-59, Cl. 252-2.
- McCutchen, Charles W.: *See—*  
Williams, Edward J., Dean, and McCutchen. 2,888,389.
- McCutchen, Joseph K. Tufting machine and method. 2,879,728, 3-31-59, Cl. 112-79.
- McCutchen, Joseph K. Method of and apparatus for producing tufted product having unsevered and severed loops. 2,879,729, 3-31-59, Cl. 112-79.
- McCutchen, Samuel P., Jr., and J. E. Eskilson, to Clevite Corp. Magnetic transducer head unit. 2,888,522, 5-26-59, Cl. 179-100.2.
- McCutcheon, Raymond. Electrical plug with detachable cap. 2,907,975, 10-6-59, Cl. 339-196.
- McDanel, Wayne J., and W. T. Centers, to The Ohio Crankshaft Co. High frequency inductor. 2,889,438, 6-2-59, Cl. 219-10.49.
- McDaniel, Alden W. Plain self-aligning bearing. 2,875,002, 2-24-59, Cl. 308-72.
- McDaniel, Carter E., and J. T. and R. A. Karney. Hoisting attachment for tubular steel scaffolds. 2,890,082, 6-9-59, Cl. 304-29.
- McDaniel, Robert S.: *See—*  
Bock, James A., McDaniel, and Schubert. 2,910,430.
- McDaniel, William L. Dispensing unit. 2,870,895, 1-27-59, Cl. 194-10.
- McDerby, Richard A. Boat. 2,912,705, 11-17-59, Cl. 9-6.
- McDerby, Richard A. Seats. 2,913,038, 11-17-59, Cl. 155-54.
- McDermody, Ronald A.: *See—*  
Hymas, Donald G., and McDermody. 2,898,455.
- McDermott, Byron, to Bell Telephone Laboratories, Inc. Transistor gating circuit. 2,883,473, 4-21-59, Cl. 179-84.
- McDermott, Henry J.: *See—*  
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- Pistor, Christel, and McDermott. 2,872,701.
- McDermott, Henry J., to American Viscose Corp. Spinneret coupling assembly. 2,879,543, 3-31-59, Cl. 18-8.



- McDermott, Henry J., to American Viscose Corp. Rounder head bracket mounting for spinning machine. 2,911,675, 11-10-59, Cl. 18—8.
- McDermott, Henry J., and C. Pistor, to American Viscose Corp. Multiple duct conduit swivel assembly. 2,917,327, 12-15-59, Cl. 285—61.
- McDermott, Julian A. Portable warning lamp. 2,885,539, 5-5-59, Cl. 240—53.
- McDevitt, Harry J. Shoes for hold-down mechanism for storage batteries. 2,869,663, 1-20-59, Cl. 180—68.5.
- McDevitt, Harry J. Device for demineralizing water. 2,869,724, 1-20-59, Cl. 210—94.
- McDiarmid, Clair W. Electrical ratchet relay. 2,912,538, 11-10-59, Cl. 200—87.
- McDole, Ewell E.: *See—*  
Williams, Joseph H., and McDole. 2,867,226.
- McDonald, B. F. Co.: *See—*  
Barker, Luther P., Jr. 2,881,443.
- McDonald, Donald, to J. L. McDonald. Paper dispenser. 2,873,927, 2-17-59, Cl. 242—55.51.
- McDonald, Donald. Single film camera provided with a plurality of separate lenses. 2,907,253, 10-6-59, Cl. 95—1.1.
- McDonald, Donald C., to Cook Electric Co. Follow-up control systems. 2,869,059, 1-13-59, Cl. 318—32.
- McDonald, Donald C., to Cook Electric Co. Transfer function analysis. 2,902,644, 9-1-59, Cl. 324—57.
- McDonald, Donald C., R. C. Boe, and J. Warshawsky, to Cook Electric Co. Remote control system. 2,871,660, 2-3-59, Cl. 60—53.
- McDonald, Earl, to Super Mold Corp. of Calif. Locking ring locating and guide unit for portable tire retreading molds. 2,916,772, 12-15-59, Cl. 18—43.
- McDonald, Edward H.: *See—*  
Hendrix, Sylvan G., Hirsch, and McDonald. 2,888,992.
- McDonald, Frederick H. Child's spoon. 2,889,624, 6-9-59, Cl. 30—32.4.
- McDonald, Frederick W. Automatic compensating device. 2,908,472, 10-13-59, Cl. 248—346.
- McDonald, Gordon M.: *See—*  
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- McDonald, Guy A.: *See—*  
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- McDonald, Joanne L.: *See—*  
McDonald, Donald. 2,873,927.
- McDonald, Joseph F. Plastics-treating apparatus. 2,879,396, 3-24-59, Cl. 250—49.5.
- McDonald, Julius M., J. C. King, and M. D. Holland. Hub cap locking device. 2,885,931, 5-12-56, Cl. 70—167.
- McDonald, Leighton S., and H. G. Hughes, to The Dow Chemical Co. Stabilization of liquid organic chlorine compounds. 2,917,554, 12-15-59, Cl. 260—652.5.
- McDonald, Leighton S., H. G. Hughes, and C. R. Crabb, to The Dow Chemical Co. Prevention of decomposition of halogenated hydrocarbon solvents. 2,917,555, 12-15-59, Cl. 260—652.5.
- McDonald, Louis M., to Kelite Corp. Metal coating compositions. 2,885,312, 5-5-59, Cl. 148—61.5.
- McDonald, Lyell J., to Penn Controls, Inc. Electric temperature sensing element. 2,878,355, 3-17-59, Cl. 201—63.
- McDonald, Lyell J., to Penn Controls Inc. Magnetic amplifier circuit. 2,894,198, 7-7-59, Cl. 323—89.
- McDonald, Martin,  $\frac{1}{2}$  to C. B. Riddlinghafer. Animal trap. 2,894,352, 7-14-59, Cl. 43—87.
- McDonald, Robert L., and K. H. Burzlaff, to Bitter Co., Inc. Adjustable knee rest. 2,895,775, 7-21-59, Cl. 311—5.
- McDonald, William. Engine exhaust silencer. 2,911,055, 11-3-59, Cl. 181—67.
- McDonnell Aircraft Corp.: *See—*  
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- McDonnell, Basil: *See—*  
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Robinson, Joseph N., Miller, and McDonnell. 2,895,994.  
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- McDonnell & Miller, Inc.: *See—*  
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Kmieciak, Leopold J. 2,875,978.
- McDonnell, Patrick J.: *See—*  
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Thieme, John W., and McDonnell. 2,910,923.
- McDonough, Edgar R., to Allis-Chalmers Mfg. Co. Manure spreader body structure. 2,894,756, 7-14-59, Cl. 275—6.
- McDonough, Everett G.: *See—*  
McGoldrick, Virginia, and McDonough. 2,899,965.
- McDonough, Everett G., to Sales Affiliates, Inc. Glyceryl monomercaptan composition and method of cold waving. 2,889,833, 6-9-59, Cl. 132—7.
- McDonough, John J., to Scott & Williams, Inc. Circular hosiery knitting machines. 2,902,845, 9-8-59, Cl. 66—48.
- McDonough, Mary. Ladies' high heel coverings. 2,915,836, 12-8-59, Cl. 36—72.
- McDonough Power Equipment, Inc.: *See—*  
Jackson, Harold P. 2,891,412.  
Smith, William R. 2,893,501.
- McDonough, William J., Jr. Combination cuff link for regular or French cuff shirts. 2,883,725, 4-28-59, Cl. 24—113.
- McDonough, William P. Reeling apparatus. 2,902,233, 9-1-59, Cl. 242—85.
- McDougal, Paul A., Sr., and F. P. Pileggi,  $\frac{1}{2}$  to F. G. Seelmann. Anti-theft device for automobiles. 2,882,987, 4-21-59, Cl. 180—82.
- McDougal, Thomas F., and W. R. O'Dell. Bit grinder. 2,914,888, 12-1-59, Cl. 51—46.
- McDougall, Alexander E., and V. R. Reel cones for printing paper. 2,903,200, 9-8-59, Cl. 242—68.2.
- McDougall, Franklin M., to B. H., and C. J. Deutsch, d.b.a. Standard Machine & Mfg. Co. Fluid mixing device. 2,908,227, 10-13-59, Cl. 103—262.
- McDougall, Victor R.: *See—*  
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- McDowall, Charles J.: *See—*  
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Harding, William R., and McDowall. 2,870,633.
- McDowall, Charles J., and V. W. Peterson, to General Motors Corp. Aircraft power systems. 2,893,495, 7-7-59, Cl. 170—135.75.
- McDowall, Charles J., and V. W. Peterson, to General Motors Corp. Aircraft power systems. 2,893,525, 7-7-59, Cl. 192—48.
- McDowell Co., Inc.: *See—*  
McDowell, Robert C. 2,895,818.  
McDowell, Robert C., and Ban. 2,876,489.
- McDowell, Hunter L., to Bell Telephone Laboratories, Inc. Traveling wave tubes. 2,876,378, 3-3-59, Cl. 315—3.5.
- McDowell, John R., to G. W. Dunham. Method and means for forming salvage. 2,871,888, 2-3-59, Cl. 139—127.
- McDowell Mfg. Co.: *See—*  
Hempel, Gustav A. 2,898,971.  
Rickard, Clyde E. 2,893,437.  
Rickard, Clyde E. 2,893,438.  
Rickard, Clyde E. 2,901,269.  
Rickard, Clyde E. 2,916,043.  
Rickard, Clyde E. 2,916,306.
- McDowell, Richard H.: *See—*  
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Mitchell, Ernest K., and McDowell. 2,902,446.
- McDowell, Robert C., to McDowell Co., Inc. Method and apparatus for deep-bed charging of traveling grates. 2,895,818, 7-21-59, Cl. 75—5.
- McDowell, Robert C., and T. E. Ban, to McDowell Co., Inc. Combination system of mixing materials and deep sinter bed charging. 2,876,489, 3-10-59, Cl. 18—1.
- McDowell, William B.: *See—*  
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- McDuffee, John K., to Western Electric Co., Inc. Method and apparatus for sealing metal to glass. 2,902,796, 9-8-59, Cl. 49—1.
- McDuffie, Archie D., to General Motors Corp. Distortionable chamber pump. 2,882,830, 4-21-59, Cl. 103—117.
- McDuffie, Archie D., to General Motors Corp. Charge forming means. 2,891,529, 6-23-59, Cl. 123—119.
- McDuffie, Archie D., to General Motors Corp. Charge forming means. 2,893,711, 7-7-59, Cl. 261—23.
- McDuffie, Archie D., to General Motors Corp. Fuel pump. 2,894,459, 7-14-59, Cl. 103—150.
- McDuffie, Duell J. Paraffin cutter. 2,893,494, 7-7-59, Cl. 166—176.
- McDuffie, James W.: *See—*  
McCully, Robert R., and McDuffie. 2,885,181.
- McElgin, John W., to John J. Nesbitt, Inc. Apparatus for air conditioning. 2,869,832, 1-20-59, Cl. 257—2.
- McElhattan, Kenton E., to Joy Mfg. Co. Material gathering mechanism. 2,885,056, 5-5-59, Cl. 198—10.
- McElrath, Thomas, and E. F. Gorman, to Union Carbide Corp. Gas shielded arc welding. 2,905,805, 9-22-59, Cl. 219—137.
- McElroy, Albert D., and J. P. Nigon, to Callery Chemical Co. Process for the preparation of sodium borohydride. 2,889,194, 6-2-59, Cl. 23—14.
- McElroy, George A.: *See—*  
Chamberlin, John M., and McElroy. 2,869,608.
- McElroy, John F.: *See—*  
Lavanchy, Patricia B., and Sonnichsen, and McElroy. 2,886,467.
- McElroy, Melvin R., to Hughes Aircraft Co. Clock pulse circuit for transistor flip-flop. 2,898,479, 8-4-59, Cl. 307—88.5.
- McElroy, Robert K., and R. M. Smith, to White Cap Co. Machine for applying rotatable closure caps to containers. 2,876,605, 3-10-59, Cl. 53—315.
- McElroy, Roy H., to International Clay Machinery of Delaware, Inc. Apparatus for compacting granular materials. 2,909,826, 10-27-59, Cl. 25—41.
- McElroy, Roy H., and J. F. Dykes, to International Clay Machinery of Delaware, Inc. Molding press. 2,888,731, 6-2-59, Cl. 25—45.
- McElroy, William N., and W. R. Martini, to North American Aviation, Inc. Gas recombiner. 2,879,146, 3-24-59, Cl. 23—288.
- McElvain, Samuel M. 4-m-hydroxy phenyl piperidines and their preparation. 2,892,842, 6-30-59, Cl. 260—294.7.
- McElwain, Jay L., to General Electric Co. Duplexer tube status indicator. 2,890,426, 6-9-59, Cl. 333—97.
- McElwee, Lorin A.: *See—*  
Elston, William A., McElwee, Moore, and Tomerlin. 2,896,332.
- McEntee, Harry R., to General Electric Co. Redistribution of organosilanes. 2,887,500, 5-19-59, Cl. 260—448.2.



- McEuen, Harry B. X-ray apparatus. 2,900,542, 8-18-59, Cl. 313-56.
- McEvoy Co.: *See*—  
Eichenberg, Robert. 2,893,435.  
Johnson, Charles F. 2,887,754.  
Rhodes, Allen F. 2,885,005.  
Zenor, Hughes M. 2,904,956.
- McEwen, Gerald F., and J. J. McGinley, to American Machine & Foundry Co. Slip stitching machine. 2,871,807, 2-3-59, Cl. 112-174.
- McEwen, Malcolm: *See*—  
Kosmin, Milton, and McEwen. 2,902,425.
- McEwen, Norman S., to The Uni-Mac Co., Div. of Helpy Selfy Service System, Inc. Spray device for washing machines. 2,915,890, 12-8-59, Cl. 68-148.
- McEwen, Robert L., C. W. Raleigh, and C. E. Price, to Food Machinery and Chemical Corp. Method of simultaneously bleaching and coating paper. 2,875,102, 2-24-59, Cl. 117-152.
- McEwen, Robert L., C. W. Raleigh, and C. E. Price, to Food Machinery and Chemical Corp. Method of brightening high density cellulose pulps with a reducing bleaching salt at high speeds. 2,912,297, 11-10-59, Cl. 8-104.
- McFadden, Norman F., to Hughes Aircraft Co. Coating removing method. 2,876,601, 3-10-59, Cl. 51-282.
- McFadden, Archie R.: *See*—  
Wright, Robert A., and McFadden. 2,870,405.
- McFadden, Charles A.: *See*—  
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- McFadyen, William F., and C. E. Buterbaugh, to National Distillers and Chemical Corp. Start up method for fused salt electrolytic cells. 2,913,381, 11-17-59, Cl. 204-68.
- McFarlan, Alden J. Air conditioning system and control. 2,885,867, 5-12-59, Cl. 62-176.
- McFarland, Bobby L., to Aerojet-General Corp. Pickling solution. 2,916,458, 12-8-59, Cl. 252-101.
- McFarland, Donald L., to General Electric Co. Combination electric cooking appliance. 2,898,437, 8-4-59, Cl. 219-35.
- McFarland, Edwin J.: *See*—  
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- McFarland, Forest R., and P. P. Thomas, to Studebaker-Packard Corp. Front wheel suspension assembly. 2,873,980, 2-17-59, Cl. 280-96.2.
- McFarland, Forest R., and C. J. Lucia, to Studebaker-Packard Corp. Governor control valve. 2,889,844, 6-9-59, Cl. 137-54.
- McFarland, Fred: *See*—  
Schnier, Robert F., and McFarland. 2,873,038.
- McFarland, James E.: *See*—  
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- McFarland, John A. Portable proof press. 2,901,971, 9-1-59, Cl. 101-269.
- McFarland, Rolland, Jr., to Hills-McCanna Co. Diaphragm assembly. 2,918,089, 12-22-59, Cl. 137-793.
- McFarland, William E. Starting control circuit for engine-generator plants. 2,916,634, 12-8-59, Cl. 290-30.
- McFarlane, Maynard D.: *See*—  
Webrii, Robert L., Crafts, and McFarlane. 2,915,077.
- McFarlane, Maynard D., and C. A. Crafts, to Robertshaw-Fulton Controls Co. Temperature control device. 2,897,331, 7-28-59, Cl. 219-20.
- McFarlane, Maynard D., and C. A. Crafts, to Robertshaw-Fulton Controls Co. Temperature control device. 2,897,332, 7-28-59, Cl. 219-20.
- McFarlane, Maynard D., and C. A. Crafts, to Robertshaw-Fulton Controls Co. Temperature control device. 2,897,333, 7-28-59, Cl. 219-20.
- McFarlane, Maynard D., and C. A. Crafts, to Robertshaw-Fulton Controls Co. Temperature control device. 2,897,334, 7-28-59, Cl. 219-20.
- McFarlane, Maynard D., and C. A. Crafts, to Robertshaw-Fulton Controls Co. Transformer coupled impedance matching circuits. 2,909,663, 10-20-59, Cl. 250-83.6.
- McFaul, Claude, Corp.: *See*—  
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- McFaul, Claude F., to Claude McFaul Corp. Combination matchbook and throw-away ashtray. 2,868,362, 1-13-59, Cl. 206-38.
- McGaffey, Edgar W. Pipe and pipe joint gauge. 2,874,475, 2-24-59, Cl. 33-98.
- McGaffey, Edgar W. Tool for removing foreign matter from a well bore. 2,874,781, 2-24-59, Cl. 166-167.
- McGahan, Joe W., to E. I. du Pont de Nemours and Co. Process and product to inhibit sugar inversion. 2,900,283, 8-18-59, Cl. 127-30.
- McGann, Leo E., Jr. Guards for electrical outlets. 2,892,172, 6-23-59, Cl. 339-36.
- McGarraghy, Andrew J., and R. Mace. Fish hook. 2,882,639, 4-21-59, Cl. 43-44.2.
- McGarrahan, Edward C., to Houston Oil Field Material Co., Inc. Hydrostatically balanced jar. 2,896,917, 7-28-59, Cl. 255-27.
- McGarry and Cole Ltd.: *See*—  
Holley, Walter H. 2,872,683.
- McGarvey, Harold J., to Speer Carbon Co. Mounting for electric circuit components and printed circuit unit. 2,903,627, 9-8-59, Cl. 317-101.
- McGarvey, John A., H. A. Schenck, and J. R. Adamick; said Schenck assor. to said Adamick. Making signatures, booklets, pamphlets, and the like. 2,914,318, 11-24-59, Cl. 270-32.
- McGary, Charles W.: *See*—  
Phillips, Benjamin, Frostick, McGary, and Patrick. 2,890,194.  
Phillips, Benjamin, Frostick, McGary, and Patrick. 2,890,210.  
Phillips, Benjamin, Frostick, McGary, and Patrick. 2,917,469.  
Phillips, Benjamin, McGary, and Patrick. 2,912,389.  
Phillips, Benjamin, McGary, and Patrick. 2,917,493.  
Phillips, Benjamin, McGary, and Patrick. 2,918,444.  
Phillips, Benjamin, Starcher, McGary, and Patrick. 2,884,408.  
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Phillips, Benjamin, Starcher, McGary, and Patrick. 2,918,439.
- McGaughy, James H., and R. W. Swank, to Gulf Oil Corp. Apparatus to dispense and price different liquids in selected proportions. 2,886,211, 5-12-59, Cl. 222-26.
- McGavock, Robert J. Safety attachments for steering wheels. 2,883,877, 4-28-59, Cl. 74-493.
- McGaw, Jack C.: *See*—  
Culpepper, William B., and McGaw. 2,889,627.
- McGay, John B. Method and apparatus for pumping wells. 2,877,712, 3-17-59, Cl. 103-75.
- McGay, John B. Bell piston pump. 2,918,874, 12-29-59, Cl. 103-46.
- McGean Chemical Co., The: *See*—  
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- McGeary, Robert K., and R. D. Leggett, to Westinghouse Electric Corp. Alloys and members produced therefrom. 2,888,343, 5-26-59, Cl. 75-122.7.
- McGeary, Robert K., and W. M. Justusson, to United States of America, Atomic Energy Commission. Heat treated U-N  $\beta$  alloys. 2,914,433, 11-24-59, Cl. 148-11.5.
- McGee, Harold E.: *See*—  
Swanson, Walter, Wiley, and McGee. 2,877,676.
- McGee, James D., to Electric & Musical Industries Ltd. Vehicles. 2,869,803, 1-20-59, Cl. 244-14.
- McGee, James D. Electron image multiplier apparatus. 2,872,721, 2-10-59, Cl. 29-25.14.
- McGee, James D., to National Research Development Corp. Electron discharge devices. 2,899,576, 8-11-59, Cl. 313-65.
- McGeogh, James E.: *See*—  
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Jensen, Garold K., and McGeogh. 2,908,868.
- McGeorge, Arthur, Jr., to E. I. du Pont de Nemours and Co. Process for filtration during melt spinning. 2,883,261, 4-21-59, Cl. 18-54.
- McGhee, Kenneth B., and N. J. Johnson, to Union Carbide Corp. Spin molding of carbonaceous mix. 2,892,218, 6-30-59, Cl. 18-58.3.
- McGihon, Leonard, to King Sales & Engineering Co. Straight line laser and method. 2,902,810, 9-8-59, Cl. 53-374.
- McGihon, Leonard, to King Sales & Engineering Co. Casing machine for cartons. 2,909,876, 10-27-59, Cl. 53-159.
- McGihon, Leonard, to King-O-Matic Equipment Corp. End carton filler. 2,914,899, 12-1-59, Cl. 53-160.
- McGihon, Leonard, to King-O-Matic Equipment Corp. Carton feed mechanism. 2,915,309, 12-1-59, Cl. 271-10.
- McGill, Eric F. G.: *See*—  
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- McGill, Lincoln A., and R. S. Moore, to Harbison-Walker Refractories Co. Patching block for furnace roof. 2,885,976, 5-12-59, Cl. 110-99.
- McGill, William C., to Union Carbide Corp. Apparatus for utilizing detonation waves. 2,869,924, 1-20-59, Cl. 299-28.6.
- McGillum, Clare D., to United States of America, Navy. Nutating antenna radar. 2,907,024, 9-29-59, Cl. 343-16.
- McGillum, Clare D., and R. E. Williams, to Industrial Research Associates, Inc. Signal detectors. 2,867,767, 1-6-59, Cl. 324-78.
- McGillis, Hugh D.: *See*—  
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- McGillis, John J. and H. D. Rotary oil burners. 2,893,480, 7-7-59, Cl. 158-77.
- McGilvray, Mariam: *See*—  
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- McGinley, James J.: *See*—  
McEwen, Gerald F., and McGinley. 2,871,807.
- McGinnis, Frank F. Vacuum operated device for catching insects. 2,879,620, 3-31-59, Cl. 43-113.
- McGinnis, Melvin O. Apparatus for controlling the operating temperature of a diesel motor fuel system fluid. 2,881,828, 4-14-59, Cl. 158-36.3.



- McGinnis, Ralph E., to Westinghouse Electric Corp. Elastic fluid utilizing apparatus. 2,918,255, 12-22-59, Cl. 253-77.
- McGinnis, William J.: *See*—  
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- McGinnis, William J., and G. H. Gloss, to International Minerals & Chemical Corp. Production of potassium bicarbonate. 2,903,337, 9-8-59, Cl. 23-33.
- McGinty, William K., to Thomas Industries Inc. Mounting bracket for a recessed ceiling fixture. 2,898,075, 8-4-59, Cl. 248-343.
- McGiveran, Stanley J., and J. G. Myers, to Emanem Laboratories, Inc. Vaginal syringe. 2,881,760, 4-14-59, Cl. 128-251.
- McGivney, Thomas F., to United States Borax & Chemical Corp. Loaders. 2,879,880, 3-31-59, Cl. 198-6.
- McGlamery, Roger M., to Phillips Petroleum Co. Heat-stress cracking resistance of thermoplastic filamentous articles. 2,867,848, 1-13-59, Cl. 18-47.5.
- McGlew, John J.: *See*—  
Benson, Ralph A., and Novotny. 2,892,181.
- McGlone, Roscoe H. Seat cushion. 2,900,012, 8-18-59, Cl. 155-182.
- McGlumphy, George F., to Westinghouse Air Brake Co. Electronic counter control. 2,874,330, 2-17-59, Cl. 315-84.5.
- McGlynn, James J., to Lukens Steel Co. Clad metal pack and method of making the same. 2,904,880, 9-22-59, Cl. 29-471.5.
- McGoldrick, Virginia, and E. G. McDonough. Bromate-urea oxidative fixing composition and process. 2,899,965, 8-18-59, Cl. 132-7.
- McGonagill, Patrick A. Axial impact type hand tool. 2,903,932, 9-15-59, Cl. 81-52.35.
- McGorder, John E., to Weber Shoe Co., Inc. Machine for shaping shoe uppers over lasts. 2,915,764, 12-8-59, Cl. 12-53.1.
- McGowan, Walter. Flushing device. 2,902,697, 9-8-59, Cl. 4-57.
- McGowan, George F. Dental flask. 2,899,707, 8-18-59, Cl. 18-33.
- McGowan, Kenneth G.: *See*—  
Winkel, Herbert C., McAlpine, and McGowan. 2,908,377.
- McGowan, Kenneth J. J., to Westinghouse Air Brake Co. Force reversing buffer mechanisms. 2,893,718, 7-7-59, Cl. 267-1.
- McGowan, Melvin E.: *See*—  
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- McGowan, Terrence D., to E. I. du Pont de Nemours and Co. Process for producing lower alkyl esters of 2-benzothiazole carboxylic acid. 2,919,278, 12-29-59, Cl. 260-305.
- McGowen, Harold E., Jr., to Camco, Inc. Gas lift valve. 2,892,415, 6-30-59, Cl. 103-232.
- McGowen, Harold E., Jr., to Camco, Inc. Gas lift valve damper. 2,914,078, 11-24-59, Cl. 137-155.
- McGowen, Harold E., Jr., and D. E. Daffin, to Camco, Inc. Running tool. 2,887,163, 5-19-59, Cl. 166-219.
- McGrand, John P. Collapsible portable hangar. 2,880,741, 4-7-59, Cl. 135-1.
- McGrane, James A. Twin multiple loop television antenna. 2,875,441, 2-24-59, Cl. 343-806.
- McGrane, Norman M., to Western Precipitation Corp. Multiple element cyclonic separator. 2,867,290, 1-6-59, Cl. 183-83.
- McGrath, Earle J., to Food Machinery and Chemical Corp. Article control mechanism for conveyors. 2,901,083, 8-25-59, Cl. 198-21.
- McGrath, Henry G., to The M. W. Kellogg Co. Starting-up procedure for the hydrogenation of carbon monoxide. 2,904,576, 9-15-59, Cl. 260-449.6.
- McGrath, Henry G., and J. A. Knaus, to The M. W. Kellogg Co. Fluidized desulfurization of hydrocarbon oils with sulfur containing catalyst. 2,894,903, 7-14-59, Cl. 208-216.
- McGrath, John F., to Baldwin-Lima-Hamilton Corp. Angular position transducers. 2,913,690, 11-17-59, Cl. 338-2.
- McGrath, John F., Jr.: *See*—  
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- McGrath, John H.: *See*—  
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- McGrath, Joseph J.: *See*—  
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- McGrath, Lloyd N., and J. G. Tomlan. Bracket for a lamp holder. 2,888,227, 5-26-59, Cl. 248-279.
- McGrath, William L., to Carrier Corp. Valve structure. 2,889,690, 6-9-59, Cl. 62-160.
- McGrath, William L., to Carrier Corp. Variable speed drive. 2,911,838, 11-10-59, Cl. 74-190.5.
- McGrath, William L., to Carrier Corp. Heating and cooling apparatus. 2,912,833, 11-17-59, Cl. 62-229.
- McGrath, William L., to Carrier Corp. Refrigeration system. 2,916,894, 12-15-59, Cl. 62-196.
- McGrath, William L., and F. D. Stevens, to Carrier Corp. Self-contained air conditioning unit installations. 2,889,764, 6-9-59, Cl. 98-94.
- McGrath, William L., and F. D. Stevens, to Carrier Corp. Self-contained air conditioning units of the room cooler type. 2,917,905, 12-22-59, Cl. 62-183.
- McGraw, Clarence T., and W. J. Cain, to The Circu-Air Corp. Hose washer. 2,909,794, 10-27-59, Cl. 15-40.
- McGraw-Edison Co.: *See*—  
Barengoltz, Bernard A. 2,886,791.  
Bertling, Ronald J. 2,913,203.  
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Bronikowski, Raymond J. 2,901,684.  
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Bussmann, Frank H. 2,880,291.  
Bussmann, Frank H. 2,910,562.  
Collier, Donald W. 2,906,586.  
Conlee, George D. 2,871,871.  
Conlee, George D. 2,886,154.  
Conlee, George D. 2,910,161.  
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Cunningham, Francis V. 2,891,193.  
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Date, Kazuo H. 2,891,121.  
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Depken, Andrew F. 2,890,750.  
Dinsmore, Thomas L., and Thorp. 2,889,191.  
Dryer, Henry V. 2,899,587.  
Earle, Ralph H. 2,905,789.  
Fjellstedt, Thorsten A. 2,878,331.  
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Fox, Arnold M., and Horelick. 2,898,565.  
Frey, Raymond M. 2,868,746.  
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Froland, Olav. 2,891,122.  
Gomersall, John K. 2,869,961.  
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Harling, Donald W. 2,869,909.  
Harling, Donald W. 2,875,323.  
Harling, Donald W. 2,886,699.  
Harling, Donald W. 2,907,544.  
Harry, William R. 2,898,658.  
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Heinzen, Ruth W. 2,907,543.  
Ireland, Murray. 2,895,404.  
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Johnson, Graham H. 2,881,346.  
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Jung, Herbert G. 2,899,574.  
Klein, Andrew J. 2,868,085.  
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Koepke, John F., Zimsky, and Mocker. 2,904,616.  
Kummer, Keith F. 2,903,214.  
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Lehman, Eugene J. 2,880,462.  
McAllister, Craig L. 2,913,555.  
McCloud, George R. 2,884,500.  
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McStrack, Darrel D., and Burrage. 2,891,194.  
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Moulton, Joseph D. 2,870,234.  
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Norton, Ralph S. 2,880,391.  
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Salton, Harry D. 2,917,701.  
Schauffler, David J. 2,886,780.  
Skubal, John J. 2,880,828.  
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Steinmayer, Alwin G., and Jones. Re. 24,696.  
Stoelting, Herman O. 2,878,422.  
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Strozier, Henry H. 2,887,647.  
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Thiele, Berthold R. 2,867,104.  
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Van Ryan, Anthony. 2,886,673.  
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Yaeger, Joseph C. 2,910,623.  
Zwelling, Martin I. 2,896,181.
- McGraw, George P., Jr., to Western Electric Co., Inc. Winding arbor. 2,916,226, 12-8-59, Cl. 242-68.5.
- McGraw, Roger J., and G. A. Gates, to The Babcock & Wilcox Co. Fuel burner valve and safety coupling. 2,919,145, 12-29-59, Cl. 284-16.
- McGregor, Duncan B.: *See*—  
Liston, John W., and McGregor. 2,895,012.
- McGrew, Thomas A., to General Electric Co. Defrost evaporator structure. 2,889,692, 6-9-59, Cl. 62-276.
- McGrogan, John F., to The Atlantic Refining Co. Open gear lubricants. 2,870,089, 1-20-59, Cl. 252-22.



- McGuff, Thomas J., to United Aircraft Corp. Water separator de-icing control. 2,867,989, 1-13-59, Cl. 62—150.
- McGuffey, James W.: *See—*  
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- McGuffey, James W., to Tranter Mfg., Inc. Condenser cooling in mobile refrigeration unit. 2,867,992, 1-13-59, Cl. 62—241.
- McGuffey, Orton S., to Tranter Mfg., Inc. Plate heat exchange unit. 2,900,175, 8-18-59, Cl. 257—256.
- McGuffey, Orton S. and J. W., to Tranter Mfg., Inc. Truck refrigeration system. 2,880,595, 4-7-59, Cl. 62—242.
- McGuigan, John H., to Bell Telephone Laboratories, Inc. Toggle circuit. 2,917,625, 12-15-59, Cl. 250—27.
- McGuinness, Walter L. Traction antiskid devices. 2,918,960, 12-29-59, Cl. 152—233.
- McGuire, Arthur M.: *See—*  
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- McGuire, Clarence V., deceased; F. Scott, administratrix. Mold and process of making the same. 2,884,662, 5-5-59, Cl. 18—42.
- McGuire, George. Safety swimming pool cover. 2,898,607, 8-11-59, Cl. 4—172.
- McGuire, Joseph C., to United States of America, Atomic Energy Commission. Method for soldering normally non-solderable articles. 2,914,425, 11-24-59, Cl. 117—111.
- McGuire, Lee R. Rotary, earth trepanning tools. 2,893,696, 7-7-59, Cl. 255—72.
- McGuire, Marvin B. Surgical instrument storage rack. 2,906,410, 9-29-59, Cl. 211—59.
- McGuire, Robert E.: *See—*  
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- McGuire, Robert T.: *See—*  
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- King, Robert J. 2,875,313.
- McGuire, Roy L. Collapsible fire escape ladder. 2,887,261, 5-19-59, Cl. 228—40.
- McGurty, James A., and E. S. Funston, to United States of America, Atomic Energy Commission. Nickel-chromium-germanium alloys for stainless steel brazing. 2,901,347, 8-25-59, Cl. 75—171.
- McHale, David: *See—*  
Mamalis, Patrick, McHale, and Stevens. 2,908,713.
- McHard, James A.: *See—*  
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- McHenry, Thomas F., and J. J. Grabinski, to Electric Regulator Corp. Electric generator regulating system. 2,900,593, 8-18-59, Cl. 322—24.
- McHugh, Charles J., Jr., to The Lodge & Shipley Co. Lifting cup for article transferring apparatus. 2,873,996, 2-17-59, Cl. 294—64.
- McIlhenny, Alan: *See—*  
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- Puddington, Ira E., McIlhenny, and Lorenzo. 2,883,059.
- McIlhenny, William F., A. B. Baker, J. A. Clarke, and W. C. Bauman, to The Dow Chemical Co. Treatment of solutions comprising similarly charged monovalent and polyvalent ions to concentrate the polyvalent ions. 2,897,051, 7-28-59, Cl. 23—91.
- McIlrath, Clifford E. Condiment containers. 2,870,942, 1-27-59, Cl. 222—78.
- McIlvaine, Oran T. Automatic headlight dimming apparatus. 2,884,564, 4-28-59, Cl. 315—83.
- McIlvaine, Oran T. Electrostatic shields. 2,889,484, 6-2-59, Cl. 313—313.
- McIlvaine, Oran T. Photocells. 2,899,659, 8-11-59, Cl. 338—17.
- McIlvaine, Oran T. Fuel burner. 2,907,382, 10-6-59, Cl. 158—4.
- McIlvaine, Oran T. Headlight dimmer circuit. 2,907,920, 10-6-59, Cl. 315—83.
- McIlvaine, Oran T. Electronic tube regeneration. 2,915,663, 12-1-59, Cl. 313—94.
- McIlvaine, Robert L., to Herbert Simpson Corp. Inlet shield for filter. 2,916,267, 12-8-59, Cl. 261—16.
- McIlwain, Knox, to Hazeltine Research, Inc. Simultaneous searching and tracking system. Re. 24,720, 10-13-59, Cl. 343—171.
- McIlwaine, Warnock M. Awning frame structure. 2,889,840, 6-9-59, Cl. 135—71.
- McIlwraith, Charles G.: *See—*  
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- McIlwraith, John W.: *See—*  
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- McInerney, John A., to United States of America, Atomic Energy Commission. Shaft seal. 2,886,353, 5-12-59, Cl. 286—36.
- McInnes, William G. Cooling fan assembly for auto engines and the like. 2,879,040, 3-24-59, Cl. 257—126.
- McInness, Walter D. Pneumatic return systems. 2,879,109, 3-24-59, Cl. 302—22.
- McIntire, John W., and K. G. Francis, to The Dow Chemical Co. Apparatus for preventing bag and sag in oriented plastic film. 2,910,961, 11-3-59, Cl. 118—308.
- McIntire, Robert L., to Phillips Petroleum Co. Separation and recovery of acetylene. 2,886,612, 5-12-59, Cl. 260—679.
- McIntire, Robert L., to Phillips Petroleum Co. Pebble heater apparatus. 2,905,538, 9-22-59, Cl. 23—284.
- McIntosh, A. Vern, Jr.: *See—*  
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- McIntosh, Donald J., and R. W. Crane, to McIntosh Stamping Corp. Rack structure. 2,896,799, 7-28-59, Cl. 214—10.5.
- McIntosh, Harold A., B. D. Mouron, J. Stell, and A. M. Herzig. Decelerator brake for motor vehicles. 2,870,885, 1-27-59, Cl. 192—3.
- McIntosh, Ian A. Parallel rule. 2,893,127, 7-7-59, Cl. 33—109.
- McIntosh Laboratory, Inc.: *See—*  
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- McIntosh, Robert B., and D. E. St. John, to Arnoux Corp. Low level signal commutator. 2,907,902, 10-6-59, Cl. 307—149.
- McIntosh Stamping Corp.: *See—*  
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- McIntosh, Virgil G.: *See—*  
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- McIntosh, William H. Article holder. 2,876,513, 3-10-59, Cl. 24—3.
- McIntyre, Brouwer D., to Monroe Auto Equipment Co. Vehicle suspension system. 2,902,274, 9-1-59, Cl. 267—8.
- McIntyre, Brouwer D. and W. D., to Monroe Auto Equipment Co. Vehicle suspension system. 2,874,955, 2-24-59, Cl. 267—8.
- McIntyre, Daniel: *See—*  
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- Neff, Paul J., Christy, Marsh, and McIntyre. 2,886,144.
- McIntyre, Glenn H., Jr.: *See—*  
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- Sprouse, Norman T., and McIntyre. 2,901,322.
- McIntyre, James H., to Imperial Chemical Industries Ltd. Oxidation of organic substances. 2,907,792, 10-6-59, Cl. 260—523.
- McIntyre, Sidney S., Sr., to The Humboldt Co. Swivel jib for mobilized log yarders and the like. 2,883,068, 4-21-59, Cl. 212—70.
- McIntyre, Sidney S., Sr., to The Humboldt Co. Log yarding and loading apparatus. 2,900,089, 8-18-59, Cl. 212—59.
- McIntyre, Thomas F., Jr. Clarinet key arrangement. 2,887,001, 5-19-59, Cl. 84—382.
- McIntyre, William D.: *See—*  
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- McIver, Alice C. Teaching apparatus. 2,900,741, 8-25-59, Cl. 35—35.
- McKain, Paul B.: *See—*  
Paine, Karl A., Jr., and McKain. 2,913,200.
- McKain, Walter P., to Fada Radio & Electric Co., Inc. Tool dressing machine. 2,883,887, 4-28-59, Cl. 76—5.
- McKann, Henry S. Sheet metal chimneys. 2,898,839, 8-11-59, Cl. 98—48.
- McKay, Alexander S., to The Texas Co. Method of analyzing compositions. 2,873,377, 2-10-59, Cl. 250—43.5.
- McKay, Alexander S., to Texaco Inc. Measurement of viscosity. 2,908,817, 10-13-59, Cl. 250—43.5.
- McKay, Alexander S., and E. F. Egan, to The Texas Co. Method of treating subsurface formations. 2,869,642, 1-20-59, Cl. 166—4.
- McKay, Arthur F.: *See—*  
Whittingham, David J., and McKay. 2,881,169.
- McKay, Arthur F., and D. L. Garmaise, to Monsanto Canada Ltd. Cyano substituted aliphatic isothiocyanates. 2,886,584, 5-12-59, Cl. 260—454.
- McKay, David J., Jr., and E. N. Kimmel, to Central States Paper & Bag Co. Self-contouring bags. 2,915,098, 12-1-59, Cl. 150—5.
- McKay, Dwight L.: *See—*  
Eddy, William R., and McKay. 2,890,962.
- McKay, Dwight L., to Phillips Petroleum Co. Crystall purification apparatus and process. 2,882,133, 4-14-59, Cl. 23—295.
- McKay, Edwin L., to R. and K. Ferwerda. Building block and beam and wall structures of same. 2,887,869, 5-26-59, Cl. 72—42.
- McKay, Frank E., to Farrington Mfg. Co. Combination display package and container. 2,916,140, 12-8-59, Cl. 206—45.13.
- McKay, Harry M., 1/2 to W. J. Binkley. Trailer with shiftable rear truck for load equalizing. 2,918,301, 12-22-59, Cl. 280—81.
- McKay, Herbert C.: *See—*  
McKay, Herbert C. 2,886,475.
- McKay, Herbert C., to W. D. Foster and H. C. McKay, as trustees. Method of producing an electrical device. 2,886,475, 5-12-59, Cl. 117—212.
- McKay, James G. Printing device. 2,887,047, 5-19-59, Cl. 101—329.
- McKay, James G. Inking device. 2,890,654, 6-16-59, Cl. 101—367.
- McKay, John F.: *See—*  
Nelson, Joseph F., and McKay. 2,876,256.
- McKay, John F., to Esso Research and Engineering Co. Emulsion coating composition containing synthetic drying oil and process of making it. 2,873,199, 2-10-59, Cl. 106—158.
- McKay, John F., to Esso Research and Engineering Co. Can coating varnishes containing manganese soap drier and steam cracked distillate resins. 2,880,188, 3-31-59, Cl. 260—23.7.
- McKay, Kenneth G., to Bell Telephone Laboratories, Inc. Negative resistance semiconductive apparatus. 2,908,871, 10-13-59, Cl. 331—108.
- McKay Machine Co., The: *See—*  
Bandy, Kenneth L., and Davidson. 2,900,143.



- McKay, Michael W.: *See*—  
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- McKay, Thomas L., H. L. Oliver, and R. J. Starriett, to Long-Lok Corp. Self-locking screw threaded fastener member having an elongated resilient insert. 2,913,031, 11-17-59, Cl. 151-7.
- McKay, William F. Auxiliary gear shift lever for outboard motors. 2,915,915, 12-8-59, Cl. 74-480.
- McKays Co., The: *See*—  
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- McKeague, Edward D.: *See*—  
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- McKean, Boyd A., to Titan Tool Co. Bushing or insert driver. 2,915,930, 12-8-59, Cl. 81-53.
- McKean, Joseph T.: *See*—  
Gardner, Willis W., and McKean. 2,895,750.
- McKechnie, Ian C., to Elox Corp. of Michigan. Electro-hydraulic power feed. 2,882,437, 4-14-59, Cl. 314-61.
- McKechnie, Ian C., to Elox Corp. of Michigan. Method and apparatus for automatic electric discharge machining. 2,901,588, 8-25-59, Cl. 219-69.
- McKechnie, Ian C., to Elox Corp. of Michigan. High frequency vibration. 2,903,556, 9-8-59, Cl. 219-69.
- McKee, Arthur G., & Co.: *See*—  
Werner, Tage. 2,876,914.
- McKee, Chester W. and R. W., to Teleweld, Inc. Method and apparatus for distinguishing harmless surface flaws from dangerous fissures in magnetizable bodies. 2,869,073, 1-13-59, Cl. 324-37.
- McKee, Dale W.: *See*—  
Loomis, Jack E., and McKee. 2,902,247.
- McKee, George K. Trolley wire slide, collector or shoe. 2,868,900, 1-13-59, Cl. 191-57.
- McKee, Harold. Decoy. 2,893,154, 7-7-59, Cl. 43-3.
- McKee, John R., Jr. Composite washer for fasteners. 2,884,100, 4-28-59, Cl. 189-36.
- McKee, Lester: *See*—  
Harrison, Richard I., and McKee. 2,869,082.
- McKee, Richard W.: *See*—  
McKee, Chester W. and R. W. 2,869,073.
- McKee, Velda. Garment. 2,896,633, 7-28-59, Cl. 128-526.
- McKee, William H., to United-Carr Fastener Corp. Right-angle printed wire connector. 2,894,241, 7-7-59, Cl. 339-17.
- McKee, William H., to United-Carr Fastener Corp. Captivated tube shield. 2,911,458, 11-3-59, Cl. 174-35.
- McKeever, Charles H.: *See*—  
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- McKeever, Charles H., to Rohm & Haas Co. Preparation of alkyl  $\alpha$ -cyanoacrylates. 2,912,454, 11-10-59, Cl. 260-465.4.
- McKeever, Charles H., and L. R. Freimiller, to Rohm & Haas Co. Alkyl methylenephénylvalerate. 2,868,831, 1-13-59, Cl. 260-476.
- McKeever, Charles H., and J. W. Nemec, to Rohm & Haas Co. Process for preparing 1,1-dichloro-2,2-diarylethanes. 2,917,553, 12-15-59, Cl. 260-649.
- McKellar, Malcolm R., to General Motors Corp. Bearing cap to frame to oil pan seal. 2,914,038, 11-24-59, Cl. 121-194.
- McKelvey, Harold E., and D. H. Doehliert, to Pittsburgh Plate Glass Co. Bending glass. 2,901,866, 9-1-59, Cl. 49-84.
- McKemie, Robert E. Combined safety device and container for goggles and other protective shields. 2,911,490, 11-3-59, Cl. 200-61.58.
- McKenna, Donald T.: *See*—  
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- McKenna, John F.: *See*—  
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- McKenna, Quentin H.: *See*—  
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- Stern, David R., and McKenna. 2,892,762.
- Stern, David R., and McKenna. 2,892,763.
- McKenney, Henry F.: *See*—  
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- Zabb, Norman J., McKenney, and Newell. 2,873,068.
- Zabb, Norman J., Newell, McKenney, and Weber. 2,913,720.
- McKenney, Henry F., and W. T. Keating, to Sperry Rand Corp., Ford Instrument Co. Division. High gain magnetic amplifier. 2,878,327, 3-17-59, Cl. 179-171.
- McKenney, Henry F., to Sperry Rand Corp., Ford Instrument Co. Division. Electrical multiplier. 2,873,066, 2-10-59, Cl. 235-185.
- McKenney, Henry F., to Sperry Rand Corp., Ford Instrument Co. Division. Magnetic-carbon pile controller. 2,878,442, 3-17-59, Cl. 323-75.
- McKenney, Henry F., and R. W. Unold, to The Sperry Rand Corp., Ford Instrument Co. Division. Thyatron regulator. 2,892,969, 6-30-59, Cl. 315-198.
- McKenney, Henry F., V. H. Seliger, and R. W. Unold, to Sperry Rand Corp., Ford Instrument Co. Division. Stabilized servosystem. 2,913,649, 11-17-59, Cl. 318-32.
- McKenney, Henry F., and A. A. Vercesi, to Sperry Rand Corp. Frequency corrector system (time motor). 2,918,618, 12-22-59, Cl. 322-32.
- McKenney, Leo F.: *See*—  
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- McKenzie, Albert E. Seed display stands with tiered shelves. 2,883,064, 4-21-59, Cl. 211-85.
- McKenzie, G. Stuart. Projector for time indications. 2,875,668, 3-3-59, Cl. 88-24.
- McKenzie, Kenneth R., to United States of America, Atomic Energy Commission. Slit adjustment clamp. 2,894,138, 7-7-59, Cl. 250-49.5.
- McKenzie, Wilfred M., to Hughes Tool Co. Type-holder. 2,910,938, 11-3-59, Cl. 101-377.
- McKenzie, William W., to Canadair Ltd. Anti-skid brake mechanism. 2,903,101, 9-8-59, Cl. 188-181.
- McKeown, Charles T. Infant's chair. 2,875,817, 3-3-59, Cl. 155-131.
- McKerns, Kenneth W., to Canada Packers, Ltd. Preparation and purification of corticotrophin (ACTH). 2,906,667, 9-29-59, Cl. 167-74.
- McKiernan, James D., to United States of America, Navy. Container structure for separate storage of liquid rocket propellants. 2,902,822, 9-8-59, Cl. 60-35.6.
- McKiernan-Terry Corp.: *See*—  
Frederick, Leonard L. 2,882,690.
- Kupka, John J. 2,879,864.
- Kupka, John J. 2,904,964.
- McKim, Burton, to Bell Telephone Laboratories, Inc. Magnetic core circuit. 2,910,676, 10-27-59, Cl. 340-174.
- McKim, Burton, to Bell Telephone Laboratories, Inc. Transistor using diodes and transformers. 2,912,511, 11-10-59, Cl. 179-18.
- McKim, Burton, and R. J. Stapleton, to Bell Telephone Laboratories, Inc. Telephone circuit using magnetic cores. 2,904,636, 9-15-59, Cl. 179-18.
- McKim, Frank S.: *See*—  
Buck, Thomas M., and McKim. 2,916,407.
- McKim, Guy V. Wheel locking devices for four wheel drive vehicles. 2,883,025, 4-21-59, Cl. 192-67.
- McKinlay, William, to The Danielson Mfg. Co. Cable connector or clamp. 2,903,772, 9-15-59, Cl. 24-129.
- McKinley, Fred E. Water injection apparatus. 2,879,753, 3-31-59, Cl. 123-25.
- McKinley, George H., and R. H. Whitehead, to Scott & Williams, Inc. Throat plate. 2,896,434, 7-28-59, Cl. 66-125.
- McKinley, John K.: *See*—  
Ballard, Wiley P., Dickens, McKinley, and Smith. 2,888,393.
- McKinley, John K., R. F. Nelson, and G. S. Bright, to The Texas Co. Ester-type wax oxidate of macrocrystalline wax and process for producing same. 2,894,970, 7-14-59, Cl. 260-451.
- McKinley, Joseph B.: *See*—  
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- McKinley, Joseph B., and A. M. Henke, to Gulf Research & Development Co. Fluid catalytic hydrocracking of high boiling hydrocarbon oils in several stages. 2,905,618, 9-22-59, Cl. 208-59.
- McKinley, Raymond E., and S. J. Michael. Animal hoist. 2,909,153, 10-20-59, Cl. 119-100.
- McKinley, Theodore: *See*—  
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- McKinley, William H., to The General Fireproofing Co. Chair base. 2,913,208, 11-17-59, Cl. 248-194.
- McKinney, Cecil A., to General Motors Corp. Heat exchanger means. 2,898,896, 8-11-59, Cl. 123-41.33.
- McKinney, James W.: *See*—  
Dorland, Rodger M., and McKinney. 2,906,659.
- McKinney, Leonard L., F. B. Weakley, and A. C. Eldridge, to United States of America, Agriculture. S-(1,2-dichlorovinyl)-cysteine and method for its preparation. 2,890,246, 6-9-59, Cl. 260-534.
- McKinney Mfg. Co.: *See*—  
Hollansworth, McFerrell. 2,882,962.
- Hollansworth, McFerrell. 2,893,050.
- Hollansworth, McFerrell. 2,908,471.
- McKinney, Paul V., to Armstrong Cork Co. Soil-resistant resilient tile and method of making the same. 2,881,095, 4-7-59, Cl. 117-118.
- McKinney, Paul V., to Armstrong Cork Co. Foam detection and control. 2,883,344, 4-21-59, Cl. 252-321.
- McKinnie, Roston C. Combination step and extension ladder. 2,887,260, 5-19-59, Cl. 228-26.
- McKinnis, Art C., to Collier Carbon and Chemical Corp. Preparation of nitro-tert-butyl alcohol and nitroisobutene. 2,886,602, 5-12-59, Cl. 260-632.
- McKinnis, Art C., to Union Oil Co. of California. Preparation of cycloalkyl aluminum compounds. 2,906,763, 9-29-59, Cl. 260-448.
- McKinnis, Art C., and D. A. Skinner, to Union Oil Co. of California. Method for conducting exothermic vapor-phase reactions. 2,885,447, 5-5-59, Cl. 260-644.
- McKinsey, Charles R.: *See*—  
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- McKnight, Douglas. Pile coping. 2,895,302, 7-21-59, Cl. 61-49.
- McKnight, J. M., and Sons: *See*—  
McKnight, John L. 2,875,920.
- McKnight, James T., to Bernite Powder Co. Delayed firing cartridge. 2,869,463, 1-20-59, Cl. 102-39.
- McKnight, John L., to J. M. McKnight and Sons. Tobacco basket reinforcing means. 2,875,920, 3-3-59, Cl. 220-83.
- McKnight, Robert J., and E. W. Swezey, to The Rapids-Standard Co., Inc. Conveyors. 2,895,593, 7-21-59, Cl. 198-160.
- McKnight, William H.: *See*—  
Brown, Kenneth L., and McKnight. 2,891,876.
- Quarles, Richard W., and McKnight. 2,914,498.



- McKone, Elissa D. Cleansing cream dispenser. 2,900,113, 8-18-59, Cl. 222-215.
- McKone, Peter J., Jr.: *See*—  
Nuessle, Albert C., and McKone. 2,899,263.
- McLain, Alberton L., to United States of America, Interior. Apparatus for controlling the upstream movement of fish. 2,913,846, 11-24-59, Cl. 43-17.1.
- McLain, Earl A., to The Dow Chemical Co. Baffle system for continuous flow settling tanks. 2,879,895, 3-31-59, Cl. 210-521.
- McLain, George H. Annunciator system for hospitals. 2,910,680, 10-27-59, Cl. 340-311.
- McLain, William R., to Kusan Inc. Toy electric train. 2,884-868, 5-5-59, Cl. 104-148.
- McLain, William R., and G. W. Lescher, to Kusan Inc. Toy railway train. 2,903,817, 9-15-59, Cl. 46-44.
- McLamore, William M.: *See*—  
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- McLanahan & Stone Corp.: *See*—  
Fye, Ronald L. 2,899,806.  
Fye, Ronald L. 2,900,177.  
Fye, Ronald L. 2,905,396.
- McLane, Fletcher E., to Westinghouse Electric Corp. Electric drive. 2,888,621, 5-26-59, Cl. 318-145.
- McLane, James H., to McLane Tool and Die Co. Lawn trimming and edging apparatus. 2,909,021, 10-20-59, Cl. 56-25.4.
- McLane, Philip W., and J. C. Dugan, to Fletcher Aviation Corp. Tank construction. 2,876,923, 3-10-59, Cl. 220-5.
- McLane, Robert W. Drill guide and stop. 2,890,607, 6-16-59, Cl. 77-62.
- McLane Tool and Die Co.: *See*—  
McLane, James H. 2,909,021.
- McLaren, Donald M., to The Babcock & Wilcox Co. Particle-form solid material supply apparatus. 2,897,006, 7-28-59, Cl. 302-36.
- McLaren, Edward W.: *See*—  
Heslin, Lawrence J., and McLaren. 2,909,374.
- McLaren, George W., Jr.: *See*—  
Blackford, Benjamin B., and McLaren. 2,876,893.
- McLaren, Harry K., to Cal-Tronics Corp. Tool for applying heat sealable cable bands. 2,881,577, 4-14-59, Cl. 53-198.
- McLarty, Frank W. Earth moving equipment. 2,875,838, 3-3-59, Cl. 172-67.
- McLaughlin, Asa L.: *See*—  
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- McLaughlin, Donald J., and R. E. Gorozdos, to United States of America, Navy. Telescriber system. 2,900,446, 8-18-59, Cl. 178-18.
- McLaughlin, Francis M., to The Firestone Tire & Rubber Co. Bead measuring device. 2,879,605, 3-31-59, Cl. 33-178.
- McLaughlin, George H., and H. A. Harvey, to The McPhar Engineering Co. of Canada Ltd. Apparatus for electromagnetic induction surveying. 2,919,396, 12-29-59, Cl. 324-5.
- McLaughlin, James F.: *See*—  
Anderson, Charles C., Eder, Zimmerman, Heath, and McLaughlin. 2,898,442.
- McLaughlin, John E., and G. H. Allgeyer, to Owens-Illinois Glass Co. Apparatus for guiding mold charges of glass into molds. 2,913,852, 11-24-59, Cl. 49-14.
- McLaughlin, John F., to United States of America, Navy. Antenna feed selector system. 2,919,440, 12-29-59, Cl. 343-100.
- McLaughlin, Paul J., and W. W. Toy, to Rohm & Haas Co. Coated paper products and methods for making them. 2,874,066, 2-17-59, Cl. 117-65.
- McLaughlin, Robert, to Kollsman Instrument Corp. One-way temperature compensation for pressure measuring instruments. 2,894,392, 7-14-59, Cl. 73-393.
- McLaughlin, Robert W.: *See*—  
Young, Donald M., Hostettler, and McLaughlin. 2,878,236.
- McLaughlin, Walter T. Floating reamer or tap holder. 2,867,440, 1-6-59, Cl. 279-16.
- McLean, Daniel C., to United States of America, Atomic Energy Commission. Elution of uranium from resin. 2,877,089, 3-10-59, Cl. 23-14.5.
- McLean, Donald: *See*—  
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- McLean, Douglas K. Food package. 2,879,367, 3-24-59, Cl. 219-19.
- McLean, Edward S.: *See*—  
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Fraser, James, and McLean. 2,910,009.
- McLean, Edward S., to Speakman Co. Shower head. 2,888,210, 5-26-59, Cl. 239-439.
- McLean, Edward S., and J. Fraser, to Speakman Co. Fluid flow control device. 2,914,084, 11-24-59, Cl. 137-504.
- McLean, George A., to Purolator Products, Inc. Apparatus for making a filter element. 2,892,919, 6-30-59, Cl. 219-78.
- McLean, James, to Garden City Plating & Mfg. Co. Bracket mounting. 2,909,353, 10-20-59, Cl. 248-243.
- McLean, John A., Jr., to Westinghouse Electric Corp. Refrigeration apparatus. 2,877,631, 3-17-59, Cl. 62-526.
- McLean, Lawrence W.: *See*—  
Ernst, John L., Small, and McLean. 2,893,981.
- McLean, Lawrence W., and L. C. Kenyon, Jr., to Esso Research and Engineering Co. Separation and purification of cyclodienes. 2,867,670, 1-6-59, Cl. 260-666.
- McLean, Murray G., to Jabsco Pump Co. Shaft seal with replaceable sleeve. 2,881,710, 4-14-59, Cl. 103-202.
- McLean, Robert E., to J. C. Hockery. Single action can openers. 2,879,590, 3-31-59, Cl. 30-15.5.
- McLean, Robert F.: *See*—  
Ingolia, Anthony J., and McLean. 2,876,037.
- McLean, Robert F., and E. G. Podolan, to General Motors Corp. Power operated luggage compartment for motor vehicles. 2,890,908, 6-16-59, Cl. 296-37.
- McLean, Stuart D.: *See*—  
Shipley, Calvin W., and McLean. 2,894,342.
- McLean, William B.: *See*—  
Rabinow, Jacob, and McLean. 2,911,573.
- McLean, William B., to United States of America, Navy. Inertia arming switch. 2,872,538, 2-3-59, Cl. 200-61.45.
- McLean, William B., to American Machine & Foundry Co. Breathing apparatus. 2,882,897, 4-21-59, Cl. 128-142.
- McLean, William M., to Dow Corning Corp. Electrical conductors coated with titanate-modified alkyd resins. 2,917,414, 12-15-59, Cl. 117-221.
- McLellan, Kenneth M., to Industrial Rayon Corp. Composition for and method of pigmenting viscose. 2,875,077, 2-24-59, Cl. 106-165.
- McLellan, William N., to Sinton & Brown Co. Process for recovery and dehydration of sugar beet tops. 2,892,717, 6-30-59, Cl. 99-8.
- McLelland, Howard B., Jr.: *See*—  
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- McLennan, Logan S. Core apparatus for molding articles of plastic material. 2,882,582, 4-21-59, Cl. 25-126.
- McLennan, William L.: *See*—  
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- McLennan, William S., Sr. Tool holder. 2,914,098, 11-24-59, Cl. 142-56.
- McLeod, Duncan T., to C. W. White. Compression hand truck. 2,893,579, 7-7-59, Cl. 214-379.
- McLeod, Henry G., to E. I. du Pont de Nemours and Co. Process for conditioning copper plating solution. 2,913,376, 11-17-59, Cl. 204-52.
- McLeod, Henry G., and D. A. Swalheim, to E. I. du Pont de Nemours and Co. Copper plating. 2,885,331, 5-5-59, Cl. 204-52.
- McLeod, Norman F.: *See*—  
Kimble, Harvey S., and McLeod. 2,897,184.
- McLouth, Bruce F.: *See*—  
Peterson, Russell M., Spencer, Peterson, and McLouth. 2,880,682.
- McLucas, John L., to Haller, Raymond and Brown, Inc. Radar-relay system. 2,883,658, 4-21-59, Cl. 343-11.
- McLucas, John L., to Haller, Raymond and Brown, Inc. Oscillograph recorder. 2,898,401, 8-4-59, Cl. 178-6.6.
- McMackin, John: *See*—  
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- McMahan, Durward B., to Welx, Inc. Side wall fluid sampler. 2,904,113, 9-15-59, Cl. 166-100.
- McMahan, Gladys R. Spoon rest. 2,919,086, 12-29-59, Cl. 248-37.6.
- McMahan, Kenton D. Tire truing machines. 2,868,291, 1-13-59, Cl. 164-61.
- McMahan, Kenton D. Multi-stage centrifugal blowers, compressors and the like. 2,868,440, 1-13-59, Cl. 230-130.
- McMahan, Roy F., Sr. Clamp for supporting casings and the like. 2,881,997, 4-14-59, Cl. 248-56.
- McMahan, Roy F., Sr. Swivel. 2,898,163, 8-4-59, Cl. 308-227.
- McMahan, Roy F., Sr. Swivel. 2,914,793, 12-1-59, Cl. 16-161.
- McMahon, Howard O., and W. E. Gifford, to Arthur D. Little, Inc. Fluid expansion refrigeration method and apparatus. 2,906,101, 9-29-59, Cl. 62-6.
- McMahon, John E.: *See*—  
Jex, Victor B., and McMahon. 2,906,764.  
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- McMahon, Thomas J., to Milton Bradley Co. Educational wheel device for teaching spelling. 2,907,123, 10-6-59, Cl. 35-35.
- McMahon, William, to Bell Telephone Laboratories, Inc. Conductor having transpositions. 2,872,501, 2-3-59, Cl. 174-34.
- McMahon, William, to Bell Telephone Laboratories, Inc. Electrical circuit elements comprising organic dielectric material. 2,886,749, 5-12-59, Cl. 317-258.
- McMahon, William F. Oil well sand pumps. 2,915,987, 12-8-59, Cl. 103-260.
- McManama, Arman E.: *See*—  
Boylan, Henry W., Doane, and McManama. 2,893,700.
- McManigal, Robert M.: *See*—  
Eubanks, Floyd G. 2,884,825.
- McManimie, Robert J., to Monsanto Chemical Co. Phosphorus-containing polymers. 2,893,961, 7-7-59, Cl. 260-2.
- McManimie, Robert J., to Monsanto Chemical Co. Borates. 2,894,020, 7-7-59, Cl. 260-462.



- McManmie, Robert J., to Monsanto Chemical Co. Bicyclic boron compound. 2,909,560, 10-20-59, Cl. 260—462.
- McManis, Clifford. Means for drilling small bores. 2,906,144, 9-29-59, Cl. 77—32.
- McManis, Louis B., to Dresser Industries, Inc. Signal attenuator. 2,888,636, 5-26-59, Cl. 323—75.
- McManus, Albert R.: *See—*
- Rother, Richard J., Sr., and McManus. 2,916,466.
- McManus, Albert R. Impregnated corrugated paperboard, a composition therefor and a process of making said composition. 2,868,665, 1-13-59, Cl. 106—230.
- McManus, John J.: *See—*
- Allen, Samuel G., II, Currie and McManus. 2,874,218.
- McMaster, James E., T. L. Nash, F. A. Decker, Jr., and F. L. Brandau, to American Viscose Corp. Filament crimping apparatus and method. 2,878,547, 3-24-59, Cl. 28—1.
- McMichael, John D.: *See—*
- McMullen, Wesley W., and McMichael. 2,906,370.
- McMichael, John D., to General Motors Corp. Cleaner silencer assembly. 2,869,679, 1-20-59, Cl. 183—15.
- McMichael, John D., to General Motors Corp. Cleaner silencer assembly. 2,886,130, 5-12-59, Cl. 183—44.
- McMichael, John D., to General Motors Corp. Cleaner silencer assembly. 2,896,742, 7-28-59, Cl. 183—15.
- McMichael, John D., to General Motors Corp. Low pass filter type cleaner silencer unit. 2,904,129, 9-15-59, Cl. 183—44.
- McMichael, John D., to General Motors Corp. Cleaner silencer assembly. 2,905,268, 9-22-59, Cl. 183—44.
- McMillan, Alice A.: *See—*
- McMillan, Hugh D. 2,896,061.
- McMillan, Brockway, to Bell Telephone Laboratories, Inc. Pulse probability modulation system. 2,868,963, 1-13-59, Cl. 250—6.
- McMillan, Edward B. Electromagnetic wave absorbing dielectric walls. 2,875,435, 2-24-59, Cl. 343—18.
- McMillan, Edwin M., and D. L. Judd, to United States of America. Atomic Energy Commission. Cloverleaf cyclotron. 2,872,574, 2-3-59, Cl. 250—27.
- McMillan, Eugene C., to McMillan Floor Products Co. Screed support and method of using. 2,867,041, 1-6-59, Cl. 33—74.
- McMillan Floor Products Co.: *See—*
- McMillan, Eugene C. 2,867,041.
- McMillan, George W.,  $\frac{1}{2}$  to E. C. McRorey. Onion transplanting machines. 2,899,918, 8-18-59, Cl. 111—3.
- McMillan, Hugh D., deceased; A. A. McMillan, executrix of said H. D. McMillan. Air rinse. 2,896,061, 7-21-59, Cl. 219—39.
- McMillan, James A.: *See—*
- Dittmore, Richter, Shadd, McMillan, and Trickle. 2,885,735.
- McMillan, James O., to F. J. Ablah. Restaurant equipment. 2,894,604, 7-14-59, Cl. 186—1.
- McMillan, Jerry N. Coverall finisher. 2,883,092, 4-21-59, Cl. 223—70.
- McMillan, John E.: *See—*
- Cherrie, James M., and McMillan. 2,888,373.
- McMillan, John C., to General Dynamics Corp. Linear motion potentiometer. 2,904,766, 9-15-59, Cl. 338—176.
- McMillan, Stephen L., to General Electric Co. Room air conditioning apparatus having automatic odor removal operation. 2,899,802, 8-18-59, Cl. 62—157.
- McMillan, Stephen L., to General Electric Co. Room air conditioner condensate sump. 2,911,800, 11-10-59, Cl. 62—280.
- McMillan, William J., and K. R. Denslow, to The Dow Chemical Co. Cyclic foaming method of making cellular plastic bodies. 2,884,386, 4-28-59, Cl. 260—25.
- McMillan, John E., to Titanium Metals Corp. of America. Disintegrating refractory metals. 2,897,539, 8-4-59, Cl. 18—26.
- McMillion, Shelby C., to R. P. Scherer Corp. Soporific capsule. 2,899,361, 8-11-59, Cl. 167—83.
- McMinn, Albert H. Plumbing unit. 2,866,981, 1-6-59, Cl. 4—211.
- McMinn, Charles E., and G. L. Fuller, to The F. J. Stokes Corp. Preheater for molding material. 2,889,441, 6-2-59, Cl. 219—19.
- McMinn, Robert E.: *See—*
- Chaple, William F., and McMinn. 2,868,315.
- Mitchell, Kenneth G., McMinn, and Laurence. 2,909,905.
- McMinn, William A., Jr., and J. T. Barr, to Escambia Chemical Corp. Polyvinyl chloride purification process. 2,878,239, 3-17-59, Cl. 260—92.8.
- McMorris, Herschel G., and F. H. McCall, to M. P. Laughlin. Process of coating aluminum and product. 2,894,852, 7-14-59, Cl. 117—3.
- McMorrow, Joseph L.: *See—*
- Vander Ply, John R., Jastram, McMorrow, and Shockroo. 2,870,294.
- McMullen, George A. Clear vision windshield attachment for vehicles. 2,905,504, 9-22-59, Cl. 296—95.
- McMullen, John C., to The Carborundum Co. Refractory fibrous material. 2,873,197, 2-10-59, Cl. 106—50.
- McMullen, Wesley W., to General Motors Corp. Cleaner silencer unit. 2,905,265, 9-22-59, Cl. 183—15.
- McMullen, Wesley W., to General Motors Corp. Spring clip fastener. 2,911,693, 11-10-59, Cl. 24—73.
- McMullen, Wesley W., and J. D. McMichael, to General Motors Corp. Air cleaner and silencer assembly. 2,906,370, 9-29-59, Cl. 183—44.
- McMullin, Harold B. Air suspension means for vehicles. 2,916,298, 12-8-59, Cl. 280—124.
- McMurray, Herman J. Rope buckle. 2,874,434, 2-24-59, Cl. 24—123.
- McMurray, Paul H.: *See—*
- Haggard, John M., and McMurray. 2,870,928.
- McMurray, Paul H., to Delphi Products Co., Inc. Fountain tank. 2,914,025, 11-24-59, Cl. 119—73.
- McMurren, Irving B., to Lear, Inc. Regulated oscillator. 2,874,293, 2-17-59, Cl. 250—36.
- McMurry Container Corp.: *See—*
- McMurry, William C., Sr. 2,877,981.
- McMurry, Everett D., to Harold Brown, Co. Fluid lift plunger for wells. 2,878,754, 3-24-59, Cl. 103—52.
- McMurry, John N., to F. F. Welsh. Crash helmet. 2,901,750, 9-1-59, Cl. 2—3.
- McMurry, William C., Sr., to McMurry Container Corp. Self propelled vehicle with vertically adjustable deck for transporting freight containers. 2,877,981, 3-17-59, Cl. 254—9.
- McNabb, Arthur J., to Phoenix Steel Corp. Tubular pipe testing machine. 2,896,445, 7-28-59, Cl. 73—49.6.
- McNabb, George C.: *See—*
- Bentley, George P., McNabb, and Lewis. 2,918,542.
- McNabb, John W.,  $\frac{1}{2}$  to American Can Co., and  $\frac{1}{2}$  to Kienle and Co. Vinylate fatty acid esters. 2,877,195, 3-10-59, Cl. 260—23.
- McNabb, Walter J., Jr.,  $\frac{1}{2}$  to M. H. Manasse. Elevating unit for baby crib. 2,913,737, 11-24-59, Cl. 5—63.
- McNabb, Warren C., to National Broach & Machine Co. Method of shaving conical involute gears. 2,887,015, 5-19-59, Cl. 90—1.6.
- McNabb, Warren C., and R. W. Anthony, to National Broach & Machine Co. Apparatus for simultaneously shaving and deburring the teeth of gears. 2,916,971, 12-15-59, Cl. 90—1.6.
- McNall, Lester R.: *See—*
- Miller, Alfred L., McNall, and Rehner. 2,904,693.
- McNally, Cornelius L.: *See—*
- Kelly, Louis J., and McNally. 2,919,241.
- McNally, Edward M., to Voorhis-Tiebout Co., Inc. Soap bar. 2,893,960, 7-7-59, Cl. 252—134.
- McNally, Harold E.,  $\frac{1}{2}$  to C. H. Nelson. Vehicle light. 2,901,593, 8-25-59, Cl. 240—7.1.
- McNally, James A. Pneumatic mounting system. 2,883,131, 4-21-59, Cl. 248—22.
- McNamara, Earl J.: *See—*
- Kearney, Thomas J., and McNamara. 2,909,872.
- McNamara, Jack. Cooking utensil. 2,872,562, 2-3-59, Cl. 219—44.
- McNamara, James H., to Aluminum Co. of America. Utilization of low-temperature tars. 2,916,432, 12-8-59, Cl. 208—2.
- McNamara, John D.: *See—*
- Subart, William. 2,900,141.
- McNamara, William V. Grapple. 2,891,815, 6-23-59, Cl. 294—106.
- McNamee, Bernard F., to Dressen-Barnes Corp. Regulated voltage supply. 2,885,626, 5-5-59, Cl. 323—22.
- McNamee, Bernard F., to Dressen-Barnes Corp. Compensating circuit for transistor regulators. 2,912,638, 11-10-59, Cl. 323—22.
- McNaney, Joseph T., to General Dynamics Corp. Analogue data converter. 2,892,186, 6-23-59, Cl. 340—324.
- McNaney, Joseph T., to General Dynamics Corp. System for effecting transfer of cathode ray tube displays onto a record medium. 2,898,176, 8-4-59, Cl. 346—110.
- McNaney, Joseph T., to General Dynamics Corp. Recording apparatus. 2,898,468, 8-4-59, Cl. 250—49.5.
- McNaney, Joseph T., to General Dynamics Corp. Cathode ray tube apparatus. 2,907,907, 10-6-59, Cl. 313—70.
- McNaney, Joseph T., to General Dynamics Corp. Beam shaping member for a shaped beam tube. 2,915,660, 12-1-59, Cl. 313—68.
- McNatt, Eugene M., to United States of America, Navy. Speed indicator for a gyroscope. 2,898,552, 8-4-59, Cl. 324—70.
- McNatt, Ralph D., to Borg-Warner Corp. Air conditioning systems. 2,907,178, 10-6-59, Cl. 62—85.
- McNatt, William E., Jr. Electrical protective apparatus. 2,886,744, 5-12-59, Cl. 317—61.
- McNaught, John P., and J. R. Bryant, to Lever Brothers Co. Process for preparing a detergent composition containing anhydrous form 11 tripolyphosphate. 2,897,155, 7-28-59, Cl. 252—109.
- McNaught, Robert P. Metallic ore-collecting member with a plurality of magnetized surface areas. 2,918,170, 12-22-59, Cl. 209—213.
- McNaughtan, Thomas J., to Schenectady Varnish Co., Inc. Manufacture of phenol from cumene. 2,906,789, 9-29-59, Cl. 260—674.
- McNaughtan, Thomas J., D. J. Lieb, and U. Boschert. Phenol-formaldehyde-ketone condensate and starch composition. 2,886,540, 5-12-59, Cl. 260—17.2.
- McNaughton, James L., to General Electric Co. Sectional wiring duct. 2,905,201, 9-22-59, Cl. 138—75.
- McNaughton, John F., and P. Gottfried, to Cook Electric Co. Bearing assembly. 2,872,254, 2-3-59, Cl. 308—35.



- McNeal, Daniel R., to Andale Co. Plug valve operating mechanism. 2,893,681, 7-7-59, Cl. 251-161.
- McNeal, Raymond F., to Chicago Down Draft Furnace Co. Furnace. 2,891,520, 6-23-59, Cl. 122-94.
- McNeely, William H., and J. J. O'Connell, to Kelco Co. Carboxymethyl alginate product and methods of preparing carboxymethyl alginate. 2,902,479, 9-1-59, Cl. 260-209.6.
- McNeil, Clyde L.: *See*—  
Young, Fred W., and McNeil. 2,896,959.
- McNeil, Clyde L., and E. N. Buck, to Spee-Dee Check Out Systems. Checkout stand. 2,902,115, 9-1-59, Cl. 186-1.
- McNeil Laboratories, Inc.: *See*—  
Cain, Cornelius K. 2,898,369.  
Marsh, David F. 2,895,877.  
Swain, Ansel P. 2,883,391.
- McNeil Machine & Engineering Co., The: *See*—  
Klein, Victor G., Graef, and Lyles. 2,886,215.  
Mueller, Carl H. 2,872,085.  
Mueller, Carl H., and Klein. 2,908,898.  
Rotter, Lutwin C. 2,898,005.  
Soderquist, Leslie E. 2,911,670.
- McNeill, Robert F.: *See*—  
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- McNeill, Alvin L., to Victor Development Co. Impact devices for electronic golf drive interpreters. 2,897,674, 8-4-59, Cl. 73-379.
- McNeill, Eric, and B. Robson, to The British Petroleum Co. Ltd. Process for the finish sweetening of mercaptan-containing petroleum hydrocarbons with air and caustic alkali treated charcoal. 2,872,412, 2-3-59, Cl. 208-203.
- McNeill, Harry L. Ore concentration method and apparatus. 2,880,869, 4-7-59, Cl. 209-159.
- McNeill, Roy L.: *See*—  
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- McNeill, Robert C.: *See*—  
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- McNeill, Robert C., to Shell Development Co. Remote controlled oil well hoist brake. 2,906,378, 9-29-59, Cl. 188-151.
- McNeill, Thomas R.: *See*—  
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- McNemar, Kenneth L.: *See*—  
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- McNerney, Roger J., to The Rudolph Wurlitzer Co. Background noise eliminator. 2,893,281, 7-7-59, Cl. 84-114.
- McNett, Andrew J. Egg washing apparatus. 2,910,076, 10-27-59, Cl. 134-118.
- McNicoll, David, to British Timken Ltd. Axle-boxes. 2,875,004, 2-24-59, Cl. 308-180.
- McNicoll, David, to British Timken Ltd. Means for lapping thrust ribs of tapered roller bearings. 2,907,143, 10-6-59, Cl. 51-58.
- McNicoll, David, to British Timken Ltd. Device for lapping the race members of anti-friction bearings. 2,907,144, 10-6-59, Cl. 51-58.
- McNown, Darl D. Pilot operated valve. 2,876,981, 3-10-59, Cl. 251-41.
- McNulty, Dorothy G., and R. I. Leininger, to Diamond Alkali Co. Polymerization employing a phthalic glycerol alkyl resin as a suspension stabilizer. 2,886,551, 5-12-59, Cl. 260-45.4.
- McNulty, Dorothy G., and R. I. Leininger, to Diamond Alkali Co. Polymerization employing polyvinyl pyrrolidone in combination with secondary dispersants as suspension stabilizers. 2,890,199, 6-9-59, Cl. 260-45.5.
- McNulty, Frederick A., to W. H. A. Robertson & Co. Ltd. Rolling mill with segmental rolls. 2,903,925, 9-15-59, Cl. 80-14.
- McNulty, Frederick A. Furnaces. 2,911,510, 11-3-59, Cl. 219-10.69.
- McNulty, John G.: *See*—  
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Montgomery, Charles W., Gilbert, and McNulty. 2,886,590.
- McNulty, John V., to General Laboratory Associates, Inc. Spark producing apparatus including saturable core transformer. 2,896,123, 7-21-59, Cl. 315-177.
- McNulty, John V., and D. J. Wright, to General Laboratory Associates, Inc. Ignition system. 2,910,622, 10-27-59, Cl. 315-183.
- McNulty, M. J., Jr.: *See*—  
Mason, Richard C. 2,906,210.
- McNutt, Clara E. Garment hanger. 2,906,442, 9-29-59, Cl. 223-94.
- McNutt, Louis C. Pipe welding apparatus. 2,894,111, 7-7-59, Cl. 219-60.
- McNutt, Robert D., to International Business Machines Corp. Magnetic transducer. 2,910,544, 10-27-59, Cl. 179-100.2.
- McNutt, William C.: *See*—  
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- McOrlly, Joseph: *See*—  
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- McOrlly, Joseph, to Edwin L. Wiegand Co. Filling apparatus. 2,867,955, 1-13-59, Cl. 53-239.
- McOrlly, Joseph C., and G. E. Ammerman, to Edwin L. Wiegand Co. Electric heaters. 2,877,334, 3-10-59, Cl. 219-37.
- McPhar Engineering Co. of Canada Ltd., The: *See*—  
McLaughlin, George H., and Harvey. 2,919,396.
- McPhee, Alexander H., C. A. Olcott, T. H. Reid, and F. Stindt, to Hepworth Machine Co., Inc. Continuously fed centrifugal machine. 2,893,562, 7-7-59, Cl. 210-380.
- McPhee, Walter T.: *See*—  
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- McPherson, Donald G.: *See*—  
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- McPherson, John: *See*—  
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- McPherson, Perley N. Spark plug gap setter. 2,890,611, 6-16-59, Cl. 81-15.
- McQuarrie, Ernest B., to Cutter Laboratories. Suspension of vitamin C in alcohol solution of vitamin K. 2,879,205, 3-24-59, Cl. 167-81.
- McQuay-Norris Mfg. Co.: *See*—  
Knoebel, Walter C. 2,918,340.
- McQueen, David M., to E. I. du Pont de Nemours and Co. 4-fluorocyclohexene. 2,904,598, 9-15-59, Cl. 260-648.
- McQueen, Jack G., to General Electric Co. Gain control. 2,871,471, 1-27-59, Cl. 343-17.1.
- McQueen, Malcolm M., to Whittaker Controls, a Division of Telecomputing Corp. Liquid level control valve with pre-check system. 2,871,873, 2-3-59, Cl. 137-390.
- McQueen, Malcolm M., to Whittaker Controls, a Division of Telecomputing Corp. Liquid level responsive valve. 2,888,030, 5-26-59, Cl. 137-390.
- McQuillen, Howard R.: *See*—  
Miller, Louis D., and McQuillen. 2,914,317.
- McQuillen, John L. Tread and flange reducer. 2,868,054, 1-13-59, Cl. 82-36.
- McQuillen, Leland E.: *See*—  
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- McQuin, Clarence F., to E. J. Cowell. Combination roof and scaffold bracket. 2,888,225, 5-26-59, Cl. 248-237.
- McRae, Daniel D. Telemetry demodulator. 2,911,528, 11-3-59, Cl. 250-27.
- McRae, Douglas H.: *See*—  
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Eaton, Frank M., and McRae. 2,889,663.
- McRae, Edwin C., to Ford Motor Co. Distributor mechanism. 2,873,324, 2-10-59, Cl. 200-31.
- McRae, Edwin C., to Ford Motor Co. Engine accessory drive. 2,911,961, 11-10-59, Cl. 123-41.11.
- McRae, Edwin C., to Ford Motor Co. Engine accessory drive. 2,911,962, 11-10-59, Cl. 123-41.11.
- McRae, Wayne A., to Ionics, Inc. Method for making alpha chloroalkyl methyl ethers. 2,916,522, 12-8-59, Cl. 260-614.
- McKeynolds, Leo A., to Phillips Petroleum Co. Stabilized liquid fuel. 2,875,029, 2-24-59, Cl. 44-70.
- McKeynolds, Robert W., 50% to A. R. Moulin. Method and apparatus for coating a surface with light weight aggregate. 2,870,039, 1-20-59, Cl. 117-28.
- McRobbie, Robert M.: *See*—  
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- McRoberts, Charles E., and A. Bachman, to Amalgamated Electric Corp. Ltd. Panel board assembly. 2,902,631, 9-1-59, Cl. 317-116.
- McRoberts, William C.: *See*—  
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- McRoberts, William C., and L. V. Black, to Pittsburgh Plate Glass Co. Apparatus for bending glass and other heat-softened materials. 2,876,594, 3-10-59, Cl. 49-67.
- McRorey, B. C.: *See*—  
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- McShane, Herbert F., Jr., to E. I. du Pont de Nemours and Co. Elastomeric condensation products prepared from polyether glycols. 2,871,226, 1-27-59, Cl. 260-77.5.
- McSheehy, Justin A., to American Cyanamid Co. Process improvement for vat dyes. 2,898,337, 8-4-59, Cl. 260-263.
- McSkimin, Herbert J., to Bell Telephone Laboratories, Inc. Temperature-stable ultrasonic delay lines. 2,877,431, 3-10-59, Cl. 333-30.
- McSpadden, Thomas W., to Pan American Petroleum Corp. Method and apparatus for cleaning wells. 2,876,842, 3-10-59, Cl. 166-43.
- McStrack, Darrel D., and L. M. Burrage, to McGraw-Edison Co. Overvoltage protective device. 2,891,194, 6-16-59, Cl. 315-36.
- McSwain, Lois: *See*—  
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- McSweeney, Thomas J., Sr. Air compressor discharge line cleaning and unloading systems. 2,895,665, 7-21-59, Cl. 230-24.
- McVay, Thomas N.: *See*—  
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- McVeagh, William J.: *See*—  
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- McVey, Clarence H., to Scott & Williams, Inc. Broach. 2,906,004, 9-29-59, Cl. 29-95.1.
- McVey, Eugene S., to United States of America, Navy. Ramp function transistor circuit. 2,892,952, 6-30-59, Cl. 307-88.5.
- McVey, Eugene S., to United States of America, Navy. Coincidence gate transistor circuit. 2,892,953, 6-30-59, Cl. 307-88.5.
- McVey, Eugene S., to United States of America, Navy. Transistor ramp function generator. 2,914,685, 11-24-59, Cl. 307-88.5.



- McVey, Paul W. Ferrule reducer. 2,903,929, 9-15-59, Cl. 81-15.
- McVey, William H.: *See*—  
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- McVey, William H., and W. H. Reas, to United States of America, Atomic Energy Commission. Uranium separation process. 2,877,087, 3-10-59, Cl. 23-14.5.
- McVoy, Vincen P., to S. M. Dixon, M. M. Redell, and G. M. Allen, by decree of distribution. Electric engine. 2,894,154, 7-7-59, Cl. 310-23.
- McWethy, Irvin E., to Midwest Mfg. Corp. Washing machine transmission. 2,893,251, 7-7-59, Cl. 74-42.
- McWherter, Paul W., E. B. Kine, and H. A. Alps, to Rohm & Haas Co. Coated leather products and methods for producing them. 2,879,178, 3-24-59, Cl. 117-76.
- McWhirter, James H.: *See*—  
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- McWhirter, Milford and W. T. Movable graduator. 2,899,749, 8-18-59, Cl. 33-75.
- McWhirter, Wayne T.: *See*—  
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- McWhorter, Cedric E., to Goodman Mfg. Co. Belt conveyor and articulator therefor. 2,873,021, 2-10-59, Cl. 198-109.
- McWhorter, Cedric E., to Goodman Mfg. Co. Mining systems of the room and pillar type. 2,874,945, 2-24-59, Cl. 262-1.
- McWhorter, Henry L.: *See*—  
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- McWhorter, Henry L., to Miehle-Goss-Dexter, Inc. Apparatus for producing magazines and the like. 2,873,113, 2-10-59, Cl. 270-12.
- McWhorter, Henry L., and E. M. Montgomery, to Miehle-Goss-Dexter, Inc. Feeder for carton and the like material. 2,906,529, 9-29-59, Cl. 271-44.
- McWilliams, Ernest, to The Stanford Seed Co., Inc. Seed treating composition comprising iron oxide, calcium carbonate and a water-insoluble copper salt. 2,900,303, 8-18-59, Cl. 167-46.
- McWilliams, George M., to Westinghouse Air Brake Co. Foot operated diaphragm valve. 2,884,953, 5-5-59, Cl. 137-620.
- McWilliams, Herbert C.: *See*—  
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Boyer, John L., McWilliams, and Colaiaico. 2,889,493.
- McWilliams, James D., to Jefferson Electronic Products Corp. Dip soldering machine. 2,875,717, 3-3-59, Cl. 113-59.
- Meacham, Douglas G. Dental wedge. 2,867,905, 1-13-59, Cl. 32-63.
- Meacham, Edward M. Door structure. 2,908,947, 10-20-59, Cl. 20-16.
- Meacham, Larned A., to Bell Telephone Laboratories, Inc. Party line identification system. 2,908,762, 10-13-59, Cl. 179-17.
- Mead-Atlanta Paper Co.: *See*—  
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Forrer, Homer W. 2,877,894.  
Forrer, Homer W. 2,905,316.
- Mead Board Sales, Inc.: *See*—  
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- Mead, Bruce R. and C. R., and R. Harding. Flavor-containing drinking straw. 2,867,536, 1-6-59, Cl. 99-138.
- Mead, Charles R.: *See*—  
Mead, Bruce R. and C. R., and Harding. 2,867,536.
- Mead Corporation, The: *See*—  
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- Mead, Harold B. Hydraulic variable speed gear. 2,871,792, 2-3-59, Cl. 103-89.
- Mead, Howard C.: *See*—  
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- Mead, Howard C., and L. T. Fuqua, to General Motors Corp. Non-glare mirror. 2,913,958, 11-24-59, Cl. 88-77.
- Mead Johnson & Co. *See*—  
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- Mead Packaging, Inc.: *See*—  
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- Mead Specialties Co., Inc.: *See*—  
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- Mead, Theodore E. Elevator shelves. 2,905,517, 9-22-59, Cl. 312-268.
- Mead, William H. Blast room with uniform down-draft ventilation. 2,912,918, 11-17-59, Cl. 98-115.
- Meade, Edwin M.: *See*—  
Kairys, Stepsas, Meade, Munns, and Walder. 2,895,976.
- Meade, Edwin M. Separation of olefinic fatty acids. 2,915,537, 12-1-59, Cl. 260-419.
- Meade, Harold L.: *See*—  
Barbeau, Raymond A., and Meade. 2,901,041.
- Meade, Leonard P., to Phillips Petroleum Co. Underground storage. 2,896,417, 7-28-59, Cl. 62-54.
- Meade, Leonard P., to Phillips Petroleum Co. Storage tank structure. 2,903,877, 9-15-59, Cl. 72-14.
- Meaders, Robert C.: *See*—  
Weston, David, MacPherson, Meaders, and Sheldon. 2,916,215.
- Meadows, Charles L., 25% to J. D. Basinger, and 24% to D. R. Moore. Automatic beer can opener. 2,897,590, 8-4-59, Cl. 30-4.
- Meadows, Geoffrey W., to E. I. du Pont de Nemours and Co. Dissolving polyanionic salts in water. 2,883,298, 4-21-59, Cl. 106-164.
- Meadows, Geoffrey W., to E. I. du Pont de Nemours and Co. Cement and method of stabilizing soil. 2,884,334, 4-28-59, Cl. 106-93.
- Meadows, James L., to The Texas Co. Regeneration of organic caustic solutions used in dethiolizing hydrocarbons. 2,871,194, 1-27-59, Cl. 252-192.
- Meadows, Lee A. High speed mechanical R-F waveguide switch. 2,901,708, 8-25-59, Cl. 333-7.
- Meadows, Stanley R., to Sarkes Tarzian, Inc. Television tuner. 2,909,934, 10-27-59, Cl. 74-10.45.
- Meager, Vernon W., and S. N. Barker. Electric lamp. 2,897,345, 7-28-59, Cl. 240-10.68.
- Meagher, Robert J., to Columbia Broadcasting System, Inc. Electron discharge structure. 2,898,505, 8-4-59, Cl. 313-307.
- Meagher, William D. Awning structure. 2,902,730, 9-8-59, Cl. 20-57.5.
- Meagher, William E. Ice fishing gear. 2,914,926, 12-1-59, Cl. 62-355.
- Meaker, Archibald G., 40% to S. B. Meaker. Trailer construction. 2,901,282, 8-25-59, Cl. 296-23.
- Meaker Co., The: *See*—  
Finston, Victor. 2,869,560.
- Meaker, Stanley B.: *See*—  
Meaker, Archibald G. 2,901,282.
- Meakin, Edgar N. Apparatus for cooling material adversely affected by heat of extrusion. 2,870,480, 1-27-59, Cl. 18-12.
- Meakin, Edgar N. Means for extruding moldable material having viscous properties. 2,902,949, 9-8-59, Cl. 107-14.
- Meakin, Edgar N. Extrusion mill feed assembly. 2,908,038, 10-13-59, Cl. 18-12.
- Mealpack Corp.: *See*—  
Clarke, Houghton W. 2,886,225.
- Meals, William S.: *See*—  
Evans, John G., Landells, and Meals. 2,911,324.  
Evans, John G., and Meals. 2,893,898.
- Means, John A., to Kalamazoo Vegetable Parchment Co. Paper winding apparatus. 2,914,267, 11-24-59, Cl. 242-67.1.
- Means, Perry G. Continuous hot pressing machine for the manufacture of compressed boards. 2,909,804, 10-27-59, Cl. 18-4.
- Meara, Robert A.: *See*—  
Johnston, Christian W., and Meara. 2,902,463.
- Mearns, William B. Fish lures. 2,867,935, 1-13-59, Cl. 43-42.35.
- Mears Electric Controls, Inc.: *See*—  
Mears, John S., Delorenzis, and Watson. 2,888,536.
- Mears, Fred W., Heel Co., Inc.: *See*—  
Dalton, Norris D., and Smith. 2,901,010.  
Joiner, Edgar E. 2,907,037.  
Joiner, Edgar E., Jr. 2,891,587.  
Joiner, Edgar E., and Szumski. 2,901,841.
- Mears, John H., Jr. Window construction. 2,877,514, 3-17-59, Cl. 20-52.2.
- Mears, John S. Thermostat and space heater control. 2,888,537, 5-26-59, Cl. 200-138.
- Mears, John S., D. F. Delorenzis, and S. E. Watson, to Mears Electric Controls, Inc. Thermosensitive switch mechanism. 2,888,536, 5-26-59, Cl. 200-138.
- Mears, William T., to General Motors Corp. Headlamp adjuster. 2,911,522, 11-3-59, Cl. 240-41.6.
- Meat Packers Equipment Co.: *See*—  
Hawley, Richard A. 2,917,888.  
Tipper, Maynard J. G. 2,876,762.
- Meats, William H., to Telehoist Ltd. Tipping bodies for commercial vehicles. 2,886,374, 5-12-59, Cl. 296-28.
- Meats, William H., to Telehoist Ltd. Fastening for a tail board of a tipping vehicle. 2,891,816, 6-23-59, Cl. 298-38.
- Mecco, Jerry M., A. J. Carlino, and C. L. Zimmerman, to American Cyanamid Co. Method of dyeing synthetic fibrous materials. 2,881,045, 4-7-59, Cl. 8-55.
- Mech, Henry D., to Sylvania Electric Products, Inc. Television receiver. 2,885,586, 5-5-59, Cl. 313-76.
- Mecham, Ferris J., to Sierra Engineering Co., Inc. Portable concrete batcher. 2,896,771, 7-28-59, Cl. 198-54.
- Mechanical Controls Inc.: *See*—  
Leopold, Wilbur R., Jr. 2,895,766.
- Mechanical Handling Systems, Inc.: *See*—  
Bishop, Leonard J. 2,877,524.  
Bishop, Leonard J., and Barlow. 2,875,703.  
Bishop, Leonard J., and Haase. 2,897,769.  
Bishop, Leonard J., and Klamp. 2,868,138.  
Klamp, Paul. 2,868,139.  
Klamp, Paul. 2,894,460.  
Klamp, Paul, and Perkins. 2,918,881.
- Mechanical Pin Resetter Co., Ltd.: *See*—  
Scherzinger, Bruno. 2,902,281.  
Scherzinger, Bruno. 2,911,218.
- Mechem, Maurice R. Combination toothbrush and dentifrice carrier. 2,868,215, 1-13-59, Cl. 132-84.
- Meckbach, Heinrich: *See*—  
Nischk, Gunther, and Meckbach. 2,915,493.



- Mecklenborg, Lawrence W., to Precision Welder & Machine Co. Method of and apparatus for edge welding sheet material. 2,892,921, 6-30-59, Cl. 219-81.
- Mecorney, John W., to Shell Development Co. Stabilization of unsaturated aldehydes. 2,874,099, 2-17-59, Cl. 202-57.
- Mecorney, John W., and E. C. Shokal, to Shell Development Co. Stabilization of unsaturated aldehydes. 2,886,493, 5-12-59, Cl. 202-57.
- Medalia, Avrom I. Synthetic latex containing a vinyl emulsifying agent and process of preparation. 2,868,755, 1-13-59, Cl. 260-29.7.
- Medalia, Avrom I., and H. H. Freedman, to General Latex & Chemical Corp. Composition of matter. 2,868,814, 1-13-59, Cl. 260-413.
- Medalia, Avrom I., and H. H. Freedman. Polymeric emulsifying agents and their derivatives. 2,874,151, 2-17-59, Cl. 260-80.
- Medart, Fred, Mfg. Co.: See—
- Chervenka, George R. 2,870,492.
- Chervenka, George R. 2,916,288.
- Murphy, Raymond J. 2,898,639.
- Medders, Weldon L., A. B. Foreman, Jr., and U. Skipper, to Houston Oil Field Material Co., Inc. Piston actuated casing mill. 2,899,000, 8-11-59, Cl. 166-55.8.
- Medearis, Paul A.: See—
- De Jarnett, Frank D. 2,867,280.
- De Jarnett, Frank D. 2,885,096.
- Meder, Max. Centrifugal force coupling. 2,910,160, 10-27-59, Cl. 192-105.
- Medert, Adrian: See—
- Bolesky, John D. 2,891,128.
- Mediano, Capdevila. Elastic last. 2,893,059, 7-7-59, Cl. 18-46.
- Medicus, Gustav K. Resonance break-off seal. 2,889,067, 6-2-59, Cl. 220-2.2.
- Medlar, Lewis A., to Fox Products Co. Program switching means. 2,892,906, 6-30-59, Cl. 200-37.
- Medlar, Lewis A., to Fox Products Co. Battery heat maintainer. 2,899,623, 8-11-59, Cl. 320-2.
- Medlock, Alfred A. Shower seat. 2,888,683, 6-2-59, Cl. 4-147.
- Medlock, Alfred A. Utensil. 2,893,331, 7-7-59, Cl. 107-30.
- Mednick, Morton L.: See—
- Levy, Harold, and Mednick. 2,919,286.
- Medor, Joseph R. Cover holder. 2,879,915, 3-31-59, Cl. 220-85.
- Medow, Jules, to Radio Corp. of America. Mechanism for rotating electrical units. 2,867,489, 1-6-59, Cl. 312-323.
- Medow, Jules, to United States of America, Air Force. Electronic chassis locking assembly. 2,869,960, 1-20-59, Cl. 312-333.
- Medsker, Charles A. Fluxing or deoxidizing atmosphere. 2,908,599, 10-13-59, Cl. 148-23.
- Mee, Charles D., to M. S. S. Recording Co. Ltd. Magnetic tape recording and reproducing system and apparatus. 2,873,319, 2-10-59, Cl. 179-100.2.
- Meece, Ralph P. Motor vehicle snow broom. 2,870,469, 1-27-59, Cl. 15-82.
- Meech, James H.: See—
- Badertscher, Dana K., and Meech. 2,893,514.
- Meech, Ralph E.: See—
- Nelson, Delbert L. 2,900,003.
- Meehanite Metal Corp.: See—
- Moore, William H. 2,885,284.
- Moore, William H., and Gruver. 2,883,723.
- Meek, Franklin H.: See—
- Todd, Harold E., Meyer, Gaither, Meek, and Wanttaja. 2,880,557.
- Meek, George W., to American W. M. B., Inc. Structural building paneled wall constructions and panel means therefor. 2,893,067, 7-7-59, Cl. 20-4.
- Meek, George W., to Carl Munters & Co. Cooling towers. 2,906,512, 9-29-59, Cl. 261-24.
- Meek, Gregory G. Towing apparatus for water skiers. 2,899,925, 8-18-59, Cl. 114-235.
- Meek, Harold J.: See—
- Govan, Roy H., and Meek. 2,875,871.
- Govan, Roy H., and Meek. 2,888,029.
- Govan, Roy H., and Meek. 2,918,085.
- Meek, Harold J., to Jaroco Engineering Co. Float actuating device. 2,914,082, 11-24-59, Cl. 137-412.
- Meek, James M., H. B. Smith, Jr., and E. T. Winston, to United States of America Army. Safety and arming device having remotely located rotor actuating means. 2,913,984, 11-24-59, Cl. 102-70.2.
- Meek, James S.: See—
- Carmichael, Robert D., and Meek. 2,897,550.
- Meeker, David A., and R. C. Geiger, to The Hobart Mfg. Co. Detachable actuator. 2,879,026, 3-24-59, Cl. 251-291.
- Meeker, Leonard N.: See—
- De Armond, Harry, and Meeker. 2,909,092.
- Meeker, William H., to Hickock Mfg. Co. Inc. Cuff links. 2,885,756, 5-12-59, Cl. 24-97.
- Meer, Fred: See—
- Pundyk, Bernard, and Meer. 2,892,196.
- Meerbott, William K.: See—
- Kunreuther, Frederick, and Meerbott. 2,895,899.
- Meerburg, Wilhelmina: See—
- Beets, Muus G. J., Van Essen, and Meerburg. 2,889,367.
- Meerkreets, Samuel: See—
- Densow, Max. 2,877,920.
- Meermans, John W.: See—
- Cox, Eugene S., and Meermans. 2,888,302.
- Mees, Robert D., to General Electric Co. Process of impregnating a porous article. 2,872,344, 2-3-59, Cl. 117-61.
- Meesse, Clarence, to Eaton Mfg. Co. Hose clamp assembly tool. 2,898,789, 8-11-59, Cl. 81-9.3.
- Meesse, George E., to General Electric Co. Vehicle headlamp mounting. 2,910,576, 10-27-59, Cl. 240-41.6.
- Meesse, George E. Sealing means for hatch covers and the like. 2,915,033, 12-1-59, Cl. 114-202.
- Meess, Jack D.: See—
- Hobbs, William M., Harper, and Meess. 2,916,252.
- Meussen, Louis A., to Gevaert Photo-Producten N.V. Production of photographic multicolor images. 2,908,570, 10-13-59, Cl. 96-9.
- Meewes, Edward A. Casket, vault and cover handling mechanism. 2,901,812, 9-1-59, Cl. 27-32.
- Meffert, Walter, to Demag-Elektrometallurgie G.m.b.H. Electrode attaching device for electric arc furnaces. 2,903,494, 9-8-59, Cl. 13-14.
- Meftina S.A.: See—
- Casas-Robert, Ramon, and Fresard. 2,879,732.
- Fresard, Marcel, and Gianinazzi. 2,883,868.
- Rufer, Franz. 2,903,918.
- Megard, Henry, to Sautier & Jaeger. Television set adapted to receive two definitions. 2,901,600, 8-25-59, Cl. 250-20.
- Megarry, Edward P. Hot water heater. 2,911,511, 11-3-59, Cl. 219-38.
- Megator Pumps & Compressors Ltd.: See—
- McCombie, Frederick W. 2,879,913.
- Mege, Paul A. Method of arranging ship's holds or the like, and holds thus arranged. 2,895,444, 7-21-59, Cl. 114-73.
- Megesi, Joseph N., to Fairview Photo Service, Inc. Apparatus for recovery of silver from spent photographic solutions. 2,905,323, 9-22-59, Cl. 210-130.
- Megibow, Isaiah C. Fastener. 2,897,561, 8-4-59, Cl. 24-95.
- Megson, Frederic H.: See—
- Karkalits, Olin C., Jr., Vanderwaart, and Megson. 2,891,094.
- Mehaffy, Joseph C. Jig for pre-fitting doors for metal jambs. 2,904,088, 9-15-59, Cl. 144-288.
- Mehl, Ross M., to North American Aviation, Inc. Remotely disconnectable coupling. 2,887,124, 5-19-59, Cl. 137-614.
- Mehle, Frank M.: See—
- Kroll, Alvin F., Atwood, and Mehle. 2,886,051.
- Mehler, Murray, 50% to M. Lamport. Soil resistant and heat reflective oven mitt. 2,889,556, 6-9-59, Cl. 2-158.
- Mehlis, Arthur, to International Standard Electric Corp. Arrangement to inspect stacked legendized papers, in particular to read the addresses of stacked letters. 2,889,941, 6-9-59, Cl. 214-11.
- Mehlretter, Charles L.: See—
- Hofreiter, Bernard T., Wolff, and Mehlretter. 2,894,945.
- Rankin, John C., and Mehlretter. 2,900,268.
- Mehlretter, Charles L., J. W. Van Cleve, and P. R. Watson, to United States of America, Agriculture. Preparation of starch-bisulphite addition products. 2,880,236, 3-31-59, Cl. 260-513.
- Mehr, Robert S.: See—
- Boyle, Stanley, and Chaiken. 2,879,510.
- Mehr, Walter. Collapsible fishing rod. 2,902,789, 9-8-59, Cl. 43-18.
- Mehring, Arthur C.: See—
- Abbott, George F., Jr., Krom, Mehling, and Whitney. 2,894,072.
- Mehringer, Edward W., to Westinghouse Air Brake Co. Frequency determining means. 2,875,326, 2-24-59, Cl. 250-6.
- Mel, Anthony J., and T. F. Widmer, to Westinghouse Electric Corp. Sealed agitator. 2,907,556, 10-6-59, Cl. 259-101.
- Meidenbauer, Lois W.: See—
- Meidenbauer, Phillip E., Jr. 2,867,227.
- Meidenbauer, Phillip E., Jr. 2,914,067.
- Meidenbauer, Phillip E., Jr., deceased, by L. W. Meidenbauer, executrix. Firewell Industries. Differential pressure gas supplying apparatus. 2,867,227, 1-6-59, Cl. 137-64.
- Meidenbauer, Phillip E., Jr., deceased, by L. W. Meidenbauer, executrix, to Firewell Industries. Breathing apparatus. 2,914,067, 11-24-59, Cl. 128-142.
- Meienberg, Hans, to Escher Wyss Aktiengesellschaft. Turbo-compressor plant. 2,914,242, 11-24-59, Cl. 230-115.
- Meier, Arthur P., to Westinghouse Electric Corp. Bulb handling mechanism. 2,877,925, 3-17-59, Cl. 221-171.
- Meier Electric and Machine Co., Inc.: See—
- Thompson, Charles E. 2,900,202.
- Meier, George. Cigar and cigarette holders. 2,902,999, 9-8-59, Cl. 131-182.
- Meier, George D.: See—
- Kloote, George E., Potchen, and Meier. 2,887,732.
- Kloote, George E., Potchen, and Meier. 2,907,383.
- Kloote, George E., Meier, and Potchen. 2,896,271.
- Potchen, Joseph A., Kloote, and Meier. 2,875,117.
- Meier, George D., G. E. Kloote, and J. A. Potchen, to Haskellite Mfg. Corp. Panel and fastener assembly and method of making same. 2,898,258, 8-4-59, Cl. 154-118.
- Meier, Johann, to E. Mettler. Laboratory balance. 2,902,272, 9-1-59, Cl. 265-54.
- Meier, Konrad: See—
- Druey, Jean, and Meier. 2,913,458.
- Meier, Oskar, to Gesellschaft der Ludw. von Roll'schen Eisenwerke A.G. Mandrel adjusting device for tube extrusion press. 2,902,147, 9-1-59, Cl. 207-3.



- Meier, Vincent L., to United States of America, Navy. Quick release mechanism. 2,869,208, 1-20-59, Cl. 24-230.
- Meighan, William A. Quick detachable coupler. 2,917,799, 12-22-59, Cl. 24-136.
- Meijer, Leo. Laminated fluorescent sign. 2,878,606, 3-24-59, Cl. 40-134.
- Meijering, Jan L., and G. H. Broers, to North American Phillips Co., Inc. Manufacture of porous articles of predetermined shape and dimensions from high-melting-point metals. 2,916,814, 12-15-59, Cl. 29-424.
- Meikle, Richard W.: *See*—  
Stanton, George W., Lefferdink, Meikle, and Charlesworth. 2,899,262.
- Meikle, Richard W., to The Dow Chemical Co. 4-chlorobenzyl-sulfonyl fluoride. 2,911,439, 11-3-59, Cl. 260-543.
- Meiler, John G., and E. A. N. Johnson, to Rayonier Inc. Process for producing hard board. 2,907,071, 10-6-59, Cl. 18-47.5.
- Meili, Jay E.: *See*—  
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- Meilinger, Bert: *See*—  
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- Meilinger Fixtures Co.: *See*—  
Meilinger, Raymond and B. 2,884,296.
- Meilinger, Raymond and B., to Meilinger Fixtures Co. Interlocking molding members for cabinet assembly and method of assembly. 2,884,296, 4-28-59, Cl. 312-263.
- Meilink Steel Safe Co.: *See*—  
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- Meilly, Harold W.: *See*—  
Mosher, Walter W., Jr., and Goldammer. 2,893,143.
- Meindl, Frank: *See*—  
Wimmer, Ernest L., and Meindl. 2,894,859.
- Meinel, Karl, to Wacker-Chemie G.m.b.H. Process for manufacturing nitrogen-containing polymerizates insoluble in water. 2,901,468, 8-25-59, Cl. 260-85.5.
- Meinelt, Arno, to VEB Sprio-Werke. Lubricant distributing pump. 2,873,003, 2-10-59, Cl. 184-27.
- Meiners, Edwin P., Jr., to California Research Corp. Removing normal moveout from seismic traces. Re. 24,648, 5-12-59, Cl. 340-15.
- Meinert, Norbert: *See*—  
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- Meinhardt, Norman A.: *See*—  
Vogel, Paul W., and Meinhardt. 2,900,406.
- Meinhardt, Wayne F.: *See*—  
Pierson, Knute H., and Meinhardt. 2,867,291.
- Meinhart, Donald R. End joints for tubing and method for making the same. 2,886,389, 5-12-59, Cl. 311-114.
- Meinholtz, Edward C., and D. Martignon. Pregiht handling equipment. 2,904,370, 9-15-59, Cl. 294-110.
- Meininger, Willi: *See*—  
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- Meinke, Richard: *See*—  
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- Meis, Helmut: *See*—  
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Büchner, Karl, Meis, and Roelen. 2,879,299.  
Büchner, Karl, Meis, and Roelen. 2,881,208.
- Meisel, Frederick W., Jr., to Allied Asphalt & Mineral Corp. Mold release agent. 2,901,361, 8-25-59, Cl. 106-38.23.
- Meisel, George M., and H. P. Kautz, to The Mine & Smelter Supply Co. Heavy media separator. 2,868,376, 1-13-59, Cl. 209-172.5.
- Meisel, Herbert R.: *See*—  
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- Meisel, Seymour L.: *See*—  
Ciapetta, Frank G., Koft, and Meisel. 2,876,268.
- Meisen, Johann. Cable clamp. 2,913,790, 11-24-59, Cl. 24-124.
- Meiser, Werner, and G. Domagk, to Farbenfabriken Bayer Akt. 1 - a - nitrophenyl - 2 - azidoacetyl amino - propane derivatives. 2,882,275, 4-14-59, Cl. 260-295.5.
- Meisinger, Harold H., to Westinghouse Electric Corp. Inertia-type overwind device for a filament coiling machine. 2,896,690, 7-28-59, Cl. 153-67.
- Meissinger, Hans F., and R. D. McCoy, to Reeves Instrument Corp. Electronic function generator of a plurality of variables. 2,899,530, 8-11-59, Cl. 250-27.
- Meissner, Charles R., to Bell Telephone Laboratories, Inc. Method for making a transposed conductor structure. 2,889,239, 6-2-59, Cl. 117-212.
- Meissner, William E., to American Viscose Corp. Stairway carpeting. 2,867,015, 1-6-59, Cl. 20-79.
- Meissner, William E., to American Viscose Corp. Method for packaging fluid materials. 2,872,760, 2-10-59, Cl. 53-20.
- Meissner, William E., to American Viscose Corp. Process and apparatus for packaging flowable materials. 2,872,763, 2-10-59, Cl. 53-29.
- Meissner, William E., to American Viscose Corp. Apparatus for packaging fluid flowable materials. 2,872,766, 2-10-59, Cl. 53-140.
- Meissner, William E., to American Viscose Corp. Article feed mechanism. 2,880,905, 4-7-59, Cl. 221-176.
- Meissner, William E. Method of centrifugally forming arch wall tubing. 2,895,172, 7-21-59, Cl. 18-56.
- Meissner, William E., to American Viscose Corp. Process for cladding or plating metals or other base sheets and the like. 2,895,192, 7-21-59, Cl. 22-204.
- Meissner, William E. Method of and apparatus for shaping tubing members. 2,897,545, 8-4-59, Cl. 18-19.
- Meissner, William E., to American Viscose Corp. Packaging apparatus. 2,916,864, 12-15-59, Cl. 53-180.
- Meister, Herbert, and W. Franke, to Chemische Werke Huls Akt. Process for the production of cyclohexanone oxime. 2,886,596, 5-12-59, Cl. 260-563.
- Meister, Jack, to United States of America, Army. Fuze pressure arming. 2,918,370, 12-29-59, Cl. 102-49.
- Meister, Martin, G. Mauthe, and K. Faber, to Farbenfabriken Bayer Akt. Process of retanning leather with condensation products of phenols, amines and formaldehyde. 2,890,095, 6-9-59, Cl. 8-94.21.
- Meister, Peter D.: *See*—  
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- Meister, Peter D., and A. Weintraub, to The Upjohn Co. 11 $\alpha$ -hydroxylation of steroids by sporotrichum. 2,877,162, 3-10-59, Cl. 195-51.
- Meixner, Alfred, to Voigtlander A.G. Photographic camera. 2,903,953, 9-15-59, Cl. 95-31.
- Meixner, Alfred, to Voigtlander A.G. Guide means for photographic cameras. 2,907,255, 10-6-59, Cl. 95-44.
- Meixner, Alfred, and R. Sommer, to Voigtlander, A.G. Camera focus adjusting mechanism. 2,890,639, 6-16-59, Cl. 95-45.
- Mekelburg, Earl F., to Square D Co. Dynamic braking contactor. 2,881,284, 4-7-59, Cl. 200-98.
- Mekelburg, Earl F., to Square D Co. Selective operator apparatus. 2,895,021, 7-14-59, Cl. 200-5.
- Mekkes, Lee T., to General Motors Corp. Self-contained hydraulic lash adjuster. 2,871,839, 2-3-59, Cl. 123-90.
- Mekler, Valentine, A. H. Schutte, and K. J. Korpi, to The Lummus Co. Olefin production process. 2,908,625, 10-13-59, Cl. 208-54.
- Melamed, Nathan T., and A. P. Kruper, to Westinghouse Electric Corp. Image reproduction system. 2,888,513, 5-26-59, Cl. 178-5.4.
- Melamed, Sidney: *See*—  
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- Melamed, Sidney, to Rohm & Haas Co. Process for the preparation of polymeric aminoalkyl vinyl ethers. 2,871,203, 1-27-59, Cl. 260-2.1.
- Melander, Roland: *See*—  
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- Melanson, Robert C. Multiple tamping machine. 2,908,206, 10-13-59, Cl. 94-49.
- Melaro, Rose E. Hair waving mandrel. 2,896,637, 7-28-59, Cl. 132-34.
- Melas, Adalbert, to Burgess-Manning Co. Recorder pen assembly. 2,876,740, 3-10-59, Cl. 120-42.06.
- Melas, Adalbert, to Burgess-Manning Co. Apparatus for assembling box pens. 2,877,336, 3-10-59, Cl. 219-85.
- Melbert, James S.: *See*—  
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- Melcher, Conway H.: *See*—  
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- Melches-Serrano, Carlos: *See*—  
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- Melchor, Jack L., to Sylvania Electric Products, Inc. Modulation apparatus. 2,881,395, 4-7-59, Cl. 332-51.
- Melchore, James A., and C. Laube, to American Cyanamid Co. Production of monofluoride of a polymer or copolymer of acrylonitrile. 2,883,260, 4-21-59, Cl. 18-54.
- Melchiona, James V. Shoe spike. 2,895,235, 7-21-59, Cl. 36-59.
- Melchoni, Anna F., J. L. Johnson, and V. L. Chase, to Interchemical Corp. Composition comprising methyl cellulose, resin binder, amine salt and organic solvent and method of preparing oil-in-water emulsion therefrom. 2,917,475, 12-15-59, Cl. 260-15.
- Meldrum, Donald N., to National Foam System, Inc. Apparatus for de-airing filled containers. 2,897,851, 8-4-59, Cl. 141-70.
- Meldrum, Roy W. Christmas tree holder. 2,913,202, 11-17-59, Cl. 248-44.
- Melech, Charles J.: *See*—  
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- Meletio, John H., and M. Meyer. Cooking units adapted for use in restaurants and similar food establishments. 2,906,850, 9-29-59, Cl. 219-43.
- Melgaard, Oscar C., to Wright Mfg. Co. Mounting structure for air conditioning apparatus. 2,868,102, 1-13-59, Cl. 98-39.
- Melhart, Leonard J. Coaxial magnetohydrodynamics switch device. 2,909,695, 10-20-59, Cl. 313-197.
- Melhorn, Carl E.: *See*—  
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- Melich, Edwin G., and J. N. Vail. Milk container dispensing units. 2,890,008, 6-9-59, Cl. 248-142.
- Melick, George F.: *See*—  
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- Melik, John S., and H. E. Ries, Jr., to Sinclair Refining Co. Process for reactivating a spent silica-magnesia cracking catalyst. 2,871,195, 1-27-59, Cl. 252-411.
- Melin, Arthur K. Swing practicing device. 2,888,266, 5-26-59, Cl. 273-200.



- Melin, Edward M.: *See*—  
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- Melin, Russell M.: *See*—  
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- Melka, William P. Tool for use in sand molding. 2,908,951, 10-20-59, Cl. 22-38.
- Melkonian, Diran, and P. Gold, to Zyma S. A. New meta-dialkylaminoethoxybenzoic acid esters, their hydrochlorides, and process for their preparation. 2,872,476, 2-3-59, Cl. 260-471.
- Mell-Hoffmann Mfg. Co.: *See*—  
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- Mell, William E., to Mell-Hoffmann Mfg. Co. Foldable table. 2,871,076, 1-27-59, Cl. 311-90.
- Mellam, Leo L.: *See*—  
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- Melland, Ole J. Rotary pneumatic harvester reel. 2,909,022, 10-20-59, Cl. 56-220.
- Mellen, Alice M.: *See*—  
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- Mellen, Arthur J. Arc-measuring instrument. 2,878,566, 3-24-59, Cl. 33-1.
- Mellen, William F., to A. M. Mellen. Automatic self-aligning two-way plow. 2,900,032, 8-18-59, Cl. 172-210.
- Mellencamp, Robert E. Mobile display unit having elevatable drive devices. 2,874,791, 2-24-59, Cl. 180-6.5.
- Mellet, Jesse B.: *See*—  
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- Melling, George, Sr., to Melling Tool Co. Machine tool for boring intersecting bores. 2,870,658, 1-27-59, Cl. 77-3.
- Melling, George, Sr., to Melling Tool Co. Machine tool with work advancing ways extending past plural work stations. 2,901,948, 9-1-59, Cl. 90-58.
- Melling Tool Co.: *See*—  
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Melling, George, Sr. 2,901,948.
- Mellinger, John C., to The Maytag Co. Drive assembly mounting. 2,910,890, 11-3-59, Cl. 74-722.
- Mellor, Alfred S., to United Shoe Machinery Corp. Outsole roughing machines. 2,869,349, 1-20-59, Cl. 69-6.5.
- Mellor, Robert H.: *See*—  
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- Melloy, Harold J., to The Patent Button Co. of Tennessee. Control knobs. 2,899,841, 8-18-59, Cl. 74-548.
- Melnick, Daniel, G. A. Perry, and J. Akerboom, to Corn Products Co. Food composition. 2,910,367, 10-27-59, Cl. 99-150.
- Melnick, Daniel, G. A. Perry, and J. Akerboom, to Corn Products Co. Vegetable salad and method for producing same. 2,910,368, 10-27-59, Cl. 99-154.
- Melnick, Daniel, and C. M. Gooding, to The Best Foods, Inc. Frying oils. 2,874,055, 2-17-59, Cl. 99-118.
- Melone, James A. Garment hanger retainer. 2,877,941, 3-17-59, Cl. 223-88.
- Meloy, Arthur S., Jr., R. D. Sweet, and W. G. Johnson, to The Singer Mfg. Co. Needle-bar actuating mechanisms for sewing machines. 2,883,952, 4-28-59, Cl. 112-221.
- Meloy, Norman F. Power line attachment for shovels. 2,899,082, 8-11-59, Cl. 212-42.
- Meloy, Norman F. Adjustable heel for use with log tongs and dipper stick. 2,903,146, 9-8-59, Cl. 214-147.
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- Melsom, Walter A., to Bowden (Engineers) Ltd. Plural layer type flexible hose coupling. 2,888,277, 5-26-59, Cl. 285-149.
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- Melton, Ben S. Apparatus for testing for the existence of signals in the presence of overriding noise. 2,897,351, 7-28-59, Cl. 250-20.
- Melton, Clyde R., to North Texas Mfg. Corp. Tube shield. 2,876,276, 3-3-59, Cl. 174-85.
- Melton, James O., and I. M. Carpenter, to The Geograph Co. Drill pipe valve. 2,884,002, 4-28-59, Cl. 137-454.2.
- Melton, William L. Electrical oil heating device. 2,907,861, 10-6-59, Cl. 219-43.
- Meltzer, Henry E.: *See*—  
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- Meltzer, Jack. Sock lining unit having a built-in bridging element. 2,897,612, 8-4-59, Cl. 36-58.5.
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- Melville, Lydia: *See*—  
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- Melville, William J. Method of producing liquid organic plant food. 2,879,151, 3-24-59, Cl. 71-8.
- Melville, William S., to The British Thomson-Houston Co. Ltd. Pulse generating electrical circuit arrangements. 2,869,004, 1-13-59, Cl. 307-108.
- Melvin, Myron F.: *See*—  
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- Melvin, William S., and A. F. Nichols, to E. I. du Pont de Nemours and Co. Manufacture of tetraethyl lead. 2,907,780, 10-6-59, Cl. 260-437.
- Melzak, Zdzislaw A.: *See*—  
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- Melzer, Wolfgang, and W. Schuster, to Aktiengesellschaft Kuhnle, Kopp & Kausch. Method of rendering porous graphite body impervious to fluids. 2,917,404, 12-15-59, Cl. 117-47.
- Mommel, Hans, to Siemens-Schuckertwerke Aktiengesellschaft. Shaft revolving apparatus, particularly for turbine generators. 2,914,908, 12-1-59, Cl. 60-1.
- Mempel, Rudolf, to Licentia Patent-Verwaltungs-G.m.b.H. Anti-friction bearings. 2,883,303, 5-26-59, Cl. 308-187.1.
- Mena, Carl M. Check valve with valve seat of resilient material. 2,896,663, 7-28-59, Cl. 137-539.
- Menasco Mfg. Co.: *See*—  
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- Mencotti, Claudio F. Welding torch attachment. 2,887,562, 5-19-59, Cl. 219-75.
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- Mende, William C., and J. L. Seidel, to Ortho Pharmaceutical Corp. Solid compressed amino acid spermicidal vehicle. 2,918,404, 12-22-59, Cl. 167-58.
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- Mendelsohn, Harold, to American Cyanamid Co. Recrystallization of tetracycline. 2,905,714, 9-22-59, Cl. 260-559.
- Mendelsohn, Lewis I., and H. T. Faus, to General Electric Co. Moving magnet oscillograph. 2,897,443, 7-28-59, Cl. 324-97.
- Mendelsohn, Max, and H. Larson, to Badger Mfg. Co. Bubble tower and tunnel tray construction. 2,917,293, 12-15-59, Cl. 261-114.
- Mendelsohn, Meyer, to Ions Exchange & Chemical Corp. Argentiferous germicidal medium and process for making same. 2,906,761, 9-29-59, Cl. 260-430.
- Mendelsohn, Meyer, to Ions Exchange & Chemical Corp. Separator for electric battery. 2,915,579, 12-1-59, Cl. 136-146.
- Mendelsohn, Meyer, and C. Horowitz, to Ions Exchange & Chemical Corp. Battery electrolyte. 2,872,362, 2-8-59, Cl. 136-157.
- Mendelson, Hans: *See*—  
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- Mendelson, Marvin B.: *See*—  
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- Mendelson, Myron J.: *See*—  
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- Mendenhall, Alfred L., Jr. Smoke detecting device. 2,877,453, 3-10-59, Cl. 340-237.
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- Mendenhall, Charles A., to Bendix Aviation Corp. Engine starter gearing. 2,885,894, 5-12-59, Cl. 74-6.
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- Menderman, Fred. Measuring and pouring device. 2,887,254, 5-19-59, Cl. 222-450.
- Mendez, Alfredo. Portable heater and cooker. 2,867,206, 1-6-59, Cl. 126-38.
- Mendes, Walter J., to The Singer Mfg. Co. Shirring presser foot. 2,900,942, 8-25-59, Cl. 112-235.
- Mendonca, Lewis E.: *See*—  
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- Mendoza, Manuel. Shoe sole. 2,904,724, 9-15-59, Cl. 317-2.
- Meneley, William E., to California Research Corp. Booster pump station control. 2,870,716, 1-27-59, Cl. 103-12.
- Menewisch, William T., to General Motors Corp. Two-way height control overrule for air suspended vehicle. 2,881,799, 4-14-59, Cl. 137-596.
- Meng, Victor W., and A. C. Borgman, to The Patent Scaffolding Co., Inc. Multiplatform scaffolds. 2,904,126, 9-15-59, Cl. 182-103.
- Menge, Eberhard, to Brunsziga Maschinenwerke Akt. Value transfer mechanism. 2,879,938, 3-31-59, Cl. 235-63.
- Mengel, Clare L., and D. P. Miles. Magnetic field detector. 2,900,595, 8-18-59, Cl. 324-6.
- Mengel, William R., to Magnat Machinery & Pattern Corp. Mechanism for securing roll to shaft. 2,890,517, 6-16-59, Cl. 29-129.
- Menges, Howard C. Sign and fixture therefor. 2,895,246, 7-21-59, Cl. 40-145.
- Mengis, Albin J., to Wolf Brothers, Inc. Apparatus for applying pressure sensitive materials. 2,901,999, 9-1-59, Cl. 118-1.
- Menhall, James W.: *See*—  
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- Merck, E., Akt., Darmstadt: *See*—  
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- Merck, E., Aktiengesellschaft: *See*—  
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- Merckling, Nikolaus G.: *See*—  
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- Merckling, Nicholas G., to E. I. du Pont de Nemours and Co.  
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- Mercoide Corp., The: *See*—  
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- Mercurio, Sam A.: *See*—  
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- Mercurius, Randolph P. Acoustic tone equalizer. 2,891,629, 6-23-59, Cl. 181-31.
- Mercury Engineering Corp.: *See*—  
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- Meredew, George C., A. G. E. Moore, and F. E. S. Smedley, to Bernard Bercovitz, and Rolls-Royce Ltd. Control means for motor driven pumps. 2,879,716, 3-31-59, Cl. 103-16.
- Meredew, George C., to B. Bercovitz. Hydraulic accumulator and like pressure storage vessel. 2,912,004, 11-10-59, Cl. 137-561.
- Meredich, Mike. Garden tool. 2,909,385, 10-20-59, Cl. 294-49.
- Meredith, Frederick W.: *See*—  
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- Meredith, Frederick W., to Smiths America Corp. Stabilising devices. 2,907,031, 9-29-59, Cl. 343-757.
- Meredith, John A., to Amalgamated Equipment Co. Reamer attachment for earth augers. 2,887,300, 5-19-59, Cl. 255-73.
- Meredith Publishing Co.: *See*—  
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- Meredith, Robert J.: *See*—  
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- Mergen, Joseph M., and R. K. Tiedeman, to Curtiss-Wright Corp. Hydraulic power units. 2,872,875, 2-10-59, Cl. 103-161.
- Mergen, Joseph M., and H. Murphy, to Curtiss-Wright Corp. Servo-operated clutches. 2,887,200, 5-19-59, Cl. 192-35.
- Mergenthaler, Edward C., to Waldorf Paper Products Co. Display post supports. 2,895,696, 7-21-59, Cl. 248-158.
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- Merian, Ernst, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Monoazo dyestuffs. 2,873,270, 2-10-59, Cl. 260-205.
- Merian, Ernest, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Water-insoluble diphenylamine dyestuffs. 2,879,269, 3-24-59, Cl. 260-239.7.
- Merian, Ernest, to Saul & Co., nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Water-insoluble monoazo dyestuffs. 2,891,942, 6-23-59, Cl. 260-207.1.
- Merian, Ernest, B. J. R. Nicolaus, and W. Wehrli, to Sandoz A. G. Water-insoluble monoazo dyestuffs. 2,870,137, 1-20-59, Cl. 260-207.
- Merian, Ernest, and B. J. R. Nicolaus, to Sandoz A. G. N-substituted urea and carbamate derivatives of water-insoluble tertiary amines. 2,909,561, 10-20-59, Cl. 260-472.
- Meriaux, Joseph: *See*—  
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- Merica, Edward P.: *See*—  
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- Merickel, George M., D. H. Buckhout, Jr., and R. R. Moser. Water toy. 2,906,531, 9-29-59, Cl. 272-1.
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- Meril, Dale R., to General Metals Corp. Commutator construction. 2,878,405, 3-17-59, Cl. 310-234.
- Merion, Abraham L., 50% to F. Edes. Sheet metal bending tool. 2,917,956, 12-22-59, Cl. 81-15.
- Meripol, Edward: *See*—  
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- Merkel, Erich: *See*—  
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- Merker, Dwight R., to Swift & Co. Process for hydrogenating glycerides. 2,903,468, 9-8-59, Cl. 260-409.
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- Merkle, Bernard J. Reduction gearing. 2,883,880, 4-28-59, Cl. 74-606.
- Merkouris, James S. Retractable clothesline support. 2,899,080, 8-11-59, Cl. 211-119.17.
- Merkowitz, Samuel, to General Dynamics Corp. Release mechanism. 2,892,210, 6-30-59, Cl. 16-171.
- Merl, Carl J. Remote control steering mechanism for boats. 2,894,473, 7-14-59, Cl. 114-144.
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- Merlin, Howard R., Jr., to Bell Telephone Laboratories, Inc. Code translator. 2,907,019, 9-29-59, Cl. 340-347.
- Merlub-Sobel, Menahem, to Horizons Titanium Corp. Preparation of fused salt electrolytes. 2,870,072, 1-20-59, Cl. 204-64.
- Merlub-Sobel, Menahem, M. J. Arnoff, and J. L. Sorkin, to Horizons Titanium Corp. Preparation of the refractory metals by fused salt electrolysis. 2,870,073, 1-20-59, Cl. 204-64.
- Merlub-Sobel, Menahem, and K. M. Weigert, to Curtiss-Wright Corp. Brazing flux. 2,882,593, 4-21-59, Cl. 29-495.
- Mermac Products, Inc.: *See*—  
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- Merner, Richard R., to E. I. du Pont de Nemours and Co. Acid pasting of metal-free phthalocyanine. 2,917,518, 12-15-59, Cl. 260-314.5.
- Merrell, Allen W., to Sattley Co. Bag filling mechanism. 2,898,721, 8-11-59, Cl. 53-244.
- Merrell, Robert A.: *See*—  
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- Merrell, Wm. S., Co., The: *See*—  
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- Merrells, Frederic P. Selective dispensing apparatus. 2,867,418, 1-6-59, Cl. 259-8.
- Merrells, Frederic P. Foldable ladder. 2,887,259, 5-19-59, Cl. 228-23.
- Merriam, Frank R. Parking switch for windshield wipers. 2,899,510, 8-11-59, Cl. 200-61.39.
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- Merriam, Frederic C., to United Shoe Machinery Corp. Water vapor permeable resins. 2,870,129, 1-20-59, Cl. 260-86.1.
- Merriam, Martin M.: *See*—  
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- Merrick, Richard H., to Carrier Corp. Slinger construction. 2,912,171, 11-10-59, Cl. 239-220.
- Merrick, Richard H., to Carrier Corp. Liquid distribution system. 2,873,140, 2-10-59, Cl. 299-25.
- Merrick, Wallace N. Mechanical boat unloader. 2,885,061, 5-5-59, Cl. 198-89.
- Merrifield, Dudley B.: *See*—  
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- Merrifield, Dudley B., to Monsanto Chemical Co. Rubber compositions containing nitroso aliphatic arylenediamines. 2,901,459, 8-25-59, Cl. 260-45.9.
- Merrifield, Paul E.: *See*—  
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- Merrigan, Timothy O. Distributor attachment for wagon. 2,871,020, 1-27-59, Cl. 275-2.
- Merrill, Albert H. Educational toy with problem solution indication. 2,877,566, 3-17-59, Cl. 35-9.
- Merrill, Bennett W., to New Castle Products, Inc. Foldable and slidable tub shower door. 2,885,000, 5-5-59, Cl. 160-118.
- Merrill, Bennett W., to New Castle Products, Inc. Sound insulated folding door. 2,903,055, 9-8-59, Cl. 160-40.
- Merrill, Donald W., and L. W. Eiden. Bow sight. 2,875,522, 3-3-59, Cl. 33-46.
- Merrill, Hattiebelle. Collar support for garment hangers. 2,880,928, 4-7-59, Cl. 223-98.
- Merrill, Josiah L., Jr., to Bell Telephone Laboratories, Inc. Negative impedance repeaters. 2,878,325, 3-17-59, Cl. 179-170.
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- Merrill, Wesley P., to The Oilgear Co. Operating mechanism for a pipe testing machine. 2,883,859, 4-28-59, Cl. 73-49.6.
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- Gaffey, John R. 2,905,126.
- Merriman, Henry H., and H. D. Leavy. Combination brush and pant holder. 2,914,229, 11-24-59, Cl. 223-96.
- Merriman, Henry H. Fluid pressure actuated tire compressing and bead seating device. 2,918,965, 12-29-59, Cl. 157-121.
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- Merriman, William E., to Eastman Kodak Co. Intrusion detecting system. 2,908,897, 10-13-59, Cl. 340-258.
- Merrrow Machine Co., The: *See*—  
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- Merritt Engineering Co.: *See*—  
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- Merritt, John W. Radiation survey method. 2,906,882, 9-29-59, Cl. 250-83.
- Merritt, Thomas W., to Babson Bros. Co. Milk pipe line washing system. 2,915,072, 12-1-59, Cl. 134-57.
- Merritt, Thomas W., to Babson Bros. Co. Milk pipe line washing system. 2,915,073, 12-1-59, Cl. 134-58.
- Merritt, Thomas W., and C. A. Thomas, to Babson Bros. Co. Milker. 2,869,512, 1-20-59, Cl. 119-14.6.
- Merry, Albert B., and P. F. Hastings. Motor power unit. 2,871,585, 2-3-59, Cl. 37-45.
- Merry, Clayton B., to Clayton B. Merry Equipment, Inc. Snow-removing apparatus. 2,880,527, 4-7-59, Cl. 37-43.
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- Merryman, Carl, and F. J. Stoeberl, to Duro-O-Lite Pencil Co. Retractable writing device. 2,896,577, 7-28-59, Cl. 120-42.03.
- Mersch, Rudolf: *See*—  
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- Wahl, Ottmar, Mersch, and Püschel. 2,892,714.
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- Mertes, Thomas S., to Sun Oil Co. Polymerization of olefins while subjecting the catalyst to ultrasonic waves. 2,899,414, 8-11-59, Cl. 260-93.7.
- Mertes, Thomas S., to Sun Oil Co. Pebble circulating reaction system. 2,907,800, 10-6-59, Cl. 260-672.
- Mertesdorf, Aloys P. Hedge cutter. 2,867,040, 1-6-59, Cl. 30-205.
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- Merton, Robert R., R. H. McDowell, and J. G. Aylett, to Alginate Industries Ltd. Fire fighting foams. 2,895,910, 7-21-59, Cl. 252-3.
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- Mertz, Clyde W., to Phillips Petroleum Co. Stabilization of heterocyclic nitrogen compounds. 2,900,387, 8-18-59, Cl. 260-290.
- Mertz, Clyde W., to Phillips Petroleum Co. Stabilization of heterocyclic compounds having a hetero nitrogen atom. 2,907,770, 10-6-59, Cl. 260-290.
- Mertz, Clyde W., to Phillips Petroleum Co. Control of oxygen content of low boiling hydrocarbons. 2,914,589, 11-24-59, Cl. 260-681.5.
- Mertz, Clyde W., and P. F. Warner, to Phillips Petroleum Co. Control of polymerization processes. 2,886,616, 5-12-59, Cl. 260-683.15.
- Mertz, Clyde W., and W. M. Zoller, to Phillips Petroleum Co. Process control system. 2,893,927, 7-7-59, Cl. 202-160.
- Mertz, Ralph H. Electric lure jigger. 2,908,103, 10-13-59, Cl. 43-19.2.
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- Merwin, Daniel E. Animal-actuated liquid applicator for livestock. 2,892,448, 6-30-59, Cl. 119-157.
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- Merz, Hans, and H. Weidlich, to C. H. Boehringer Sohn. Dihydrorescinnamine and methods of making the same. 2,872,451, 2-3-59, Cl. 260-287.
- Merz, Henry. Power operated drawing-lead sharpener. 2,872,900, 2-10-59, Cl. 120-96.
- Meschke, Robert W.: *See*—  
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- Meschwitzer, Kurt H., and G. H. Sijchofeld. Lamp construction. 2,910,575, 10-27-59, Cl. 240-41.
- Meserow, Francis P. Wireless communication system. 2,883,523, 4-21-59, Cl. 250-6.
- Meservey, Albert B., and R. H. Rainey, to United States of America, Atomic Energy Commission. Process for decontaminating thorium and uranium with respect to ruthenium. 2,909,406, 10-20-59, Cl. 23-14.5.
- Meshberg, Philip. Aerosol container with valve. 2,867,358, 1-6-59, Cl. 222-394.
- Meshberg, Philip. Aerosol package. 2,914,222, 11-24-59, Cl. 222-162.
- Mesner, Max H., to Radio Corp. of America. Color reproduction using brightness signal alone as substitute for green signal. 2,897,263, 7-28-59, Cl. 178-5.4.
- Mesrobian, Arant. Device for unifying the controls of the brake and the accelerator and the clutch in motor vehicles. 2,875,870, 3-3-59, Cl. 192-94.
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- Messenger, Desmond, and G. W. Phelps, to The Track Corp. Ltd. Articulated link units. 2,907,608, 10-6-59, Cl. 305-10.
- Messer, Dallas C. Surgical sling. 2,875,754, 3-3-59, Cl. 128-94.
- Messersmith, Benjamin K. Poultry blood testing equipment. 2,898,884, 8-11-59, Cl. 119-17.
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- Messick, Willard C., to Standard Alarm and Signal Co. Light permeable fluid level marker for casings. 2,917,924, 12-22-59, Cl. 73-334.
- Messler, Joseph A. A. Stay fastening for peg board mounted articles. 2,884,221, 4-28-59, Cl. 248-361.
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- Messmore, Harold. Display device. 2,871,521, 2-3-59, Cl. 20-5.
- Messner, George A., and R. P. Cero, to Royal McBee Corp. Locking device for typewriters and like machines. 2,880,839, 4-7-59, Cl. 197-145.
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- Mestre, Auguste F., to International Business Machines Corp. Magnetic core temperature regulation. 2,919,434, 12-29-59, Cl. 340-174.
- Mestre, Luis. Collating apparatus. 2,876,008, 3-3-59, Cl. 271-64.
- Mestre, Luis, to Lewfor Development Corp. Multiple sheet ejecting mechanism. 2,890,884, 6-18-59, Cl. 271-56.
- Mestre, Luis, to Lewfor Development Corp. Offset printing machine and sheet gage. 2,899,202, 8-11-59, Cl. 271-55.
- Mestre, Luis, to Lewfor Development Corp. Inking and dampening means for an offset printing machine. 2,915,970, 12-8-59, Cl. 101-144.
- Meszáros, George W., to Bell Telephone Laboratories, Inc. Current supply apparatus. 2,903,639, 9-8-59, Cl. 321-18.
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Ramsden, Hugh E. 2,904,570.  
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Ramsden, Hugh E., and Rosenberg. 2,894,012.  
Rosenberg, Sanders D., and Gibbons. 2,873,288.  
Stareck, Jesse E., Seyb, Jr., Johnson, and Rowan. 2,916,424.  
Weinberg, Elliott L. 2,867,566.  
Weinberg, Elliott L. 2,868,819.  
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- Metalastik Ltd.: *See*—  
Hirst, Archie J. 2,872,207.  
Hirst, Archie J., and Clark. 2,891,744.  
Saberton, Frederick R. 2,869,340.
- Metals and Chemicals Corp.: *See*—  
Wagner, Edgar R. 2,912,305.
- Metals & Controls Corp.: *See*—  
Epstein, Henry D. 2,863,923.  
Vander Pyl, John R., Jastram, Mc Morrow, and Shockroo. 2,870,294.
- Metals Disintegrating Co., Inc.: *See*—  
Sheldon, William M. 2,896,824.
- Metallgesellschaft Aktiengesellschaft: *See*—  
Dietrich, Leo. 2,876,864.  
Herbert, Wilhelm, Bratzler, Dorschner, Eisenlohr, and Gross. 2,901,423.  
König, Philipp. 2,907,640.  
Meyer, Kurt. 2,876,491.
- Metallgesellschaft Aktiengesellschaft: *See*—Continued  
Nüsslein, Joseph. 2,904,514.  
Ruppert, Wilhelm, Schwedler, Essewein, and Fritz. 2,884,894.  
Schranz, Hubert. 2,899,392.  
Schytli, Franz. 2,893,839.  
Selig, Ludwig. 2,889,576.  
Zimmermann, Wilhelm, and Wendeborn. 2,892,265.  
Zwicker, Ulrich, and Schleicher. 2,892,742.
- Metallgummi G.m.b.H.: *See*—  
Jörn, Raoul. 2,900,001.
- Metallizing Co. of America: *See*—  
Lyons, Allan J. 2,891,308.
- Metallizing Engineering Co. Inc.: *See*—  
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- Metallo, Gelsomino. Gun sight. 2,902,764, 9-8-59, Cl. 33-49.
- Metallurgical Development Co.: *See*—  
Derham, Leslie J. 2,886,309.  
Derham, Leslie J., and Haywood. 2,871,007.
- Metallurgical Processes Co.: *See*—  
Rusciano, Frank A. 2,886,303.
- Metallurgical Processes Ltd., and National Smelting Co. Ltd., The: *See*—  
Derham, Leslie J. 2,886,309.  
Derham, Leslie J., and Haywood. 2,871,007.  
Woods, Stephen E., and Derham. 2,912,322.
- Metalwash Machinery Co.: *See*—  
Pettit, Jack L., and Geisler. 2,880,433.  
Zademach, Erich R., Auger, and Lans. 2,867,225.
- Metcalf, Derek N. G., to Athena Industries, Inc. Waste container. 2,903,215, 9-8-59, Cl. 248-99.
- Metcalf, Howard F.: *See*—  
Hart, Gene E., and Metcalf. Re. 24,616.
- Metcalf, Joe S., to Monsanto Chemical Co. Inorganic phosphate compositions, and methods for the preparation and utilization thereof. 2,904,513, 9-15-59, Cl. 252-135.
- Metcalf, Kenneth, to Universal Cyclops Steel Corp. Free-machining austenitic alloys. 2,900,250, 8-18-59, Cl. 75-124.
- Metcalf, Kenneth A., and R. J. Wright, to Commonwealth of Australia (% Secretary of the Department of Supply). Coating surfaces by employing an electrostatic field. 2,898,279, 8-4-59, Cl. 204-181.
- Metcalf, Kenneth A., and R. J. Wright, to Commonwealth of Australia, care of the Secretary of the Department of Supply. Solid separation by electrophoretic means. 2,900,320, 8-18-59, Cl. 204-300.
- Metcalf, Kenneth A., and R. J. Wright, to The Commonwealth of Australia, care of the Secretary of the Department of Supply. Process for developing electrostatic image with liquid developer. 2,907,674, 10-6-59, Cl. 117-37.
- Metcalf, Samuel L. Screw clamp with a flexible clamping element. 2,907,360, 10-6-59, Cl. 144-297.
- Metcalf, Thomas O., Jr. Grain car barricade. 2,907,385, 10-6-59, Cl. 160-368.
- Metcalf, William K., to Midland-Ross Corp. Drying equalizer arrangement. 2,910,784, 11-3-59, Cl. 34-114.
- Metenier, Robert: *See*—  
Bidault, Philippe, and Metenier. 2,903,427.
- Metenier, Robert H., and J.-B. Signouret, to Esso Standard Societe Anonyme Francaise. Alkali metal soap thickened lubricating oil. 2,874,122, 2-17-59, Cl. 252-42.1.
- Meteor A.-G.: *See*—  
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- Metevia, William P., to The L. S. Starrett Co. Friction thimble. 2,871,571, 2-3-59, Cl. 33-164.
- Methe, George H., and D. K. Patterson, to L. A. Young Spring & Wire Corp. Binding strap anchoring structure. 2,882,837, 4-21-59, Cl. 105-369.
- Metheny, Donald E., to General American Transportation Corp. Processes of continuous chemical nickel plating. 2,872,353, 2-3-59, Cl. 117-130.
- Metheny, Donald E., and E. Browar, to General American Transportation Corp. Methods of chemical nickel plating. 2,874,073, 2-17-59, Cl. 117-130.
- Metivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc. Benzoxazole-methyl and benzothiazole-methyl phosphoric esters. 2,877,155, 3-10-59, Cl. 167-33.
- Metivier, Jean, to Societe des Usines Chimiques Rhone-Poulenc. Phosphorus derivatives. 2,905,700, 9-22-59, Cl. 260-345.9.
- Metrailler, Francis M., to Kitchen-Quip, Inc. Spring metal mounting clutch. 2,873,131, 2-10-59, Cl. 287-103.
- Metrailler, William J.: *See*—  
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- Metrailler, William J., to Esso Research and Engineering Co. High temperature burning of particulate carbonaceous solids. 2,884,303, 4-28-59, Cl. 23-1.
- Metrailler, William J., to Esso Research and Engineering Co. Process for feeding heavy oils into conversion systems. 2,891,000, 6-16-59, Cl. 208-157.
- Metrailler, William J., to Esso Research and Engineering Co. Transfer line chemicals coking process. 2,903,416, 9-8-59, Cl. 208-127.
- Metrawatt Aktiengesellschaft: *See*—  
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- Metrawatt, Fabrik Elektrischer Messgerate: *See*—  
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- Metric Hosiery Co., Inc.: *See*—  
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- Metro, Stephen J.: *See*—  
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- Metropolis Bending Co.: *See*—  
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- Metropolitan-Vickers Electrical Co. Ltd.: *See*—  
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 Belsey, Frederick H., and Johnston. 2,885,624.  
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 Craig, Robert D. 2,887,582.  
 Ennis, Arthur S. 2,879,418.  
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 Moule, Gordon H., and Urry. 2,884,920.  
 Moule, Gordon H., and Urry. 2,898,571.  
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- Metrulis, Raymond R. Combination level, rule and tractor device. 2,878,569, 3-24-59, Cl. 33-88.
- Mettler, Erhard: *See*—  
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- Mettoy Co., The: *See*—  
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- Mettoy Co. Ltd., The: *See*—  
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- Metz, Harry A.: *See*—  
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- Metz, Henry E., to Baxter Laboratories, Inc. Artificial kidney manufacture. 2,880,501, 4-7-59, Cl. 29-450.
- Metz, Hyman M.: *See*—  
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 McBee, Earl T., Pierce, and Metz. 2,899,454.
- Metz, Jack L., to Warwick Mfg. Corp. Record playing apparatus. 2,885,486, 5-5-59, Cl. 179-100.1.
- Metz, Weldon L., and W. A. Derr, to Westinghouse Electric Corp. Circuit interrupter control circuits. 2,909,709, 10-20-59, Cl. 317-29.
- Metzeler Gummiwerke AG: *See*—  
 März, Otto. 2,873,459.
- Metzger, Harry H., deceased; W. Rickard, executor, to W. A. and F. Rickard. Stone breaker. 2,889,823, 6-9-59, Cl. 125-23.
- Metzner, Albert W., to The Standard Register Co. Strip feeding device. 2,873,838, 2-17-59, Cl. 197-126.
- Metzner, Albert W., to The Standard Register Co. Strip feeding device. 2,881,893, 4-14-59, Cl. 197-133.
- Metzger, Alfred P., to Union Carbide Corp. Antistatic resin compositions. 2,872,432, 2-3-59, Cl. 260-45.5.
- Metzger, Edith B.: *See*—  
 Metzger, Parke H. and E. B. 2,896,809.
- Metzger, Horst: *See*—  
 Mueller, Eugen, Fries, and Metzger. 2,885,332.  
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 Von Schick, Otto, and Metzger. 2,883,377.
- Metzger, Leopold H., to Super-Cut, Inc. Multiple grinding wheel. 2,867,063, 1-6-59, Cl. 51-209.
- Metzger, Leopold H., and H. C. Miller, to Super-Cut, Inc. Method of and apparatus for dressing grinding wheels. 2,889,822, 6-9-59, Cl. 125-11.
- Metzger, Matt F., to General Electric Co. Control system for clothes dryers. 2,869,247, 1-20-59, Cl. 34-45.
- Metzger, Matt F., to General Electric Co. Multiple extraction speed laundry machine having unbalance sensing means. 2,911,812, 11-10-59, Cl. 68-12.
- Metzger, Parke H. and E. B. Nesting pail. 2,896,809, 7-28-59, Cl. 220-20.
- Metzger, Walter, and H. Meis, to Rutgerswerke-Aktiengesellschaft. Thermosetting aminoplast resins cured with amino acid catalyst. 2,914,504, 11-24-59, Cl. 260-45.2.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,870,919, 1-27-59, Cl. 213-100.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,889,939, 6-9-59, Cl. 213-64.
- Metzger, William J., to National Malleable and Steel Castings Co. Railway draft rigging. 2,889,940, 6-9-59, Cl. 213-69.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,909,293, 10-20-59, Cl. 213-146.
- Metzger, William J., to National Malleable and Steel Castings Co. Car coupler. 2,919,038, 12-29-59, Cl. 213-143.
- Metzger, Max, to Olin Mathieson Chemical Corp. Manufacture of duplex composition of sodium tripolyphosphate and sodium silicate solution. 2,909,490, 10-20-59, Cl. 252-135.
- Metzke, William R., to Allis-Chalmers Mfg. Co. Seal structure. 2,911,266, 11-3-59, Cl. 308-187.1.
- Metzler, Otto. Device for automatically indicating the critical oil level in engines, especially engines of motor vehicles. 2,874,243, 2-17-59, Cl. 200-84.
- Metzner, Albert W., to The Standard Register Co. Strip handling device. 2,904,332, 9-15-59, Cl. 271-2.1.
- Meulemans, Benedict E., and W. H. Pauly, to Swift & Co. Manufacture of cheese slabs or the like. 2,902,804, 9-8-59, Cl. 53-122.
- Meuli, Lloyd J., to The Dow Chemical Co. Agronomical practice for the control of nematodes with 1,2,3-tribromopropane. 2,895,872, 7-21-59, Cl. 167-39.
- Meulnart, André. Tackle for line-cast fishing. 2,908,102, 10-13-59, Cl. 43-18.
- Meuly, Walter C., to E. I. du Pont de Nemours and Co. N-(dialkylthiocarbamyl-mercaptopomethyl) derivatives of guanidine compounds, useful as bactericides and rodent repellents. 2,910,497, 10-27-59, Cl. 260-455.
- Meuly, Walter C., to E. I. du Pont de Nemours and Co. N-(dimethylthiocarbamyl-mercaptopomethyl)-carbamate esters. 2,910,498, 10-27-59, Cl. 260-455.
- Meunier, Frederick A., to Republic Steel Corp. Continuous control for strip mills and the like. 2,871,940, 2-3-59, Cl. 164-61.
- Meunier, Rose B.: *See*—  
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- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A. G. Masked valve. 2,868,187, 1-13-59, Cl. 123-188.
- Meurer, Siegfried, to Maschinenfabrik Augsburg-Nurnberg A. G. Combustion chamber for fuel injection internal combustion engine. 2,873,727, 2-17-59, Cl. 123-32.
- Meurer, Siegfried, to M. A. N. Maschinenfabrik Augsburg-Nurnberg A. G. Piston for internal combustion engines. 2,882,106, 4-14-59, Cl. 309-9.
- Meurer, Siegfried, H.-J. Ramundt, E. Merkel, and J. Liebel, to Maschinenfabrik Augsburg-Nurnberg A. G. Preheating apparatus for internal-combustion engines. 2,904,028, 9-15-59, Cl. 123-180.
- Meurer, Siegfried, and H. Seegelken. Operation of internal combustion engines. 2,907,308, 10-6-59, Cl. 123-32.
- Meusy, Eugene E., to Baso Inc. Flow control apparatus. 2,881,779, 4-14-59, Cl. 137-66.
- Meusy, Eugene E., to Baso Inc. Valve. 2,902,249, 9-1-59, Cl. 251-85.
- Mewherter, Jack L.: *See*—  
 Alter, Henry W., Davidson, Miller, and Mewherter. 2,868,707.
- Meyer, Alfred W., A. G. Roork, and E. R. Deardorff, to Guy F. Atkinson Co. Self-priming pumping system. 2,902,940, 9-8-59, Cl. 103-113.
- Meyer, Alvin L.: *See*—  
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- Meyer, Alvin L., and J. E. Cleland, to Union Starch & Refining Co. Isolating caramel coloring compounds from caramelized sugars. 2,902,393, 9-1-59, Cl. 127-34.
- Meyer, Andre J. Function computers. 2,898,038, 8-4-59, Cl. 235-61.
- Meyer, Armin, to Ciba Ltd. Process and apparatus for producing variable area records on lenticular films. 2,914,407, 11-24-59, Cl. 96-45.
- Meyer, Arthur R., and J. F. O'Brien, to United States of America, Army. Pivotally mounted oscillating breech member coupled with a ramactor mechanism. 2,876,680, 3-10-59, Cl. 89-156.
- Meyer, August W.: *See*—  
 Dalle Mura, Pio H., and Meyer. 2,917,716.
- Meyer, Barthold F., to General Motors Corp. Mechanical movement device. 2,876,653, 3-10-59, Cl. 74-424.8.
- Meyer, Barthold F., to General Motors Corp. Mechanical movement device. 2,893,258, 7-7-59, Cl. 74-424.8.
- Meyer, Barthold F., to General Motors Corp. Window regulator drive mechanism. 2,899,832, 8-18-59, Cl. 74-413.
- Meyer, Barthold F., and L. B. Ragsdale, to General Motors Corp. Window regulator drive mechanism. 2,905,003, 9-22-59, Cl. 74-89.
- Meyer, Barthold F., and N. Toruk, to General Motors Corp. Circuit controller. 2,916,566, 12-8-59, Cl. 200-5.
- Meyer, Bruce L., to Sperry Rand Corp. Phase demodulation. 2,904,683, 9-15-59, Cl. 250-27.
- Meyer-Busche, Gert. Mountings of spindles in spinning or thread twisting machines. 2,894,365, 7-14-59, Cl. 57-132.
- Meyer, Charles F.: *See*—  
 Mierendorf, Robert C., and Meyer. 2,915,699.
- Meyer, Clarence B. F. Field tile cleaner. 2,910,158, 10-27-59, Cl. 192-17.
- Meyer, Cornelis A. Clamping devices. 2,893,766, 7-7-59, Cl. 287-58.
- Meyer, Curtis E., to The Upjohn Co. Therapeutic Composition. 2,870,019, 1-20-59, Cl. 99-123.
- Meyer, Cyril G. Row crop attachment for combines. 2,867,962, 1-13-59, Cl. 56-158.
- Meyer, Daniel A., to The Dayton Rubber Co. Textile rub apron. 2,899,715, 8-18-59, Cl. 19-153.
- Meyer, Delbert H., to Standard Oil Co. Preparation of methyl and ethyl esters of aromatic carboxylic acids. 2,873,292, 2-10-59, Cl. 260-475.
- Meyer, Earl A., to Bjorksten Research Laboratories, Inc. Solar distillation device. 2,877,164, 3-10-59, Cl. 202-185.
- Meyer, Earl A., and M. J. Bina, to Bjorksten Research Laboratories, Inc. Liquid injector. 2,869,761, 1-20-59, Cl. 222-158.
- Meyer, Earl W., Jr., and G. E. Spaulding, Jr., to The Electric Auto-Lite Co. Spark plug construction. 2,914,693, 11-24-59, Cl. 313-124.
- Meyer, Earl W., Jr., and G. E. Spaulding, Jr., to The Electric Auto-Lite Co. Devices for regulating electrical discharges. 2,914,695, 11-24-59, Cl. 313-325.
- Meyer, Edward B. and E. T. to Meyer Products, Inc. Snow moving implement. 2,884,720, 5-5-59, Cl. 37-47.
- Meyer, Edward J. Gun mount assembly. 2,868,080, 1-13-59, Cl. 89-37.
- Meyer, Edward J., to North American Aviation, Inc. Latch type aircraft gun mount. 2,889,752, 6-9-59, Cl. 89-37.5.



- Meyer, Edward J., to North American Aviation, Inc. Electrical gun-switch assembly. 2,898,812, 8-11-59, Cl. 89-135.
- Meyer, Edward T.: See—  
Meyer, Edward B. and E. T. 2,884,720.
- Meyer, Edwin W.: See—  
Percy, L. Julian, Cole, Meyer, and Karpel. 2,887,478.
- Meyer, Engelbert A., to General Motors Corp. Clip assembly. 2,875,493, 3-3-59, Cl. 24-213.
- Meyer, Engelbert A., to General Motors Corp. Stud retainer with teeth arranged to engage stud in a plurality of positions. 2,903,939, 9-15-59, Cl. 85-36.
- Meyer, Engelbert A., to General Motors Corp. Threadless stud retainer having a plurality of lugs to engage work surface. 2,906,159, 9-29-59, Cl. 85-36.
- Meyer, Francis D. Simulated Christmas tree. 2,916,843, 12-15-59, Cl. 41-15.
- Meyer, Franklin. Compensated capacitive gravimetric apparatus. 2,918,818, 12-29-59, Cl. 73-304.
- Meyer, Friedrich, to Felsa S. A. One way engaging clutch. 2,874,580, 2-24-59, Cl. 74-126.
- Meyer, Friedrich-Johann, and W. Wirth, to Farbenfabriken Bayer Akt. Therapeutically valuable calcium salts. 2,891,053, 6-16-59, Cl. 260-211.
- Meyer, Geo. J., Mfg. Co.: See—  
Carter, Sidney T. 2,880,845.  
Carter, Sidney T. 2,890,787.  
Carter, Sidney T. 2,911,089.  
Meyer, George L. N. 2,881,902.
- Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Case conveyors. 2,881,902, 4-14-59, Cl. 198-75.
- Meyer, George W., Jr.: See—  
Cook, Howard H., and Meyer. 2,877,282.
- Meyer, Gerson. Readily adjustable drapery holder. 2,881,494, 4-14-59, Cl. 24-86.
- Meyer, Hans. Micrometer indicator. 2,900,731, 8-25-59, Cl. 33-166.
- Meyer, Hans-Joachim K., to Ampateco Laboratories Corp. Slaving mechanism for gyros. 2,868,024, 1-13-59, Cl. 74-547.
- Meyer, Hans-Werner: See—  
Schandroch, Josef. 2,876,098.
- Meyer, Harry A., and A. F. L. Anderson, to American Radiator & Standard Sanitary Corp. Air conditioner. 2,884,769, 5-5-59, Cl. 62-288.
- Meyer, Henry A. Process and apparatus for finishing metal and products resulting therefrom. 2,867,949, 1-13-59, Cl. 51-5.
- Meyer, Henry F. Cam assembly and cam follower. 2,908,186, 10-13-59, Cl. 74-569.
- Meyer, Henry R., to National Steel Corp. Corner stud. 2,877,874, 3-17-59, Cl. 189-34.
- Meyer, James A., to Kiekhafer Corp. Gear transmission. 2,886,985, 5-19-59, Cl. 74-780.
- Meyer, Jean G. A. M. J.: See—  
Blanchet, Andre F. M., and Meyer. 2,898,002.
- Meyer, John E.: See—  
Sheffer, Howard E., and Meyer. 2,889,304.
- Meyer, Kenneth H.: See—  
Chessman, Samuel C., and Meyer. 2,901,677.
- Meyer, Konrad, G. Hummel, H. Ewert, and E. G. Hofmann, to Licentia Patent-Verwaltungs-G.m.b.H. High power X-ray tube with membrane anode. 2,905,841, 9-22-59, Cl. 313-55.
- Meyer, Kurt: See—  
Jacob, Ernst, Meyer, and Sommer. 2,913,447.
- Meyer, Kurt, to Metallgesellschaft Akt. Granulating or pelleting discs. 2,876,491, 3-10-59, Cl. 18-1.
- Meyer, Kurt, to Dravo Corp. Apparatus for transferring material from a higher to a lower level. 2,913,761, 11-24-59, Cl. 18-1.
- Meyer, Lambert: See—  
Sennewald, Kurt, Pohl, Vogt, Meininger, Meyer, Glaser, and Steil. 2,918,141.
- Meyer, Laurence M., to Independent Lock Co. Exit door and latch mechanism therefor. 2,887,336, 5-19-59, Cl. 292-21.
- Meyer, Leonard S., to Parallel Products Co. Archery arrow. 2,882,055, 4-14-59, Cl. 273-106.5.
- Meyer, Leonard S., to Parallel Products Co. Archery arrow. 2,891,794, 6-23-59, Cl. 273-106.5.
- Meyer, Leonard S., and G. A. Shira, to Parallel Products Co. Archery bow reel. 2,873,929, 2-17-59, Cl. 242-85.1.
- Meyer, Louis C. Electric locks. 2,868,905, 1-13-59, Cl. 200-42.
- Meyer, Maurice A.: See—  
Ostroff, Edward D., and Meyer. 2,902,609.
- Meyer, Maurice A., to Laboratory for Electronics, Inc. Multiplier employing amplitude modulation. 2,902,218, 9-1-59, Cl. 235-194.
- Meyer, Maurice A., to Laboratory For Electronics, Inc. Selective circuit. 2,909,656, 10-20-59, Cl. 250-27.
- Meyer, Maurice A., and B. M. Gordon, to Laboratory For Electronics, Inc. Pulse rate multiplier. 2,910,237, 10-27-59, Cl. 235-164.
- Meyer Mfg. Co.: See—  
Cheng, Wing G. 2,900,493.
- Meyer Mfg. Co. Ltd.: See—  
Cheng, Wing G. 2,900,494.
- Meyer, Max: See—  
Meletio, John H., and Meyer. 2,906,850.
- Meyer, Paul H.: See—  
Byland, Henry L., and Meyer. 2,886,845.
- Meyer, Paul H., to U. S. Slicing Machine Co., Inc. Interleaving apparatus. 2,877,014, 3-10-59, Cl. 271-10.
- Meyer, Paul H., to U. S. Slicing Machine Co., Inc. Meat tenderizer knife roll assembly. 2,886,846, 5-19-59, Cl. 17-26.
- Meyer, Peter. Cam cutting machines. 2,872,852, 2-10-59, Cl. 90-134.
- Meyer, Peter. Machine for cutting master cams. 2,902,905, 9-8-59, Cl. 90-243.
- Meyer, Pierre: See—  
Drisch, Nicolas, and Meyer. 2,912,299.
- Meyer Products, Inc.: See—  
Meyer, Edward B. and E. T. 2,884,720.
- Meyer, Ralph J.: See—  
Lehman, Harry W., and Meyer. 2,886,758.
- Meyer, Ralph L., to The Rauland Corp. Photosensitive device. 2,879,362, 3-24-59, Cl. 201-63.
- Meyer, Richard C. Battleship game. 2,898,108, 8-4-59, Cl. 273-130.
- Meyer, Richard W., Jr., to Libbey-Owens-Ford Glass Co. Electro-optical computing device for surface areas. 2,910,908, 11-3-59, Cl. 88-14.
- Meyer, Robert, and D. Pillon, to Societe des Usines Chimiques Rhone-Poulenc. Preparation of benzophenone-azine. 2,870,206, 1-20-59, Cl. 260-566.
- Meyer, Robert A., to Amity Leather Products Co. Wing envelope holder assembly for pass case. 2,882,575, 4-21-59, Cl. 24-153.
- Meyer, Robert E., to United Aircraft Corp. Exhaust nozzle interflap seal. 2,910,829, 11-3-59, Cl. 60-35.6.
- Meyer, Robert E., and H. K. Noren, to United Aircraft Corp. Convergent-divergent variable area propulsion nozzle. 2,910,828, 11-3-59, Cl. 60-35.6.
- Meyer, Robert E., C. W. Bristol, Jr., and H. C. Gray, to United States of America, Navy. Igniter fuel injector device. 2,913,875, 11-24-59, Cl. 60-39.82.
- Meyer, Robert H., and A. K. Johnson, to The Dow Chemical Co. Removing sodium chlorate from solid sodium hydroxide. 2,889,204, 6-2-59, Cl. 23-184.
- Meyer, Roelf J., to North American Philips Co., Inc. Hot-gas reciprocating apparatus. 2,867,973, 1-13-59, Cl. 60-24.
- Meyer, Roelf J., to North American Philips Co., Inc. Hot-gas reciprocating machine of the displacer-piston type. 2,883,855, 5-12-59, Cl. 60-24.
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- Meyer, Saul: See—  
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- Meyer, Sylvanus: See—  
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- Meyer, Theodore F. W., to Equi-Flex Products, Inc. Pressure seal structure. 2,896,987, 7-28-59, Cl. 288-19.
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- Meyer, Walter R., to Enthone, Inc. Process for cleaning and plating ferrous metals. 2,915,444, 12-1-59, Cl. 204-145.
- Meyer, Walter W., R. J. Hicks, and L. N. Dolhun, to Muskegon Piston Ring Co. Seal. 2,888,280, 5-26-59, Cl. 286-11.
- Meyer-Wenthe, Inc.: See—  
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- Meyer, Wilfried, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. Photoflash lamp manufacture. 2,879,634, 3-31-59, Cl. 53-25.
- Meyer, William G., and M. Manson, to Steel Slides, Inc. Adjustable extension arm. 2,895,776, 7-21-59, Cl. 311-71.
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- Meyerer, Paul: See—  
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- Meyerhoefer, Carl E., to Lewyt Corp. Lugged-pipe type coupling with external sealing means. 2,912,261, 11-10-59, Cl. 285-7.
- Meyerhoff, Alfred: See—  
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- Meyers, Albert E.: *See—*  
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- Meyers, Arthur L., to Submarine Cables, Ltd. Submarine cables having anti kink armouring. 2,894,057, 7-7-59, Cl. 174—108.
- Meyers, Cal Y., to Union Carbide Corp. Calcium trimethylolphenate. 2,889,373, 6-2-59, Cl. 260—621.
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- Meyers, Irene H. Closet clothes protector. 2,899,081, 8-11-59, Cl. 211—180.
- Meyers, John S., to Stubnitz Greene Corp. Spring structure. 2,910,115, 10-27-59, Cl. 155—179.
- Meyers, Milton M. Combination horn and flashlight. 2,893,344, 7-7-59, Cl. 116—112.
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- Meyers, Robert L. Heating and hot water boiler. 2,904,014, 9-15-59, Cl. 122—33.
- Meyers, Willard F., to Fuller Mfg. Co. Automotive device. 2,918,832, 12-29-59, Cl. 74—785.
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- Meyerson, Seymour, and H. M. Grubb, to Standard Oil Co. Adjustable feedback system. 2,890,336, 6-9-59, Cl. 250—41.9.
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- Meynadier, Henri H. Method of and apparatus for distributing the charge in blast furnaces. 2,886,306, 5-12-59, Cl. 266—27.
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- Mezzack, Joseph, to General Electric Co. Clamping arrangement for high voltage bushing. 2,878,304, 3-17-59, Cl. 174—167.
- Miaskoff, Leonard, to Davidson Corp. Clutch for printing machine. 2,893,730, 7-7-59, Cl. 271—26.
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- Mick, Richard. Tool. 2,899,003, 8-11-59, Cl. 172—371.
- Miceli, Ann A. Compartmented purse insert. 2,911,024, 11-3-59, Cl. 150—34.
- Michael, Harold E., to Northrop Aircraft, Inc. Convex panel wing construction. 2,881,994, 4-14-59, Cl. 244—124.
- Michael, John G. Badges. 2,885,804, 5-12-59, Cl. 40—1.5.
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- Michael, Sidney J.: *See—*  
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- Michaelis, John L., to Columbia-Southern Chemical Corp. Novel apparatus. 2,881,383, 4-7-59, Cl. 321—27.
- Michaelis, Otto. Furnace for burning of waste material. 2,895,433, 7-21-59, Cl. 110—8.
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- Michaels, Frank L., Sr. 2,916,127.
- Michaels, Edwin B., to The Stamford Chemical Co. Water repellent composition and article coated therewith. 2,913,427, 11-17-59, Cl. 260—27.
- Michaels, Frank L., Sr., to The Michaels Art Bronze Co., Inc. Parking meter mechanism. 2,916,127, 12-9-59, Cl. 194—61.
- Michaels, Franklin, to Hagan Chemicals & Controls, Inc. Electronic regulating circuits provided with feed-back of output to input. 2,917,696, 12-15-59, Cl. 321—2.
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- Michal, Eugene J., and R. R. Porter, to United States of America, Atomic Energy Commission. Recovery of uranium values from uranium bearing raw materials. 2,890,933, 6-16-59, Cl. 23—14.5.
- Michal, William C., and W. J. Tesche, said Michal to Bell Telephone Laboratories, Inc. and said Tesche to Western Electric Co., Inc. Method of making copper oxide rectifiers. 2,879,582, 3-31-59, Cl. 29—25.3.
- Michalak, Stanley A., and J. E. Imonetti, to Symons Clamp & Mfg. Co. Scaffold bracket assembly for concrete forms. 2,882,101, 4-14-59, Cl. 304—14.
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- Michalek, John C. Preparation of 2,8-dichloro-alpha-bromoethylbenzene and hydrolysis thereof to 2,8-dichlorophenyl methyl carbinol. 2,916,523, 12-8-59, Cl. 260—618.
- Michaletz, Martin J. Grit distributor for automobiles. 2,904,363, 9-15-59, Cl. 291—19.
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- Michatek, Stephen F., C. J. Hughey, and J. E. Ferris, to Eastman Kodak Co. Automatic shutter actuating and film advance mechanism. 2,908,208, 10-13-59, Cl. 95—31.
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- Michel, Robert G., to Allis-Chalmers Mfg. Co. Flooded bearing seal for gas-filled machines. 2,899,245, 8-11-59, Cl. 308—36.3.
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- Michel, Walter S.: *See—*  
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- Michelitsch, Walter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Evaporation of aqueous urea solutions. 2,916,516, 12-8-59, Cl. 260—555.
- Michell, Richard B., 1/2 to The Decca Record Co. Ltd. Navigational apparatus. 2,914,853, 12-1-59, Cl. 33—1.
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- Michels, Lawrence, to Gillilan Bros. Inc. Doubly variable signal comparison method and apparatus for generating pulses representing a cursor line. 2,887,681, 5-19-59, Cl. 343—100.
- Michelson, Louis. Anchor ejecting moored mine. 2,892,401, 6-30-59, Cl. 102—14.



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- Michie, John S., to Robbins & Myers, Inc. Change speed device. 2,896,480, 7-28-59, Cl. 74-798.
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- Mickel, Walter O. Poultry house cleaning device. 2,879,907, 3-31-59, Cl. 214-93.
- Mickelson, Chester L. Differential for motor vehicles. 2,898,779, 8-11-59, Cl. 74-711.
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- Rively, Clair M., and Midgley. 2,903,561.
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- Midland Chemical Co., The: *See*—
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Chase, Corson W. 2,915,009.  
Chase, Corson W., and Krueger. 2,895,187.  
McArthur, Donald W. 2,892,295.  
McWhorter, Henry L. 2,873,113.  
McWhorter, Henry L., and Montgomery. 2,906,529.  
Montgomery, Elmer M. 2,888,262.  
Peyrebrune, Henri E. 2,898,851.  
Peyrebrune, Henri E. 2,906,528.  
Tyma, Louis S., Jr., and Gvezdjak. 2,909,829.  
Williams, Leo C. 2,898,937.
- Miehle, William, to Burroughs Corp. Magnetic core shift register counter. 2,896,848, 7-28-59, Cl. 235-167.
- Miehle, William, to Burroughs Corp. Logical magnetic circuits. 2,905,833, 9-22-59, Cl. 307-88.
- Mielke, Elmer H. Trailer hitch. 2,890,898, 6-16-59, Cl. 280-508.
- Mielke, Karl-Heinz: *See*—  
Bunge, Wilhelm. Mielke, and Möller. 2,886,555.
- Mielke, Ralph T.: *See*—  
Ellis, David H., and Mielke. 2,909,801.
- Mielke, William A., and L. R. Amend. Anti-kick attachment for dairy stanchions. 2,904,005, 9-15-59, Cl. 119-96.
- Mier, Ferdinand A., to Knight Newspapers, Inc. Machine for pre-registering stereotype color mats. 2,900,735, 8-25-59, Cl. 33-184.5.
- Mierendorf, Robert C. to Square D Co. Electric welder control system. 2,873,421, 2-10-59, Cl. 323-58.
- Mierendorf, Robert C., and C. F. Meyer, to Square D Co. Metal detectors. 2,915,699, 12-1-59, Cl. 324-41.
- Mierendorf, Robert C., and C. W. Porter, to Square D Co. Timing circuits. 2,919,385, 12-29-59, Cl. 317-142.
- Miers, Archie M.: *See*—  
Adler, Franklin P., Hunt, and Miers. 2,911,925.
- Miesch, Camille, and B. Baumann, to Societe Alsacienne de Constructions Mecaniques. Textile drafting apparatus. 2,890,495, 6-16-59, Cl. 19-134.
- Miesel, Ross A. Apparatus for punching cards. 2,869,641, 1-20-59, Cl. 164-111.
- Miessen, Walter, to J. and C. Monforts, trading as the firm A. Monforts. Napping machines. 2,876,523, 3-10-59, Cl. 26-35.
- Mietzsch, Fritz: *See*—  
Bruning, Eberhard F., Domagk, and Mietzsch. 2,888,379.  
Hiltmann, Rudolf, Mietzsch, and Kaemmerer. 2,914,552.
- Mieville, Andre A.: *See*—  
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- Migeot, Albert C.: *See*—  
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- Mighty Mover Corp.: *See*—  
Clifton, Chester C. 2,896,803.
- Migneault, Romuald, and F. W. Sashless window clamping means. 2,900,679, 8-25-59, Cl. 20-52.
- Mihail, Alexandre: *See*—  
Paris, Francois G., Salmon, Mihail, Baraut, and Bertin. 2,878,790.
- Mihal, Dan J.: *See*—  
Wormley, James D., and Mihal. 2,885,900.
- Mihalek, Emery, to Hershey Mfg. Co. Machine for vending cartons or other articles. 2,905,360, 9-22-59, Cl. 221-9.
- Mihalek, Emery, and C. Szyper, to Hershey Mfg. Co. Automatic lock for dispensing machine. 2,886,207, 5-12-59, Cl. 221-206.
- Mihalik, Michael. Ice skate attachment. 2,917,315, 12-15-59, Cl. 280-11.12.
- Mihanowich, Stanley, to Sperry Rand Corp. Electrical machine element and method of making same. 2,917,643, 12-15-59, Cl. 310-42.
- Mihulka, Victor. Electrically heated jewel setting appliance. 2,889,727, 6-9-59, Cl. 81-6.
- Millie, Walter V., to E. Roe d.b.a. Coast Wire Co. Portable wire tying tool. 2,907,356, 10-6-59, Cl. 140-93.
- Mika, Daniel F., and D. A. Daugherty, to Precision Metal-smith, Inc. Induction heater control. 2,868,902, 1-13-59, Cl. 200-10.77.
- Mika, Thomas F.: *See*—  
Fischer, Rudolph F., and Mika. 2,895,945.
- Mika, Thomas F., to Shell Development Co. Rubber vulcanization using pentaalkyl-substituted tetrahydropyrimidines as accelerators. 2,871,211, 1-27-59, Cl. 260-23.7.
- Mika, Thomas F., to Shell Development Co. Curing polyalkyleneether polyurethanes with aromatic diisocyanates. 2,904,535, 9-15-59, Cl. 260-77.5.
- Mikesell, Keith L. Compass. 2,909,845, 10-27-59, Cl. 33-222.
- Mikesell, Richard M., to United States of America, Navy. Terminal means for toroidal electromagnetic devices. 2,906,978, 9-29-59, Cl. 336-192.
- Mikeska, Denny K. Tool for applying and removing threaded cylinder locks. 2,906,148, 9-29-59, Cl. 81-3.
- Mikeska, Louis A.: *See*—  
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- Mikeska, Louis A., to Esso Research and Engineering Co. Halomethylation of aromatic compounds. 2,873,299, 2-10-59, Cl. 260-65.1.
- Mikeska, Louis A., C. L. Read, and W. M. Basch, to Esso Research and Engineering Co. Process for producing highly refined petroleum oils. 2,882,220, 4-14-59, Cl. 208-95.
- Miki, Takuichi, and Y. Hara, to Takeda Pharmaceutical Industries, Ltd. Quaternary ammonium acyl derivatives of vitamin A aldehyde hydrazones. 2,891,068, 6-16-59, Cl. 260-295.
- Miki, Takuichi, and Y. Hara, to Takeda Pharmaceutical Industries, Ltd. Vitamin A aldehyde derivatives and production thereof. 2,891,081, 6-16-59, Cl. 260-404.5.
- Mikitka, John: *See*—  
Andreotti, Eugene R., and Mikitka. 2,913,819.
- Mikos, John J., to S & C Electric Co. Switch construction. 2,917,608, 12-15-59, Cl. 200-146.
- Mikos, John J., to S & C Electric Co. Switch construction. 2,917,609, 12-15-59, Cl. 200-146.
- Mikos, John J., to S & C Electric Co. Switch construction. 2,918,556, 12-22-59, Cl. 200-169.
- Miksak, James J.: *See*—  
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- Mikulas, William: *See*—  
Ulrich, Frederick, and Mikulas. 2,892,231.
- Milanese, William A., Jr.: *See*—  
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- Milan-Kamski, Wojlaw J., to Burroughs Corp. Glow tube storage circuits. 2,896,119, 7-21-59, Cl. 315-84.6.
- Milbourne, Charles G., to The United Gas Improvement Co. Method for the catalytic conversion of hydrocarbons. 2,868,632, 1-13-59, Cl. 48-214.
- Milbourne, Charles G., to The United Gas Improvement Co. Method for catalytic conversion hydrocarbons. 2,893,853, 7-7-59, Cl. 48-211.
- Milburn, Richard B. Superstructures for kiln trucks. 2,879,577, 3-31-59, Cl. 25-142.
- Milenbach, Hermance: *See*—  
Rowley, Lothair H., and Milenbach. 2,902,547.
- Milenkevich, Joseph A., and J. E. Henjum, to The Procter & Gamble Co. Method for preparing detergent compositions. 2,895,916, 7-21-59, Cl. 252-99.
- Miles, Charlie A.: *See*—  
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- Miles, Charlie A., and L. B. Swanner, to Alamance Industries, Inc. Apparatus for handling hosiery. 2,898,021, 8-4-59, Cl. 223-75.
- Miles, Charlie A., and L. B. Swanner, to Alamance Industries, Inc. Actuating mechanism for stitch severing devices. 2,898,022, 8-4-59, Cl. 223-75.
- Miles, Dickerson P.: *See*—  
Mengel, Clare L., and Miles. 2,900,595.
- Miles, Elburt S.: *See*—  
Hendrix, Hursel V., and Miles. 2,880,587.
- Miles, Elburt S., to Phillips Petroleum Co. Underground storage system and method of operating. 2,883,833, 4-28-59, Cl. 61-5.
- Miles, Elburt S., and E. W. Porter, to Phillips Petroleum Co. Pump intake apparatus. 2,884,761, 5-5-59, Cl. 61-5.
- Miles, Everett G. Differential transmission. 2,869,399, 1-20-59, Cl. 74-711.
- Miles, Francis T.: *See*—  
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- Miles, George G., and J. McMackin, to Brockway Glass Co., Inc. Automatic inspection apparatus for glass containers and the like. 2,902,151, 9-1-59, Cl. 209-111.
- Miles, George N.: *See*—  
MacCracken, Calvin D., and Miles. 2,889,116.
- Miles, George T., to International Business Machines Corp. Automatic line selector. 2,875,883, 3-8-59, Cl. 197-133.
- Miles, Gilbert D., to Colgate-Palmolive Co. Detergent briquette and process for the production thereof. 2,875,155, 2-24-59, Cl. 252-138.
- Miles, James B. Loose leaf binder. 2,889,831, 6-9-59, Cl. 129-1.
- Miles, James G., and R. M. Kalb, to Sperry Rand Corp. Inventory digital storage and computation apparatus. 2,910,238, 10-27-59, Cl. 235-167.
- Miles, John H., Jr. Golfing hand grip. 2,867,814, 1-13-59, Cl. 2-20.
- Miles, John J., Jr.: *See*—  
Pader, Morton, Hamilton, Miles, and McCrimlisk. 2,874,049.
- Miles, John R., to Chicago Aerial Industries, Inc. Optical sighting lens systems. 2,893,290, 7-7-59, Cl. 88-57.
- Miles, John R., to White-Rodgers Co. Optical objective. 2,894,431, 7-14-59, Cl. 88-57.
- Miles Laboratories, Inc.: *See*—  
Adams, Ernest C., Jr. 2,893,843.  
Centolilla, Albert P. 2,873,295.  
Cook, Marion H. 2,893,844.  
Fancher, Otis E., and Nichols. 2,899,359.  
Free, Helen M. 2,912,309.  
Hathaway, Robert J. 2,918,492.  
Langenberg, Robert J. 2,904,589.  
Schweiger, Leonard B. 2,916,420.  
Underkofler, Leland A. 2,904,442.



- Miles, Robert L., and W. Dawson. Respirator. 2,894,508, 7-14-59, Cl. 128-146.
- Miles, Thomas O., Jr. Wire hangers for concrete members. 2,900,684, 8-25-59, Cl. 20-94.
- Miles, Walter L. Tie-rod for concrete forms. 2,887,757, 5-26-59, Cl. 25-131.
- Miles, William E.: *See*—  
Cluck, John M., Jr., and Miles. 2,913,132.
- Miley, Donald C. Fluid operated time cycle controller. 2,904,011, 9-15-59, Cl. 121-48.
- Miley, Hunter, to L. Sonneborn Sons, Inc. Thermal decomposition of sludges. 2,897,054, 7-28-59, Cl. 23-177.
- Miley, Walter M., S. B. Hughes, and R. L. High, to National Industrial Products Co. Composition of matter and method of making. 2,876,125, 3-3-59, Cl. 106-213.
- Milgrom, Hymen T.: *See*—  
Heuboski, Walter J., and Milgrom. 2,875,755.
- Milik, Rudolf. Long wall mining apparatus having a seam embracing channel. 2,891,778, 6-23-59, Cl. 262-29.
- Milinchuk, William J.: *See*—  
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- Militano, Vincent, to The Finkel Umbrella Frame Co., Inc. Self-opening umbrellas. 2,906,277, 9-29-59, Cl. 135-22.
- Militano, Vincent, to The Finkel Umbrella Frame Co., Inc. One-hand opening and closing umbrellas. 2,917,060, 12-15-59, Cl. 135-22.
- Milius, Howard: *See*—  
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- Miljam Instrument Corp.: *See*—  
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- Millam, Bruce V. Aircraft control system. 2,912,191, 11-10-59, Cl. 244-48.
- Millane, James J., to The Distillers Co. Ltd. Compositions of polystyrene and natural rubber/methyl methacrylate graft copolymers and process of producing same. 2,891,018, 6-16-59, Cl. 260-4.
- Millar, Gerald W. Intravaginal obturating device. 2,893,385, 7-7-59, Cl. 128-131.
- Millar, Gordon H., to Ford Motor Co. Motor vehicle. 2,916,098, 12-8-59, Cl. 180-66.
- Millar, John, Jr. Coupling for tubing. 2,881,017, 4-7-59, Cl. 287-54.
- Millar, John F., to Charles E. Frosst & Co. Enteric coated product. 2,897,122, 7-28-59, Cl. 167-82.
- Millar, Norval P., to General Electric Co. Electrical measuring instrument. 2,883,624, 4-21-59, Cl. 324-150.
- Millar, Norval P., and E. W. Clark, to General Electric Co. Adjustable electrical measuring and indicating instrument. 2,903,647, 9-8-59, Cl. 324-151.
- Millar, Robert E.: *See*—  
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- Millar, William M.: *See*—  
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- Millard, Ralph S., to Steel Partitions, Inc. Panel units. 2,914,147, 11-24-59, Cl. 189-34.
- Millard, Thomas E., to Thompson Ramo Wooldridge Inc. Mold heating and casting pot. 2,903,760, 9-15-59, Cl. 22-74.
- Millard, William J., Jr. Audience reaction measuring system. 2,878,996, 3-24-59, Cl. 235-52.
- Millburn, John R., to North American Philips Co., Inc. Electric transmission line. 2,917,655, 12-15-59, Cl. 315-3.5.
- Millea, Michael F., and J. B. Holland, to Pacific Semiconductors, Inc. Voltage sensitive semiconductor capacitor. 2,908,851, 10-13-59, Cl. 317-236.
- Millendorf, Alfred J.: *See*—  
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- Miller, Aaron, and A. L. Magnuson, to Kelco Co. Method of making paper and paper-making composition. 2,913,364, 11-17-59, Cl. 162-178.
- Miller, Abe, to Miller Laundry Machinery Co. Centrifugal laundry extractor machine. 2,867,329, 1-6-59, Cl. 210-360.
- Miller, Abe, to Miller Laundry Machinery Co. Operating units for extractor covers. 2,889,068, 6-2-59, Cl. 220-36.
- Miller, Abe, to Miller Laundry Machinery Co. Bottom dump sling and container for laundry extractors. 2,904,183, 9-15-59, Cl. 210-237.
- Miller, Adolph. Metal plating bath. 2,872,346, 2-3-59, Cl. 117-65.
- Miller, Albert A. Boat lowering device. 2,891,262, 6-23-59, Cl. 9-34.
- Miller, Albert D.: *See*—  
Durfée, Benjamin M., and Miller. 2,867,790.
- Miller, Alexander A., to General Electric Co. Cellulosic materials. 2,895,891, 7-21-59, Cl. 204-154.
- Miller, Alexander A., to General Electric Co. Polyethylene. 2,897,092, 7-28-59, Cl. 117-47.
- Miller, Alexander A., to General Electric Co. Method of producing cross-linked polyvinyl alcohol. 2,897,127, 7-28-59, Cl. 204-154.
- Miller, Alexander A., and F. R. Mayo, to General Electric Co. Method of preparing polymeric peroxides. 2,911,436, 11-3-59, Cl. 260-485.
- Miller, Alfred J., to Union Carbide Corp. Thermochemical desurfacing head. 2,897,883, 8-4-59, Cl. 158-27.4.
- Miller, Alfred L., and V. A., to International Latex Corp. Stable latex of an interpolymers of a conjugated diene, an unsaturated nitrile, and an alpha-unsaturated acrylic acid, and method of preparation. 2,880,189, 3-31-59, Cl. 260-29.7.
- Miller, Alfred L., L. R. McNall, and J. Rehner, Jr., to Esso Research and Engineering Co. Method for identifying rubber. 2,904,693, 9-15-59, Cl. 250-106.
- Miller, Allyn C. Fluid pump or motor. 2,918,018, 12-22-59, Cl. 103-148.
- Miller, Arthur, and H. Arslan, to Sanborn Co. Electric meter. 2,879,477, 3-24-59, Cl. 324-142.
- Miller, Arthur A., to A. A. Miller and L. C. Casanov. Grinding wheels. 2,881,572, 4-14-59, Cl. 51-191.
- Miller, Arthur A., to A. A. Miller and L. C. Casanov. Grinding wheels. 2,887,832, 5-26-59, Cl. 51-191.
- Miller, Arthur E.: *See*—  
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- Miller, Arthur L., to United States of America, Air Force. Metal specimen holder. 2,908,118, 10-13-59, Cl. 51-235.
- Miller, Arthur S. Roll-up enclosing device. 2,884,980, 5-5-59, Cl. 150-39.
- Miller, Arthur S. Collapsible tubular semi-rigid rod. 2,905,282, 9-22-59, Cl. 189-34.
- Miller, Arthur S. Surveyor's levelling rod tape clamp. 2,909,839, 10-27-59, Cl. 33-74.
- Miller, August L., R. S. Brown, and R. A. Rusca, to United States of America, Agriculture. Carding apparatus. 2,879,549, 3-31-59, Cl. 19-104.
- Miller, Benjamin F., to Artistic Wire Products Co., Inc. Storage rack. 2,891,676, 6-23-59, Cl. 211-41.
- Miller, Bonnie C.: *See*—  
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- Miller, Bruce D., G. W. Reigel, J. P. Bolanowski, and H. W. Beavaly, to Chemetron Corp. Apparatus for processing violently mixed flowable materials. 2,898,092, 8-4-59, Cl. 259-10.
- Miller, Burton F., and W. H. Fiden, to Thompson Ramo Wooldridge Inc. Recorder mechanism. 2,893,810, 7-7-59, Cl. 346-74.
- Miller, Calvin K., to Soss Mfg. Co. Door check and hold open. 2,890,477, 6-16-59, Cl. 16-140.
- Miller, Carl A., to Librascope, Inc. Converter. 2,873,441, 2-10-59, Cl. 340-347.
- Miller, Carl A., to Economics Laboratory, Inc. Check valve. 2,912,002, 11-10-59, Cl. 137-541.
- Miller, Carl A., to Economics Laboratory, Inc. Calibrated injection pump. 2,916,998, 12-15-59, Cl. 103-38.
- Miller, Carl D., to The Cooper Bessemer Corp. Control device. 2,918,826, 12-29-59, Cl. 74-411.
- Miller, Carl F., to Westinghouse Electric Corp. Grid electrodes for electric discharge devices. 2,897,395, 7-28-59, Cl. 313-350.
- Miller, Carl F., to Westinghouse Electric Corp. Electrical discharge tube. 2,909,700, 10-20-59, Cl. 313-257.
- Miller, Carl F., and W. H. McCurdy, to Westinghouse Electric Corp. Electron discharge device. 2,892,119, 6-23-59, Cl. 313-278.
- Miller, Carl F., W. H. McCurdy, and E. A. Lederer, to Westinghouse Electric Corp. Electron discharge device. 2,907,911, 10-6-59, Cl. 313-252.
- Miller, Carl F., E. F. Smart, and G. R. Feaster, to Westinghouse Electric Corp. Grid electrodes for electron discharge devices. 2,909,200, 10-20-59, Cl. 140-71.5.
- Miller, Carl F., and E. F. Smart, to Westinghouse Electric Corp. Compacted heater for electronic tubes. 2,913,805, 11-24-59, Cl. 29-25.14.
- Miller, Carl P., and A. Jamieson, to The Texas Co. Plate holding microphotometer attachment. 2,869,418, 1-20-59, Cl. 88-14.
- Miller, Carl S.: *See*—  
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- Miller, Carl S., to Minnesota Mining & Mfg. Co. Heat-sensitive copying paper. 2,880,110, 3-31-59, Cl. 117-36.
- Miller, Carlos O.: *See*—  
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- Miller, Carroll de V.: *See*—  
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- Miller, Carroll E., to Cone Automatic Machine Co., Inc. Indexing mechanism. 2,868,032, 1-13-59, Cl. 74-436.
- Miller, Carroll E., to Cone Automatic Machine Co., Inc. Cross slide milling attachment. 2,908,202, 10-13-59, Cl. 90-16.
- Miller, Charles, and P. Romanelli, to Ram Domestic Products Co. Electrical timing device and improved switch means therefor. 2,889,419, 6-2-59, Cl. 200-38.
- Miller, Charles B.: *See*—  
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- Miller, Charles B., and C. Woolf, to Allied Chemical Corp. Production of halofluoroacetone hydrate. 2,870,211, 1-20-59, Cl. 260-593.
- Miller, Charles E., to Radio Corp. of America. Automatically controlled signal receivers. 2,876,344, 3-3-59, Cl. 250-20.
- Miller, Charles E., M. L. Robinson, and W. B. Woodring, to Olin Mathieson Chemical Corp. Metallic shotshell. 2,897,758, 8-4-59, Cl. 102-42.
- Miller, Charles F., to Wildman Jacquard Co. Pattern means for knitting machine. 2,883,841, 4-28-59, Cl. 66-156.
- Miller, Charles F., and T. C. Lyster, to Wildman Jacquard Co. Means for transferring loops in knitting machines. 2,895,317, 7-21-59, Cl. 66-24.
- Miller, Charles G.: *See*—  
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- Miller, Charles H., to S. E. Opperman Ltd. Amplifying devices for telephone hand-sets. 2,891,110, 6-16-59, Cl. 179-1.
- Miller, Charles J., to Charles Justin Miller. Combination back-rests and bag structures. 2,868,274, 1-13-59, Cl. 155-154.



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- Miller, Charles W., to General Motors Corp. Pulse actuated light controlled switching means. 2,876,395, 3-3-59, Cl. 317-130.
- Miller, Clare K.: *See*—  
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- Miller, Clark O.: *See*—  
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- Miller, Clark O., to The Lubrizol Corp. Process for modification of olefin polymers. 2,900,378, 8-18-59, Cl. 260-139.
- Miller, Clyde F.: *See*—  
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- Miller Co., The: *See*—  
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- Hendrix, Sylvan G., and Miller. 2,887,164.
- Miller, Daniel B., to Miller Electric Co. Finger pull wall plug. 2,869,096, 1-13-59, Cl. 339-62.
- Miller, Daniel R.: *See*—  
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- Miller, Daniel R., G. T. Seaborg, and S. G. Thompson, to United States of America, Atomic Energy Commission. Uranous iodate as a carrier for plutonium. 2,917,358, 12-15-59, Cl. 23-14.5.
- Miller, David B., to General Electric Co. Apparatus for and method of cooling beam transmitting windows. 2,898,492, 8-4-59, Cl. 313-74.
- Miller, David D.: *See*—  
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- Miller, Delmar S.: *See*—  
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- Miller, Donald: *See*—  
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- Miller, Donald B.: *See*—  
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- Miller, Donald L., to Bendix Aviation Corp. Centrifugally controlled overrunning transmission. 2,919,001, 12-29-59, Cl. 192-104.
- Miller, Donald S.: *See*—  
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- Miller, Durando, Jr.: *See*—  
Boehner, Harry L., and Miller. 2,879,891.
- Miller, Earle C., to Riley Stoker Corp. Coal pulverizing apparatus. 2,894,696, 7-14-59, Cl. 241-43.
- Miller, Earle C., to Riley Stoker Corp. Fuel burning apparatus. 2,895,436, 7-21-59, Cl. 110-165.
- Miller, Edward A., to Fenestra Inc. System of building construction. 2,916,909, 12-15-59, Cl. 72-66.
- Miller, Edward E., to United States of America, Navy. Collision course fire control system. 2,879,502, 3-24-59, Cl. 343-7.
- Miller, Edward E., and F. Stowell. Manually operated folding panel. 2,897,887, 8-4-59, Cl. 160-97.
- Miller, Edward J. Fishing bobber. 2,881,552, 4-14-59, Cl. 43-44.91.
- Miller, Edward L. Captive collet, tie-on control knob. 2,906,550, 9-29-59, Cl. 287-53.
- Miller, Edwin J., and K. K. Kesling, to General Motors Corp. Refrigerating apparatus with magnetic latch. 2,871,676, 2-3-59, Cl. 62-264.
- Miller, Eldon F., to E. E. White. Motor-driven vehicles with refrigerating apparatus. 2,910,840, 11-3-59, Cl. 62-209.
- Miller Electric Co.: *See*—  
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- Miller Electric Mfg. Co.: *See*—  
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Mulder, Allan C. 2,891,210.
- Miller, Elmer C., to Phillips Petroleum Co. Optical analyzer for fluids. 2,885,922, 5-12-59, Cl. 88-14.
- Miller, Elmer C., to Phillips Petroleum Co. Separation of fluid mixtures. 2,890,571, 6-16-59, Cl. 62-37.
- Miller, Elmer C., to Phillips Petroleum Co. Fractionator indicating and control method. 2,900,334, 8-18-59, Cl. 208-350.
- Miller, Elmer L.: *See*—  
Folkins, Hillis O., and Miller. 2,910,506.
- Miller, Elmer L. Hydraulic grapple loader. 2,883,230, 4-21-59, Cl. 294-88.
- Miller, Elmer L., and H. O. Folkins, to The Pure Oil Co. Process and catalyst for the isomerization of hydrocarbons. 2,918,509, 12-22-59, Cl. 260-683.65.
- Miller, Elvas A., and D. A. Johnson, to Reed Roller Bit Co. Erosible nozzle for roller bit. 2,900,171, 8-18-59, Cl. 255-313.
- Miller, Emery B.: *See*—  
Howard, Robert E., and Miller. 2,919,282.
- Miller, Ernest: *See*—  
Duvall, Harold A., and Miller. 2,917,083.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Method of and system for recovering H S from natural gas containing a high percentage of H S. 2,877,861, 3-17-59, Cl. 183-4.6.
- Miller, Ernest B., to Jefferson Lake Sulphur Co. Water heating system for providing hot water for sulphur mining. 2,889,683, 6-9-59, Cl. 60-39.57.
- Miller, Ernest B., and A. D. Sweet, to Jefferson Lake Sulphur Co. Method of and apparatus for flash separating hydrocarbons. 2,886,123, 5-12-59, Cl. 183-4.3.
- Miller, Ernest P., Sr.: *See*—  
Huge, Robert W. 2,899,805.
- Miller, Eugene, to Elgeet Optical Co., Inc. Turret attachment for photographic camera. 2,912,911, 11-17-59, Cl. 95-45.
- Miller, Eugene J. Flat bed trailer hitches. 2,872,059, 2-3-59, Cl. 214-506.
- Miller, Eugene M. Tool for repairing automotive transmissions. 2,887,923, 5-26-59, Cl. 82-4.
- Miller, Floyd F., and D. S. Conner, to Goodrich-Gulf Chemicals, Inc. Method of removing heavy metal catalyst from olefinic polymers by treatment with de-gassed water. 2,905,659, 9-22-59, Cl. 260-85.3.
- Miller, Frank C. Detachable antislip device. 2,888,754, 6-2-59, Cl. 36-7.7.
- Miller, Franklyn D.: *See*—  
Miller, Werner C., and Miller. 2,910,412.  
Stretton, Thomas E., and Miller. 2,916,428.
- Miller, Franklyn D., and D. P. Jenks, to National Distillers and Chemical Corp. Process for the manufacture of vinyl chloride. 2,896,000, 7-21-59, Cl. 260-656.
- Miller, Fred F., Jr. Constant velocity universal joint. 2,875,600, 3-3-59, Cl. 64-21.
- Miller, Fred F., Jr., to Dana Corp. Universal joint. 2,916,896, 12-15-59, Cl. 69-17.
- Miller, Frederick J. L.: *See*—  
Robinson, Joseph N., Miller, and McDonnell. 2,895,994.  
Robinson, Joseph N., Miller, and McDonnell. 2,899,433.
- Miller, George: *See*—  
Renz, Emil K., and Miller. 2,901,017.
- Miller, George A.: *See*—  
Florey, Howard W., Abraham, Newton, Burton, Kelly, Hall, and Miller. 2,883,328.
- Miller, George J. Floor polishing attachment for vacuum cleaners. 2,873,465, 2-17-59, Cl. 15-231.
- Miller, Gerald W. Chain saw gauge. 2,901,834, 9-1-59, Cl. 33-202.
- Miller, Gustave: *See*—  
Bergan, Christian K. 2,894,655.  
Blaine, Alfred C. 2,883,765.  
Earles, Louis A., Jr. 2,904,225.  
Hicks, Harold C. 2,904,274.  
Oden, Clifford N. 2,893,071.
- Miller, Gustave. Article of furniture collapsible to a plane position. 2,874,013, 2-17-59, Cl. 311-84.
- Miller, Guy D. Catalyst bed support. 2,899,286, 8-11-59, Cl. 23-288.
- Miller, Harold C.: *See*—  
Metzger, Leopold H., and Miller. 2,889,822.
- Miller, Harold, and H. Krigsman. Cleaning device. 2,871,497, 2-3-59, Cl. 15-244.
- Miller, Harold C., to Super-Cut, Inc. Diamond dressing tool assembly. 2,890,694, 6-16-59, Cl. 125-39.
- Miller, Harold C., to Super-Cut, Inc. Method of mounting diamonds in tool shanks and other holders. 2,896,477, 7-28-59, Cl. 76-101.
- Miller, Harold C. Device for bathing and dressing infants. 2,902,699, 9-8-59, Cl. 4-177.
- Miller, Harold C., to Super-Cut, Inc. Cassette and holder therefor for back reflection cameras. 2,904,688, 9-15-59, Cl. 250-68.
- Miller, Harold C., to Super-Cut, Inc. Diamond dressing tool assembly. 2,912,971, 11-17-59, Cl. 125-39.
- Miller, Harold E., to The American Pad & Textile Co. Flotation garment. 2,893,020, 7-7-59, Cl. 9-20.
- Miller, Harold G., to Racine Hydraulics and Machinery, Inc. Rail drill. 2,887,908, 5-26-59, Cl. 77-11.
- Miller, Harold G., to Racine Hydraulics and Machinery, Inc. Rail drill feed mechanism. 2,887,909, 5-26-59, Cl. 77-11.
- Miller, Harold J. Chair arms. 2,879,835, 3-31-59, Cl. 155-188.
- Miller, Harold L.: *See*—  
Baden, Thomas A., Olson, Miller, and Copp. 2,907,406.
- Miller, Harold M., to Whitin Machine Works. Stop motion device for a textile machine. 2,881,982, 4-14-59, Cl. 242-36.
- Miller, Harold R.: *See*—  
Lundy, Rodney B., and Miller. 2,917,069.
- Miller, Harry B.: *See*—  
Grant, Max L., and Miller. 2,884,188.
- Miller, Harry B., to Grant Development Co. Coin assorting mechanism for use in a multiple-coin fare collecting apparatus. 2,881,775, 4-14-59, Cl. 133-3.
- Miller, Harry B., to Universal Winding Co. Textile spindle. 2,918,782, 12-29-59, Cl. 57-130.
- Miller, Harry B., and E. J. Brouthers, to Universal Winding Co. Textile machine. 2,876,614, 3-10-59, Cl. 57-35.
- Miller, Harry C. Combination lock. 2,900,813, 8-25-59, Cl. 70-333.
- Miller, Harry C. Combination lock dial mechanism. 2,916,906, 12-15-59, Cl. 70-442.
- Miller, Harry C., J. L. Taylor, and H. M. McCoy. Security means for closure cabinets. 2,873,162, 2-10-59, Cl. 312-297.
- Miller, Harry C., Co.: *See*—  
Enikeieff, Oleg C. 2,879,316.  
Enikeieff, Oleg C. 2,913,689.
- Miller, Harry E. Universal joint. 2,904,975, 9-22-59, Cl. 64-17.



- Miller, Harry E., to W. M. Hale. Trolley wire tap and cable gripping means therefor. 2,911,611, 11-3-59, Cl. 339-109.
- Miller, Harry E. Drill. 2,918,954, 12-29-59, Cl. 145-125.
- Miller, Harry L. Turf plug cutter. 2,881,844, 4-14-59, Cl. 172-22.
- Miller, Harvey A., and H. Eisler, to Raytheon Mfg. Co. Magnetic amplifier pulse generators. 2,873,422, 2-10-59, Cl. 313-89.
- Miller, Henry C., and J. C. Grigger, to Pennsalt Chemicals Corp. Lead dioxide electrode. 2,872,405, 2-3-59, Cl. 204-290.
- Miller, Herbert J., M. M. Behles, and J. B. Clark, to United States of America, Navy. Quick release fastening apparatus. 2,904,366, 9-15-59, Cl. 292-300.
- Miller, Herman, Furniture Co.: See—
- Eames, Charles, Albinson, and Bauer. 2,893,469.
- Miller, Hobart G. Sheet container and dispenser. 2,904,214, 9-15-59, Cl. 221-43.
- Miller, Howard R., to Union Carbide Corp. Arc welding. 2,892,072, 6-23-59, Cl. 219-131.
- Miller, Hugh R.: See—
- Safranek, William H., and Miller. 2,905,603.
- Miller, Ivan, to Shaffer Tool Works. Insert seal kelly cock. 2,886,282, 5-12-59, Cl. 251-172.
- Miller, Ivan K., to E. I. du Pont de Nemours and Co. Chemical composition and process. 2,879,170, 3-24-59, Cl. 106-165.
- Miller, Jack. Fountain type lettering pen. 2,878,782, 3-24-59, Cl. 120-45.4.
- Miller, Jacob I.: See—
- Fischer, Valentine J., Miller, Sass, and Witten. 2,867,509.
- Miller, James A., to Borg-Warner Corp. Transmission. 2,886,983, 5-19-59, Cl. 74-759.
- Miller, James A., to Borg-Warner Corp. Transmission. 2,892,361, 6-30-59, Cl. 74-682.
- Miller, James A., to Clark Equipment Co. Five speed planetary transmission. 2,894,415, 7-14-59, Cl. 74-688.
- Miller, James G. Directory and clip board combination. 2,888,761, 6-2-59, Cl. 40-10.
- Miller, James R., to Esso Research and Engineering Co. Lubricating oil containing an alkaline earth metal sulfonate, a co-neutralized nonyl phenate, and a metal diamylthiocarbamate. 2,916,450, 12-8-59, Cl. 252-33.3.
- Miller, John. Hair cutting guide. 2,879,777, 3-31-59, Cl. 132-45.
- Miller, John C., to D. Menhenett. Method and apparatus for applying a coating. 2,888,176, 5-26-59, Cl. 222-396.
- Miller, John D., to Owens-Illinois Glass Co. Multi-ply carton construction. 2,908,436, 10-13-59, Cl. 229-15.
- Miller, John G., to Owens-Illinois Glass Co. Gob feeding of organic plastic materials. 2,894,285, 7-14-59, Cl. 18-30.
- Miller, John H.: See—
- Gilbert, Roswell W., and Miller. 2,896,166.
- Miller, John H., to Daystrom Inc. Test tube rack. 2,902,170, 9-1-59, Cl. 211-72.
- Miller, John H., and R. F. Estoppey, to Daystrom, Inc. Range change circuit for mutirange electrical instrument. 2,905,899, 9-22-59, Cl. 324-115.
- Miller, John R. Outlet box for wallboard. 2,885,106, 5-5-59, Cl. 220-3.6.
- Miller, Jones I. Book rack attachment for chairs. 2,897,976, 8-4-59, Cl. 211-113.
- Miller, Joseph: See—
- Pezza, Lazzaro and E. D., and Miller. 2,871,480.
- Miller, Joseph B. Compositions for liquefaction of respiratory secretions. 2,905,589, 9-22-59, Cl. 167-58.
- Miller, Joseph F. Suction fancy for carding cylinders. 2,878,525, 3-24-59, Cl. 19-98.
- Miller, Joseph V., to American Optical Co. Means and method for forming goggles or the like. 2,895,138, 7-21-59, Cl. 2-14.
- Miller, Julius, and D. Del Guidice, to Pharma-Chemical Corp. Diazoamine dye intermediates. 2,897,186, 7-28-59, Cl. 260-140.
- Miller, Kaiser H. Method of identifying fluids and their points of influx in a well. 2,909,923, 10-27-59, Cl. 73-155.
- Miller, Kenneth D., Sr.: See—
- Brown, Oliver J., Jr., and Miller. 2,918,069.
- Miller, Kenneth T. Cable sheath cutting tool. 2,902,759, 9-8-59, Cl. 30-91.
- Miller, Kenneth W. Combination vehicle wheel and brake drum. 2,889,173, 6-2-59, Cl. 301-6.
- Miller, Keith W., to The General Tire & Rubber Co. Vibration isolator with variable damping. 2,896,937, 7-28-59, Cl. 267-1.
- Miller Laundry Machinery Co.: See—
- Miller, Abe. 2,867,329.
- Miller, Abe. 2,889,068.
- Miller, Laurence W. Nasal suction device. 2,890,699, 6-16-59, Cl. 128-278.
- Miller, La Verne E., to Collins Radio Co. Linear tuning curve inductor. 2,897,464, 7-28-59, Cl. 336-136.
- Miller, Leland D. Orthopedic device. 2,871,852, 2-3-59, Cl. 128-80.
- Miller, Leon F., to The Osborn Mfg. Co. Oscillatory molding machine. 2,879,564, 3-31-59, Cl. 22-21.
- Miller, Leon F., and E. K. Hatch, to The Osborn Mfg. Co. Blow and squeeze molding machine. 2,908,950, 10-20-59, Cl. 22-36.
- Miller, Lester M., to General Motors Corp. Washing machine. 2,897,665, 8-4-59, Cl. 68-23.
- Miller, Lewis S.: See—
- Jorgensen, Kristen, Williams, and Miller. 2,888,359.
- Miller, Lloyd G., to United Shoe Machinery Corp. Welt shoe sewing machines. 2,898,875, 8-11-59, Cl. 112-52.
- Miller, Louis D., and H. R. McQuillen, to Radio Corp. of America. Mandrel for mechanically converged electron gun. 2,914,317, 11-24-59, Cl. 269-117.
- Miller Lubricator Co.: See—
- Harkenrider, Robert J. 2,910,330.
- Miller, Rudolph W., and Harkenrider. 2,910,331.
- Miller Mfg. Co.: See—
- Hare, Terence G. 2,879,025.
- Miller, Marion E., and J. H. Yoder, to Barler Metal Products, Inc. Cabinet. 2,869,953, 1-20-59, Cl. 312-263.
- Miller, Mary L., to American Cyanamid Co. Preparation of graft copolymers. 2,873,240, 2-10-59, Cl. 204-158.
- Miller, Matha M.: See—
- Albertine, Albert W., Miller, and Zaller. 2,877,970.
- Miller, Max W.: See—
- Bavley, Abraham, Knuth, and Miller. 2,902,465.
- Miller, Abe. 2,904,183.
- Miller, Meral O., 50% to J. L. Matheny, 25% to T. R. Snider, and 1% to Western Inventors. Engine exhaust muffler. 2,903,085, 9-8-59, Cl. 181-47.
- Miller, Merle L.: See—
- Harris, Kenneth J., and Miller. 2,890,603.
- Miller, Merritt L., to International Telephone and Telegraph Corp. Pulse selector circuit. 2,874,279, 2-17-59, Cl. 250-27.
- Miller, Meritt L., to Farnsworth Research Corp. Radio guidance system. 2,892,189, 6-23-59, Cl. 343-107.
- Miller, Nathaniel. Necktie manufacture. 2,893,013, 7-7-59, Cl. 2-146.
- Miller, Nicholas: See—
- Modes, Edward E., and Miller. 2,912,835.
- Miller, Nicholas, to The Dole Valve Co. Thermostatic snap acting switch. 2,867,704, 1-6-59, Cl. 200-140.
- Miller, Nicholas, to General Electric Co. Control device. 2,870,314, 1-20-59, Cl. 219-20.
- Miller, Nicholas, to General Electric Co. Control device. 2,889,432, 6-2-59, Cl. 200-140.
- Miller, Nicholas, to The Dole Valve Co. Automatic heat control apparatus for cooking. 2,891,125, 6-16-59, Cl. 200-137.
- Miller, Nicholas, to The Dole Valve Co. Combined drier cyclor and thermostat. 2,915,610, 12-1-59, Cl. 200-140.
- Miller, Nikoli. Shrimp processing machine. 2,884,657, 5-5-59, Cl. 17-2.
- Miller, Ohmer R., to Bell Telephone Laboratories, Inc. High impedance input circuit amplifier. 2,881,266, 4-7-59, Cl. 179-171.
- Miller, Ohmer R., to Bell Telephone Laboratories, Inc. High impedance multiplier probe. 2,884,597, 4-28-59, Cl. 324-149.
- Miller, Oscar E. Grain drill shoes. 2,884,880, 5-5-59, Cl. 111-85.
- Miller, Oscar E. Subsoil planting plows. 2,885,978, 5-12-59, Cl. 111-86.
- Miller, Paul C., C. E. Beers, and G. G. Stoner, to General Aniline & Film Corp. Viscosity hydraulic fluid. 2,905,642, 9-22-59, Cl. 252-73.
- Miller, Paul C., Jr., to Fibercraft Products, Inc. Evaporator plates. 2,904,258, 9-15-59, Cl. 239-53.
- Miller, Paul J.: See—
- Marette, Ralph T., and Miller. 2,910,305.
- Miller, Philip, to Alexander Smith Inc. Non-woven fabric. 2,917,421, 12-15-59, Cl. 154-48.
- Miller, Philip L., Sr. Garden rake with attachment for cleaning the teeth thereof. 2,874,530, 2-24-59, Cl. 56-400.1.
- Miller, Ralph E. Floor tile heater. 2,902,576, 9-1-59, Cl. 219-25.
- Miller, Ralph L.: See—
- Kock, Winston E., and Miller. 2,895,005.
- Miller, Raymond E.: See—
- Littleton, Charles W. 2,885,121.
- Miller, Raymond L. Wobble disc for fruit sizing machine. 2,879,888, 3-31-59, Cl. 209-104.
- Miller, Raymond S., to Aerojet-General Corp. Differential fluid pressure switch device. 2,895,025, 7-14-59, Cl. 200-83.
- Miller, Raymond V. Automatically controlled mechanism for applying electric shavers to the face. 2,916,819, 12-15-59, Cl. 30-34.
- Miller, Reuben V.: See—
- Ollig, John L., Hirsch, Miller, and Westerholm. 2,909,781.
- Miller, Richard: See—
- Hirschmann, Ralph F., and Miller. 2,885,412.
- Hirschmann, Ralph F., Wendler, and Miller. 2,906,780.
- Miller, Richard L., Jr.: See—
- Rigterink, Raymond H., Miller, and Silvernail. 2,885,306.
- Rigterink, Raymond H., Miller, and Silvernail. 2,885,307.
- Miller, Richard R. Radio pulse echo device with alarm actuated by selected echoes. 2,878,465, 3-17-59, Cl. 343-5.
- Miller, Richard S.: See—
- Alter, Henry W., Davidson, Miller, and Mewherter. 2,868,707.
- Miller, Robert A., to Sier-Bath Gear and Pump Co., Inc. Flexible coupling for shafts. 2,918,809, 12-29-59, Cl. 64-9.



- Miller, Robert C.: *See*—  
Nordquist, Richard A., Miller, Bukosky, and Lindgren. 2,889,450.  
Nordquist, Richard A., Miller, Bukosky, and Lindgren. 2,898,685.
- Miller, Robert E., and G. E. Bennett; said Bennett assor. to Monsanto Chemical Co. New polyhydroxy alcohols and polyesters and novel process of preparing such compounds. 2,875,241, 2-24-59, Cl. 260-488.
- Miller, Robert H., to International Harvester Co. Reversible disk plow. 2,916,097, 12-8-59, Cl. 172-212.
- Miller, Robert H., and G. G. Ward, to International Harvester Co. Reversible disk plow. 2,916,096, 12-8-59, Cl. 172-212.
- Miller, Robert M., J. R. Lodge, and M. C. Merwin, to Minnesota Mining and Mfg. Co. Roofing granules and method for making. 2,898,232, 8-4-59, Cl. 117-100.
- Miller, Robert O., and J. M. O'Toole, to United States of America, Air Force. Thrust bearing system. 2,875,001, 2-24-59, Cl. 308-35.
- Miller, Roy W., and A. W. Grant, to United States Rubber Co. Tire mold or the like. 2,896,281, 7-28-59, Cl. 22-203.
- Miller, Rudolph W., and R. J. Harkenrider, to Miller Lubricator Co. Journal box packing. 2,910,331, 10-27-59, Cl. 308-243.
- Miller, Russell L., to Bill Jack Scientific Instrument Co. Aviator's helmet. 2,867,813, 1-13-59, Cl. 2-6.
- Miller, Russell L., to Bill Jack Scientific Instrument Co. Process for molding two-layer polyurethane articles. 2,908,943, 10-20-59, Cl. 18-59.
- Miller, Solomon L.: *See*—  
Ebers, Jewell J., and Miller. 2,915,647.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Branching filter. 2,879,484, 3-24-59, Cl. 333-9.
- Miller, Stewart E., to Bell Telephone Laboratories, Inc. Non-reciprocal wave transmission. 2,884,604, 4-28-59, Cl. 333-24.
- Miller, Theodore: *See*—  
Krupar, Andrew P., and Miller. 2,875,375.
- Miller, Theodore, to Westinghouse Electric Corp. Color television picture tube and associated circuit. 2,879,325, 3-24-59, Cl. 178-54.
- Miller, Theodore, to Consolidated Electrodynamics Corp. Speed control. 2,867,436, 1-6-59, Cl. 271-2.6.
- Miller, Vance V. Portable electric hand drill. 2,911,841, 11-10-59, Cl. 74-342.
- Miller, Verle A.: *See*—  
Miller, Alfred L. and V. A. 2,880,189.
- Miller, Verle A., and R. O. Becker, to International Latex Corp. Emulsion polymerization with polybasic acid soap. 2,876,203, 3-3-59, Cl. 260-23.7.
- Miller, Verner M. Connecting clip. 2,867,302, 1-6-59, Cl. 189-35.
- Miller, Waldo S.: *See*—  
Bobo, Mildred E., and Miller. 2,887,789.
- Miller, Walter C.: *See*—  
Howard, Eugene L. 2,894,784.
- Miller, Walter E., to Clayton Mfg. Co. Conducting diaphragms. 2,903,406, 9-8-59, Cl. 204-296.
- Miller, Walter H., and F. Bower. Lockable electric plug. 2,885,650, 5-5-59, Cl. 339-91.
- Miller, Wendell S. Means and techniques for determining quality of milk. 2,898,549, 8-4-59, Cl. 324-30.
- Miller, Wendell S. Pliers with automatic fulcrum shift. 2,906,155, 9-29-59, Cl. 81-343.
- Miller, Wilbur A., and E. B. Gienger, Jr., to International Latex Corp. Forms for manufacture of deposited latex articles. 2,867,847, 1-13-59, Cl. 18-41.
- Miller, William, to United States of America, Navy. Method of reducing transient reverse current. 2,868,988, 1-13-59, Cl. 250-49.5.
- Miller, William B., to Radio Corp. of America. Device and method for film editing. 2,905,048, 9-22-59, Cl. 88-16.
- Miller, William E.: *See*—  
Noddings, Charles R., Miller, and Engelder. 2,905,608.
- Miller, William G., to Massey-Ferguson Inc. Baler feed mechanism. 2,885,953, 5-12-59, Cl. 100-142.
- Miller, William G., and L. M. Krause, to Massey-Ferguson Inc. Automatic coupling for power shafts on coupled vehicles. 2,869,660, 1-20-59, Cl. 180-14.
- Miller, William H.: *See*—  
Horton, Richard C., Miller, and Lydic. 2,867,891.
- Miller, William H., to Cloverleaf-Freeland Corp. Head and cap for bobbins or spools and method of securing same in place. 2,890,521, 6-16-59, Cl. 29-522.
- Miller, William H., to Cloverleaf-Freeland Corp. Bobbin and spindle construction. 2,890,566, 6-16-59, Cl. 57-129.
- Miller, William H., and M. R. Alexander, deceased (by J. E. Alexander, now J. Beretta, administratrix), to Owens-Corning Fiberglas Corp. Method for producing filamentary material. 2,910,383, 10-27-59, Cl. 117-102.
- Miller, William J.: *See*—  
Sieber, Charles B. 2,882,805.
- Miller, William L., to Continental Can Co., Inc. Bottom seam squeezer for paper cups. 2,911,890, 11-10-59, Cl. 93-55.1.
- Miller, William O. Educational device with multi-shaped blocks. 2,911,740, 11-10-59, Cl. 35-22.
- Miller, William P. Doctor blade and control means therefor. 2,915,421, 12-1-59, Cl. 134-6.
- Miller, William R.: *See*—  
Moulton, Joseph D., and Miller. 2,871,281.
- Miller, William S., to Denoyer-Geppert Co. Bracket means for displaying globes, maps, and the like from wall rails. 2,867,918, 1-13-59, Cl. 35-40.
- Miller, William T., to Minnesota Mining and Mfg. Co. Radical addition reactions of halogenated olefins and compounds produced thereby. 2,880,247, 3-31-59, Cl. 260-653.
- Miller, William T., to Minnesota Mining and Mfg. Co. Radical addition reactions of halogenated olefins and compounds produced thereby. 2,880,248, 3-31-59, Cl. 260-653.
- Miller, William T. Halocarbon polymers. 2,885,448, 5-5-59, Cl. 260-653.1.
- Miller, William T. Preparation of hexafluorobutadiene. 2,894,042, 7-7-59, Cl. 260-653.5.
- Miller, Yale M.: *See*—  
Klecker, Joseph G., Miller, Sieving, and Rediger. 2,869,382.
- Millers Falls Co.: *See*—  
Addis, Wendell A. 2,893,454.  
Moretti, Whitfield, and Pratt. 2,867,251.
- Millership, Ronald, to Elliott Brothers (London) Ltd. Electronic devices. 2,895,075, 7-14-59, Cl. 315-39.
- Millership, Ronald, and C. E. Owen. Apparatus for generating coded patterns of electric pulses. 2,914,757, 11-24-59, Cl. 340-347.
- Millerville, Carl H., to American Radiator & Standard Sanitary Corp. Switch actuating device. 2,911,509, 11-3-59, Cl. 200-172.
- Millet, Ira. Footpower vise. 2,892,369, 6-30-59, Cl. 81-17.
- Millett, Andrew F.: *See*—  
Masi, Frank J., and Millett. 2,904,689.
- Millett, Raymond C., and J. C. H. Binney. Retractable roller device. 2,908,031, 10-13-59, Cl. 16-34.
- Millgate, Irvine H. Visual instruction aids. 2,867,045, 1-6-59, Cl. 35-60.
- Millidge, Alfred F., and I. K. M. Robson, to The Distillers Co. Ltd. Process for resisting corrosion by aliphatic acids. 2,907,699, 10-6-59, Cl. 202-59.
- Milligan, Gaymond E., to Lionel Corp. Toy saw mill. 2,914,885, 12-1-59, Cl. 46-39.
- Milligan, James W., and S. S. Green, to Duncan Electric Co., Inc. Magnetic suspensions. 2,869,934, 1-20-59, Cl. 308-10.
- Milligan, James W., and S. S. Green, to Duncan Electric Co., Inc. Magnetic suspension. 2,869,935, 1-20-59, Cl. 308-10.
- Milligan, Robert E.: *See*—  
Sanderson, Kenneth E., and Milligan. 2,884,016.
- Millikan, Allen F., and G. W. Crosby, to The Pure Oil Co. Heterocyclic polyamine salts of phosphorodithidic acid esters and compositions containing the same. 2,894,951, 7-14-59, Cl. 260-248.5.
- Millikan, Allen F., and G. W. Crosby, to The Pure Oil Co. Lubricating oil composition. 2,916,455, 12-8-59, Cl. 262-46.4.
- Milliken, Alvin R., and M. S. Hook, to Electrical Utilities Co. Weatherproof resistor. 2,870,307, 1-20-59, Cl. 201-68.
- Milliken, Frank H., to The Bowerston Shale Co. Spring clip for perforated pipes and the combination. 2,898,741, 8-11-59, Cl. 61-11.
- Milliken, Spencer R., to Aluminum Co. of America. Process of treating magnesium-bearing aluminum base alloys fluoroborate. 2,885,313, 5-5-59, Cl. 148-6.27.
- Milliken, Spencer R., to Aluminum Co. of America. Process of treating magnesium-bearing aluminum base alloys with boron trifluoride. 2,885,315, 5-5-59, Cl. 148-13.1.
- Milliken, Spencer R., to Aluminum Co. of America. Method for degassing aluminum articles by means of a vaporous fluoride. 2,885,316, 5-5-59, Cl. 148-13.1.
- Milliken, Thomas H., Jr.: *See*—  
Donovan, Joseph J., and Milliken. 2,904,520.  
Heinemann, Heinz, Milliken, and Stevenson. 2,900,429.  
Mills, George A., Milliken, and Stevenson. 2,914,459.
- Milliken, Thomas H., Jr., to Houdry Process Corp. Transportation of fluent solid particles. 2,878,076, 3-17-59, Cl. 302-53.
- Milliken, Thomas H., Jr., to Houdry Process Corp. Removing contaminants from catalyst particles. 2,892,771, 6-30-59, Cl. 208-149.
- Millington, Brian W., to Ricardo & Co., Engineers (1927) Ltd. Internal combustion engines of the compression ignition type. 2,911,959, 11-10-59, Cl. 123-32.
- Millipore Filter Corp.: *See*—  
Poitras, Edward J. 2,879,207.
- Milliron, James P. Fish catching device. 2,915,846, 12-8-59, Cl. 43-42.04.
- Millis, Edwin G., to Texas Instruments Inc. Electronically controlled bonding machine. 2,899,539, 8-11-59, Cl. 219-110.
- Millis, Walter T., to General Electric Co. Electronic tube structure. 2,878,410, 3-17-59, Cl. 313-346.
- Millis, Walter T., to General Electric Co. Electron discharge device cathode. 2,887,607, 5-19-59, Cl. 313-261.
- Millis, Walter T., to General Electric Co. Low microphonics tube structures. 2,910,609, 10-27-59, Cl. 313-261.
- Milli-Switch Corp.: *See*—  
Allen, Alan A. 2,875,306.
- Millman, Max, to Ortho Pharmaceutical Corp. Therapeutically active compositions containing amphetamines. 2,881,113, 4-7-59, Cl. 167-55.



- Millman, Nathan, and J. B. Whitley, to J. M. Huber Corp. Apparatus and method for treatment of clay. 2,907,666, 10-6-59, Cl. 106-72.
- Millman, William V.: *See*—
- Baker, Forrest G., and Millman. 2,909,043.
- Millner, Tivadar, and E. Theisz, to Egyesült Izzólámpa és Villamosági Részvenytársaság. Gas-filled electric incandescent lamp. 2,882,435, 4-14-59, Cl. 313-222.
- Millns, Terence W., to Rotax Ltd. Electrically operated jack-like actuators. 2,891,413, 6-23-59, Cl. 74-421.8.
- Milloy, Ian M., to Radio Corp. of America. Apparatus for conveying articles in close spaced relationship. 2,889,917, 6-9-59, Cl. 198-179.
- Mills, Burton L., to Clark Equipment Co. Carrier dumping device. 2,886,196, 5-12-59, Cl. 214-318.
- Mills, Edgar E. Aligning jig for shingles. 2,887,781, 5-26-59, Cl. 33-188.
- Mills, Edwin R., to Fieldcrest Mills, Inc. Electric blanket control. 2,903,548, 9-8-59, Cl. 219-20.
- Mills Equipment Co. Ltd., The: *See*—
- Lethern, Albert A., and Quirico. 2,888,729.
- Mills, George A., to Houdry Process Corp. Hydrogenative conversion of hydrocarbons. 2,902,436, 9-1-59, Cl. 208-146.
- Mills, George A., T. H. Milliken, Jr., and D. H. Stevenson, to Houdry Process Corp. Cracking of residual oils containing asphaltic and metallic contaminants. 2,914,459, 11-24-59, Cl. 208-92.
- Mills, George S.: *See*—
- Haxo, Henry E., Jr., and Mills. 2,890,183.
- Mills, George S., and H. E. Haxo, Jr., to United States Rubber Co. Composition comprising a rubber, lignin and polyisocyanate and method of preparing same. 2,906,718, 9-29-59, Cl. 260-17.5.
- Mills, Gordon F., and H. B. Whetsel. Separating metallic cations with perfluorocarboxylic acids. 2,874,176, 2-17-59, Cl. 260-429.1.
- Mills, Gordon S., to Monsanto Chemicals Ltd. Process for vulcanizing rubber in the presence of the cyclohexylamine salt of mercaptobenzthiazole. 2,883,442, 4-21-59, Cl. 260-788.
- Mills, Herbert E., to Mills Products, Inc. Window unit. 2,880,475, 4-7-59, Cl. 20-56.5.
- Mills, Herbert E. Line-attaching clip for a fishing float. 2,880,547, 4-7-59, Cl. 43-44.87.
- Mills, Herbert E. Fishing float. 2,911,754, 11-10-59, Cl. 43-43.11.
- Mills, Ivor W., to Sun Oil Co. Suppression of fuel icing. 2,906,613, 9-29-59, Cl. 52-5.
- Mills, Ivor W., and P. B. Murray, to Sun Oil Co. Refining mineral oil. 2,915,460, 12-1-59, Cl. 208-189.
- Mills, Jack, to Eli Lilly and Co. 1-pyrrolidino-4-(1-methyl piperidyl-2)-butanes and salts thereof. 2,903,459, 9-8-59, Cl. 260-293.
- Mills, Jack, to Eli Lilly and Co. Substituted benzodioxanes and their preparation. 2,906,757, 9-29-59, Cl. 260-340.3.
- Mills, John E., to The Gas Council. Removing hydrogen sulphide from gases. 2,868,617, 1-13-59, Cl. 23-2.
- Mills, John K., to Bell Telephone Laboratories, Inc. Oscillation generator. 2,870,332, 1-20-59, Cl. 250-36.
- Mills, Malcolm E., and C. C. Faroni, to Elastic Stop Nut Corp. of America. Fastening device with means for sealing against both a threaded companion fastener and a worksurface. 2,872,961, 2-10-59, Cl. 151-7.
- Mills Products, Inc.: *See*—
- Mills, Herbert E. 2,880,475.
- Mills, Ralph B., to American Cord & Webbing Co. Protector guard. 2,874,589, 2-24-59, Cl. 74-608.
- Mills, Ronald G.: *See*—
- Branch, Maurice C., and Mills. 2,883,469.
- Mills, Stephen D., to A. O. Smith Corp. Cam-actuated coil inserter. 2,873,514, 2-17-59, Cl. 29-205.
- Mills, Victor: *See*—
- Holman, George W., and Mills. 2,886,578.
- Mills, Victor, to The Procter & Gamble Co. Culinary mixes and methods of preparing the same. 2,874,053, 2-17-59, Cl. 99-94.
- Mills, Wade H. Adjustable gauge for dressing saw chain depth gauges. 2,898,689, 8-11-59, Cl. 33-202.
- Mills, William A., to The Buckeye Steel Castings Co. Railway journal box lid lug wear plate assemblies. 2,869,938, 1-20-59, Cl. 308-47.
- Mills, William C., to Olin Mathieson Chemical Corp. Ethylene carbonate. 2,907,771, 10-6-59, Cl. 260-340.2.
- Millsaps, William A., and J. L. Staubly, to Pennsalt Chemicals Corp. Sour-blue formulation. 2,893,818, 7-7-59, Cl. 8-77.
- Millstone, Gilbert J., to H. H. Robertson Co. Wall panel. 2,910,151, 10-27-59, Cl. 189-34.
- Milly, Lucien C. E. Adjustable backrest mechanism. 2,912,045, 11-10-59, Cl. 155-160.
- Milne, David T., to American Viscose Corp. Coagulation of cellulosic colloids. 2,902,334, 9-1-59, Cl. 18-54.
- Milne, Ivan H.: *See*—
- Earley, James W., and Milne. 2,911,285.
- Milne, James M., to General Electric Co. Method of constructing a tank for electric apparatus. 2,873,519, 2-17-59, Cl. 29-463.
- Milner, William P., to American Mfg. Co. Knock-down display rack. 2,913,128, 11-17-59, Cl. 211-148.
- Milner, William P., to American Mfg. Co. Bottle rack. 2,914,186, 11-24-59, Cl. 211-74.
- Milner, William P., to American Mfg. Co. Mobile knock-down display rack. 2,918,295, 12-22-59, Cl. 280-36.
- Milnes, Aubrey H., to The Steel Improvement & Forge Co. Protection of titanium. 2,900,715, 8-25-59, Cl. 29-528.
- Milnes, Kenneth B. Carpet seaming tape. 2,890,145, 6-9-59, Cl. 154-49.
- Milnes, Robert A., to R. E. Messmer, R. Cross, and R. A. Milnes. Fuel tank filling alarm and method of installing it. 2,905,137, 9-22-59, Cl. 116-112.
- Milo, Joseph V. Coupling inserting apparatus. 2,916,812, 12-15-59, Cl. 29-237.
- Miloché, Herman A.: *See*—
- Belek, Emil, Miloché, and Reimels. 2,872,624.
- Miloché, Herman A., to Bell Telephone Laboratories, Inc. Switching system network. 2,901,547, 8-25-59, Cl. 179-27.54.
- Milos, John: *See*—
- Sisto, Joseph A., and Milos. 2,901,234.
- Milprint, Inc.: *See*—
- Griem, Milton E. 2,911,306.
- Hultkrans, Paul B., Griem, and Davis. 2,901,875.
- Mercer, Lewis P. 2,871,771.
- Perino, Dominic A. 2,912,336.
- Rusch, Kenneth A., and Hillman. 2,897,875.
- Smith, Donald P., Rollin, and James. 2,906,646.
- Milrose Sales Corp.: *See*—
- Sadowsky, Charles. 2,887,348.
- Milroy, Philip R., and W. F. Voit, Jr., to General Electric Co. Dishwashing machine. 2,909,184, 10-20-59, Cl. 134-114.
- Milseo Mfg. Co.: *See*—
- Swenson, Carl T. 2,871,928.
- Milstein, Herman, to Dumont Milling Industries, Division of Dumont Aviation Associates. Tool carriage feeding and locating mechanism. 2,905,060, 9-22-59, Cl. 90-11.
- Milstein, Morris J. Adjustable headwear. 2,869,134, 1-20-59, Cl. 2-172.
- Milton, Charles J. Disposable syringe. 2,917,047, 12-15-59, Cl. 128-227.
- Milton, Kirby M., to Eastman Kodak Co. Plasticization of gelatin. 2,904,434, 9-15-59, Cl. 96-94.
- Milton, Leslie M. Coin-freed vending apparatus. 2,872,010, 2-3-59, Cl. 194-79.
- Milton Mfg. Co., Inc.: *See*—
- Mazeika, Albert. 2,886,807.
- Milton, Robert M., to Union Carbide Corp. Molecular sieve adsorbents. 2,882,243, 4-14-59, Cl. 252-455.
- Milton, Robert M., to Union Carbide Corp. Molecular sieve adsorbents. 2,882,244, 4-14-59, Cl. 252-455.
- Milwaukee Electric Tool Corp.: *See*—
- Ristow, Edward W. 2,877,820.
- Milwaukee Faucets, Inc.: *See*—
- Hartmann, Gilbert L. 2,884,863.
- Milwaukee Motive Mfg. Co.: *See*—
- Dyar, Robert L. 2,907,146.
- Milz, Wendell C., and W. M. McClintock, to Aluminum Co. of America. Reclamation of aluminum fabricating lubricants. 2,902,439, 9-1-59, Cl. 208-183.
- Mims, Bruce L., to The Barden Corp. Direct reading torque tester. 2,867,113, 1-6-59, Cl. 73-9.
- Mims, Bruce L., to The Barden Corp. Torque meter for testing bearings. 2,867,114, 1-6-59, Cl. 73-9.
- Minard, Everett S., to Chemetron Corp. Container filling machine. 2,896,676, 7-28-59, Cl. 141-146.
- Minard, William F., to Weltronic Co. Control system. 2,878,365, 3-17-59, Cl. 219-114.
- Minarik, Rudolf G., to Kimberly-Clark Corp. Shell type pulpstone. 2,887,276, 5-19-59, Cl. 241-67.
- Minarik, William L., to Phillips Petroleum Co. Gas reactor. 2,897,062, 7-28-59, Cl. 23-277.
- Mincey, Dwain L. Hanger for big game. 2,890,078, 6-9-59, Cl. 294-79.
- Minchenberg, Alfred S. Apparatus for forming belt loops on garments. 2,906,218, 9-29-59, Cl. 112-104.
- Minchenko, George: *See*—
- Denault, Donald R., and Minchenko. 2,867,771.
- Mincher, John M. Floating and troweling machine. 2,869,442, 1-20-59, Cl. 94-45.
- Minckler, Leon S., Jr., D. L. Cottle, and T. Lemiszka, to Esso Research and Engineering Co. Halogenated butyl and dihydrocarbonotin sulfide. 2,918,456, 12-22-59, Cl. 260-79.5.
- Minder, Peter M., to McGraw-Edison Co. Arrangement for varying kilovolt output of capacitor bank in steps. 2,869,070, 1-13-59, Cl. 323-122.
- Minder, Peter M., to McGraw-Edison Co. Static voltage and current sensitive device. 2,886,768, 5-12-59, Cl. 323-66.
- Minder, Peter M., to McGraw-Edison Co. Capacitor switching control. 2,917,703, 12-15-59, Cl. 323-122.
- Minder, Robert J.: *See*—
- Fowler, Frank E., and Minder. 2,902,948.
- Fowler, Frank E., and Minder. 2,906,577.
- Mindermann, Fritz: *See*—
- Keller, Ernst, Durig, and Mindermann. 2,882,266.
- Mindheim, Daniel J., to Lindly & Co., Inc. Photoelectric system. 2,878,395, 3-17-59, Cl. 250-219.
- Mindheim, Daniel J., and H. C. Lindemann, to Lindly & Co., Inc. Yarn tensioning device. 2,907,535, 10-6-59, Cl. 242-150.
- Mindrum, Kenneth H., to Otis Elevator Co. Material handling apparatus. 2,887,236, 5-19-59, Cl. 214-140.



- Mindrum, Kenneth H., to Clark Equipment Co. Lift truck. 2,904,203, 9-15-59, Cl. 214-731.
- Mindt, Frederick E., and W. J. Schmidt, to Westinghouse Electric Corp. Compensating unit for watt-hour meters. 2,900,603, 8-18-59, Cl. 324-138.
- Mine Safety Appliances Co.: *See—*
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  - Batutis, Edward F., and Walters. 2,879,157.
  - Becker, Earl M., and Bridge. 2,895,640.
  - Becker, Earl M., and Bridge. 2,896,661.
  - Bovard, Robert M. 2,913,317.
  - Bub, Robert A., and Summers. 2,881,804.
  - Evans, Robert B., and Bub. 2,911,064.
  - Fisher, Joseph R. 2,870,445.
  - Green, Daniel A. 2,888,657.
  - Hornickel, Robert R. 2,893,671.
  - Hornickel, Robert R., and Barnett. 2,883,672.
  - Hornickel, Robert R., and Fisher. 2,879,513.
  - Jones, Clarence I., and Morris. 2,879,142.
  - King, Earle C., and Andrews. 2,880,065.
  - Lindsay, David. 2,890,762.
  - Matthews, Joseph S. 2,890,797.
  - Michael, Paul L. 2,891,164.
  - Summers, James J. 2,906,549.
  - Temple, Robert. 2,918,003.
  - Temple, Robert and E. E. 2,910,701.
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  - Yant, William P., and Strange. 2,876,064.
- Mine & Smelter Supply Co., The: *See—*
- Meisel, George M., and Kautz. 2,868,376.
- Mineah, Lawrence E., to Coast Pro-Seal & Mfg. Co. Device for mixing viscous materials. 2,880,455, 4-7-59, Cl. 18-2.
- Mineck, Fred. Front end suspension for motor vehicles. 2,895,741, 7-21-59, Cl. 280-96.3.
- Mineck, Fred. to F.M. Research Corp. Ball joint preloading device. 2,911,244, 11-3-59, Cl. 287-87.
- Miner, Charles H., to The Miner Pulley and Transmission Co. V-belt power transmission. 2,905,005, 9-22-59, Cl. 74-230.17.
- Miner, Charles, Jr., and I. Kinsey, to Basic Structural Plastics, Inc. Loading brace. 2,912,939, 11-17-59, Cl. 105-369.
- Miner, Clement P. Practice golf ball. 2,884,254, 4-28-59, Cl. 273-183.
- Miner, Donald B.: *See—*
- Yowell, Joseph W., and Miner. Re. 24,710.
- Miner, Frederic I., to Welsh Mfg. Co. Detachable strap connection to a respirator. 2,915,060, 12-1-59, Cl. 128-146.
- Miner Pulley and Transmission Co., The: *See—*
- Miner, Charles H. 2,905,005.
- Miner, Richard F. Adjustable motor supporting stand. 2,913,241, 11-17-59, Cl. 269-185.
- Miner, Theodore W.: *See—*
- Bestler, Gerald M., and Miner. 2,900,287.
- Miner, W. H., Inc.: *See—*
- Anderson, Carl A. 2,891,684.
  - Danielson, Vernon S. 2,912,124.
  - Dentler, Arnold E. 2,880,884.
  - Dentler, Arnold E. 2,892,551.
  - Gadbois, Lewis F. 2,903,143.
  - Mulcahy, Harry W. 2,880,886.
  - Mulcahy, Harry W. 2,884,141.
  - Mulcahy, Harry W. 2,893,569.
  - Mulcahy, Harry W. 2,893,570.
  - Mulcahy, Harry W. 2,893,571.
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- Minerals & Chemicals Corp. of America: *See—*
- Claxton, Arlie W. 2,892,731.
  - Duke, James B. 2,894,628.
  - Goodwin, Manfred E., Sawyer, and Smith. 2,894,848.
  - Haden, Walter L., Jr., and Martin. 2,885,360.
  - Powell, Manly J., and Cecil. 2,893,304.
  - Sawyer, Edgar W., Jr., and Gary. 2,895,873.
  - Schilling, Karl F., Powell, and Brice. 2,898,207.
- Minerac Corp.: *See—*
- Fischer, Arthur H. 2,901,107.
- Minerley, Frederick K., to Pionair Products, Inc. Liquid wax applicator. 2,875,463, 3-3-59, Cl. 15-139.
- Mingolla, Dominic J.: *See—*
- Nalbone, Samuel J., and Mingolla. 2,884,877.
- Mingori, René P. Tube bending machine having reciprocating and pivoted benders. 2,880,779, 4-7-59, Cl. 153-33.
- Minich, Russell H. Apparatus for packaging cigarettes. 2,887,836, 5-26-59, Cl. 53-133.
- Minici, Joe P. Filing jig for saw blades. 2,885,911, 5-12-59, Cl. 76-31.
- Minick, James E.: *See—*
- Franklin, David W., and Minick. 2,889,912.
- Minieri, Pasquale P., and W. M. Ziegler, to American Cyanamid Co. Tetracycline extractions. 2,871,264, 1-27-59, Cl. 260-559.
- Mining Engineering Co. Ltd., The: *See—*
- Duncan, Angus W. 2,869,713.
  - Duncan, Angus W. 2,872,147.
  - Duncan, Angus W. 2,888,230.
  - Duncan, Angus W. 2,888,231.
  - Duncan, Angus W. 2,893,679.
  - Duncan, Angus W. 2,904,301.
- Mining Process and Patent Co.: *See—*
- Daman, Arthur C. 2,876,905.
  - Daman, Arthur C. 2,883,169.
  - Daman, Arthur C. 2,892,543.
- Minissale, Joseph: *See—*
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- Minister of National Defense of Her Majesty's Canadian Government, The: *See—*
- Atkinson, James T. N. 2,871,171.
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  - Wright, Jerauld G. 2,911,143.
- Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland: *See—*
- Barcroft, Stanley. 2,868,022.
  - Barnes, Jeffery W. 2,900,824.
  - Coates, Harold, and Hunter. 2,880,223.
  - Coates, Harold, and Hunter. 2,897,224.
  - Griffith, Alan A., and Thorpe. 2,870,978.
  - Gunn, John B., and Hogarth. 2,911,601.
  - Howell, Alun R. 2,883,828.
  - Kennerley-Taylor, Horace. 2,909,100.
  - Kretschmer, Willi. 2,906,091.
  - Philpot, Peter de B. 2,900,789.
  - Ratcliffe, Stanley. 2,884,627.
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- Mink-Dayton, Inc.: *See—*
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  - Materese, Vincent. 2,915,619.
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- Rosenberg, Milton, Modlinski, Alexander, and Minka. 2,908,893.
- Minkema, William H., to Corn Products Refining Co. Preparation of starch esters. 2,868,780, 1-13-59, Cl. 260-233.5.
- Minkler, Marcus W., T. W. Findley, and R. S. Geister, to Swift & Co. Method of preserving food products. 2,890,119, 6-9-59, Cl. 99-150.
- Minkow, Morse: *See—*
- Auerbach, Albert A., Minkow, and Schreiner. 2,902,686.
- Minneapolis-Honeywell Regulator Co.: *See—*
- Adams, Foster L., and Pidcock. 2,899,825.
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  - Amdur, Elias J., and Foster. 2,876,321.
  - Ammon, Roscoe A. 2,910,631.
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  - Anderson, Donald G. 2,884,946.
  - Anderson, John E. 2,916,679.
  - Anderson, John W. 2,873,076.
  - Aske, Leonard E. 2,868,934.
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  - Baring, John A., and Popowsky. 2,910,585.
  - Beard, Richard B. 2,868,017.
  - Beard, Richard B. 2,882,212.
  - Beard, Richard B. 2,886,478.
  - Beck, Kenneth H. 2,907,887.
  - Beck, Kenneth H. 2,907,955.
  - Beck, William J., and Fazendin. 2,895,247.
  - Bergeson, Raymond L. 2,872,811.
  - Bergeson, Raymond L. 2,874,570.
  - Bestler, Gerald M., and Miner. 2,900,287.
  - Bishofberger, Carl J. 2,882,371.
  - Bishofberger, Carl J. 2,890,391.
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  - Blumer, Donald R. 2,885,555.
  - Bonnell, Charles R. 2,868,023.
  - Brooks, Robert B. 2,872,565.
  - Brown, George R. 2,911,990.
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  - Bruck, George, Higgins, and Ward. 2,890,392.
  - Campe, William T. 2,916,592.
  - Carlson, William L., Jr., and Erickson. 2,897,650.
  - Carlson, William L., Jr., and Robinson. 2,890,310.
  - Christensen, Carlo M. 2,889,437.
  - Ciscel, Benjamin H. 2,902,772.
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  - Deziel, Fred T. 2,919,438.
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  - Dow, Donald F. 2,871,930.
  - Du Bois, Robert C. 2,868,018.
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  - Dudley, John W., and Malm. 2,890,437.
  - Eckhardt, Homer D. 2,872,134.
  - Ehret, Robert J. 2,875,284.
  - Ehret, Robert J. 2,883,614.
  - Ehret, Robert J. 2,886,754.
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  - Ehret, Robert J. 2,889,517.
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  - Ehret, Robert J., and Patchell. 2,886,755.
  - Eller, Harold E. 2,884,939.
  - Flagg, Raymond P. 2,871,311.
  - Foret, Pierre G., and Wilkins. 2,875,874.
  - Forre, Donald J., and Wolfe. 2,899,655.
  - Frykman, Oscar G. 2,881,868.
  - Gaddis, Gene T. 2,868,461.
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 Gilliam, George E. 2,903,679.  
 Gimson, Alvin E. 2,879,781.  
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 Patchell, Thomas A. 2,907,932.  
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 Popowsky, William J. 2,915,689.  
 Pullen, Orrin V. 2,916,541.  
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 Ritter, Alden J., and Scott. 2,884,767.  
 Rock, Kingsley C. 2,877,385.  
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 Minter, John O. Pipe handling equipment. 2,900,091, 8-18-59, Cl. 214—25.  
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 Minty, John E., to Manning, Maxwell & Moore, Inc. Hydraulic hoist. 2,919,109, 12-29-59, Cl. 254—167.  
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 Mintz, Henry A. Stamping machines. 2,900,751, 8-25-59, Cl. 41—7.  
 Mintz, Julius. Collapsible shopping cart. 2,891,803, 6-23-59, Cl. 280—36.  
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- Block, Richard J. 2,919,195.  
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- Brehm, Howard E., Jr., and Mitchell. 2,871,778.
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- Mitchell, Carl J. Transparent meter dial guard wiper. 2,904,815, 9-22-59, Cl. 15-255.
- Mitchell, Charles D., to Dunlop Rubber Co. Ltd. Process and apparatus for distillation. 2,870,065, 1-20-59, Cl. 202-46.
- Mitchell, Charles V., to Union Carbide Corp. Preparation of graphite from polynuclear aromatic hydrocarbons. 2,915,370, 12-1-59, Cl. 23-209.1.
- Mitchell, Claybourne, and R. Blythe, to United States of America, Navy. Micro-measurement apparatus. 2,882,787, 4-21-59, Cl. 88-14.
- Mitchell, Curtis C., and G. A. Burgon, to American Mfg. Co. of Texas. Automatic control for counterbalance. 2,915,919, 12-8-59, Cl. 74-590.
- Mitchell, David R., and J. O'Brien, to The Buckeye Coal Co. Launder washers. 2,912,109, 11-10-59, Cl. 209-458.
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- Mitchell, Doren, to Bell Telephone Laboratories, Inc. Radiant energy communication system with carrier control. 2,877,343, 3-10-59, Cl. 250-6.
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- Mitchell, Earl C., to Watertown Engineering Corp. Mold for hollow articles. 2,903,777, 9-15-59, Cl. 25-130.
- Mitchell, Edward E.: *See—*
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- Mitchell, Francis E. Burglar alarm. 2,870,281, 1-20-59, Cl. 200-61.93.
- Mitchell, Frank E., Sr.: *See—*
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- Mitchell, George E., to Corning Glass Works. Vacuum chuck assembly. 2,886,335, 5-12-59, Cl. 279-3.
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- Mitchell, George W. Folding chair equipped for fishing. 2,909,215, 10-20-59, Cl. 155-147.
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- Krstansky, James J., and Mitchell. 2,877,428.
- Mitchell, Gerald G.: *See—*
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- Mitchell, Harold, to George Goodman Ltd. Safety-pins. 2,893,091, 7-7-59, Cl. 24-158.
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- Shrimpton, Ronald H., and Mitchell. 2,870,114.
- Mitchell, Herman,  $\frac{1}{2}$  to Gadget-Of-The-Month Club, Inc. Baby bottle holder. 2,881,999, 4-14-59, Cl. 248-106.
- Mitchell, Horace G., to Abercrombie & Fitch Co. Travelling bag construction. 2,893,523, 7-7-59, Cl. 190-41.
- Mitchell, Isaac A., to United Transformer Corp. Inductor core. 2,879,489, 3-24-59, Cl. 336-134.
- Mitchell, Jack H., Jr., and J. J. Enright. Thermostable active dry yeast compositions. 2,894,842, 7-14-59, Cl. 99-96.
- Mitchell, James, to J. H. Fenner and Co. Ltd. Variable speed belt transmission mechanism. 2,896,460, 7-28-59, Cl. 74-230.17.
- Mitchell, James A., to Union Carbide Corp. Method of and apparatus for filling and emptying collapsible containers. 2,875,562, 3-3-59, Cl. 53-22.
- Mitchell, James A. Deep well pump. 2,907,276, 10-6-59, Cl. 103-9.
- Mitchell, John: *See—*
- Deverell-Smith, Raymond, Mitchell, and Twitchett. 2,874,146.
- Mitchell, John D., and L. F. Kamp, to Eastman Kodak Co. Reversible drive mechanism. 2,911,849, 11-10-59, Cl. 74-472.
- Mitchell, John E. Amusement ride device. 2,869,871, 1-20-59, Cl. 272-36.
- Mitchell, John E., Co.: *See—*
- Mitchell, Orville. 2,903,749.
- Mitchell, Orville, and Freeman. 2,867,851.
- Mitchell, John F., to Motorola, Inc. Receiver having frequency-and-amplitude-modulation-detecting limiter stage. 2,912,573, 11-10-59, Cl. 250-20.
- Mitchell, John G.: *See—*
- Bergstrom, Eric V., Drew, and Mitchell. 2,873,177.
- Mitchell, John G. to Celanese Corp. of America. Folding device for strip material. 2,873,965, 2-17-59, Cl. 270-40.
- Mitchell, John M., to The General Electric Co. Ltd. Steam turbines. 2,914,299, 11-24-59, Cl. 253-77.
- Mitchell, Johnny E. Portable building panel. 2,905,980, 9-29-59, Cl. 20-16.
- Mitchell, Joseph R., to United States Steel Corp. Method of forging chromium manganese austenitic steels. 2,878,150, 3-17-59, Cl. 148-12.
- Mitchell, Kenneth G., R. E. McMinn, and L. L. Laurence, to Black, Sivalis & Bryson, Inc. Method for processing a natural gas stream. 2,909,905, 10-27-59, Cl. 62-23.
- Mitchell, Lawrence H. Rubber encasing braid. 2,880,493, 4-7-59, Cl. 28-78.
- Mitchell, Leshar A.: *See—*
- Uranek, Carl A., and Mitchell. 2,915,507.
- Mitchell, Lester F.: *See—*
- Janke, Edward J., and Mitchell. Re. 24,739.
- Mitchell, Leuelle O. Educational system and apparatus. 2,878,092, 3-17-59, Cl. 312-310.
- Mitchell, Malcolm E. Electric and air actuated multiple spindle drill press. 2,914,969, 12-1-59, Cl. 77-25.
- Mitchell, Mildred: *See—*
- Mitchell, Robert O. 2,890,543.
- Mitchell, Norris W.: *See—*
- Bauer, Robert D., and Mitchell. 2,905,621.
- Mitchell, Norval W., to The Borden Co. Label applying apparatus. 2,878,953, 3-24-59, Cl. 216-55.
- Mitchell, Orville, to John E. Mitchell Co. Cotton cleaning machine. 2,903,749, 9-15-59, Cl. 19-35.
- Mitchell, Orville, and W. P. Freeman, Jr., to John E. Mitchell Co. Apparatus for humidifying seed cotton. 2,867,851, 1-13-59, Cl. 19-66.
- Mitchell, Peter W. D.: *See—*
- Barry, Vincent C., and Mitchell. 2,885,394.
- Mitchell, Randolph N., to Reynolds Metals Co. Apparatus for the heat treatment of metallic sheet material. 2,883,172, 4-21-59, Cl. 263-6.
- Mitchell, Reid L., R. F. Bampton, and W. H. Wadman, to Rayonier Inc. Process of forming solid particulate hydroxyethoxy-cellulose. 2,875,473, 3-3-59, Cl. 18-47.5.
- Mitchell, Reid L., J. W. Berry, and M. Bacon, Jr., to Rayonier Inc. Cellulose slurry-steeping. 2,898,334, 8-4-59, Cl. 260-233.
- Mitchell, Robert Co. Ltd. The: *See—*
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- Mitchell, Robert H.: *See—*
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- Mitchell, Robert L. Typewriter pad. 2,914,275, 11-24-59, Cl. 248-22.
- Mitchell, Robert O., deceased, by G. G. Mitchell, administrator,  $\frac{1}{2}$  M. Mitchell, and  $\frac{1}{2}$  to D. Mitchell. Trawl net attachment. 2,890,543, 6-16-59, Cl. 43-9.
- Mitchell, Ross H. Pilot's instrument flying hood. 2,870,446, 1-27-59, Cl. 2-12.
- Mitchell, Thomas E., to E. I. du Pont de Nemours and Co. Bucket process for novelty regenerated cellulose yarn. 2,869,319, 1-20-59, Cl. 57-157.
- Mitchell, Tony, and G. Schroeter. Adjustable bed slat. 2,886,832, 5-19-59, Cl. 5-236.
- Mitchell, Walter B., to Raytheon Mfg. Co. Switching circuits. 2,868,997, 1-13-59, Cl. 307-75.
- Mitchell, William A.: *See—*
- Finucane, Thomas P., Mitchell, and Raymond. 2,916,380.
- Mitchell, William E. A.: *See—*
- Reed, Hugh W. B., and Mitchell. 2,898,328.
- Mitchell, William F.: *See—*
- Taylor, Douglas E., Jones, and Mitchell. 2,870,264.
- Mitchell, William H., and R. P. Percy, to Westinghouse Electric Corp. Electric motor. 2,900,539, 8-18-59, Cl. 310-62.
- Mitchener, William A. Internal combustion engine. 2,917,032, 12-15-59, Cl. 123-73.
- Mithel, Bharat B.: *See—*
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- Balde, Ulysse. 2,918,123.
- Mitlin, Leonid, and J. A. A. Kay, to British Artificial Resin Co. Ltd. Forming a mat or layer of discrete material. 2,896,673, 7-28-59, Cl. 141-1.
- Mito, Kunio. Paper knife. 2,881,520, 4-14-59, Cl. 30-280.



- Mitsubishi Rayon Co. Ltd.: *See*—  
 Noguchi, Yukio, Nakatomi, and Muto. 2,917,401.  
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- Mittag, Fritz, to International Standard Electric Corp. Circuit arrangements for originating electric currents or potentials for signal or control purposes. 2,906,942, 9-29-59, Cl. 323-76.
- Mittag, Fritz H., to International Standard Electric Corp. Arrangement for the destination-marking of dispatch container in transportation system. 2,877,718, 3-17-59, Cl. 104-88.
- Mittag, Fritz H., to International Standard Electric Corp. Arrangement to produce electrical signals through affecting a magnetic circuit. 2,901,676, 8-25-59, Cl. 317-150.
- Mittanck, Leon R. Cattle dehorning implement. 2,916,823, 12-15-59, Cl. 30-241.
- Mittell, Frank C., N. Chase, G. J. Matey, L. Pollock, R. J. Dawson, and J. L. Bower, to North American Aviation, Inc. Prosthetic apparatus. 2,902,696, 9-8-59, Cl. 3-1.1.
- Mittelman, Edward R., to Westinghouse Electric Corp. Cavity resonator structure. 2,913,685, 11-17-59, Cl. 333-83.
- Mittelmann, Eugene, to Scanoptic, Inc. Reluctance level gauge. 2,912,767, 11-17-59, Cl. 33-206.5.
- Mittelstaedt, Georg S. Radiographs in contrasting color. 2,906,881, 9-29-59, Cl. 250-65.
- Mitten, Frank P. Shipping and storage container. 2,904,382, 9-15-59, Cl. 312-261.
- Mittenbergs, Alexander A.: *See*—  
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- Mittenzwei, Edwin F.: *See*—  
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- Mittleman, Myron B., to Schenley Industries, Inc. Dispenser for small objects. 2,914,165, 11-24-59, Cl. 206-42.
- Mittler, Just L.: *See*—  
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- Mitton, Robert E., to Hydraflex Corp. Pressure amplifying device for fluid pressure system. 2,909,035, 10-20-59, Cl. 60-54.5.
- Mitts and Merrill: *See*—  
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- Mix & Genest Akt.: *See*—  
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- Mixermobile Manufacturers, Inc.: *See*—  
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- Miyakawa, Shozo. Cumulative paper filing device. 2,879,773, 3-31-59, Cl. 129-5.
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- Miyashiro, James J.: *See*—  
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- Miyata, Akira. Device for determining moisture content of various materials and substances. 2,884,593, 4-28-59, Cl. 324-61.
- Miyata, Akira, to Scientific Research Institute Ltd. Charging circuit for a condenser. 2,887,643, 5-19-59, Cl. 320-1.
- Miyazawa, Shigetada, to Osaka Machine Mfg. Co. Ltd. Device for intermittently driving a shaft. 2,870,646, 1-27-59, Cl. 74-394.
- Mize, Cecil I. Microscope. 2,870,674, 1-27-59, Cl. 88-39.
- Mize, William E., to Institutional Industries, Inc. Removable foot rest. 2,868,275, 1-13-59, Cl. 155-165.
- Mize, William E., to Institutional Industries, Inc. Folding wheel chair. 2,914,111, 11-24-59, Cl. 155-28.
- Mizell, Floyd M., and H. G. Austin, Sr. Lanolin-ammonia composition. 2,911,372, 11-3-59, Cl. 252-153.
- Mizell, Louis R., to United States of America, Army. Arctic face mask. 2,909,782, 10-27-59, Cl. 2-9.
- Mizelle, Merrimond B. Gutter cleaner. 2,910,711, 11-3-59, Cl. 15-123.
- Mizrahi, Jack, and N. Zwiebel. Holding tray for cuff links and tie bar. 2,888,137, 5-26-59, Cl. 206-75.
- Mizui, Seichiro, to Canon Camera Co., Inc. Photographic flashlight apparatus. 2,874,558, 2-24-59, Cl. 67-31.
- Mizzoni, Renat H., to Ciba Pharmaceutical Products, Inc. Thiazolines and process for manufacturing same. 2,910,478, 10-27-59, Cl. 260-293.4.
- Mizzoni, Renat H., to Ciba Pharmaceutical Products Inc. Certain 1,3-substituted thioparabanic acids. 2,913,463, 11-17-59, Cl. 260-309.5.
- Mladek, John V. Linearly and rotatably movable receiver control mechanism. 2,916,617, 12-8-59, Cl. 250-20.
- Mlavsky, Abraham I.: *See*—  
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- Mieczko, Eugene L., to Aerojet-General Corp. Universally mounted gyro. 2,879,668, 3-31-59, Cl. 74-5.4.
- Mo Och Domsjö Aktiebolag: *See*—  
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- Moats, Robert R., J. W. Dawson, and M. C. Pease, III, to Sylvania Electric Products Inc. Interdigital line traveling wave amplifier. 2,916,656, 12-8-59, Cl. 315-3.5.
- Mobarry, John W., to Minneapolis-Honeywell Regulator Co. Control means for refrigeration compressor. 2,898,746, 8-11-59, Cl. 62-209.
- Mobay Chemical Co.: *See*—  
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- Moberg, Sigurd M.: *See*—  
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- Moberg, Sigurd M., to E. J. Brooks Co. Cord seal and method of making the same. 2,899,230, 8-11-59, Cl. 292-325.
- Moberg, Sigurd M., to E. J. Brooks Co. Hand-closable seal. 2,902,308, 9-1-59, Cl. 292-307.
- Moberg, Sigurd M., to E. J. Brooks Co. Hasp seal. 2,912,269, 11-10-59, Cl. 292-307.
- Moberg, Sigurd M., to E. J. Brooks Co. Seal. 2,914,354, 11-24-59, Cl. 292-307.
- Mobley, George A., to Deering Milliken Research Corp. Stop motion. 2,883,710, 4-28-59, Cl. 19-165.
- Mobley, Ora. Safety back pressure signal for flues. 2,913,044, 11-17-59, Cl. 158-122.
- Mobley, William R. Method and apparatus for treating air in hot and cold weather. 2,909,637, 10-20-59, Cl. 219-39.
- Mobroten, Arvid B., to Gadget-Of-The-Month Club, Inc. Clothesline support and tightener. 2,910,186, 10-27-59, Cl. 211-119.15.
- Mocarski, Zenon R. Liquid level signaling means. 2,884,131, 4-28-59, Cl. 210-93.
- Mocas, Verlin A., to The Richardson Co. Battery cell cover. 2,901,527, 8-25-59, Cl. 136-168.
- Mock, Frank C., to Bendix Aviation Corp. Starting fuel control for gas turbine engines. 2,880,790, 4-7-59, Cl. 158-38.4.
- Mock, Leon R.: *See*—  
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- Mock, Richard A.: *See*—  
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- Mock, Richard A., C. A. Marshall, and L. R. Morris, to The Dow Chemical Co. Interpolymers comprising vinylphenyl aliphatic aminocarboxylic acid compounds. 2,910,445, 10-27-59, Cl. 260-2.1.
- Mocker, William A.: *See*—  
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- Mockiewicz, Sylvester C., and J. H. Bacha, to American Buff Co. Buffing wheel. 2,882,654, 4-21-59, Cl. 51-193.
- Mockrin, Isadore, to Pennsalt Chemicals Corp. Dielectric materials. 2,899,321, 8-11-59, Cl. 106-39.
- Modderman, Pieter: *See*—  
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- Model, Ernst, and J. Bindler, to J. R. Geigy, A.-G. Polyhalogen substituted monohydroxydiphenyl urea and thio-urea compounds. 2,867,659, 1-6-59, Cl. 260-552.
- Model Plastic Corp.: *See*—  
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- Modern Coatings, Inc.: *See*—  
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- Modersohn, Charles W.: *See*—  
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- Modes, Edward E., to The Dole Valve Co. Vacuum control devices. 2,868,459, 1-13-59, Cl. 236-87.
- Modes, Edward E., and N. Miller, to The Dole Valve Co. Rotary ice cube ejector mechanism. 2,912,835, 11-17-59, Cl. 62-351.
- Modest, Edward J., to Children's Cancer Research Foundation. Dihydrotriazines and method of manufacture. 2,900,385, 8-18-59, Cl. 260-249.9.
- Modigliani, Piero, to Johns-Manville Corp. Method and apparatus for forming condensed glass fiber mats. 2,913,037, 11-17-59, Cl. 154-1.75.
- Modin, John. Hydraulic transmissions. 2,903,853, 9-15-59, Cl. 60-53.
- Modine, Arthur B., to Modine Mfg. Co. Combination air conditioner-convactor. 2,901,226, 8-25-59, Cl. 257-300.
- Modine, Arthur B., to Modine Mfg. Co. Method of making a heat exchanger. 2,914,842, 12-1-59, Cl. 29-157.3.



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- Modl, Emma M., to Union Carbide Corp. Cermets with high impact strength. 2,909,834, 10-27-59, Cl. 29—182.5.
- Modlinski, Witold M.: *See*—  
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- Modrey, Henry J. Disposal-driven pot scouring device. 2,869,794, 1-20-59, Cl. 241—101.
- Modrey, Henry J., to Interlock Corp. Self-locking connector. 2,882,579, 4-21-59, Cl. 24—211.
- Modrey, Henry J. Key file device. 2,889,050, 6-2-59, Cl. 211—4.
- Modrey, Henry J. Explosive terminal and method of firing. 2,909,758, 10-20-59, Cl. 339—220.
- Modrey, Henry J. Electric connector for connecting two conductors through a wall. 2,919,421, 12-29-59, Cl. 339—59.
- Moe, Donald K. Electric power tool. 2,907,395, 10-6-59, Cl. 172—41.
- Moe, Lowell A.: *See*—  
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- Moe, William W., to Time, Inc. Modulator with photoelectric signal source and compressor for facsimile. 2,873,312, 2-10-59, Cl. 178—71.
- Moe, William W., to Time, Inc. Circuit for producing a localized non-linearity in a generally linear voltage transfer characteristic. 2,873,362, 2-10-59, Cl. 250—27.
- Moebius, Howard E. Collapsible display sign. 2,882,629, 4-21-59, Cl. 40—124.1.
- Moehl, Reno W., to Universal Oil Products Co. Preparation of solid catalyst composites. 2,903,433, 9-8-59, Cl. 252—433.
- Moehlenpach, Walter G., to Ar-Ka Engineering, Inc. Shading coil. 2,886,722, 5-12-59, Cl. 310—172.
- Moehler, Otto J., to Westinghouse Electric Corp. Filament mounting device. 2,877,806, 3-17-59, Cl. 140—71.6.
- Moehring, William D., to Allen Electric & Equipment Co. Combined tachometer and cam angle indicating circuit. 2,908,859, 10-13-59, Cl. 324—16.
- Moehrl, Eduard, deceased (by Elise Moehrl, executrix), A. Marx, and H. G. Franck, to Gesellschaft Fuer Teerverwertung m.b.H., Duisburg-Meiderich. Process of producing anthracene and carbazole. 2,885,406, 5-5-59, Cl. 260—318.
- Moehrl, Elise: *See*—  
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- Moell, Hans, and O. Schlichting, to Badische Anilin- & Soda-Fabrik Akt. Production of cycloheptene-(1)-carboxylic acid-(1), its alkali metal salts and its esters. 2,878,257, 3-17-59, Cl. 260—468.
- Moeller, Axel, to Moeller Mfg. Co., Inc. Combination sewer plug stopper and standpipe. 2,891,575, 6-23-59, Cl. 137—593.
- Moeller, Douglas E., to Motorola, Inc. Signal level control circuit. 2,902,548, 9-1-59, Cl. 179—171.
- Moeller, Kurt G. F. Means for reducing gear noise. 2,867,130, 1-6-59, Cl. 74—443.
- Moeller, Kurt G. F. Flexible shaft coupling. 2,889,695, 6-9-59, Cl. 64—1.
- Moeller, Lawrence D. Positive stop cylinder. 2,891,514, 6-23-59, Cl. 121—40.
- Moeller, Lowell J., to Western Electric Co., Inc. Apparatus for dispensing a metered amount of a fluid material. 2,884,165, 4-28-59, Cl. 222—212.
- Moeller, Lowell J., to Western Electric Co., Inc. Terminal strip assembly and method of making it. 2,885,651, 5-5-59, Cl. 339—198.
- Moeller, Lowell J., to Western Electric Co., Inc. Apparatus for stripping molds. 2,903,738, 9-15-59, Cl. 18—2.
- Moeller Mfg. Co., Inc.: *See*—  
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- Moeller & Neumann G.m.b.H.: *See*—  
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- Moeller, William C., to Parmelee Plastics Co. Goggle assembly. 2,877,462, 3-17-59, Cl. 2—14.
- Moeltzner, Ernst F. W., to Landis Machine Co. Rolling machines and control means therefor. 2,873,634, 2-17-59, Cl. 80—6.
- Moeltzner, Ernst F. W., to Landis Machine Co. Machine for simultaneously operating on opposite ends of a workpiece. 2,886,836, 5-19-59, Cl. 10—2.
- Moeltzner, Ernst F. W., to Landis Machine Co. Apparatus for feeding and rolling workpieces. 2,909,952, 10-27-59, Cl. 80—6.
- Moen, Alfred M. Valve construction. 2,888,041, 5-26-59, Cl. 137—636.2.
- Moen, Alfred M. Mixing valve construction. 2,890,719, 6-16-59, Cl. 137—636.2.
- Moen, Alfred M. Valve structure with two part housing. 2,890,720, 6-16-59, Cl. 137—636.2.
- Moen, Rolf, to General Mills, Inc. Apparatus for measuring flow rate. 2,913,901, 11-24-59, Cl. 73—218.
- Moen, Walter B.: *See*—  
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- Moffett, Robert B.: *See*—  
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- Moffett, Robert B., to The Upjohn Co. 2-spiro-substituted pyrrolidines. 2,911,409, 11-3-59, Cl. 260—313.
- Moffett, Robert B., to The Upjohn Co. Allyloxy benzonitriles. 2,912,453, 11-10-59, Cl. 260—465.
- Moffett, Robert B., and H. V. Anderson, to The Upjohn Co. 17 $\alpha$ -acetoxy pregnane and pregnene compounds. 2,880,214, 3-31-59, Cl. 260—397.4.
- Moffitt, William R., and M. B. Berkey, to The Borden Co. Gum acrooides adhesive composition. 2,884,335, 4-28-59, Cl. 106—208.
- Mog, Henry V.: *See*—  
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- Mogensen, Allan O.: *See*—  
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- Mogk, August: *See*—  
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- Mogren, Eben F. Ice fishing tip-up. 2,908,100, 10-13-59, Cl. 43—17.
- Mohasco Industries, Inc.: *See*—  
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- Mohaupt, Henry H. Muzzle sealing apparatus. 2,906,175, 9-29-59, Cl. 89—1.
- Mohaupt, Henry H. Penetrating and fracturing tool. 2,913,959, 11-24-59, Cl. 89—1.
- Mohay Chemical Co.: *See*—  
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- Mohler, Klement: *See*—  
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- Mohler, Robert D.: *See*—  
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- Mohler, Robert D., to Motorola, Inc. Transistor oscillator with harmonically tuned output circuit. 2,915,708, 12-1-59, Cl. 331—76.
- Mohn, Elmer J.: *See*—  
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 Heraeus, Wilhelm H., and Mohn. 2,904,713.
- Mohn, Heinrich, to W. C. Heraeus G.m.b.H. Heat radiation devices. 2,894,166, 7-7-59, Cl. 313—221.
- Mohn, Loren E.,  $\frac{1}{2}$  to E. J. Mohn. Fish hook release unit. 2,871,612, 2-3-59, Cl. 43—44.83.
- Mohnkern, Gerald E.: *See*—  
 Current, Farmer L., and Mohnkern. 2,880,109.
- Mohr, George D.: *See*—  
 Walsh, Paul R., and Mohr. 2,879,904.
- Mohr, George D., to Clear Fir Products Co. Inc. Glue spreader. 2,879,741, 3-31-59, Cl. 118—246.
- Mohr, Harry F.: *See*—  
 Canto, Louis, Mohr, and Neumann. 2,912,676.
- Mohr, Harry F., to Radio Corp. of America. Radiotelephone switching circuit with receiver squelch control. 2,868,964, 1-13-59, Cl. 250—13.
- Mohr, John G. Glass fiber reinforced spring. 2,913,240, 11-17-59, Cl. 267—1.
- Mohr, Reinhard: *See*—  
 Kracker, Herbert, Mohr, and Bamberger. 2,872,441.
- Mohr, Robert A., and E. L. Capener, to General Mills, Inc. Phenol-aldehyde resins esterified with fatty acids. 2,878,199, 3-17-59, Cl. 260—19.
- Mohr, Rudolf: *See*—  
 Quandt, Hans H. 2,867,753.
- Mohrman, Harry L., to Chelsea Products, Inc. Ventilator devices. 2,912,916, 11-17-59, Cl. 98—43.
- Moignet, Jacques: *See*—  
 Soulayr, Pierre, and Moignet. 2,889,480.
- Moilliet, John L.: *See*—  
 Dawson, Fred, Illsley, Moilliet, and Ziegler. 2,893,867.
- Moir, James L. Reflecting flare. 2,914,659, 11-24-59, Cl. 240—37.1.
- Moir, Vincent J., to The International Vibration Co. Tamping construction machine. 2,893,299, 7-7-59, Cl. 94—48.
- Mojonnier, Albert B., to Kartridg-Pak Machine Co. Method of filling volatile propellant on warm product. 2,888,789, 6-2-59, Cl. 53—25.
- Moklebust, Olav, to National Lead Co. Method for desulphurizing iron. 2,912,319, 11-10-59, Cl. 75—33.
- Mol, Evert A. J., to E. I. du Pont de Nemours and Co. Screw for handling thermoplastic resins. 2,896,253, 7-28-59, Cl. 18—12.
- Molalla Mfg. Co.: *See*—  
 Austin, Eldon D. 2,898,960.
- Moldofsky, Matthew, C. W. Musser, and A. M. Stott, to United States of America, Army. Subcaliber training cartridge. 2,902,933, 9-8-59, Cl. 102—41.
- Mold-Rite Corp.: *See*—  
 Baugh, Jesse L. 2,876,511.
- Moler, Charles C., to Overhead Door Corp. Door lock. 2,887,865, 5-26-59, Cl. 70—149.



- Moles, Oliver W., L. W. Gendvil, and H. R. Palmer, to National Lead Co. Apparatus for producing refractory metal. 2,904,491, 9-15-59, Cl. 204-246.
- Molinaro, Edward T. Station sampling radio. 2,906,875, 9-29-59, Cl. 250-40.
- Molinaro, Gregory R., to United States Steel Corp. Method of centering blast furnace bell. 2,885,773, 5-12-59, Cl. 29-407.
- Molins, Desmond W., to Molins Machine Co., Ltd. Manufacture of composite mouthpieces for cigarettes. 2,902,807, 9-8-59, Cl. 53-177.
- Molins, Desmond W., and G. F. W. Powell, to Molins Machine Co. Ltd. Machines for manipulating cut tobacco. 2,909,180, 10-20-59, Cl. 131-21.
- Molins, Desmond W., and N. W. Jackson, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 2,912,987, 11-17-59, Cl. 131-94.
- Molins, Jack J., to Microcell Ltd. Chairs. 2,891,602, 6-23-59, Cl. 155-160.
- Molins Machine Co., Ltd.: *See*—
- Colot, Hyacinthe, De Ridder, and Herinckx. 2,891,670. Hall, Charles T. 2,867,065.
- Harvey, Valentine P., and Parry. 2,887,011.
- Jackson, Donald R. P. 2,917,887.
- Jackson, Donald R. P. 2,918,279.
- Molins, Desmond W. 2,902,807.
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- Powell, Gordon F. W. 2,881,275.
- Powell, Gordon F. W., and Crosland. 2,896,636.
- Molis, Edward W., to Bendix Aviation Corp. System for integral instrument lighting. 2,916,011, 12-8-59, Cl. 116-129.
- Molitor, Zeno F. Hot and cold air baseboard register. 2,868,103, 1-13-59, Cl. 98-40.
- Moll, Bernhard, and O. Kriegbaum,  $\frac{1}{2}$  to Union Rheinische Braunkohlen Kraftstoff and O. Kriegbaum. Method of treating wells. 2,907,390, 10-6-59, Cl. 166-44.
- Moll, John L., to Bell Telephone Laboratories, Inc. Transistor test set. 2,900,582, 8-18-59, Cl. 317-158.
- Molla, Charles P.: *See*—
- Monroe, Robert H., Culbreth, and Molla. 2,882,958.
- Molla, Charles P. Body supporting unit for furniture. 2,878,861, 3-24-59, Cl. 155-187.
- Molla, Charles P., and C. Troiano, to Molla Inc. Coupling devices for straps or webbings. 2,896,696, 7-28-59, Cl. 155-187.
- Molla, Charles P., and C. Troiano, to Molla Inc. Strap or webbing with coupling ends. 2,903,048, 9-8-59, Cl. 155-187.
- Molla Inc.: *See*—
- Molla, Charles P., and Troiano. 2,896,696.
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- Monroe, Robert H., Culbreth, and Molla. 2,882,958.
- Mollen, John C., and D. J. Wright, to General Laboratory Associates, Inc. Analogue computer. 2,911,557, 11-3-59, Cl. 315-8.5.
- Mollenberg, Leroy, to General Electric Co. Two speed induction type motor. 2,896,144, 7-21-59, Cl. 318-224.
- Möller, Aage, to Aktieselskabet Niro Atomizer. Lubrication arrangement. 2,912,065, 11-10-59, Cl. 184-13.
- Möller, Aage. Sterilizable centrifugal atomizer for spray driers. 2,912,172, 11-10-59, Cl. 239-224.
- Müller, Alfred, and F. Klein, to J. D. Möller Optische Werke G.m.b.H. Binocular telescope in combination with a camera. 2,882,791, 4-21-59, Cl. 88-34.
- Möller, Friedrich: *See*—
- Bunge, Wilhelm, Mielke, and Möller. 2,886,555.
- Möller, Goran A., to American Mollerizing Corp. Method and means of coating metals. 2,918,388, 12-22-59, Cl. 117-51.
- Möller, J. D., Optische Werke G.m.b.H.: *See*—
- Möller, Alfred, and Klein. 2,882,791.
- Möller, Rolf, and H. Zschau, to Firma Fernseh G.m.b.H. Film transporting apparatus. 2,916,285, 12-8-59, Cl. 271-23.
- Möllering, Karl F., and H. Tietze, to O. H. Drager. Face mask. 2,888,920, 6-2-59, Cl. 128-141.
- Mollet, Samuel J., III, to The Massillon-Cleveland-Akron Sign Co. Banner mounting construction. 2,893,147, 7-7-59, Cl. 40-325.
- Mollfors, Hans G., to Ingeniorsfirman Magnetic Ab. Arrangement for automatic and continuous measuring of the noise factor of an electric device. 2,901,696, 8-25-59, Cl. 324-57.
- Mollohan, Eugene W. Rotary type lawn edger. 2,907,163, 10-6-59, Cl. 56-25.4.
- Molloy, Everett W., to Beckman Instruments, Inc. Switching mechanisms for flame photometers and the like. 2,885,926, 5-12-59, Cl. 88-23.
- Molnar, Imre, to General Telephone Laboratories, Inc. Call distribution for toll telephone switchboards. 2,881,261, 4-7-59, Cl. 179-27.
- Molnlycke Vaffveri Aktiebolag: *See*—
- Ljunggren, Sverker E. 2,905,177.
- Molon Motors and Coil Corp.: *See*—
- Carlsen, Victor. 2,869,008.
- Moloney Electric Co.: *See*—
- Duenke, Clarence G. 2,897,892.
- Duenke, Clarence G., and Muschong. 2,906,976.
- Duenke, Clarence G., and Velten. 2,905,891.
- Harke, LeRoy J. 2,911,603.
- Moloney, John J.: *See*—
- Zipper, Donald H., Unger, and Moloney. 2,880,901.
- Moloney, Raymond T.: *See*—
- Breitenstein, Charles T. 2,881,810.
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- Brunicaardi, Daniel. 2,896,045.
- Giepen, Hubert M. 2,895,053.
- Hooker, Donald E. 2,882,056.
- Hooker, Donald E. 2,882,057.
- Nicolaus, Frank G. 2,895,340.
- Swenson, Thure R. 2,908,180.
- Molotsky, Hyman M., to Velsicol Chemical Corp. 1,2,3,4,7-pentachlorobicyclo-[2.2.1]-2,5-heptadiene ethers. 2,897,240, 7-28-59, Cl. 260-611.
- Molotsky, Hyman M., and E. G. Ballweber, to Velsicol Chemical Corp. 1,2,3,4,5,5-hexachloro-4-hydroxymethylcyclopent-2-ene carboxylic acid derivatives. 2,871,255, 1-27-59, Cl. 260-468.
- Molotsky, Hyman M., and S. B. Richter, to Velsicol Chemical Corp. Hexachlorobicyclo-diaminophenyl ethers. 2,901,509, 8-25-59, Cl. 260-571.
- Molotsky, Hyman M., and S. B. Richter, to Velsicol Chemical Corp. Hexachloro-5-phenyldiamine bicyclo-(2.2.1)-2-heptene. 2,901,510, 8-25-59, Cl. 260-578.
- Molstad, Melvin C.: *See*—
- Snyder, John R., Hagerty, and Molstad. 2,871,109.
- Molstedt, Byron V.: *See*—
- Boistre, Worth W., Molstedt, Stringer, and Griffin. 2,874,095.
- Borey, Daniel S., Jahngig, and Molstedt. 2,889,265.
- Whiteley, Robert S., and Molstedt. 2,881,133.
- Molt, Richard P., to Standard Railway Equipment Mfg. Co. Railway car door post. 2,884,874, 5-5-59, Cl. 105-409.
- Molyneux, Cecil P., to Filitors, Inc. Electrically-operated latching relays. 2,916,584, 12-8-59, Cl. 200-104.
- Molyneux, John, to The English Electric Co. Ltd. Lead-screw locking devices. 2,915,913, 12-8-59, Cl. 74-424.8.
- Momberg, Vernon B. Subtracting circuit. 2,900,501, 8-18-59, Cl. 250-27.
- Monack, Albert J., to Mycalex Electronics Corp. of America. Method of making an electrode structure. 2,903,826, 9-15-59, Cl. 49-81.
- Monaco, Anthony L.: *See*—
- Barr, Martin, and Monaco. 2,918,405.
- Monaco, Anthony T., to Motorola, Inc. Stand for television receiver. 2,893,674, 7-7-59, Cl. 248-183.
- Monaghan, Alfred C.: *See*—
- Lopez, John P., and Monaghan. 2,876,731.
- Monaghan, J. J., Co., Inc.: *See*—
- Haverland, William H. 2,881,757.
- Monaghan, Ralph, to Well Surveys, Inc. Differential conductivity pipe testing. 2,892,977, 6-30-59, Cl. 324-37.
- Monagle, John J.: *See*—
- Chambers, Robert R., Elkins, and Monagle. 2,899,419.
- Monahan, Frederick A., to General Dynamics Corp. Method and apparatus for chemically boring metallic material. 2,867,929, 1-13-59, Cl. 41-9.
- Monahan, Jack J.: *See*—
- House, Allston L., and Monahan. 2,885,076.
- Monarch Aluminum Mfg. Co.: *See*—
- Keating, John H. 2,882,142.
- Keating, John H. 2,896,378.
- Monarch Cement Co., The: *See*—
- Fegely, Harris V. 2,885,157.
- Monarch Controller Co. Ltd., The: *See*—
- Stephens, Robert R. 2,896,995.
- Monarch Engineering Corp.: *See*—
- Hatch, James W. 2,883,246.
- Hatch, James W. 2,897,586.
- Monarch Machine Tool Co., The: *See*—
- Enyeart, Duane B., and Flannigan. 2,877,655.
- Guschung, Nagle V., and Flannigan. 2,898,891.
- Nichols, Charles E., and Burdge. 2,878,704.
- Obrebski, John, and Guschung. 2,871,886.
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- Monarch Metal Weatherstrip Corp.: *See*—
- Goellner, John A. 2,912,726.
- Monch, Jacob: *See*—
- Duttine, Adam. 2,907,196.
- Monckton, Kendall C. F. Locking adjustable handle for hand tools. 2,890,613, 6-16-59, Cl. 81-177.8.
- Moncrieff, Alexander D. F., to Michigan Tool Co. Hobbing machine. 2,888,858, 6-2-59, Cl. 90-4.
- Moncrieff, Alexander D. F., to Michigan Tool Co. Apparatus for orienting workpieces. 2,889,023, 6-2-59, Cl. 193-43.
- Moncrieff-Yeates, Alexander J., to Radio Corp. of America. Electrographographic charging means. 2,904,431, 9-15-59, Cl. 96-1.
- Monday, John C., to Hevi Duty Electric Co. Heating apparatus. 2,907,857, 10-6-59, Cl. 219-10.51.
- Mondl, Don P. Protective hood for room air conditioners. 2,892,424, 6-30-59, Cl. 108-3.
- Mondl, Don P. Protective hood for room air conditioners. 2,901,989, 9-1-59, Cl. 108-3.
- Mondria, Hendrik: *See*—
- Alders, Lucas, Fortuin, Mondria, and Reman. 2,915,558.
- Doorn, Johannes, Mondria, de Rijk, and Hendal. 2,915,449.
- Mondria, Hendrik, and W. H. Logman, to Shell Development Co. Removing soot from an aqueous slurry by means of an oil-in-water emulsion. 2,903,423, 9-8-59, Cl. 210-21.



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 Johnson, Reynold B., Moneagle, Koranye, Jurgens, and Prater. 2,889,110.  
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 Monego, Constantin J., W. J. Manning, and H. D. Ponty, to United States of America, Army. Apparatus for measuring resistance of fabrics to thermal decomposition. 2,895,327, 7-21-59, Cl. 73-15.  
 Monelli, Lorenzo. High-efficiency pump, more particularly for remote hydraulic power transmissions. 2,905,098, 9-22-59, Cl. 103-157.  
 Monett, Edward. Apparatus for molding rubber products. 2,880,460, 4-7-59, Cl. 18-30.  
 Monetta, John P. Hinged face guards. 2,892,195, 6-30-59, Cl. 2-9.  
 Money, Reynard H. Portable barbecue cooker. 2,867,165, 1-6-59, Cl. 99-423.  
 Moneymaker, Bruce M. Tapping tool with drive release means. 2,881,454, 4-14-59, Cl. 10-129.  
 Moneymaker, Elton G.: *See*—  
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 Monfore, Gervaise E., to United States of America, Interior. Standardizing strain gage. 2,889,528, 6-2-59, Cl. 338-6.  
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 Monforts, Casper: *See*—  
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 Mongello, Thomas. Photoelectric strafing target. 2,878,589, 3-24-59, Cl. 35-25.  
 Mongiello, Angelo A. Cheese ball weighing and shaping machine. 2,893,121, 7-7-59, Cl. 31-46.  
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 Lambert, Henri J. M., and Mongin. 2,873,161.  
 Monin, Claude, to Compagnie Industrielle des Telephones. Magnetic amplifier. 2,915,645, 12-1-59, Cl. 307-88.  
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 Monot, Pierre L. V. Excipient. 2,890,983, 6-16-59, Cl. 167-58.  
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 Monroe, William J., to Pittsburgh Plate Glass Co. Cleaning spray nozzles. 2,899,929, 8-18-59, Cl. 118-302.  
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 Barnes, Marion D., and Lea. 2,887,945.  
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 Bennett, George E., and Cameron. 2,889,356.  
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- Monson, Louis T., and W. J. Dickson, to Petrolite Corp. Process for preparing oxyalkylated derivatives with alkylene carbonates. 2,888,482, 5-26-59, Cl. 260-473.
- Monson, Louis T., and F. W. Jenkins, to Petrolite Corp. Process for breaking emulsions of the oil-in-water class. 2,914,484, 11-24-59, Cl. 252-331.
- Montagna, Amelio E., to Union Carbide Corp. Purification of acetoacetic esters by distillation. 2,900,311, 8-18-59, Cl. 202-57.
- Montagna, Amelio E., D. G. Kubler, and J. J. Brezinski, to Union Carbide Corp. Production of polymeric compositions and derivatives thereof. 2,876,239, 3-3-59, Cl. 260-404.
- Montagna, Amelio E., and E. R. Lashley, to Union Carbide Corp. Production of organic acids from aldehydes. 2,887,496, 5-19-59, Cl. 260-345.7.
- Montagna, Amelio E., and D. H. Hirsh, to Union Carbide Corp. Preparation of 1,3-alkadiene ethers. 2,905,722, 9-22-59, Cl. 260-614.
- Montagna, Amelio E., and E. R. Lashley, Jr., to Union Carbide Corp. Production of dehydroacetic acid. 2,912,441, 11-10-59, Cl. 260-343.5.
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- Montgomery, Charles W., and W. A. Pardee, to Gulf Research & Development Co. Process for the manufacture of boron trichloride. 2,876,076, 3-3-59, Cl. 23-205.
- Montgomery, Charles W., W. I. Gilbert, and J. G. McNulty, to Gulf Research & Development Co. Diester lubricant. 2,886,590, 5-12-59, Cl. 260-484.
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- Montgomery, Charles W., W. C. Starnes, and R. C. Zabor, to Gulf Research & Development Co. Hydroisomerization process. 2,910,523, 10-27-59, Cl. 260-683.65.
- Montgomery, Clarence G.,  $\frac{1}{4}$  to C. G. Montgomery,  $\frac{1}{4}$  to G. C. Graham,  $\frac{1}{4}$  to F. Pannizzo, and  $\frac{1}{4}$  to I. J. Kunik. Time control mechanism. 2,898,992, 8-11-59, Cl. 161-1.
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- Montgomery, Malcolm B., Jr.,  $\frac{1}{2}$  to E. W. Montgomery II. Plug and face plate. 2,895,119, 7-14-59, Cl. 339-91.
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- Bozer, Keith B., Montgomery, and Archer. 2,875,100.
- Montgomery, Robert S., to The Dow Chemical Co. Non-corrodent aqueous media. 2,878,191, 3-17-59, Cl. 252-392.
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- Moody, Floyd O., and D. H. Siebenthaler, to General Motors Corp. Toggle. 2,906,132, 9-29-59, Cl. 74-100.
- Moody, Norman F., and C. D. Florida, to Her Majesty the Queen in The Right of Canada, as represented by the Minister of National Defence. Monostable two-state apparatus. 2,896,094, 7-21-59, Cl. 307-88.5.
- Moody, Steven M., to Lear, Inc. Tandem electromagnetic clutch construction. 2,903,110, 9-8-59, Cl. 192-21.5.
- Moody, Steven M., to Lear, Inc. Zero-backlash coupling for shafts or the like. 2,903,867, 9-15-59, Cl. 64-15.
- Moore, Alden J., and C. E. Vogel, to Minneapolis-Honeywell Regulator Co. Automatic hovering control system. 2,873,075, 2-10-59, Cl. 244-17.13.
- Moore, Howard T., to Minneapolis-Honeywell Regulator Co. Transistor motor control. 2,888,622, 5-26-59, Cl. 318-257.
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- Moon, Clifford G., to Draper Corp. Loom stopping means. 2,881,807, 4-14-59, Cl. 139-336.
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- Mooney, Philip F., to James Lees and Sons Co. Improved harness cord tie-up for jacquards. 2,884,960, 5-5-59, Cl. 139-59.
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- Mooney, John F. Swimming aid. 2,898,611, 8-11-59, Cl. 9-21.
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- Mooney, Melvin, and T. L. Ether, to United States Rubber Co. Method of molding articles. 2,880,468, 4-7-59, Cl. 18-58.3.
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Nelson, Herbert, and Moore. 2,897,377.
- Stripp, Kenneth F., and Moore. 2,874,083.
- Moore, Ben M., and E. E. Litkenhous. Soil reclamation machine and method including washing. 2,884,742, 5-5-59, Cl. 47-58.
- Moore, Bobbie D., and P. L. Johnson, to General Motors Corp. Ice block harvester. 2,917,907, 12-22-59, Cl. 62-344.
- Moore, Buell: *See*—  
Calmes, Dallas L. 2,907,870.
- Moore Business Forms, Inc.: *See*—  
Hageman, Louis F. 2,887,206.
- Hermann, Joseph R. 2,913,981.
- Sornberger, George E., and Wakeman. 2,907,585.
- Moore, Charles H., to E. I. du Pont de Nemours and Co. Yarn guide. 2,919,080, 12-29-59, Cl. 242-157.
- Moore, Clarence C. Magnetic recorder. 2,873,318, 2-10-59, Cl. 179-100.2.
- Moore, Clarence D., to Armstrong Cork Co. Polychloroprene and butadiene-styrene copolymer adhesive composition and process of preparing same. 2,884,400, 4-28-59, Cl. 260-33.6.
- Moore, Clarence D., to Armstrong Cork Co. Method of curing polychloroprene at room temperature. 2,892,806, 6-30-59, Cl. 260-41.5.
- Moore, Clark A., to A. E. Moore Co., Inc. Control mechanism and circuit for garage doors and the like. 2,882,045, 4-14-59, Cl. 268-59.
- Moore, Clyde M. Nested shipping drums with built-in pallet. 2,872,079, 2-3-59, Cl. 222-143.
- Moore, Clyde M. Pressure sealed joint. 2,889,019, 6-2-59, Cl. 189-36.
- Moore, Clyde M., to Moorex Industries, Inc. Intersecting joint construction. 2,904,144, 9-15-59, Cl. 189-36.
- Moore, Coleman B., to Moore Products Co. Pneumatic dimension gages. 2,881,528, 4-14-59, Cl. 33-172.
- Moore, Craig M.: *See*—  
Rutledge, Hal M., and Moore. 2,907,928.
- Moore, Craig M., to The Superior Switchboard & Devices Co. Combination by-pass and disconnect device for ringless socket block assembly. Re. 24,705, 9-29-59, Cl. 339-19.
- Moore, Danny R.: *See*—  
Meadows, Charles L. 2,897,590.
- Moore, David P. Rotatable cylinder knitting machines. 2,880,600, 4-7-59, Cl. 68-9.
- Moore, David P. Cold water paints. 2,890,966, 6-16-59, Cl. 106-91.
- Moore, David P. Bottles and stoppers therefor. 2,914,207, 11-24-59, Cl. 215-47.
- Moore, David W., to Servomechanisms, Inc. Force-ratio responsive system. 2,869,367, 1-20-59, Cl. 73-182.
- Moore, David W., and W. E. Blair, to Servomechanisms, Inc. Ice detectors. 2,901,741, 8-25-59, Cl. 340-234.
- Moore, Donald F. Circuits for counting electrical pulses. 2,915,632, 12-1-59, Cl. 250-27.
- Moore, Derek: *See*—  
Colley, Rowan H., Basford, Moore, and Pearce. 2,916,876.
- Moore, Earl D., and R. J. Reed. Adjustable silk screen device. 2,909,116, 10-20-59, Cl. 101-126.
- Moore, Edgar S.: *See*—  
Zakrzewski, Andrew S., Ashby, Daskiewicz, and Moore. 2,870,805.
- Moore, Edward H., to The Gems Co. Flow indicator. 2,892,051, 6-23-59, Cl. 200-81.9.
- Moore Fabrics, Inc.: *See*—  
Schiappa, Antonio. 2,918,093.
- Moore, Fennon F. Formation test tool packer setting tool. 2,870,846, 1-27-59, Cl. 166-185.
- Moore, Forrest M. Tape coating apparatus. 2,876,730, 3-10-59, Cl. 118-43.
- Moore, Francis R., to General Motors Corp. Turbocharger. 2,918,207, 12-22-59, Cl. 230-116.
- Moore, Frank, to M. Turchan, d.b.a. Turchan Follower Machine Co. Automatic two dimensional follower control for machine tools. 2,891,384, 6-23-59, Cl. 60-97.
- Moore, Frank C.: *See*—  
Mattox, William E., and Moore. 2,881,112.
- Moore, Fred W.: *See*—  
Kluge, Herman D., and Moore. 2,868,823.
- Moore, Frederic H.: *See*—  
Beavon, David K., and Moore. 2,906,797.
- Moore, George A. Method of sealing closure to container. 2,875,563, 3-3-59, Cl. 53-39.
- Moore, George A. Portable carrier. 2,879,100, 3-24-59, Cl. 294-87.2.
- Moore, George A. Container. 2,880,924, 4-7-59, Cl. 229-37.
- Moore, George A. Method and apparatus for making container for liquid products. 2,898,822, 8-11-59, Cl. 93-51.
- Moore, George A. Container closure. 2,902,204, 9-1-59, Cl. 229-37.
- Moore, George E.: *See*—  
Kraus, Kurt A., and Moore. 2,872,284.
- Moore, George E., to United States of America, Atomic Energy Commission. Treatment of plutonium solution with NO or NO<sub>2</sub> prior to removal of tetravalent plutonium from said solution by carrier precipitation. 2,886,407, 5-12-59, Cl. 23-14.5.
- Moore, George E., to Blaw-Knox Co. Tube turner for plug mills. 2,892,366, 6-30-59, Cl. 80-11.
- Moore, George H. Electronic fluid treatment method and apparatus. 2,889,275, 6-2-59, Cl. 210-18.
- Moore, George R. Retaining walls. 2,880,588, 4-7-59, Cl. 61-39.
- Moore, Guy R., to Thompson Ramo Wooldridge, Inc. Tappet barrel. 2,891,525, 6-23-59, Cl. 123-90.
- Moore and Hall: *See*—  
Toulon, Pierre M. G. 2,911,465.
- Moore, Harold K., to Ford Motor Co. Electrical regulator device for generators. 2,912,635, 11-10-59, Cl. 322-25.
- Moore, Harry D., C. R. James, and D. R. Kibbey, to The Ohio State University. Safety drill bushing. 2,877,673, 3-17-59, Cl. 77-62.
- Moore, Harry O., to Silabert Corp. Fishing lure agitator. 2,882,638, 4-21-59, Cl. 43-26.1.
- Moore, Harry O., to Silabert Corp. Electrically operated stapler with movable anvil. 2,883,666, 4-28-59, Cl. 1-3.
- Moore, Harry O. Time delay apparatus. 2,899,518, 8-11-59, Cl. 200-84.
- Moore, Harry W. Clutch and brake mechanism. 2,891,642, 6-23-59, Cl. 192-18.
- Moore, Harry W. Rotary to oscillating drive. 2,893,250, 7-7-59, Cl. 74-29.
- Moore, Harry W. Equipolse lock for balancing machine. 2,904,362, 9-15-59, Cl. 287-99.
- Moore, Howard, to Cook Electric Co. Pulse suppressing apparatus. 2,876,859, 3-10-59, Cl. 181-48.
- Moore, Howard R. Preparation of cellular polyurethane resins. 2,889,291, 6-2-59, Cl. 260-2.5.
- Moore, Howard R., and J. R. Jenness, Jr. Surface tack and softness measuring method. 2,914,942, 12-1-59, Cl. 73-150.
- Moore, James D.: *See*—  
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- Moore, James E. Automobile service tray. 2,885,250, 5-5-59, Cl. 311-21.



- Moore, James G.: *See*—  
Montgomery, Duncan B., and Moore. 2,891,045.
- Moore, James K., and S. Schneider, to Burroughs Corp. High frequency relay. 2,909,674, 10-20-59, Cl. 307-88.
- Moore, James K., and S. Schneider, to Burroughs Corp. Conditional steering gear for a complementing flip flop. 2,909,680, 10-20-59, Cl. 307-88.5.
- Moore, James W., to W. Murray. Vertical shelf conveyor. 2,875,014, 2-24-59, Cl. 312-268.
- Moore, Jerry W., Jr.: *See*—  
Elston, William A., McElwee, Moore, and Tomerlin. 2,896,332.
- Moore, Jimmy J., and J. D. Rold, to United States of America, Navy. Triggered transistor oscillator circuit to replace a sensitive D. C. relay. 2,877,360, 3-10-59, Cl. 307-88.5.
- Moore, Joe F., and B. W. Thomas, to Esso Research and Engineering Co. Automatic control of chilled solutions. 2,905,616, 9-22-59, Cl. 208-35.
- Moore, Joe F., and T. H. Royder, to Esso Research and Engineering Co. Dewaxing of oils by line filtration followed by rotary filtration. 2,914,456, 11-24-59, Cl. 208-38.
- Moore, John C.: *See*—  
Harper, Billy G., Brown, and Moore. 2,894,289.
- Moore, John G.: *See*—  
Brown, Keith B., Crouse, and Moore. 2,877,250.
- Moore, John H.: *See*—  
McAdam, Will, and Moore. 2,901,563.
- Moore, John P. Washing machine. 2,875,603, 3-3-59, Cl. 68-269.
- Moore, Joseph E., to United States of America, Agriculture. Process for reacting wool with organic diisocyanates in the presence of a tertiary amine. 2,880,054, 3-31-59, Cl. 8-127.6.
- Moore, Joseph E., and H. P. Lundgren, to United States of America, Agriculture. Process for preventing yellowing of wool. 2,888,315, 5-26-59, Cl. 8-127.6.
- Moore, Joseph M. Plastic-snap holder for articles. 2,883,061, 4-21-59, Cl. 211-13.
- Moore, Laurence L., to Winslow Engineering and Mfg. Co. Filter. 2,904,186, 9-15-59, Cl. 210-437.
- Moore, Lee C., Corp.: *See*—  
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- Woolslayer, Homer J., Jenkins, and Iddings. 2,889,898.
- Moore, Lindsay B., to James Hunter, Inc. Dobby loop. 2,904,079, 9-15-59, Cl. 139-84.
- Moore, Louis D., Jr.: *See*—  
Young, De Walt S., Schulken, and Moore. 2,875,176.
- Moore, Marietta T. Machine for forming package trays. 2,867,157, 1-6-59, 93-37.
- Moore, Marjorie B.: *See*—  
Wright, Howard B., and Moore. 2,870,147.
- Wright, Howard B., and Moore. 2,870,149.
- Wright, Howard B., and Moore. 2,870,150.
- Wright, Howard B., and Moore. 2,870,151.
- Moore, Marlin C. Automatic chain lubricator. 2,908,355, 10-13-59, Cl. 184-15.
- Moore, Milford B.: *See*—  
Smith, Clarence E., Nerwin, and Moore. 2,902,913.
- Moore, Nada. Clip-on hair pin tray. 2,867,882, 1-13-59, Cl. 24-253.
- Moore, Nolan P. W.: *See*—  
Howland, Alfred H., Hughes, Ford, and Moore. 2,868,857.
- Moore, Norman, to S. Klein Department Stores, Inc. Display stand for wearing apparel. 2,901,307, 8-25-59, Cl. 312-140.3.
- Moore, Norman C., and J. B. Huffadine, to The Plessey Co. Ltd. Friction members having sintered compositions. 2,893,112, 7-7-59, Cl. 29-182.5.
- Moore, Pernel J., to National Lead Co. Hydrocarbon detection. 2,871,105, 1-27-59, Cl. 23-230.
- Moore, Pernel J., to National Lead Co. Well logging. 2,876,078, 3-3-59, Cl. 23-230.
- Moore, Pernel J., to National Lead Co. Hydrocarbon detection. 2,904,406, 9-15-59, Cl. 23-232.
- Moore Products Co.: *See*—  
Mackenzie, Elbert K. 2,915,045.
- Namzie, Charles L. 2,872,806.
- Moore, Coleman B. 2,881,528.
- Moore, Ralph W., and C. H. Bradley, Jr., to Pangborn Corp. Rotary smoother and desmudger. 2,881,570, 4-14-59, Cl. 51-87.
- Moore, Ray R.: *See*—  
Hudkins, Clyde, and Moore. 2,870,506.
- Moore, Raymond E., to General Electric Co. Magnetic amplifier sensing and motor control combinations. 2,892,974, 6-30-59, Cl. 318-259.
- Moore, Raymond J., to Northrop Aircraft, Inc. Pre-contouring honeycomb cores before expansion of the honeycomb. 2,885,772, 5-12-59, Cl. 29-407.
- Moore, Rhea. Transmission supporting device. 2,894,707, 7-14-59, Cl. 248-323.
- Moore, Richard E.: *See*—  
Battenberg, Virgil, Miller, Detamore, and Moore. 2,883,178.
- Moore, Richard N., and R. V. Lawrence, to United States of America, Agriculture. Preparation of oxygenated resin acid derivatives. 2,899,463, 8-11-59, Cl. 260-514.5.
- Moore, Richard S.: *See*—  
McGill, Lincoln A., and Moore. 2,885,976.
- Moore, Richard S. Boat propeller. 2,875,723, 3-3-59, Cl. 115-29.
- Moore, Richard V., and G. Packman, to United States of America, Atomic Energy Commission. Nuclear reactor fuel element. 2,885,335, 5-5-59, Cl. 204-193.2.
- Moore, Robert B., Jr.: *See*—  
Stanley, John C., Moore, Frazier, and Williams. 2,899,930.
- Moore, Robert C., to Philco Corp. Carrier-wave modulating system. 2,886,632, 5-12-59, Cl. 178-5.4.
- Moore, Robert C., to Philco Corp. Amplitude measuring circuit. 2,896,073, 7-21-59, Cl. 250-27.
- Moore, Robert C., to Philco Corp. Horizontal deflection system for cathode ray tubes. 2,900,565, 8-18-59, Cl. 315-27.
- Moore, Robert C., to Philco Corp. Horizontal deflection system for cathode ray tubes. 2,903,621, 9-8-59, Cl. 315-27.
- Moore, Robert C., and J. B. Chatten, to Philco Corp. Color television system. 2,875,271, 2-24-59, Cl. 178-5.2.
- Moore, Robert E., and W. E. Kessell, to Amana Refrigeration, Inc. Mounting structure. 2,880,952, 4-7-59, Cl. 248-208.
- Moore, Robert J., E. E. Ryder, Jr., and R. C. Jones, to Shell Development Co. Lubricating oil compositions. 2,913,412, 11-17-59, Cl. 252-42.7.
- Moore, Robert L.: *See*—  
Brescka, Rudolph S., Moore, and Schaufelberger. 2,894,112.
- Briskin, Theodore S., Moore, and Rom. 2,909,098.
- Callis, Clayton F., and Moore. 2,903,332.
- Moore, Robert L., to United States of America, Atomic Energy Commission. Oxidation of transuranic elements. 2,874,025, 2-17-59, Cl. 23-14.5.
- Moore, Robert L., to United States of America, Atomic Energy Commission. Solvent composition for recovery of metal values from aqueous solutions by solvent extraction. 2,902,454, 9-1-59, Cl. 252-364.
- Moore, Robert L., and S. L. Pastor, to Revere Camera Co. Magnetic sound recorder-reproducer. 2,877,958, 3-17-59, Cl. 242-55.12.
- Moore, Robert S., to The Procter & Gamble Co. Non-volatile mercaptan and hydroxylamine impregnated end wrap and method of use. 2,869,559, 1-20-59, Cl. 132-7.
- Moore, Rollin A. Socket wrench. 2,909,090, 10-20-59, Cl. 81-90.
- Moore, Samuel, & Co.: *See*—  
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- Moore, Sewell T.: *See*—  
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- Schuller, Walter H., Thomas, Moore, and House. 2,884,058.
- Woodberry, Norman T., Moore, and Jen. 2,890,978.
- Moore and Steele Corp.: *See*—  
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- Moore, Sultan J. Shoe support with resilient standards. 2,910,718, 11-3-59, Cl. 15-265.
- Moore, Sylvia M.: *See*—  
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- Moore, Thomas F.: *See*—  
Slobod, Robert L., Dunlap, and Moore. 2,918,579.
- Moore, Thomas H., to Radio Corp. of America. Magnetic systems. 2,898,579, 8-4-59, Cl. 340-174.
- Moore, Thomas J. Smoker's set. 2,894,514, 7-14-59, Cl. 131-174.
- Moore, Thomas M.: *See*—  
Valentine, Albert H., and Moore. 2,910,604.
- Moore, Thomas M., to Standard Oil Co. Start-up procedure for regenerative platinum catalyst hydroformers. 2,880,162, 3-31-59, Cl. 208-65.
- Moore, Thomas M., and H. I. Weck, to Standard Oil Co. Start-up of regenerative platinum catalyst hydroforming systems. 2,880,161, 3-31-59, Cl. 208-65.
- Moore, Thomas R.: *See*—  
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- Moore, Thomas W., and W. S. Wiseman, to American Machine & Foundry Co. High speed rotor for dynamo electric machines. 2,872,605, 2-3-59, Cl. 310-183.
- Moore, Thomas W., to American Machine & Foundry Co. Starting system for dynamo electric machines. 2,883,607, 4-21-59, Cl. 322-12.
- Moore, Tilford, to Lawrence Brothers, Inc. Hinged door stop. 2,889,571, 6-9-59, Cl. 16-82.
- Moore, Vernon L., to Phillips Petroleum Co. Chemically resistant containers. 2,914,169, 11-24-59, Cl. 206-84.
- Moore, Vernon P., and J. V. Shepherd. Textile fiber sorter. 2,910,731, 11-3-59, Cl. 19-65.
- Moore, Victor C.: *See*—  
Edsall, Bruce M., and Moore. 2,903,912.
- Moore, Victor C., to General Motors Corp. Twin turbine transmission with plural ratio drive gearing. 2,884,809, 5-5-59, Cl. 74-67.7.
- Moore, Walter E., to Swing-A-Way Mfg. Co. Ice crusher. 2,870,969, 1-27-59, Cl. 241-238.
- Moore, Walter E., to Knapp-Monarch Co. Latch construction for an automatically opening cooking appliance. 2,873,879, 2-17-59, Cl. 220-55.7.
- Moore, Walter E., to Swing-A-Way Mfg. Co. Portable ice crusher. 2,902,226, 9-1-59, Cl. 241-100.
- Moore, Warren, Jr., to Minneapolis-Honeywell Regulator Co. Electrical control apparatus. 2,868,458, 1-13-59, Cl. 236-69.



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- Moore, Warren, Jr., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,907,931, 10-6-59, Cl. 317-148.5.
- Moore, William A.,  $\frac{3}{4}$  to K. B. Thompson and  $\frac{1}{4}$  to D. G. Angus. Stereoscopic viewing system. 2,889,739, 6-9-59, Cl. 88-16.6.
- Moore, William A., to Telecomputing Corp. Pressure loaded seal. 2,911,184, 11-3-59, Cl. 251-173.
- Moore, William A. Well swab. 2,912,291, 11-10-59, Cl. 309-33.
- Moore, William C., to Welch Allyn, Inc. Orificial instrument construction. 2,896,611, 7-28-59, Cl. 128-3.
- Moore, William F., deceased; S. M. Moore, administratrix. Portable oxygen supply. 2,877,766, 3-17-59, Cl. 128-203.
- Moore, William H., to Meehanite Metals Corp. Ferrous alloy. 2,885,284, 5-5-59, Cl. 75-124.
- Moore, William H., and W. E. Gruver, Jr., to Meehanite Metal Corp. Process for improved silicate bonded foundry molds and cores. 2,883,723, 4-28-59, Cl. 22-193.
- Moore, William P. Ladder scaffold with guard rail. 2,910,135, 10-27-59, Cl. 182-113.
- Moorefield, Herbert H., to Union Carbide Corp. Insecticidal compositions containing 1-naphthyl-N-methylcarbamate and sulfoxide as a synergist therefor. 2,904,463, 9-15-59, Cl. 167-32.
- Moorefield, Herbert H., to Union Carbide Corp. Insecticidal compositions containing 1-naphthyl-N-methylcarbamate and piperonyl butoxide as a synergist therefor. 2,904,464, 9-15-59, Cl. 167-32.
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- Moorex Industries, Inc.: See—  
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- Moorhead, James B.: See—  
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- Moorhead, John G.: See—  
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- Moorhead, John O., and R. D. Mulry, to Texas Instruments, Inc. Electrical switch structures. 2,907,851, 10-6-59, Cl. 200-138.
- Moorhead, Milton M., Jr., and H. Brier, to The Commonwealth Engineering Co. of Ohio. Device for control of locomotive slippage. 2,918,882, 12-29-59, Cl. 105-48.
- Moorhead, Paul E.: See—  
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- Moorhead, Seth B., Jr., to ACF Industries, Inc. Arming device. 2,915,013, 12-1-59, Cl. 102-70.2.
- Moorman, Cletus L.: See—  
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- Moorman, Earl F., to International Harvester Co. Multiple contact electrical switch. 2,909,625, 10-20-59, Cl. 200-16.
- Moorman, Edward W.: See—  
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- Moorman, Edward W., and H. Noyes, to The Dayton Rubber Co. Oxygen delivery tube. 2,917,568, 12-15-59, Cl. 174-47.
- Moorman, Robert W.: See—  
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- Moormeier, Louis F.: See—  
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- Moors, Hubert J.: See—  
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- Moos, Kaspar. Lighting fittings. 2,892,076, 6-23-59, Cl. 240-25.
- Mooschekian, Benjamin: See—  
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- Mooschekian, Rueben: See—  
Monoogian, Charles A. 2,898,206.
- Mooschekian, Samuel: See—  
Monoogian, Charles A. 2,898,206.
- Mooschekian, Theodore: See—  
Monoogian, Charles A. 2,898,206.
- Moosmann, Alois. Pneumatic gear-shift arrangements for toothed wheel change-speed gears, especially for machine tools. 2,899,031, 8-11-59, Cl. 192-18.
- Moosmüller, Fritz: See—  
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- Moote, Truman P.: See—  
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- Mora, Antonio,  $\frac{1}{2}$  to K. Schlegel. Hand-operated slicing devices for bakery products. 2,883,748, 4-28-59, Cl. 30-304.
- Moran Corp., The: See—  
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Campbell, Francis K. 2,878,391.  
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- Moran, Harold J., to Switlik Parachute Co., Inc. Inflatable life preserver. 2,886,835, 5-19-59, Cl. 9-17.
- Moran, Harold J., to Switlik Parachute Co., Inc. Parachute harness and garments incorporating same. 2,887,286, 5-19-59, Cl. 244-143.
- Moran, Harold J., to Switlik Parachute Co., Inc. Quick detachable parachute harness connector. 2,902,737, 9-8-59, Cl. 24-211.
- Moran, James: See—  
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- Moran, John H., Jr.: See—  
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- Moran, Joseph A. Foldable hand cart. 2,891,802, 6-23-59, Cl. 280-36.
- Moran, Joseph I., and W. E. Bopp, to Portal Products Corp. Shell mold machine and method. 2,893,079, 7-7-59, Cl. 22-35.
- Morano, Angelo: See—  
Morano, Nicholas and A. 2,887,672.
- Morano, Nicholas and A. Dump body warning signal. 2,887,672, 5-19-59, Cl. 340-52.
- Morano, Patrick J., to Even-Pul Foundations, Inc. Girdles. 2,873,744, 2-17-59, Cl. 128-554.
- Moraski, Walter J. Model railroad track clamp. 2,915,249, 12-1-59, Cl. 238-10.
- Morawetz, Herbert: See—  
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- Morawitz, John H., and J. C. Burger. Rocker telephone stand. 2,882,349, 4-14-59, Cl. 179-147.
- Morawski, London T.: See—  
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Parker, John J., and Morawski. 2,877,022.  
Parker, John J., and Morawski. 2,878,706.  
Parker, John J., and Morawski. 2,878,707.  
Parker, John J., and Morawski. 2,879,067.  
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- Morbeck, Robert C.: See—  
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- Morbeck, Robert C., to Esso Research and Engineering Co. Hydroforming catalytic pentenes. 2,904,501, 9-15-59, Cl. 208-79.
- Morbeck, Robert C., S. O. Bronson, II, and S. B. Sweetser, to Esso Research and Engineering Co. Combined thermal reforming, catalytic cracking and hydrofining process to improve engine cleanliness. 2,877,172, 3-10-59, Cl. 208-79.
- Morcerf, Francis J., Jr., and D. R. Maure, to General Electric Co. Reference voltage source. 2,869,068, 1-13-59, Cl. 323-22.
- Morden Machines Co.: See—  
Honeyman, Robert B. 2,876,443.
- Morden, Russell L.: See—  
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- Mordovaney, Michael. Weather-proof slide bolt locking means. 2,912,845, 11-17-59, Cl. 70-125.
- More, Arthur R., to H. W. Wallace & Co. Ltd. Hardness tester. 2,914,937, 12-1-59, Cl. 73-81.
- Morehead, James B. Fishhook. 2,906,054, 9-29-59, Cl. 43-43.16.
- Morehead, Laurel A., to Chemetron Corp. Sharp angle or re-entrant corner templet device. 2,904,886, 9-22-59, Cl. 33-23.
- Morehouse, Clarence K.: See—  
Glicksman, Richard, and Morehouse. 2,897,249.  
Lozier, Gerald S., Glicksman, and Morehouse. 2,874,079.
- Morehouse, Clarence K., and R. Glicksman, to Radio Corp. of America. Primary cells. 2,874,204, 2-17-59, Cl. 136-100.
- Morehouse, Clarence K., and R. Glicksman, to Radio Corp. of America. Primary cells. 2,880,122, 3-31-59, Cl. 136-137.
- Morehouse, Edward L.: See—  
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- Morehouse, Glenn H.: See—  
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- Morehouse, Glenn H., to Morehouse Industries, Inc. Diffuser and paint mixer. 2,910,278, 10-27-59, Cl. 259-96.
- Morehouse Industries, Inc.: See—  
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- Morehouse, Neal F.: See—  
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- Moreines, Harold: See—  
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- Morel, Stanley L. Submarine attitude control system. 2,873,710, 2-17-59, Cl. 114-16.
- Morel, Theodor: See—  
Rinse, Jacobus, and Morel. 2,910,493.
- Moreland, Ethelbert H. Hand control for automobile brake and accelerator pedals. 2,899,835, 8-18-59, Cl. 74-181.
- Moreland, Marjorie E., and D. H. Reheis. Bacteriostat. 2,904,462, 9-15-59, Cl. 167-14.
- Moreland, Stephen T. Method and apparatus for forming seamless capsules. 2,897,854, 8-4-59, Cl. 141-242.
- Moreland, Walter T.: See—  
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- Moreland, Walter T., and E. J. Agnello, to Chas. Pfizer & Co. Inc. Process for producing 3-keto- $\Delta^{4,6}$ -steroids. 2,883,379, 4-21-59, Cl. 260-239.55.
- Moreland, William J., to United States of America, Air Force. Differentially controlled twin wheel landing gear. 2,911,168, 11-3-59, Cl. 244-50.
- Moreno Camba, Carlos. Locking device with sliding plug. 2,910,860, 11-3-59, Cl. 70-338.
- Moreno, Charles A., to Sperry Rand Corp. Dual lens antenna for tracking and searching. 2,888,674, 5-26-59, Cl. 343-74.



- Morenus, George H.: *See*—  
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- Morenus, Gerald H.: *See*—  
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- Moreton, Alfred G.: *See*—  
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- Moreton, Douglas H., to Douglas Aircraft Co., Inc. Fire-resistant hydraulic fluid. 2,894,911, 7-14-59, Cl. 252-78.
- Moreton, Douglas H., to Douglas Aircraft Co., Inc. Fire-resistant hydraulic fluid and lubricating composition. 2,903,428, 9-8-59, Cl. 252-49.8.
- Moretti, Francesco, to Officine Meccaniche e Fonderie A. Bosco S. p. A. Scraper blade device. 2,870,911, 1-27-59, Cl. 210-147.
- Moretti, Whitfield, and L. C. Pratt, to Millers Falls Co. Router depth adjustment means. 2,867,251, 1-6-59, Cl. 144-134.
- Morey, Everett D., to General Electric Co. Clothes dryer with clothes odorizing means. 2,873,539, 2-17-59, Cl. 34-133.
- Morey Machinery Co., Inc.: *See*—  
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- Morey, Sigmund M., and Casella. 2,893,269.
- Morey, Norval K.: *See*—  
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- Morey, Richard F., Jr., to Clivette Corp. Self-starting transistor oscillator unit. 2,916,704, 12-8-59, Cl. 331-113.
- Morey, Sigmund M., and S. L. Casella, to Morey Machinery Co., Inc. Mechanism for controlling movement of a machine tool part. 2,893,269, 7-7-59, Cl. 74-785.
- Morfitt, John W.: *See*—  
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- Morgan, Adolph R.: *See*—  
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- Morgan, Arthur H.: *See*—  
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- Morgan, Arthur I., Jr., to United States of America, Agriculture. Heat treatment of sugar beet juice. 2,898,245, 8-4-59, Cl. 127-50.
- Morgan, Bryan E.: *See*—  
Birdwell, Bertie F., Priest, and Morgan. 2,894,584.
- Priest, Gerald G., Morgan, Lytle, Caldwell, and Birdwell. 2,898,294.
- Morgan, Burton D., to Avery Adhesive Products, Inc. Precut self-adhesive stencil. 2,917,998, 12-22-59, Cl. 101-128.1.
- Morgan, Carroll Z.: *See*—  
Armstrong, Warren E., and Morgan. 2,870,228.
- Armstrong, Warren E., and Morgan. 2,916,531.
- Morgan, Charles A. Ever safe pin. 2,900,691, 8-25-59, Cl. 24-159.
- Morgan, Charles E.: *See*—  
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- Morgan, Chub. Toy horse and undercarriage. 2,883,202, 4-21-59, Cl. 280-1.194.
- Morgan, Chub. Gear powered toy horse. 2,883,203, 4-21-59, Cl. 280-1.195.
- Morgan Construction Co.: *See*—  
Burns, Bernard L. 2,909,045.
- Hitchcock, John H. 2,868,292.
- Hitchcock, John H. 2,909,275.
- Holbrook, John A. 2,868,359.
- Morgan, Myles. 2,881,835.
- Murrah, Edmund S. 2,867,908.
- Rich, Charles A., Jr. 2,868,574.
- Morgan, David I.: *See*—  
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- Morgan, David L., to Robertshaw-Fulton Controls Co. Thermostatic steam trap. 2,914,251, 11-24-59, Cl. 236-56.
- Morgan Development Laboratories, Inc.: *See*—  
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- Morgan, Porter S. 2,897,932.
- Morgan, Forrest C., to Phillips Petroleum Co. Two zone pumping. 2,910,002, 10-27-59, Cl. 103-4.
- Morgan, Frederick F. L., to Holman Brothers Ltd. Traps for particles in an airstream. 2,878,627, 3-24-59, Cl. 51-270.
- Morgan, George C., and W. P. De Bardeleben, to Continental Gin Co. Rotating air seal. 2,888,966, 6-2-59, Cl. 144-208.
- Morgan, Jack L., to Yates-American Machine Co. Heat exchange apparatus. 2,873,098, 2-10-59, Cl. 257-236.
- Morgan, James A.: *See*—  
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- Morgan, John M., Jr., to The Cincinnati Milling Machine Co. Tracing apparatus. 2,868,087, 1-13-59, Cl. 90-13.5.
- Morgan, John S.: *See*—  
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- Morgan, Joseph A.: *See*—  
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- Morgan, Karl Z.: *See*—  
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- Morgan, Lyman W.: *See*—  
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- Morgan, MacDonald C.: *See*—  
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- Morgan Machine Co., Inc.: *See*—  
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- Morgan, Mark, to International Business Machines Corp. Automatic machine tool. 2,901,927, 9-1-59, Cl. 77-4.
- Morgan, Maurice P.: *See*—  
Schurger, Garner H., and Morgan. 2,892,389.
- Morgan, Mervyn J., Wild, and R. W. Duncan, to Marconi's Wireless Telegraph Co. Ltd. Radio distance measuring systems. 2,903,692, 9-8-59, Cl. 343-12.
- Morgan, Milford B., and A. W. Crumrine, to Caterpillar Tractor Co. Full flow filter with oil retaining means. 2,886,180, 5-12-59, Cl. 210-438.
- Morgan, Millett G., to United States of America, Navy. Duplexer. 2,886,812, 5-12-59, Cl. 343-17.1.
- Morgan, Myles, to Morgan Construction Co. Shear. 2,881,835, 4-14-59, Cl. 164-62.
- Morgan Packing Co., Inc.: *See*—  
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- Morgan, Paul E., to United Shoe Machinery Corp. Machines for producing porous plastic blocker insoles. 2,902,081, 9-1-59, Cl. 154-1.
- Morgan, Porter S., to Morgan Development Laboratories, Inc. Color changing spinning toy. 2,875,553, 3-3-59, Cl. 46-49.
- Morgan, Porter S., to Morgan Development Laboratories, Inc. Ratchet-type tools and clutches therefor. 2,897,932, 8-4-59, Cl. 192-44.
- Morgan, Porter S., to Morgan-Whitney-Matarese Corp. Combined zoetrope and phonograph. 2,913,954, 11-24-59, Cl. 88-16.2.
- Morgan, Ralph E., to The Timken Roller Bearing Co. Apparatus for measuring lubricant or the like. 2,882,999, 4-21-59, Cl. 184-7.
- Morgan, Raymond E., and H. M. Ogle, to General Electric Co. Magnetic amplifiers with biased rectifiers. 2,897,293, 7-28-59, Cl. 179-171.
- Morgan, Rubie F. Fuel pump. 2,877,713, 3-17-59, Cl. 103-89.
- Morgan, Russell H.: *See*—  
Sturm, Ralph E., and Morgan. 2,899,494.
- Morgan, Russell H. System for the automatic adaptation of television camera apparatus to varying light intensity levels. 2,901,539, 8-25-59, Cl. 178-7.2.
- Morgan, Russell L., and E. R. Kolodny, to American Cyanamid Co. Hydraulic cement compositions containing acrylamide-acrylic acid copolymers and method of making same. 2,868,753, 1-13-59, Cl. 260-29.6.
- Morgan, Samuel P., to Bell Telephone Laboratories, Inc. Mode conversion in wave guides. 2,904,759, 9-15-59, Cl. 333-98.
- Morgan, Thomas H. Vibrator. 2,872,902, 2-10-59, Cl. 121-17.
- Morgan, Willard L., to Libbey-Owens-Ford Glass Co. Anti-glare rear view mirror with forward view areas. 2,876,676, 3-10-59, Cl. 88-77.
- Morgan-Whitney-Matarese Corp.: *See*—  
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- Morganite Inc.: *See*—  
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- Morgardshammars Mekaniska Verkstads AB: *See*—  
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- Morgenstern, David M., to Package Machinery Co. Apparatus for and method of die casting under vacuum. 2,904,861, 9-22-59, Cl. 22-73.
- Morgren, C. A., Co.: *See*—  
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- Mori, Ernest A., to Gulf Research & Development Co. Fluid proportioning apparatus. 2,873,889, 2-17-59, Cl. 222-134.
- Mori, Ernest A., to Gulf Research & Development Co. Fluid proportioning valve. 2,912,994, 11-17-59, Cl. 137-98.
- Mori, Shizuo, and S. Suzuki, to Toyo Rayon Co., Ltd. Bobbin or spool. 2,875,961, 3-3-59, Cl. 242-118.32.
- Moriarty, Daniel L., Jr.: *See*—  
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- Moriarty, Edward L.: *See*—  
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- Morin, Duane E.: *See*—  
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- Morin, Faith C.: *See*—  
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- Morin, Louis H. Jam-freeing slider for separable fasteners. 2,867,881, 1-13-59, Cl. 24-205.15.
- Morin, Louis H., to West Chemical Products Inc. Machine for milling slots in fanfold paper towels. 2,869,430, 1-20-59, Cl. 90-16.
- Morin, Louis H. Labeled plastic containers. 2,873,877, 2-17-59, Cl. 220-44.
- Morin, Louis H. Method of producing internally threaded members. 2,875,486, 3-3-59, Cl. 22-200.
- Morin, Louis H. Angular scoop guide sliders for separable fastener stringers. 2,875,491, 3-3-59, Cl. 24-205.15.
- Morin, Louis H. Method of and apparatus for assembling sliders with separable fastener stringers. 2,879,588, 3-31-59, Cl. 29-408.
- Morin, Louis H. Slider for separable fasteners. 2,882,576, 4-21-59, Cl. 24-205.14.
- Morin, Louis H. Jam-freeing-type slider. 2,882,578, 4-21-59, Cl. 24-205.15.
- Morin, Louis H., to Coats & Clark Inc. Machine for moulding, forming and trimming plastic products. 2,883,707, 4-23-59, Cl. 18-30.
- Morin, Louis H. Method of first casting, then cooling and then applying scoops to stringer tapes. 2,885,775, 5-12-59, Cl. 29-410.
- Morin, Louis H., to Coats & Clark Inc. Plastic spool with lightened rims. 2,887,282, 5-19-59, Cl. 242-118.7.



- Morin, Louis H. Compression bottom stops for separable fastener stringers. 2,887,749, 5-26-59, Cl. 24-205.11.
- Morin, Louis H. Duplex separable fasteners for uniting multiple members. 2,889,605, 6-9-59, Cl. 24-205.
- Morin, Louis H. Universal lamp swivel connectors. 2,890,067, 6-9-59, Cl. 285-166.
- Morin, Louis H., to Coats & Clark Inc. Spool casting die and core structure. 2,890,487, 6-16-59, Cl. 18-42.
- Morin, Louis H., to Coats & Clark, Inc. Die and core structures for producing molded spool bodies. 2,890,490, 6-16-59, Cl. 18-45.
- Morin, Louis H. Button shanks. 2,896,285, 7-28-59, Cl. 24-90.
- Morin, Louis H. Automatic lock sliders. 2,900,695, 8-25-59, Cl. 24-205.14.
- Morin, Louis H. Plastic scoop with cast nubbin insert. 2,901,802, 9-1-59, Cl. 24-205.13.
- Morin, Louis H., to Coats & Clark, Inc. Plastic spool. 2,902,234, 9-1-59, Cl. 242-118.7.
- Morin, Louis H., to Coats & Clark Inc. Snap-on rims for plastic spools. 2,902,235, 9-1-59, Cl. 242-118.61.
- Morin, Louis H., to Coats & Clark Inc. Labeled plastic spool. 2,902,783, 9-8-59, Cl. 40-10.
- Morin, Louis H. Separable fastener stringers employing separated coupled scoops. 2,907,087, 10-6-59, Cl. 24-205.13.
- Morin, Louis H. Watertight separable fasteners. 2,910,754, 11-3-59, Cl. 24-205.1.
- Morin, Louis H., to Coats & Clark Inc. Machine for casting rims on spools. 2,914,800, 12-1-59, Cl. 18-5.
- Morin, Louis H., to Coats & Clark Inc. Apparatus for producing superimposed castings between three relatively movable dies. 2,914,805, 12-1-59, Cl. 18-42.
- Morin, Richard D.: *See—*  
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- Morin, Wilfred F.: *See—*  
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- Moring, Walter G., Jr., and G. T. Gray, to Toledo Scale Corp. Permutation member tooth design. 2,895,337, 7-21-59, Cl. 74-1.
- Morini, Marcello: *See—*  
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- Morison, David G., to Resistance Welders Ltd. Flash-butt resistance welding machines. 2,894,114, 7-7-59, Cl. 219-101.
- Morison, Ollie L.: *See—*  
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- Morison, Rodney, and W. V. Roberts, to United States of America, Navy. Firing circuit. 2,906,206, 9-29-59, Cl. 102-70.2.
- Morison, Warrick D., Jr.: *See—*  
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- Moritz, Donald B., to Waco Mfg. Co. Combination table and bench construction. 2,917,108, 12-15-59, Cl. 155-124.
- Mork, Ralph G., to International Business Machines Corp. Signaling system. 2,902,684, 9-1-59, Cl. 340-324.
- Mork, Ralph G., to International Business Machines Corp. Light gun assembly. 2,915,643, 12-1-59, Cl. 250-217.
- Mork, Raymond P., to Raytheon Mfg. Co. Heating apparatus. 2,888,542, 5-26-59, Cl. 219-105.5.
- Mork, Raymond P., to Raytheon Co. Conversion of binary coded information to pulse pattern form. 2,894,254, 7-7-59, Cl. 340-347.
- Morkoski, James, to International Harvester Co. Vehicle hitch having friction type surge dampener. 2,912,256, 11-10-59, Cl. 280-449.
- Morley, Clifford D.: *See—*  
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- Morley, Frederick W. W.: *See—*  
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- Morley, Frederick W. W., and P. Redfern, to Rolls-Royce Ltd. Variable area jet propulsion nozzles for jet propulsion engines. 2,906,090, 9-29-59, Cl. 60-35.6.
- Morley, Frederick W. W., and H. Cook, to Rolls-Royce Ltd. Gas turbine engine fuel systems. 2,916,875, 12-15-59, Cl. 60-39.28.
- Morley, Lawrence W., to Her Majesty the Queen in The Right of Canada, as represented by the Minister of Mines and Technical Surveys. Method and apparatus for inductive prospecting. 2,919,397, 12-29-59, Cl. 324-6.
- Morley, William J.: *See—*  
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- Mornard, Rene H. J. Faucets. 2,876,988, 3-10-59, Cl. 251-333.
- Morneault, Alphonse A. Shoe polishing kit. 2,869,168, 1-20-59, Cl. 15-258.
- Morning Coffee, Inc.: *See—*  
Brown, Charles H. 2,894,110.
- Morning, John L., to E. I. du Pont de Nemours and Co. Process for melting metals. 2,870,006, 1-20-59, Cl. 75-84.
- Morningstar, Alfred L., and L. G. Hallas. Deformable self-supporting shield. 2,887,154, 5-19-59, Cl. 160-351.
- Moro, Antonio, to S. P. A. Fratelli Borletti. Means for adjusting the stroke of the feed dog in sewing-machines. 2,868,150, 1-13-59, Cl. 112-210.
- Moro, Antonio, to S. P. A. Fratelli Borletti. Coiler for the hook in sewing machines. 2,871,809, 2-3-59, Cl. 112-218.
- Moro-Lin, Joseph J. Stripper for coin mailers. 2,900,097, 8-18-59, Cl. 214-310.
- Morone, Joseph P., Jr., to P. R. Mallory & Co., Inc. Socket structure. 2,882,512, 4-14-59, Cl. 339-193.
- Morphy-Richards Ltd.: *See—*  
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- Morrell Aluminum Products, Inc.: *See—*  
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- Morrell, James N., to E-I-M Co., Inc. Integral valve control unit. 2,876,315, 3-3-59, Cl. 200-168.
- Morrell, James N. Control for valve or the like. 2,916,947, 12-15-59, Cl. 74-625.
- Morrell, John P. Steering mechanism for lift trucks. 2,875,842, 3-3-59, Cl. 180-64.
- Morrell, John P. Power driven material handling trucks. 2,875,852, 3-3-59, Cl. 187-9.
- Morrell, John P. Hydraulic lift trucks. 2,899,093, 8-11-59, Cl. 214-700.
- Morrell, Samuel R. Extensible power tool support. 2,889,723, 6-9-59, Cl. 77-7.
- Morren, Henri, to Union Chimique Belge Societe Anonyme. Piperazine ethers and their method of preparation. 2,899,436, 8-11-59, Cl. 260-268.
- Morrill, Charles D., H. L. Hosterman, Jr., and P. R. Vance, to Goodyear Aircraft Corp. Curve follower. 2,875,389, 2-24-59, Cl. 318-31.
- Morrill, Frank B., to James Hunter Machine Co. Needle loom. 2,896,303, 7-28-59, Cl. 28-4.
- Morrill, Melvin V. Washing device with water pickup attachment. 2,885,713, 5-12-59, Cl. 15-322.
- Morrill, Ralph C. Aquarium with habitat effect. 2,879,742, 3-31-59, Cl. 119-5.
- Morrill, Wayne J. Winding forms for dynamoelectric machines. 2,894,157, 7-7-59, Cl. 310-179.
- Morris, Albert J., and J. P. Swanson, to Levinthal Electronic Products, Inc. High voltage pulse generator. 2,871,380, 1-27-59, Cl. 307-106.
- Morris, Albert R., and A. Svac. Bushing extractor. 2,889,618, 6-9-59, Cl. 29-267.
- Morris, Alberto J., to R. A. Lister & Co. Ltd. Internal combustion engine with piston having combustion cavity in its head. 2,870,754, 1-27-59, Cl. 123-32.
- Morris, Alberto J., to R. A. Lister & Co. Ltd. Fuel injector of air-cooled compression ignition engine. 2,887,994, 5-26-59, Cl. 123-32.
- Morris, Beulah B.: *See—*  
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- Morris, Carol W., to Pitman Mfg. Co. Hydraulic folding gooseneck boom. 2,888,151, 5-26-59, Cl. 212-144.
- Morris, Charles H. F. Jr.: *See—*  
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- Morris, Clifford M.: *See—*  
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- Morris, Donald E., to General Motors Corp. Ice detector and control system. 2,874,259, 2-17-59, Cl. 219-19.
- Morris, Earl F.: *See—*  
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Carlyle, Robert L., and Morris. 2,895,913.
- Morris, Earl L., to Acorn Engineering Co. Combination drain and support for freestanding and throughstanding stanchions. 2,885,689, 5-12-59, Cl. 4-145.
- Morris, Earl L., and G. L. Curtice, to Acorn Engineering Co. Fixture carrier construction. 2,903,712, 9-15-59, Cl. 4-170.
- Morris, Edward H.: *See—*  
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- Morris, Eunice A. Mammary prostheses. 2,875,449, 3-3-59, Cl. 3-36.
- Morris, Evelyn C. Dress shields. 2,886,820, 5-19-59, Cl. 2-54.
- Morris, Evelyn C. and B. B. Dress shields. 2,898,598, 8-11-59, Cl. 2-56.
- Morris, Frank A.: *See—*  
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- Morris, Frank A., to General Dynamics Corp. Linkage allotting system for automatic telephone system. 2,872,521, 2-3-59, Cl. 179-15.
- Morris, Frank A., to General Dynamics Corp. Demodulator circuit. 2,881,313, 4-7-59, Cl. 250-27.
- Morris, Frank A., and M. A. Clement, to General Dynamics Corp. Automatic subscriber identification system. 2,877,311, 3-10-59, Cl. 179-17.
- Morris, Frank A., J. D. Confeld, H. L. Foote, and H. S. Gleason, to General Dynamics Corp. Automatic toll ticketing. 2,886,642, 5-12-59, Cl. 179-7.1.
- Morris, Frank A., and R. B. Trousdale, to General Dynamics Corp. Telephone system. 2,889,406, 6-2-59, Cl. 179-15.
- Morris, Frank A., M. A. Clement, and B. A. Harris, to General Dynamics Corp. Automatic subscriber identification system. 2,894,068, 7-7-59, Cl. 179-7.1.
- Morris, Frank J. Sheet ceiling material elevator. 2,883,073, 4-21-59, Cl. 214-1.
- Morris, George L.,  $\frac{1}{2}$  to M. R. Hurst. Telescoping metal pallet. 2,909,349, 10-20-59, Cl. 248-120.
- Morris, George L.,  $\frac{1}{2}$  to M. R. Hurst. Pallet for shipping sheet material. 2,909,350, 10-20-59, Cl. 248-120.
- Morris, George V., to Zenith Radio Corp. Code card device. 2,874,977, 2-24-59, Cl. 283-6.
- Morris, George V., to Zenith Radio Corp. Antenna structure. 2,882,527, 4-14-59, Cl. 343-788.
- Morris, George V., to United States of America, Army. Air driven reed electric generator. 2,895,063, 7-14-59, Cl. 310-15.
- Morris, George V., to Zenith Radio Corp. Switching apparatus. 2,902,559, 9-1-59, Cl. 200-87.



- Morris, George V., to Zenith Radio Corp. Subscription television encoding apparatus. 2,910,553, 10-27-59, Cl. 200-46.
- Morris, George V., and E. M. Roschke, to Zenith Radio Corp. Subscription television system. 2,909,592, 10-20-59, Cl. 178-5.1.
- Morris, Glen B., to Collins Radio Co. In-line reversing mechanism. 2,905,023, 9-22-59, Cl. 74-792.
- Morris, Herman J., to United States of America, Agriculture. Means for detecting enzyme activity. 2,905,594, 9-22-59, Cl. 195-103.5.
- Morris, Howard E. Variable speed reducer. 2,881,626, 4-14-59, Cl. 74-342.
- Morris, Hueie L. Pipe laying and transporting device for bulldozers. 2,881,928, 4-14-59, Cl. 214-1.
- Morris, James F., to The Kendall Co. Method of making fused film laminates. 2,879,547, 3-31-59, Cl. 18-55.
- Morris, Jean K.: *See—*
- Morris, William W. 2,871,329.
- Morris, John, Jr., to Chemical Appliances, Inc. Swivel joints in connectors for steam lines of railway cars. 2,901,273, 8-25-59, Cl. 285-281.
- Morris, John L. Detachable tarpaulin arrangement. 2,889,171, 6-2-59, Cl. 296-100.
- Morris, John M., to Carrier Conveyor Corp. Vibratory bag flattener. 2,877,704, 3-17-59, Cl. 100-70.
- Morris, John M., to Carrier Conveyor Corp. Vibratory conveyor spring assembly. 2,885,067, 5-5-59, Cl. 198-220.
- Morris, John M., to Carrier Conveyor Corp. Resilient mount for conveyors and the like. 2,914,313, 11-24-59, Cl. 267-1.
- Morris, John N., to The S. U. Carburetter Co. Ltd. Fuel supply system for spark-ignition fuel injection internal combustion engines. 2,899,953, 8-18-59, Cl. 123-179.
- Morris, John N., to The S. U. Carburetter Co. Ltd. Fuel injection pumps. 2,915,014, 12-1-59, Cl. 103-38.
- Morris, John, & Sons (Detectors) Ltd.: *See—*
- Lingard, Cyril A. 2,909,926.
- Morris, Joseph. Mechanical hammer. 2,869,374, 1-20-59, Cl. 74-22.
- Morris, Joseph. Hammer. 2,889,711, 6-9-59, Cl. 74-22.
- Morris, Kenneth G.: *See—*
- Roediger, Joseph C., and Morris. 2,906,687.
- Morris, Kenneth G., J. C. Roediger, R. G. Newberg, and A. F. Sayko, to Esso Research and Engineering Co. Process for preparing high quality asphalt-copolymer compositions. 2,889,296, 6-2-59, Cl. 260-28.5.
- Morris, Leo, and A. L. Wilson, to Corn Products Co. Process for recovering whole zein. 2,882,265, 4-14-59, Cl. 260-123.
- Morris, Leo R.: *See—*
- Mock, Richard A., Marshall, and Morris. 2,910,445.
- Morris, Leo R., to The Dow Chemical Co. Vinylphenyl aliphatic aminocarboxylic acid polymers. 2,875,162, 2-24-59, Cl. 260-2.1.
- Morris, Leo R., to The Dow Chemical Co. Chelating resins having  $\alpha$ -aminocarboxylic acid groups on a polymerized vinylbenzylamine resin structure. 2,888,441, 5-26-59, Cl. 260-78.
- Morris, Lucien E. Anesthesia apparatus. 2,890,696, 6-16-59, Cl. 128-188.
- Morris Motors Ltd.: *See—*
- Harris, Michael G., and Walker. 2,899,177.
- Morris, Myron J. Dual boring attachment. 2,879,675, 3-31-59, Cl. 74-665.
- Morris, Nathan K. Food chopper. 2,895,520, 7-21-59, Cl. 146-160.
- Morris, Phillip, Inc.: *See—*
- Seligman, Robert B. 2,879,298.
- Morris, Ray R. Grease dispenser heater. 2,894,102, 7-7-59, Cl. 219-19.
- Morris, Robert A.: *See—*
- Jones, Clarence I., and Morris. 2,879,142.
- Morris, Robert B., to Westinghouse Air Brake Co. Anti-freezer for pipe lines. 2,899,977, 8-18-59, Cl. 138-34.
- Morris, Robert C., and W. L. Brown, 3rd, to American Hatchery Engineers, Inc. Vacuum transfer machine. 2,903,290, 9-8-59, Cl. 294-65.
- Morris, Robert J., to American Machine & Foundry Co. Cigarette machine. 2,918,923, 12-29-59, Cl. 131-94.
- Morris, Rupert C.: *See—*
- Conklin, George W., and Morris. 2,886,575.
- Van Winkle, John L., Bell, and Morris. 2,875,224.
- Van Winkle, John L., Bollo, and Morris. 2,915,875.
- Van Winkle, John L., and Morris. 2,874,184.
- Watson, Forrest J., Morris, and Van Winkle. 2,874,120.
- Morris, Thomas C., and A. M. Chaplick, to B. B. Chemical Co. Thermoplastic polyamide-epoxy adhesives. 2,867,592, 1-6-59, Cl. 260-18.
- Morris, Thomas C., and E. C. Johnson, to B. B. Chemical Co. Polyethylene containing adhesive. 2,894,925, 7-14-59, Cl. 260-27.
- Morris, Wheeler & Co., Inc.: *See—*
- Spodobalski, Joseph W. 2,899,848.
- Wiley, Richard T. 2,877,905.
- Morris, William C. Fatty acid screen vehicles. 2,872,326, 2-3-59, Cl. 106-19.
- Morris, William C., to General Electric Co. Negative-phase-sequence responsive apparatus. 2,897,407, 7-28-59, Cl. 317-47.
- Morris, William C., and A. O. Tesar, to The Harshaw Chemical Co. Ceramic pigments. 2,875,085, 2-24-59, Cl. 106-299.
- Morris, William W.,  $\frac{1}{2}$  to C. B. Ellis and  $\frac{1}{2}$  to J. K. Morris. Electrical resistance wire nets and terminals. 2,871,329, 1-27-59, Cl. 201-63.
- Morrish, Leonard M., to General Motors Corp. Induction heating means. 2,888,001, 5-26-59, Cl. 123-122.
- Morrish, Leonard M., and L. E. Muller, to General Motors Corp. Exhaust muffler means. 2,881,852, 4-14-59, Cl. 181-57.
- Morrish, Leonard M., and L. E. Muller, to General Motors Corp. Muffler. 2,899,007, 8-11-59, Cl. 181-54.
- Morrison, Charles A., to Eastman Kodak Co. Dust meter. 2,898,803, 8-11-59, Cl. 88-14.
- Morrison, Charles C., to F. N. Burt Co., Inc. Container. 2,867,348, 1-6-59, Cl. 220-31.
- Morrison, Charles F. Wheeled conveyors for elongated objects. 2,882,064, 4-14-59, Cl. 280-44.
- Morrison, Charles S., to Deere & Co. Implement mounting means. 2,900,034, 8-18-59, Cl. 172-273.
- Morrison, Charles S., to Deere & Co. Potato deviner. 2,911,978, 11-10-59, Cl. 130-30.
- Morrison, Clyde A.: *See—*
- Jones, George R., Cacheris, and Morrison. 2,897,455.
- Morrison, Clyde W. Brazing furnace construction. 2,874,949, 2-24-59, Cl. 263-40.
- Morrison Co., The: *See—*
- Morrison, George F., Breul, and Frentzel. 2,877,849.
- Morrison, David, to General Time Corp. Pull-set mechanism. 2,914,907, 12-1-59, Cl. 58-80.
- Morrison, Fernum F. Leveling device. 2,889,126, 6-2-59, Cl. 248-157.
- Morrison, George F., G. B. Breul, and H. C. Frentzel, to The Morrison Co. Well system. 2,877,849, 3-17-59, Cl. 166-67.
- Morrison, Harold E., to Whirlpool Corp. Gas burner. 2,867,272, 1-6-59, Cl. 158-113.
- Morrison, James L. D. Hot beverage dispenser. 2,883,921, 4-28-59, Cl. 99-275.
- Morrison, Jerome L. Extensible leaf support and lock means for an extendable table. 2,868,597, 1-13-59, Cl. 311-55.
- Morrison, John A., and L. H. Olson, to Boeing Airplane Co. Cowl securing means. 2,879,959, 3-31-59, Cl. 244-129.
- Morrison, John G.: *See—*
- Mansfield, Richard C., Morrison, and Schmidle. 2,874,119.
- Morrison, Joseph D.: *See—*
- Baker, Bertsil B., and Morrison. 2,870,067.
- Morrison, Joseph I. Air flow control device. 2,915,956, 12-8-59, Cl. 98-40.
- Morrison, Lawrence L., to Component Designers, Inc. Trimming potentiometer. 2,895,116, 7-14-59, Cl. 338-180.
- Morrison, Lawrence R., and E. E. Erikson. Advertising spinner. 2,896,349, 7-28-59, Cl. 40-39.
- Morrison, Peter: *See—*
- Armstrong, William J., Morrison, and Myhre. 2,905,011.
- Morrison, Robert F., Jr., to Emerson Radio & Phonograph Corp. Phase and frequency modifying apparatus for electrical waves. 2,908,813, 10-13-59, Cl. 250-20.
- Morrison, Robert O.,  $\frac{1}{2}$  to Fishel's Awning & Supply Co. Pouring spout for water bags. 2,891,704, 6-23-59, Cl. 222-543.
- Morrison, Russell A.: *See—*
- Cronk, Milo M., and Morrison. 2,907,476.
- Morrison, Russell P., J. D. Sproul, and A. Dunlap. Boat trailer motor support. 2,914,199, 11-24-59, Cl. 214-84.
- Morrison, Stephen C., and M. T. Williams, to Hughes Aircraft Co. Pulse rate measuring circuit. 2,891,149, 6-16-59, Cl. 250-27.
- Morrison, Thomas S.,  $\frac{1}{2}$  to Halax Corp. Diaphragm mounting. 2,913,007, 11-17-59, Cl. 137-791.
- Morrison, Willard L.: *See—*
- Brown, Edwin H., and Morrison. 2,890,123.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Apparatus for making soap. 2,876,082, 3-3-59, Cl. 23-290.5.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method and apparatus for composting manure. 2,878,112, 3-17-59, Cl. 71-9.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method and apparatus for chilling perishable materials such as foodstuffs. 2,889,689, 6-9-59, Cl. 62-64.
- Morrison, Willard L., to Constock Liquid Methane Corp. Insulated tank with impervious lining. 2,889,953, 6-9-59, Cl. 220-9.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Shipper container. 2,892,563, 6-30-59, Cl. 220-15.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Shipper container. 2,892,564, 6-30-59, Cl. 220-15.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method for storing and shipping foodstuffs and the like. 2,894,373, 7-14-59, Cl. 62-64.
- Morrison, Willard L., to Constock Liquid Methane Corp. Method of liquefying natural gas. 2,900,796, 8-25-59, Cl. 62-11.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method and apparatus for preserving perishable material. 2,901,891, 9-1-59, Cl. 62-60.
- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Spark ignition device for internal combustion engines. 2,904,610, 9-15-59, Cl. 123-169.



- Morrison, Willard L., to The Union Stock Yard and Transit Co. of Chicago. Method of preparing and handling ice cream, sherbet, ices and the like. 2,909,433, 10-20-59, Cl. 99—136.
- Morrison, William A., to Ingersoll-Rand Co. Fluid actuated percussive tool. 2,886,004, 5-12-59, Cl. 121—10.
- Morrison, William G., Jr., to Union Carbide Corp. Moisture resistant brazing rod. 2,897,106, 7-28-59, Cl. 148—23.
- Morrissey, Richard T., to The B. F. Goodrich Co. Molding composition comprising fused aluminum silicate in fiber and pellet form and process of making same. 2,877,198, 3-10-59, Cl. 260—29.3.
- Morrissey, William M., Jr., and J. A. Dahlgren, to General Electric Co. Refrigerator cabinet. 2,889,901, 6-9-59, Cl. 189—88.
- Morro, William C., Jr., and R. B. McBride, to Union Carbide Corp. Acetylene separation system. 2,891,633, 6-23-59, Cl. 183—115.
- Morrow, Albert P., and J. L. Kopf. Soluble coffee and process of extracting the same. 2,888,349, 5-26-59, Cl. 99—71.
- Morrow, Elmore F., to Avro Aircraft Ltd. Quick release mechanism. 2,870,510, 1-27-59, Cl. 24—230.
- Morrow, Fred A. Hose fitting having male or female coupling means. 2,908,512, 10-13-59, Cl. 285—12.
- Morrow, Harry C., to United States Steel Corp. Troughed belt conveyor. 2,897,955, 8-4-59, Cl. 198—202.
- Morrow, Harry E., to Diamond Chain Co., Inc. Method of making annular elements for power-transmission chains. 2,883,738, 4-28-59, Cl. 29—149.5.
- Morrow, John G., to Freeport Sulphur Co. Recovery of cobalt and nickel from ores. 2,872,306, 2-3-59, Cl. 75—101.
- Morrow, Joseph H. Expandable piston for internal combustion engines. 2,884,290, 4-28-59, Cl. 309—10.
- Morrow, Nolen C. Socket wrench adapter. 2,871,744, 2-3-59, Cl. 81—185.
- Morrow Products, Inc.: See—  
Morrow, Robert D. 2,913,636.
- Morrow, Robert D., to Morrow Products, Inc. Headlight dimming devices. 2,913,636, 11-17-59, Cl. 317—124.
- Morse Chain Co.: See—  
Sharp, Theo F. 2,909,938.
- Morse, Charles H., to Remington Arms Co., Inc. Magazine inertia latch. 2,877,590, 3-17-59, Cl. 42—6.
- Morse, Charles L. Circle cutter. 2,906,145, 9-29-59, Cl. 77—69.
- Morse, Charles L. Keyhole saw. 2,916,066, 12-8-59, Cl. 145—31.
- Morse, Edward A., to Personal Products Corp. Thermoplastic paper. 2,899,351, 8-11-59, Cl. 162—146.
- Morse, Francis, to General Electric Co. Flow indicator. 2,917,922, 12-22-59, Cl. 73—228.
- Morse Instrument Co., The: See—  
Harbaugh, Philip W. 2,875,636.  
Morse, John F., and Waner. 2,907,421.  
Morse, John F., and Waner. 2,909,776.
- Morse, John F., Single lever outboard motor control. 2,884,109, 4-28-59, Cl. 192—098.
- Morse, John F., and D. W. Waner, to The Morse Instrument Co. Single lever engine control. 2,907,421, 10-6-59, Cl. 192—096.
- Morse, John F., and D. W. Waner, to The Morse Instrument Co. Television antenna for vehicles. 2,909,776, 10-20-59, Cl. 343—799.
- Morse, Malcolm S., to United States of America, Commerce. Temperature regulating tube shield. 2,902,262, 9-1-59, Cl. 257—2.
- Morse, Milton. Pressure equalizing hermetically sealing boot. 2,870,300, 1-20-59, Cl. 200—168.
- Morse, Milton. Self-grounding electrical plug. 2,876,426, 3-3-59, Cl. 339—14.
- Morse, Milton. Molded self-grounding electrical plug construction. 2,897,469, 7-28-59, Cl. 339—14.
- Morse, Milton. Electrical power plug. 2,915,737, 12-1-59, Cl. 339—195.
- Morse, Park L., to American Gilsonite Co. Insulating and corrosion protective material. 2,903,409, 9-8-59, Cl. 208—22.
- Morse, Richard A.: See—  
Campion, Frank E., Glass, and Morse. 2,901,043.  
Costa, Joseph L., Glauber, Morse, Politzer, and Sixthor. 2,890,865.
- Morse, Richard A., and M. J. Rzasa, to Pan American Petroleum Corp. Heavy oil recovery. 2,881,838, 4-14-59, Cl. 166—40.
- Morse, Roland B. Tractor hitch. 2,880,812, 4-7-59, Cl. 172—460.
- Morse-Starrett Products Co.: See—  
Ferreira, Fred R. 2,905,959.  
Ward, Adelbert V. 2,905,960.
- Morse, William H., to Westinghouse Electric Corp. Quiet squirrel-cage motors. 2,900,537, 8-18-59, Cl. 310—51.
- Morse, William L. Angular position indicator. 2,877,561, 3-17-59, Cl. 33—215.
- Morss, Robert C. Amusement device. 2,895,257, 7-21-59, Cl. 46—43.
- Mortek, Ernst: See—  
Steiner, Fritz, and Mortek. 2,881,373.
- Mortensen, Peter E.: See—  
Carlton, Raymond R., and Mortensen. 2,898,708.
- Mortenson, Everett N., to Swift & Co. Plant food manufacture. 2,885,279, 5-5-59, Cl. 71—42.
- Mortenson, Lawrence E.: See—  
Haverly, LeRoy N., and Mortenson. 2,891,806.
- Mortimer, Edmund W., to Garrard Engineering and Mfg. Co. Ltd. Mountings for record changer units. 2,879,960, 3-31-59, Cl. 248—20.
- Mortimer, Frank R., to Dunlop Rubber Co. Ltd. Fluid pressure dampers. 2,877,800, 3-17-59, Cl. 138—26.
- Mortimer, Harry T. Magnetic frequency changer. 2,883,604, 4-21-59, Cl. 321—68.
- Mortimer, Harry T. Modulator. 2,883,605, 4-21-59, Cl. 321—68.
- Mortimer, Richard B.: See—  
Rycraft, Dale, Jr., and Mortimer. 2,909,984.
- Mortley, Wilfrid S., to Marconi's Wireless Telegraph Co. Ltd. Frequency changing circuit arrangements. 2,882,394, 4-14-59, Cl. 250—20.
- Morton, Allen W., to A. W. Morton. Superposed lock nuts having offset conical mating surfaces. 2,886,086, 5-12-59, Cl. 151—15.
- Morton Chemical Co.: See—  
Baldoni, Andrew A., and Miyashiro. 2,914,451.  
Schwarz, Morton. 2,880,132.  
Seven, Raymond P. 2,894,873.
- Morton Chemical Corp.: See—  
Walton, Harold F., and Waugh. 2,871,252.
- Morton, David C.: See—  
Packman, Percival J., and Morton. 2,881,900.
- Morton, Evans T., to Admiral Corp. Hinge structure for containers. 2,867,842, 1-13-59, Cl. 16—189.
- Morton, Evans T., and W. H. Weinrich, to Admiral Corp. Dehumidifier. 2,867,993, 1-13-59, Cl. 62—297.
- Morton, George A.: See—  
Young, Charles J., and Morton. 2,875,370.
- Morton, George A., to Radio Corp. of America. Electron multiplier. 2,903,595, 9-8-59, Cl. 250—207.
- Morton, George A., and M. W. Green, to United States of America, Atomic Energy Commission. Secondary electron multipliers. 2,867,729, 1-6-59, Cl. 250—207.
- Morton, Glen R. Disposable grease container. 2,899,112, 8-11-59, Cl. 222—325.
- Morton, Harold S., Jr., to Union Carbide Corp. Liquid vortex arc torch process. 2,906,858, 9-29-59, Cl. 219—121.
- Morton, Henry C.: See—  
Runton, Leslie A., and Morton. 2,890,041.  
Runton, Leslie A., and Morton. 2,906,567.  
Runton, Leslie A., and Morton. 2,906,569.  
Runton, Leslie A., and Morton. 2,908,028.  
Runton, Leslie A., and Morton. 2,908,532.  
Runton, Leslie A., and Morton. 2,908,535.  
Runton, Leslie A., and Morton. 2,918,316.
- Morton, Henry C., to The Russell Mfg. Co. Friction facing. 2,901,388, 8-25-59, Cl. 154—52.
- Morton, Ian D., and E. Sharples, to Lever Brothers Co. Process of preparing a honey flavor. 2,916,382, 12-8-59, Cl. 99—140.
- Morton, John W., to Minneapolis-Honeywell Regulator Co. Electric controllers. 2,884,504, 4-28-59, Cl. 201—48.
- Morton, Kenneth L., to Western Electric Co., Inc. Apparatus for testing articles. 2,877,405, 3-10-59, Cl. 324—28.
- Morton, Kenneth L., to Western Electric Co., Inc. Apparatus for forming calibrating pulses. 2,885,638, 5-5-59, Cl. 324—68.
- Morton, Lester C., and P. A. King, to Bridgeport Brass Co. Pressure-applying fixture. 2,881,728, 4-14-59, Cl. 113—59.
- Morton Machine Co. Ltd.: See—  
Hepburn, Robert. 2,901,988.
- Morton, Robert C., to California Computer Products, Inc. Electric lamp switching mechanism. 2,896,125, 7-21-59, Cl. 315—272.
- Morton, Robert E. Orbital trimming and welding machine. 2,914,011, 11-24-59, Cl. 113—59.
- Morton Salt Co.: See—  
Burns, Claude A. 2,902,418.  
Diamond, Horace W. 2,895,795.  
Eckles, William J. 2,873,894.  
Hassler, Winfield S. 2,891,703.
- Morton, Thomas J., Jr., to Hoosier Cardinal Corp. Refrigerator shelf. 2,876,910, 3-10-59, Cl. 211—153.
- Morton, William A., and A. Augustine. Recuperative furnaces. 2,869,627, 1-20-59, Cl. 158—4.5.
- Morway, Arnold J.: See—  
Bartlett, Jeffrey H., Brugmann, and Morway. 2,867,519.  
Bartlett, Jeffrey H., and Morway. 2,882,230.  
Brugmann, William H., Jr., Morway, and Bartlett. 2,876,089.  
Cottle, Delmer L., Young, Morway, and Smith. 2,874,192.  
Matuszak, Alfred H., and Morway. 2,889,281.
- Morway, Arnold J., to Esso Research and Engineering Co. Anti-friction bearing grease and preparation thereof. 2,872,416, 2-3-59, Cl. 252—33.2.
- Morway, Arnold J., to Esso Research and Engineering Co. Process for preparing improved synthetic ester based grease compositions. 2,892,777, 6-30-59, Cl. 252—32.
- Morway, Arnold J., to Esso Research and Engineering Co. Blended lithium calcium base grease. 2,908,645, 10-13-59, Cl. 252—40.
- Morway, Arnold J., to Esso Research and Engineering Co. Blended grease compositions. 2,918,431, 12-22-59, Cl. 252—40.
- Morway, Arnold J., and H. K. Wiese, to Esso Research and Engineering Co. Soap-salt complex thickened greases. 2,880,174, 3-31-59, Cl. 252—37.7.



- Morway, Arnold J., C. W. Seelbach, and D. L. Cottle, to Esso Research and Engineering Co. Copolymers of propylene and piperylene as grease thickeners. 2,901,432, 8-25-59, Cl. 252-59.
- Morway, Arnold J., and W. J. Sweeney, to Esso Research and Engineering Co. Lubricants containing comminuted fluid coke. 2,903,426, 9-8-59, Cl. 252-22.
- Morway, Arnold J., C. W. Seelbach, and S. B. Lippincott, to Esso Research and Engineering Co. Polypropylene grease. 2,917,458, 12-15-59, Cl. 252-32.
- Mory, Rudolf, E. Stoecklin, and M. Schmid, to Ciba Ltd. Process for the manufacture of hydroxythionaphthenes. 2,914,539, 11-24-59, Cl. 260-330.5.
- Mosbacher, Bruce H., to Roper Industries, Inc. Gear pump or fluid motor. 2,871,794, 2-3-59, Cl. 103-128.
- Mosbacher, Bruce H., to Sundstrand Machine Tool Co. Clamping device. 2,914,889, 12-1-59, Cl. 51-187.
- Mosby, William L., and S. R. Buc, to General Aniline & Film Corp. Hydrolysis of N-substituted amides. 2,884,448, 4-28-59, Cl. 260-515.
- Mosegaard, Marius, to Aller Press A/S. Mechanism for clamping flexible printing plates to the plate cylinder of machines for flat printing. 2,910,939, 11-3-59, Cl. 101-415.1.
- Moseley, Charles F. Oil well stuffing box. 2,892,643, 6-30-59, Cl. 286-16.
- Moseley, Donald: *See*—  
Travis, Ralph L. 2,900,850.
- Moseley, F. L., Co.: *See*—  
Kennedy, Charles J. 2,881,375.  
Moseley, Francis L. 2,868,613.
- Moseley, Francis L., to F. L. Moseley Co. Recording apparatus. 2,868,613, 1-13-59, Cl. 346-139.
- Moseley, Karl W., to W. M. Sprinkman Corp. Homogenizer. 2,868,516, 1-13-59, Cl. 259-4.
- Moseley, Patterson B., to Hercules Powder Co. Method of improving monomeric material for preparation of oxetane polymers. 2,913,464, 11-17-59, Cl. 260-333.
- Moseman, Amos K., and A. B. Cummings; said Cummings assor. to said Moseman. Animal drier. 2,898,691, 8-11-59, Cl. 34-231.
- Moser, Albert W.: *See*—  
Muller, Alex C. 2,895,394.
- Moser, Friedrich, to Ri-Ri Werke A. G. Die-casting machine. 2,870,483, 1-27-59, Cl. 18-30.
- Moser-Glaser & Co. A.G.: *See*—  
Cameron, Alasdair B., Christie, and Manley. 2,894,054.
- Moses, Graham L.: *See*—  
Laffoon, Carthrae M., and Moses. 2,917,644.
- Moser, Hans. Hand knitting apparatus. 2,915,887, 12-8-59, Cl. 66-60.
- Moser, Herbert W.: *See*—  
Faasse, Adrian L., Kunzman, and Moser. 2,871,868.
- Moser, Henry W., and W. Grobman, to Samuel M. Langston Co. Flexographic ink fountains. 2,887,050, 5-19-59, Cl. 101-364.
- Moser, John F., Jr.: *See*—  
Brown, James W., and Moser. 2,885,348.  
Kimberlin, Charles N., Jr., Adams, Moser, and Griffin. 2,885,272.
- Moser, John F., Jr., to Esso Research and Engineering Co. Circulating finely divided solids. 2,873,145, 2-10-59, Cl. 302-53.
- Moser, John F., Jr., to Esso Research and Engineering Co. Combination fluidized solids process for producing fuels and chemicals. 2,874,093, 2-17-59, Cl. 202-20.
- Moser, John F., Jr., to Esso Research and Engineering Co. Fluid bed trap for conversion systems. 2,877,278, 3-10-59, Cl. 260-680.
- Moser, John F., Jr., to Esso Research and Engineering Co. Fluidized coking with a superimposed vaporization zone. 2,886,510, 5-12-59, Cl. 208-93.
- Moser, John F., Jr., to Esso Research and Engineering Co. Fluid coking process. 2,905,623, 9-22-59, Cl. 208-82.
- Moser, John F., Jr., to Esso Research and Engineering Co. Two-stage residuum coking conversion process. 2,906,689, 9-29-59, Cl. 208-53.
- Moser, John F., Jr., and D. D. Dunlop, to Esso Research and Engineering Co. Fluid coking process. 2,874,094, 2-17-59, Cl. 202-25.
- Moser, Otto. Teletypewriter. 2,915,586, 12-1-59, Cl. 178-28.
- Moser, Richard R.: *See*—  
Merickel, George M., Buckhout, and Moser. 2,906,531.
- Moser, William C.: *See*—  
Calvo, Philip S., Jr., and Moser. 2,893,820.  
Hill, James H., and Moser. 2,887,451.
- Moses, Asheleigh S. Process and apparatus for decorticating fiber-producing plants. 2,905,975, 9-29-59, Cl. 19-15.
- Moses, Charles. Flexible type shoe tree with free end membranes. 2,872,692, 2-10-59, Cl. 12-115.8.
- Moses, David L.: *See*—  
Connell, Clyde B., and Moses. 2,891,423.
- Moses, Elmer A. Ground leveling implement. 2,886,906, 5-19-59, Cl. 37-146.
- Moses, James N.: *See*—  
Schumacher, Edwin F., and Moses. 2,915,411.
- Mosesman, Max A.: *See*—  
Anderson, James A., Jr., Dinwiddie, Mosesman, and Vernon. 2,890,162.  
Dinwiddie, James A., and Mosesman. 2,889,268.  
Dinwiddie, James A., Mosesman, and Thorpe. 2,882,221.  
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- Mosgrove, Walter G.: *See*—  
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- Mosher, Hugh A.: *See*—  
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Mosher, Hugh C. Marionette or puppet. 2,889,660, 6-9-59, Cl. 46-126.
- Mosher, Ralph S., to General Electric Co. Linkage. 2,869,139, 1-20-59, Cl. 3-12.
- Mosher, Walter W., Jr., and A. R. Goldammer, 20.6% to D. A. Long, 20.6% to S. E. Charles, 2.8% to J. E. Long, 2.8% to H. W. Neilly, and 12% to A. Knutson. Identification bracelet. 2,893,143, 7-7-59, Cl. 40-21.
- Mosher, William A., and R. A. Braun, to Nease Chemical Co., Inc. 2-aralkanoil-1,3-indandione, 1-monohydrazones. 2,883,423, 4-21-59, Cl. 260-566.
- Moshier, Ross W.: *See*—  
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- Moskovitz, Milton A.,  $\frac{1}{2}$  to H. Frankel. Ball joint assembly. 2,873,130, 2-10-59, Cl. 287-90.
- Moskovitz, Milton A.,  $\frac{1}{2}$  to H. Frankel. Resilient coupling means. 2,880,026, 3-31-59, Cl. 287-85.
- Moskovitz, Milton A.,  $\frac{1}{2}$  to H. Frankel. Ball joint assembly. 2,885,235, 5-5-59, Cl. 287-87.
- Moskow, Eugene D., to Benbow Mfg. Co., Inc. Interior diameter maintaining support for seal rings. 2,898,134, 8-4-59, Cl. 286-26.
- Moskowitz, Lester R.: *See*—  
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- Moskowitz, Lester R., and C. H. Alvord, to Eriez Mfg. Co. Magnetic instrument. 2,882,487, 4-14-59, Cl. 324-34.
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- Moslo, Ernest P. Apparatus for injection molding of plastic articles. 2,896,258, 7-28-59, Cl. 18-30.
- Moss, Albert A.: *See*—  
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- Moss, Bernard W., to The Glenn L. Martin Co. Binary code translator. 2,876,444, 3-3-59, Cl. 340-347.
- Moss, Edgar E., to Engelhorn Development Corp. Animal restraining pens. 2,912,715, 11-17-59, Cl. 17-1.
- Moss, Ennis E., to G. G. Potts. Cotton lint cleaners. Re. 24,624, 3-31-59, Cl. 19-67.
- Moss, Frederick: *See*—  
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- Moss, Hilary, to Burroughs Corp. Multiple output switching system. 2,876,381, 3-3-59, Cl. 315-8.6.
- Moss, Hilary, to Burroughs Corp. Switching circuit for magnetron beam switching tube. 2,884,560, 4-28-59, Cl. 315-21.
- Moss, Jack. File. 2,912,986, 11-17-59, Cl. 129-1.
- Moss, Philip H., to Jefferson Chemical Co., Inc. Method for preparing 1-methylpiperazine. 2,905,673, 9-22-59, Cl. 260-268.
- Moss, Rodney D., to The Dow Chemical Co. Benzylidene-dialkylamino-hexanones and their acid addition salts. 2,897,236, 7-28-59, Cl. 260-570.5.
- Moss, Ronald. Belt. 2,898,602, 8-11-59, Cl. 2-301.
- Mossberg, O. F., & Sons, Inc.: *See*—  
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- Mosse, Daniel T. Slenderizing machine. 2,869,539, 1-20-59, Cl. 128-33.
- Mossey, Joseph L., to Bendix Aviation Corp. Brake assembly. 2,906,375, 9-29-59, Cl. 188-70.
- Mossey, Joseph L., to Bendix Aviation Corp. Kinetic-energy-absorbing device. 2,915,145, 12-1-59, Cl. 188-70.
- Mossman, Donald P., Jr. Selective switching apparatus. 2,879,345, 3-24-59, Cl. 200-5.
- Mossner, Elmer H.: *See*—  
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- Most, David, to Rush Instrument Co., Inc. Portable high voltage power supply. 2,873,409, 2-10-59, Cl. 315-219.
- Most, David, to Rush Instrument Co., Inc. Camera shutter and synchronizer tester. 2,877,412, 3-10-59, Cl. 324-68.
- Most, David, to Acr Electronics Corp. Controlled flash lamp power supply. 2,901,671, 8-25-59, Cl. 315-219.
- Mostad, Eigil: *See*—  
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- Mosteller, William P. Photographic lettering device. 2,883,918, 4-28-59, Cl. 95-4.5.
- Mostello, Anthony J.: *See*—  
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- Moster, Clarence R., and G. E. St. John, to Bell Telephone Laboratories, Inc. Traveling wave tube. 2,888,594, 5-26-59, Cl. 315-3.
- Mostovych, Nicholas, and A. Cybriwsky, to Reynolds Metals Co. Apparatus for anodizing aluminum surfaces. 2,901,412, 8-25-59, Cl. 204-211.
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- Motor Wheel Corp.: *See*—  
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- Motsinger, Armard V., to United States of America, Army.  
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- Motsinger, Armard V. Gas mask breathing resistance. 2,908-  
 272, 10-13-59, Cl. 128-141.
- Mott, Carl W., to Mott Corp. Lawn mower. 2,871,644,  
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- Mott, Carl W., to The Kendall Co. Elastic band transferring  
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- Mott, Carl W., to The Kendall Co. Mechanism for stripping  
 an elastic band from an end portion of a band-receiving  
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- Mott Corp.: *See*—  
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- Mott, Friedrich: *See*—  
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- Mott, John H. Box stitching machine. 2,908,011, 10-13-59,  
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- Mott, John H. Staple-forming machine. 2,910,697, 11-3-59,  
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- Mott, Norman S., to Cooper Alloy Corp. Precipitation harden-  
 able, corrosion resistant, chromium-nickel stainless steel  
 alloy. 2,868,638, 1-13-59, Cl. 75-125.
- Mott, Richard C., to Minneapolis-Honeywell Regulator Co.  
 Valve assembly for control apparatus. 2,885,178, 5-5-59,  
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- Motta, Ercole E.: *See*—  
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- Mottershaw, Harold B., Means for controlling and indicating  
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- Mottet, Arthur L., to International Paper Co. Weighing  
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- Mottlau, August Y., to Esso Research and Engineering Co.  
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- Mott-Smith, Lewis M., to United States of America, Navy.  
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- Mottu, Andre, to Societe Genevoise d'Instruments de Physique.  
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- Motyka, John J., and P. J. Loui. Record holder. 2,906,408,  
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- Motz, Carl H., to National Broach & Machine Co. Work  
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- Motz, Joseph W., and J. H. Reeves. Frequency measuring  
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- Moudry, Marie K.: *See*—  
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- Moudry, Zdenek V., and M. K. Methods for producing liquid  
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- Moul, Albert A.: *See*—  
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- Moulden, Rhoder E., to Automatic Enterprises, Inc. Auto-  
 matic coffee brewer with coin-controlled apparatus.  
 2,907,266, 10-6-59, Cl. 99-289.
- Moule, Gordon H., and J. T. Urry, to Metropolitan-Vickers  
 Electrical Co. Ltd. Glow plugs for compression ignition  
 engines. 2,884,920, 5-5-59, Cl. 123-145.
- Moule, Gordon H., and J. T. Urry, to Metropolitan-Vickers  
 Electrical Co. Ltd. Methods of manufacturing tubular  
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- Moule, Rex E. Fireproof metal mattress or padding.  
 2,901,756, 9-1-59, Cl. 5-347.
- Moulin, Augustine R.: *See*—  
 McReynolds, Robert W. 2,870,039.
- Moulinage et Retorderie de Chavanoz: *See*—  
 Vandamme, Louis, and Rouyer. 2,891,375.
- Moullec, Jean. Thresher having angularly adjustable con-  
 cave. 2,867,218, 1-6-59, Cl. 130-27.
- Moulton, Alexander E. Hydraulic accumulators. 2,883,180,  
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- Moulton, Alexander E., and P. W. Turner, to George Spencer  
 Moulton & Co. Ltd. Vestibule connection for railway and  
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- Moulton, George Spencer, & Co. Ltd.: *See*—  
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- Moulton, Joseph D., to McGraw-Edison Co. Alkaline storage  
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- Moulton, Joseph D., and W. R. Miller, to McGraw-Edison Co.  
 Alkaline storage battery with negative iron electrode.  
 2,871,281, 1-27-59, Cl. 136-25.
- Moulton, Lloyd J., to Curtiss-Wright Corp. Engine load  
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- Moulton, Stephen W., to Philco Corp. Color television signal  
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- Moulton, Stephen W., and M. E. Partin, to Philco Corp.  
 Photoelectric control system for color television receivers.  
 2,910,615, 10-27-59, Cl. 315-10.
- Moulton, Thomas S. Portable irrigation system. 2,912,996,  
 11-17-59, Cl. 137-344.
- Moultray, Charles L.: *See*—  
 Forbes, Melvin T., and Moultray. 2,908,242.
- Moulthrop, Alvert W. Adjustable folding truck wheel step.  
 2,878,078, 3-17-59, Cl. 304-15.
- Mounfield, Donald: *See*—  
 Martin, Albert E., and Mounfield. 2,874,564.
- Mount, Hubert S., to Sun Sol Co. Break-away coupling.  
 2,906,280, 9-29-59, Cl. 137-68.
- Mountain Copper Co., Ltd., The: *See*—  
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- Mount Hope Machinery Co.: *See*—  
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- Mount Sinai Hospital Research Foundation, Inc.: *See*—  
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- Mourier, Georges : *See*—  
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- Mourier, Georges, to Compagnie Generale de Telephonie Sans Fil. Delay lines for travelling wave tubes. 2,882,440, 4-14-59, Cl. 315-35.
- Mouron, Bertrand D. : *See*—  
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- Mouroit, Paul,  $\frac{1}{2}$  to C. Chauvigne. Folding furniture. 2,888,689, 6-2-59, Cl. 5-114.
- Mousel, Canellen K. Material handling apparatus. 2,888,130, 5-26-59, Cl. 198-109.
- Mousseron, Max J., to Etablissements Clin-Byla (Societe Anonyme). (Cyclohexanone-2'-yl)-1 beta-naphthol and compositions containing the same. 2,882,201, 4-14-59, Cl. 167-65.
- Moustakis, George C. Automatic fluid pressure actuated leveling arrangement for vehicles. 2,896,965, 7-28-59, Cl. 280-124.
- Moutet, Andre G. L., to Office National d'Etudes et de Recherches Aeronautiques O. N. E. R. A. Devices for measuring the temperature of a gaseous fluid and in particular of a flame. 2,871,758, 2-3-59, Cl. 88-22.5.
- Mouton, Eric Jan. *See*—  
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- Movick, Nyle O., to Northrop Aircraft, Inc. Constant loading device. 2,881,873, 4-14-59, Cl. 188-134.
- Mowat, James A., to Mid-West Produce Co. Ltd. Egg separator. 2,867,254, 1-6-59, Cl. 146-2.
- Mowat, John H., and J. S. Webb, to American Cyanamid Co. Production of pyridoxine. 2,918,471, 12-22-59, Cl. 260-297.5.
- Mowbray, Harry L., to Rodweeder Sales, Inc. Rod weeder attachment for agriculture implements. 2,892,504, 6-30-59, Cl. 172-44.
- Mowry, David T. : *See*—  
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- Mowry, Lorenz J. : *See*—  
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- Moxley, William N. Massage chair. 2,891,538, 6-23-59, Cl. 128-33.
- Moxley, William N. Massage machine motor. 2,892,108, 6-23-59, Cl. 310-81.
- Moxness, Harold J., to Minnesota and Ontario Paper Co. Chemical recovery process and apparatus. 2,891,843, 6-23-59, Cl. 23-48.
- Moy, Hammond R., W. H. Shockey, and S. E. Porter, to United States of America, Navy. Parachute ripcord grip retainer. 2,896,885, 7-28-59, Cl. 244-149.
- Moy, John A. E. : *See*—  
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- Moy, John A. E., and J. Rowland, to The British Petroleum Co. Ltd. Catalytic desulfurization of petroleum hydrocarbons in a two stage autofining process. 2,889,272, 6-2-59, Cl. 208-210.
- Moy, John A. E., and J. Rowland, to The British Petroleum Co. Ltd. Catalytic desulfurization of petroleum hydrocarbons and production of hydrogen therefrom. 2,889,274, 6-2-59, Cl. 208-212.
- Moy, Tsou K., and F. W. Henning, to Westinghouse Electric Corp. Flameholding apparatus. 2,875,580, 3-3-59, Cl. 60-39.72.
- Moyer, David F., to General Motors Corp. Circuit breaker. 2,874,245, 2-17-59, Cl. 200-104.
- Moyer, David F. Switch assembly. 2,890,307, 6-9-59, Cl. 200-93.
- Moyer, David F. Switch assembly. 2,916,585, 12-8-59, Cl. 200-104.
- Moyer, Edward L., to Bendix Aviation Corp. Rotor constructions for disk brakes and the like. 2,905,279, 9-22-59, Cl. 188-218.
- Moyer, Frederick D., and C. M. Orr, to Chicago Bridge & Iron Co. Single deck contact type floating roof. 2,886,204, 5-12-59, Cl. 220-26.
- Moyer, Hallard C., to Sinclair Refining Co. Paraffin wax composition of improved gloss stability. 2,903,408, 9-8-59, Cl. 208-21.
- Moyer, Harold W., and L. A. Marsh. Device for crating paintings and the like. 2,895,599, 7-21-59, Cl. 206-1.
- Moyer, Henry F., to Libbey-Owens-Ford Glass Co. Multiple sheet glazing units. 2,875,792, 3-3-59, Cl. 141-4.
- Moyer, Oscar E., to Universal Mfg. Corp. Building materials elevator for scaffolds. 2,883,002, 4-21-59, Cl. 187-2.
- Moyer, Oscar E., to Universal Mfg. Corp. Scaffold monorail conveyor. 2,912,121, 11-10-59, Cl. 212-17.
- Moyer, Stanley H. : *See*—  
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- Moyer, William C., to The Texas Co. Cracking feed from lubricating oil stock. 2,868,716, 1-13-59, Cl. 208-87.
- Moyer, Wilmer L. : *See*—  
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- Moyle, Clarence L. : *See*—  
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- Moyle, Clarence L., to The Dow Chemical Co. 3,4-dichloro-phenoxyalkanols. 2,868,843, 1-13-59, Cl. 260-613.
- Moynahan Bronze Co. : *See*—  
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- Moyrand, Jean : *See*—  
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- Moyroud, Louis : *See*—  
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- Moyroud, Louis M. : *See*—  
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- Higonnet, Rene, and Moyroud. 2,876,687.
- Moyse, James A. : *See*—  
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- Mozur, Kasimier W. Self winding watch testing machine. 2,877,642, 3-17-59, Cl. 73-6.
- Mozur, Kasimier W. Levelling device. 2,892,260, 6-30-59, Cl. 33-221.
- Mraz, John B. Rim clamping, tire-bead-breaking tool. 2,901,029, 8-25-59, Cl. 157-117.
- Mrlik, Jerry R., and F. J. Winchell, to General Motors Corp. Parking lock for transmission. 2,875,856, 3-3-59, Cl. 188-69.
- Mros, Fredrick, Jr. Industrial automatic oil burner or the like. 2,886,100, 5-12-59, Cl. 158-77.
- Mroz, Edmund A. J. Fluid dispensing apparatus. 2,894,664, 7-14-59, Cl. 222-318.
- Mucher, George J., to Clarostat Mfg. Co., Inc. Electrical unit mounting assembly. 2,879,363, 3-24-59, Cl. 201-67.
- Mucher, George J., to Clarostat Mfg. Co., Inc. Fuse-resistor. 2,879,364, 3-24-59, Cl. 201-67.
- Mucher, George J., and A. R. Joy, to Clarostat Mfg. Co., Inc. Contact assembly and control structure. 2,906,984, 9-29-59, Cl. 338-171.
- Muckenhirn, Oscar W., to General Mills, Inc. Pulse filter circuit. 2,910,582, 10-27-59, Cl. 250-27.
- Mückter, Heinrich : *See*—  
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- Mudd, Kenneth C. : *See*—  
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- Mudersbach, Ernst, and W. Firgau, to Svenska Rotor Maskiner Aktiebolag. Rotary regenerative preheaters for gaseous media. 2,873,952, 2-17-59, Cl. 257-6.
- Mudge, Parker B. Cross-wind component computer. 2,901,167, 8-25-59, Cl. 235-61.
- Mudge, Ronald A. : *See*—  
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- Mudie, Ronald, to Servomex Controls Ltd. Electric wave generating circuit arrangements. 2,879,392, 3-24-59, Cl. 250-36.
- Mudon, Thomas J. Control system for accelerator. 2,868,035, 1-13-59, Cl. 74-513.
- Mudrak, Anton : *See*—  
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- Mudry, Jack A. Game field delineator. 2,891,793, 6-23-59, Cl. 273-1.
- Muehlbauer, Hubert : *See*—  
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- Muehlbauer, Hubert, and H. Weber, to Badische Anilin- & Soda-Fabrik Akt. Production of polymers from olefines. 2,905,661, 9-22-59, Cl. 260-93.7.
- Muehlberger, Frederick G. : *See*—  
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- Muehleck, Ernest, H. C. Kinney, and R. L. Lanz, Jr., to Keasbey & Mattison Co. Apparatus for molding articles from material in slurry form. 2,901,808, 9-1-59, Cl. 25-121.
- Muehling, Charles L., and W. A. Tarwid, to American Can Co. Container having inhibitor composition on its interior. 2,914,213, 11-24-59, Cl. 220-64.
- Muehlner, Joachim W., to United States of America, Air Force. Method of measuring recurrent pulse time intervals. 2,877,413, 3-10-59, Cl. 324-68.
- Muehter, Manfred W. : *See*—  
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- Mueller, Albert C. : *See*—  
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- Mueller, Anthony J. : *See*—  
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- Mueller, Anthony J., to Harris-Intertype Corp. Ink fountain. 2,887,049, 5-19-59, Cl. 101-364.
- Mueller, Armand G., to Square D Co. Differential control circuits for regulator systems. 2,911,579, 11-3-59, Cl. 318-270.
- Mueller, Carl H., to The McNeil Machine & Engineering Co. Lubricating apparatus. 2,872,085, 2-3-59, Cl. 222-376.
- Mueller, Carl H., and V. G. Klein, to The McNeil Machine & Engineering Co. Lubrication system. 2,908,898, 10-13-59, Cl. 340-270.
- Mueller, Charles W., to Radio Corp. of America. Method of fabricating P-N type junction devices. 2,894,862, 7-14-59, Cl. 148-1.5.
- Mueller, Charles W., and R. L. Sherwood, to Radio Corp. of America. Semiconductor devices and method of making same. 2,870,049, 1-20-59, Cl. 148-1.5.
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- Mueller, Charles W., and T. D. Taylor, to Union Special Machine Co. Sewing machine. 2,889,793, 6-9-59, Cl. 112-176.



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 Bowan, Walter J. 2,867,034.  
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 Mueller, Frank H. 2,884,808.  
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- Mueller, Emil G., to Westinghouse Air Brake Co. Tread brake unit for railway vehicles. 2,870,873, 1-27-59, Cl. 188-33.  
 Mueller, Emil G., to Westinghouse Air Brake Co. Packaged brake unit for railway trucks. 2,913,071, 11-17-59, Cl. 188-153.  
 Mueller, Ernest G. Animal shocking device. 2,885,610, 5-5-59, Cl. 317-262.  
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 Mueller, Ervin H. Interchangeable double and single gas burner structure. 2,891,608, 6-23-59, Cl. 158-116.  
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 Mueller, Frank H., to Mueller Co. Drive for drilling machine. 2,884,808, 5-5-59, Cl. 74-674.  
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 Mueller, Frank H., and J. J. Smith, to Mueller Co. Tool holder. 2,893,274, 7-7-59, Cl. 77-55.  
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 Mueller, George P., to G. D. Searle & Co. Process for the conversion of steroidal sapogenins to pregnane derivatives. 2,885,411, 5-5-59, Cl. 260-397.4.  
 Mueller, George P., to G. D. Searle & Co. 3-hydrazino-1,2,4-benzotriazines and 1-oxides thereof. 2,911,406, 11-3-59, Cl. 260-249.5.  
 Mueller, Herman H.; small interests to various assignees. Tone arm control for the fully automatic or manually controlled playing of intermixed records. 2,900,192, 8-18-59, Cl. 274-10.  
 Mueller, Homer L., to American Machine & Foundry Co. Rim for tubeless tire. 2,895,526, 7-21-59, Cl. 152-410.  
 Mueller, Homer L., to American Machine & Foundry Co. Rim for tubeless tire. 2,904,096, 9-15-59, Cl. 152-406.  
 Mueller, Jakob, to Ciba Ltd. Asymmetrical indigoid dye-stuffs. 2,882,277, 4-14-59, Cl. 260-332.  
 Mueller, Johannes G., to Weil-McLain Co. Supply header for heating units having three-dimensional flexibility. 2,885,226, 5-5-59, Cl. 285-231.  
 Mueller, Josef, B. Dolnicki, and J. Manzinger, to Elin-Union Aktiengesellschaft fur Elektrische Industrie. Transformer with a bell-shaped cover and an on-load-tap-changing device. 2,915,720, 12-1-59, Cl. 336-10.  
 Mueller, Margery C.: *See*—  
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 Mueller, Max B., and B. S. Penley, to Allied Chemical Corp. Apparatus for moving tubular structures through a processing station. 2,888,710, 6-2-59, Cl. 18-1.  
 Mueller, Ralph L., and W. G. Stieritz; said Mueller assor, to Western Electric Co., Inc., said Stieritz assor, to Bell Telephone Laboratories, Inc. Gaseous discharge device. 2,899,588, 8-11-59, Cl. 313-209.  
 Mueller, Richard B. and M. C. Lipstick applicator and package. 2,901,100, 8-25-59, Cl. 206-56.  
 Mueller, Richard J., to Automatic Canteen Co. of America, Inc. Apparatus for circulating a liquid through a body of solids. 2,911,902, 11-10-59, Cl. 99-289.  
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- Muench, Carl G. Mobile sprinkler. 2,883,116, 4-21-59, Cl. 239-191.  
 Muench, Nils L., to Jersey Production Research Co. Apparatus for pulsing a scintillation detector. 2,911,535, 11-3-59, Cl. 250-71.  
 Muench, Walter, to Walter Muench, Inc. Device for dressing bevels on grinding wheels. 2,902,024, 9-1-59, Cl. 125-11.  
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- Muench, Werner: *See*—  
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 Muench, Werner L., Notarbartolo, and E. Crosio, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Process and apparatus for separating and purifying condensations products. 2,887,470, 5-19-59, Cl. 260-78.  
 Muenger, James R., and H. I. Wilson, to The Texas Co. Method and apparatus for reducing vapor lock tendencies of air conditioned automobiles. 2,885,865, 5-12-59, Cl. 62-98.  
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 Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Pyrolysis to pyrosulfuryl fluoride. 2,879,138, 3-24-59, Cl. 23-203.  
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 Muffy, Gary, to Gulf Research & Development Co. Method of converting magnetic recordings to visual images by use of radioactive magnetic materials. 2,890,345, 6-9-59, Cl. 250-65.  
 Muffy, Glenn. Defrosting control in refrigeration system. 2,894,374, 7-14-59, Cl. 62-153.  
 Mugele, Friedrich, to Dr. Lehfeldt & Co., G. m. b. H. Circuit for displaying ultrasonic energy signals. 2,871,404, 1-27-59, Cl. 315-26.  
 Muggleton, Peter W., and J. Ungar, to Glaxo Laboratories Ltd. Use of dextran in freeze-drying process. 2,903,614, 10-13-59, Cl. 167-78.  
 Muggli, Lawrence A. and V. V. Jaw-advancing, alignment, and adjusting means for machine-tool vises. 2,880,638, 4-7-59, Cl. 81-33.  
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 Muhn, Lester M. Operator for louver type windows. 2,910,743, 11-3-59, Cl. 20-62.  
 Muhr, John. Self-storing interengaging louvers. 2,874,771, 2-24-59, Cl. 160-33.  
 Muinch, George, and D. K. Crockett, to Hughes Aircraft Co. Acceleration responsive control surface control limiting system for aircraft. 2,869,804, 1-20-59, Cl. 244-77.  
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 Muirhead, George J., to The English Electric Co. Ltd. Control of fluid driven power supply systems. 2,903,600, 9-8-59, Cl. 290-40.  
 Mukherjee, Sudhir L., 1/2 to Albert David, Ltd. Preparation of isonicotinic acid hydrazide. 2,891,067, 6-16-59, Cl. 260-295.  
 Mulac, Rudolph A. Ball and socket swivel for an electric light receptacle. 2,910,310, 10-27-59, Cl. 285-91.  
 Mulbarger, Francis A., to United States Rubber Co. Tubeless tire bead seating device. 2,889,870, 6-9-59, Cl. 157-121.  
 Mulcahy, Harry W., to W. H. Miner, Inc. Draft gears for railway draft rigging. 2,880,886, 4-7-59, Cl. 213-45.  
 Mulcahy, Harry W., to W. H. Miner, Inc. Draft gear. 2,884,141, 4-28-59, Cl. 213-45.  
 Mulcahy, Harry W., to W. H. Miner, Inc. Draft gears for railway draft rigging. 2,893,569, 7-7-59, Cl. 213-44.  
 Mulcahy, Harry W., to W. H. Miner, Inc. Draft gear for railway draft rigging. 2,893,570, 7-7-59, Cl. 213-44.  
 Mulcahy, Harry W., to W. H. Miner, Inc. Rubber draft gears. 2,893,571, 7-7-59, Cl. 213-45.  
 Mulcahy, Harry W., to Enterprise Railway Equipment Co. Bottom-discharging hopper closure assembly. 2,914,000, 11-24-59, Cl. 105-250.



- Mulcahy, Raymond W., to Harris-Intertype Corp. Registering means for multicolor printing. 2,902,770, 9-8-59, Cl. 33-184.5.
- Mulch, Hans, to Ernst Leitz, G.m.b.H., Optische Werke. Slide changer. 2,878,604, 3-24-59, Cl. 40-79.
- Mulder, Allan C., to Miller Electric Mfg. Co. Arc welding machine. 2,880,374, 3-31-59, Cl. 315-205.
- Mulder, Allan C., to Miller Electric Mfg. Co. Magnetically controlled variable current transformer. 2,891,210, 6-16-59, Cl. 321-19.
- Mulder, Harry: *See*—  
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- Mulder, Harry. Adjustable wheel. 2,902,319, 9-1-59, Cl. 301-128.
- Mulder, Johannes G. W., to North American Philips Co., Inc. Electric discharge tube. 2,869,013, 1-13-59, Cl. 313-170.
- Mulders, Cornelis E., and B. Visser, to Staatsbedrijf der Posterijen, Telegraphie en Telefonie. Packet position detecting system. 2,894,626, 7-14-59, Cl. 209-111.
- Mulhall, Harold: *See*—  
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- Mulholland, William A., to Gar Wood Industries, Inc. Wheel trim attachment. 2,899,240, 8-11-59, Cl. 301-37.
- Mulholland, Hugh M. Wash hanging devices. 2,914,187, 11-24-59, Cl. 211-13.
- Mulholland, James R. Textile ring and lubrication therefor. 2,905,269, 9-22-59, Cl. 184-7.
- Mulchak, Steven. Retractable hard top convertible. 2,869,923, 1-20-59, Cl. 296-117.
- Mulick, Michael. Pressure-control valve for salvage operations and the like. 2,911,003, 11-3-59, Cl. 137-508.
- Mulinos, Michael G., to Commercial Solvents Corp. Cycloserine-pyridoxine composition. 2,894,874, 7-14-59, Cl. 167-65.
- Mulkey, Ellis E.: *See*—  
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- Mulkey, Sam, Co.: *See*—  
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- Mulkin, Marion A. Therapeutic, gravity actuated, sustained pressure applicator. 2,893,383, 7-7-59, Cl. 128-68.
- Mull, Bruce D., and F. F. Parke, ½ to E. D. Farley. Adjustable support for lights and the like. 2,919,098, 12-29-59, Cl. 248-324.
- Mull, Robert P., to Ciba Pharmaceutical Products, Inc. Heterocyclo-loweralkanoamidoxime compounds. 2,897,195, 7-28-59, Cl. 260-239.
- Mullaney, William J., and G. F. Albright, to O. N. Wanek. Electric arc furnace and the process of preparing castings. 2,881,489, 4-14-59, Cl. 22-200.
- Mullard Radio Valve Co., Ltd., The: *See*—  
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- Mullen, James W., II, to Experiment Inc. Apparatus for igniting fuels. 2,867,979, 1-13-59, Cl. 60-35.6.
- Mullen, Joseph E.: *See*—  
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- Mullen, Melvin Z., ½ to J. G. Lubelle and ½ to L. C. Silverman. Apparatus for forming tubular structures in glassware. 2,869,286, 1-20-59, Cl. 49-7.
- Mullen, Thomas W. Tubeless tire bead repair. 2,884,041, 4-28-59, Cl. 152-362.
- Mullen, Thomas W., and R. E. Humphreys. Mirror hinged support. 2,904,290, 9-15-59, Cl. 248-28.
- Mullenhagen, Carl W.: *See*—  
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- Müllenschläder, Carl O. Carding machines. 2,912,721, 11-17-59, Cl. 19-99.
- Muller, Albert, to Air Reduction Co., Inc. Gas shielded arc cutting. 2,867,713, 1-6-59, Cl. 219-69.
- Muller, Albert, and C. R. Felmley, Jr., to Air Reduction Co., Inc. Welding wire for low alloy steels and resulting weld. 2,913,814, 11-24-59, Cl. 29-196.1.
- Muller, Albert, and C. R. Felmley, Jr., to Air Reduction Co., Inc. Welding wire for low alloy steels and resulting weld. 2,913,815, 11-24-59, Cl. 29-196.1.
- Muller, Alex C. 50% to A. W. Moser. Single lens reflex camera. 2,895,394, 7-21-59, Cl. 95-42.
- Müller, Alois, and F. Gygli, to Permac A.G. Method for producing a bag-shaped packing and device for carrying out this method. 2,908,123, 10-13-59, Cl. 53-29.
- Muller, Burdette A.: *See*—  
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- Muller, Carl-Heinz: *See*—  
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- Muller, Egon M.: *See*—  
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- Müller, Erich and W., to W. Kolb. Bracelet for wrist-watches. 2,889,973, 6-9-59, Cl. 224-4.
- Müller, Erwin: *See*—  
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- Klockgether, Helfried, Müller, and Ossenbrunner. 2,874,046.
- Muller, Franz, and L. H. Winners, to Klockner-Humboldt-Deutz A.G. Screw conveyor apparatus. 2,884,145, 4-28-59, Cl. 214-17.
- Müller, Franz E., to P. O. Tobeler, d.b. under the name of Trans-Oceanic. Illuminated advertising displays. 2,885,805, 5-12-59, Cl. 40-33.
- Müller, Friedrich, to Berliner Maschinenbau A.G. vormalis L. Schwartzkopf. Switching device for the automatic electric control of the feed mechanism of a fancy doubler. 2,881,585, 4-14-59, Cl. 57-91.
- Muller, Friedrich, and H. Goldbrunner. Measuring apparatus. 2,910,775, 11-3-59, Cl. 33-46.
- Müller, Georg: *See*—  
Lee, Pyungtoo W., and Müller. 2,895,050.
- Muller, George H., to Ford Motor Co. Motor vehicle drive-line mounting. 2,876,855, 3-10-59, Cl. 180-70.
- Muller, George H., to Ford Motor Co. Fluid pressure suspension for motor vehicles. 2,916,296, 12-8-59, Cl. 280-124.
- Muller, George H., and A. G. Spear, Jr., to Ford Motor Co. Seat vest jacket. 2,908,324, 10-13-59, Cl. 155-189.
- Muller, George H., and H. C. Cuskie, to Ford Motor Co. Motor vehicle suspensions. 2,916,282, 12-8-59, Cl. 267-20.
- Muller, Georges, R. Joly, and R. Bardoneschi, to Les Laboratoires Francais de Chimiotherapie. Preparation of  $\Delta^4$ -dehydrocortisone. 2,888,472, 5-26-59, Cl. 260-397.45.
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- Muller, Georges, B. F. Vaterlaus, and L. Velluz, to UCLAF. Derivatives of dibenzo-cycloheptadiene and a method of preparing same. 2,911,411, 11-3-59, Cl. 260-326.5.
- Muller, Gerd: *See*—  
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- Muller, Hanns, to H. and F. W. Deckel. Lever gate assembly. 2,872,737, 2-10-59, Cl. 33-172.
- Müller, Hans. Trimming machine for automatically trimming the three open edges of stapled booklets. 2,874,775, 2-24-59, Cl. 164-48.
- Müller, Hans J., and W. Hänlein, to Siemens-Schuckertwerke Aktiengesellschaft. Apparatus and method for the production of glass foil. 2,910,805, 11-3-59, Cl. 49-3.
- Müller, Hermann: *See*—  
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- Müller, Hugo, to Siemens-Schuckertwerke Akt. Multi-conductor electric power cables. 2,886,631, 5-12-59, Cl. 174-108.
- Muller, Jacques. Filter apparatus and filter cartridges therefor. 2,883,056, 4-21-59, Cl. 210-336.
- Muller, Jacques. Unclogging filter. 2,902,158, 9-1-59, Cl. 210-184.
- Müller, Johann, to H. and F. W. Deckel. Measuring gauging and inspection equipment. 2,915,317, 12-1-59, Cl. 279-9.
- Müller, Johannes, to Deutsche Gold-und Silber-Scheideanstalt vormalis Roessler. Method of producing surface layers resistant to wear. 2,875,095, 2-24-59, Cl. 117-127.
- Muller, John F., to Bell Telephone Laboratories, Inc. Automatic core winding machine. 2,891,735, 6-23-59, Cl. 242-4.
- Müller, Josef: *See*—  
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- Müller, Josef, to Daimler-Benz Akt. Foot pedal arrangement. 2,869,392, 1-20-59, Cl. 74-512.
- Müller, Josef, to Daimler-Benz Akt. Transmitting mechanism. 2,884,804, 5-5-59, Cl. 74-513.
- Müller, Josef, to Daimler-Benz Akt. Wheel suspension of vehicles. 2,887,310, 5-19-59, Cl. 267-20.
- Müller, Josef, to Deutsche Gold-und Silber-Scheideanstalt vormalis Roessler. Production of hydrogen peroxide. 2,904,478, 9-15-59, Cl. 204-84.
- Muller, Joseph: *See*—  
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- Müller, Karl, and R. Röthli, ½ to Maag Gear-Wheel and Machinery Co., Ltd. Apparatus for testing the profiles of involute gear teeth. 2,881,530, 4-14-59, Cl. 33-179.5.
- Muller, Karl A., Jr., to The American Oil Co. Hydrocarbon reforming system. 2,909,477, 10-20-59, Cl. 208-65.
- Müller, Karl E.: *See*—  
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- Nischk, Günther, and Müller. 2,912,409.
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- Müller, Karl E., to Farbenfabriken Bayer Akt. Synthetic products of high molecular weight. 2,883,359, 4-21-59, Cl. 260-45.
- Müller, Karl E., and P. Hoppe, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Process for the manufacture of synthetic resins. 2,913,425, 11-17-59, Cl. 260-2.5.
- Müller, Karl W., and D. Delfs, to Farbenfabriken Bayer Akt. Process for imparting flame resistance to solid inflammable material. 2,872,355, 2-3-59, Cl. 117-136.
- Müller, Klaus. Internal combustion engine. 2,893,360, 7-7-59, Cl. 123-32.
- Muller, Lloyd E.: *See*—  
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- Morrish, Leonard M., and Muller. 2,881,852.
- Morrish, Leonard M., and Muller. 2,899,007.
- Muller, Martin, to International Standard Electric Corp. Magnetic flux meter. 2,918,622, 12-22-59, Cl. 324-47.



- Muller, Max: *See*—  
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- Müller, Max A.: *See*—  
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- Muller, Max A., and P. Vossieck, to Rand-Goetze Corp. Tank track pin bearing seal. 2,911,840, 11-10-59, Cl. 74—256.
- Muller, Otto, to Tornado A.G. Suction nozzle for cleaning apparatus. 2,880,446, 4-7-59, Cl. 15—373.
- Muller, Otto, to Siemens-Schuckertwerke Aktiengesellschaft. Program controller particularly for machine tools. 2,898,483, 8-4-59, Cl. 307—115.
- Müller, Paul: *See*—  
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- Müller, Paul, to Aluminium-Industrie-Aktien-Gesellschaft. Pot-house of an aluminum reduction plant. 2,907,263, 10-6-59, Cl. 98—115.
- Muller, Paul A.: *See*—  
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- Muller, Paul A. Filter for tobacco smoke. 2,916,039, 12-8-59, Cl. 131—208.
- Muller, Pierre: *See*—  
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- Müller, Reinhard M., to Dipl.-Ing. Josef Effenberger. Diesel engine. 2,904,020, 9-15-59, Cl. 123—32.
- Müller, Rudolf A., to United States of America, Army. Thermionic device. 2,869,012, 1-13-59, Cl. 313—157.
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- Muller, Werner: *See*—  
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- Müller, Werner, and H. Psaar, to Farbenfabriken Bayer Aktiengesellschaft. Dyeing and printing of polymers of acrylonitrile. 2,906,589, 9-29-59, Cl. 8—55.
- Muller, Werner C., to National Distillers and Chemical Corp. Method of reducing metal halides. 2,910,357, 10-27-59, Cl. 75—84.5.
- Muller, Werner C., and F. D. Miller, to National Petrochemicals Corp. Alcohol purification process. 2,910,412, 10-27-59, Cl. 202—39.5.
- Müller, Wilhelm: *See*—  
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- Müller, Wilhelm, to W. Kolb. Bracelet for wrist-watches. 2,891,709, 6-23-59, Cl. 224—4.
- Müller, Wilhelm, H. Kornfeld, and G. Becker, to August Thyssen-Huette Akt., and Dortmund-Hoerder Huettenuion Akt. Process and apparatus for casting elongated slender lengths of metal. 2,891,294, 6-23-59, Cl. 22—200.1.
- Müller, Wilhelm, and R. Lamprecht, to Telefonbau und Normalzeit G.m.b.H. Stamping device having a rotatable printing cylinder. 2,917,999, 12-22-59, Cl. 101—235.
- Müller, Wilhelm H., to J. M. Voith G.m.b.H., Maschinenfabrik. Method and apparatus for making paper. 2,890,149, 6-9-59, Cl. 162—211.
- Müller, Willi to Societe Industrielle de Soncebolz S.A. Horlogerie Industrielle et appareils et Instruments electriques. Selfstarting synchronous motor. 2,897,384, 7-28-59, Cl. 310—163.
- Mullett, Leslie B.: *See*—  
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- Mullett, Leslie B., to The United Kingdom Atomic Energy Authority of Patents Branch. Electronic valve amplifiers. 2,912,620, 11-10-59, Cl. 315—41.
- Mulligan, Rex P., to Texaco Inc. Aerial prospecting. 2,904,691, 9-15-59, Cl. 250—83.6.
- Mullin, Archie R. Rotary lawn mower and sprayer with hollow shaft engine drive. 2,878,633, 3-24-59, Cl. 56—25.4.
- Mullin, Archie R. Rotary lawn mower spraying attachment. 2,908,444, 10-13-59, Cl. 239—223.
- Mullin, Clayton D., and J. F. Rose, to Maico Electronics, Inc. Temple construction. 2,904,639, 9-15-59, Cl. 179—107.
- Mullin, John F. Wire locked bolt assemblies. 2,890,734, 6-16-59, Cl. 151—33.
- Mullin, John T., to Minnesota Mining & Mfg. Co. Tape drive mechanism. 2,913,192, 11-17-59, Cl. 242—55.11.
- Mullineaux, Richard D.: *See*—  
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- Mullineaux, Richard D., and J. H. Raley, to Shell Development Co. Dehydrogenation process. 2,890,253, 6-9-59, Cl. 260—673.5.
- Mullins, Elwood H., and J. I. Bowen, to United States of America, Navy. Generating device. 2,892,412, 6-30-59, Cl. 102—70.2.
- Mullins, J. G.: *See*—  
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- Mullis, Carl W., Sr. Rotary debarker having pivotable bark-removing tools biased by fluid under pressure in an annular tank. 2,908,302, 10-13-59, Cl. 144—208.
- Mulno, Lester F., to Harrington & Richardson, Inc. Breech release mechanism. 2,876,576, 3-10-59, Cl. 42—44.
- Mulqueeny, Thomas J., and J. D. Clark, to Olin Mathieson Chemical Corp. Incorporation of water soluble salts in propellent powder. 2,889,216, 6-2-59, Cl. 52—21.
- Mulrooney, Edward A., Jr.: *See*—  
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- Mulrooney, Edward A., Jr., to Continental-Diamond Fibre Corp. Air relief valve for a plastics extrusion ram. 2,904,830, 9-22-59, Cl. 18—12.
- Mulry, Raymond D.: *See*—  
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- Multi-Carton Corp.: *See*—  
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- Multi-Lift Co.: *See*—  
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- Multi-Metal Wire Cloth Co., Inc.: *See*—  
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- Multiple Extrusions, Inc.: *See*—  
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- Multi-Products Co., Inc.: *See*—  
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- Multiscope, Inc.: *See*—  
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- Multiscore Co., Inc.: *See*—  
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- Multicator Corp.: *See*—  
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- Mul-T-Typer Corp.: *See*—  
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- Mulvaney, Loyola I.: *See*—  
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- Mulvany, Paul K., W. West, and A. Goldschmidt, to California Research Corp. Preparation of higher alkyl methacrylates. 2,891,990, 6-23-59, Cl. 260—486.
- Mulvanna, Elmer, to S. C. Johnson & Son. Detachable clip. 2,896,810, 7-28-59, Cl. 220—23.4.
- Mumford, Eustace H., to Owens-Illinois Glass Co. Glassware transfer device. 2,867,335, 1-6-59, Cl. 214—1.
- Mumford, Eustace H., to Owens-Illinois Glass Co. Method of transferring parisons. 2,918,756, 12-29-59, Cl. 49—80.
- Mumford, George V.: *See*—  
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- Mumford, George V., and L. D. Soubier, to Owens-Illinois Glass Co. Method for forming plastic articles. 2,878,520, 3-24-59, Cl. 18—55.
- Mumford, William W., and A. J. Newland, to Bendix Aviation Corp. Switch. 2,868,920, 1-13-59, Cl. 200—87.
- Mumma, Harold J., to Food Machinery and Chemical Corp. Machine for handling eggs. 2,895,274, 7-21-59, Cl. 53—59.
- Mumma, Harold J., to Food Machinery and Chemical Corp. Carton closing machine. 2,909,880, 10-27-59, Cl. 53—377.
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- Munao, Carmelo C.: *See*—  
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- Munch, Walter, Jr., to The Baldwin Piano Co. Percussive circuit and assembly. 2,918,576, 12-22-59, Cl. 250—27.
- Munchbach, Kurt, to F. Ungerer. Locking means for locking wheels, particularly gear wheels, on driving shafts. 2,886,358, 5-12-59, Cl. 287—53.
- Mund, Elgin H. Livestock feeder. 2,902,003, 9-1-59, Cl. 119—52.
- Mund, Mark G., and D. K. Anderson, to Donaldson Co., Inc. Air cleaner construction. 2,887,177, 5-19-59, Cl. 183—34.
- Mund, Morris. Self adjusting window masking device. 2,883,962, 4-28-59, Cl. 118—505.
- Munday, Charles W., to The Distillers Co. Ltd. Radiation interrupters. 2,884,543, 4-28-59, Cl. 250—219.
- Mundean Mfg. Co.: *See*—  
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- Mundell, Elmore H., and G. E. Stark, to R. R. Donnelley & Sons Co. Comparison gauge for arcuate surfaces. 2,911,728, 11-10-59, Cl. 33—174.
- Munding, Clarence P. Road surfacing composition and a process for preparing same. 2,877,127, 3-10-59, Cl. 106—278.
- Mundt, Diedrich E., to "Hold-Heat" Products Corp. Electric motor automatic recycling system. 2,878,436, 3-17-59, Cl. 318—443.
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- Mundy, Alfred F., to United States of America, Navy. Silica gel as underwater noise source. 2,911,617, 11-3-59, Cl. 340—5.
- Munekata, Eiji, to The Asahi Chemical Industry Co., Ltd. Method of producing a nitrogen phosphate or potassium nitrogen phosphate fertilizer. 2,899,293, 8-11-59, Cl. 71—43.
- Munford, Theodore W. to Surface Combustion Corp. Furnace conveyor system. 2,883,171, 4-21-59, Cl. 263—6.
- Mungen, Richard, to Pan American Petroleum Corp. Separation of solids from gases. 2,896,745, 7-28-59, Cl. 183—122.
- Munger, Elbert E., Jr. Telephone answering device. 2,877,303, 3-10-59, Cl. 179—6.
- Mungovan, Francis P. Removable head rest for vehicles. 2,897,878, 8-4-59, Cl. 155—174.
- Munich, Joseph: *See*—  
O'Neil, James E., and Munich. 2,877,853.



- Munker, Theo. Method and apparatus for heat treating materials in a continuous operating furnace. 2,872,173, 2-3-59, Cl. 263-3.
- Munker, Theodor. Apparatus for measuring temperatures. 2,886,970, 5-19-59, Cl. 73-355.
- Munns, Michael G.: *See*—  
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- Munns, William O.: *See*—  
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- Múñoz Justiz, Electric heater. 2,879,371, 3-24-59, Cl. 219-39.
- Munro, David C. Noise making device for velocipedes or the like. 2,874,514, 2-24-59, Cl. 46-175.
- Munro, David C. Noisemaking attachment for bicycles. 2,894,357, 7-14-59, Cl. 46-175.
- Munro, Donald H., Jr.: *See*—  
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- Munro, Duncan J., to Imperial Chemical Industries Ltd. Stabilisation of phenols. 2,889,872, 6-2-59, Cl. 260-620.
- Munro, Neil.: *See*—  
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- Munro, Robert W., to The Griscom-Russell Co. Desuperheater construction for heat exchanger. 2,910,275, 10-27-59, Cl. 257-43.
- Munro, William H., and D. H. Munro, Jr. Table game with magnetic playing element. 2,903,264, 9-8-59, Cl. 273-85.
- Muns, George E., and D. C. Berkebile, to Crucible Steel Co. of America. Process for recovering useful values from waste pickle liquor and raw coke oven gas. 2,880,061, 3-31-59, Cl. 23-77.
- Munschauer, Frederick E., to Niagara Machine and Tool Works. Fluid operated clutch. 2,884,108, 4-28-59, Cl. 192-88.
- Munschauer, Frederick E., to Niagara Machine & Tool Works. Clutch brake sequence control for power presses and the like. 2,905,290, 9-22-59, Cl. 192-12.
- Munschauer, Frederick E., Jr., to Niagara Machine & Tool Works. Power press drive mechanism. 2,878,909, 3-24-59, Cl. 192-3.5.
- Munschauer, Frederick E., Jr., to Niagara Machine & Tool Works. Power press drive mechanism. 2,881,880, 4-14-59, Cl. 192-3.5.
- Munse, Robert A., to Illinois Tool Works. Snap-in fastener. 2,885,754, 5-12-59, Cl. 24-73.
- Munsingwear, Inc.: *See*—  
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- Munson, Chester L., to The Louis Allis Co. Air-cooled eddy current coupler device. 2,908,834, 10-13-59, Cl. 310-105.
- Munson, George M.: *See*—  
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- Munson, Ralph H. and T. M., Jr., to Terado Co. Converter. 2,888,631, 5-26-59, Cl. 321-49.
- Munson, Theodore M., Jr.: *See*—  
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- Munson, Whitney K. Interchangeable type assemblage for stamp devices. 2,877,707, 3-17-59, Cl. 101-380.
- Munt, Irwin: *See*—  
 Garfinkel, Alan R., Spinelli, and Munt. 2,878,418.
- Munter, Casimir J., to Hagan Chemicals & Controls, Inc. Feeding devices. 2,899,971, 8-18-59, Cl. 137-216.
- Munters, Carl, & Co.: *See*—  
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- Munton, John P., and P. A. Peterson, to Rice Barton Corp. End dike for a paper coating machine. 2,918,899, 12-29-59, Cl. 118-413.
- Muntz, Alan, & Co. Ltd.: *See*—  
 Butler, Stanley M. 2,884,919.
- Münz, Ferdinand: *See*—  
 Delfs, Detlef, and Münz. 2,901,497.
- Munz, Otto J. Linear motor control. 2,911,538, 11-3-59, Cl. 250-204.
- Munzig, Arthur L. Electric antenna. 2,880,416, 3-31-59, Cl. 343-720.
- Murakami, Masuo, and S. Senoh. Method of synthesis of dialkyl alpha-ketoglutarate from alkyl 3,5-dialkoxy-2,5-dihydro-2-furoate. 2,919,289, 12-29-59, Cl. 260-483.
- Murakami, Yoshihiko. Cold rolling mills. 2,907,235, 10-6-59, Cl. 80-38.
- Muramatsu, James S., and D. V. Harding, to North American Aviation, Inc. Aerial pickup and tow boom. 2,917,289, 12-15-59, Cl. 258-1.2.
- Murata, Kwanji. Sulfur dioxide-acetic acid reaction product. 2,903,481, 9-8-59, Cl. 260-545.
- Murch, Robert H.: *See*—  
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- Murchie, Robert B. Bed dolly. 2,876,020, 3-3-59, Cl. 280-179.
- Murcott, Charles E., to General Medical Equipment Corp. Multiple element cleaning device for hypodermic syringes. 2,869,160, 1-20-59, Cl. 15-105.
- Murdoch, Alexander, Jr., to Blackstone Corp. Ultrasonic transducers. 2,874,316, 2-17-59, Cl. 310-26.
- Murdoch, Clayton E.: *See*—  
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- Murdock, Clayton E., to Eitel-McCullough, Inc. Electron tube. 2,867,747, 1-6-59, Cl. 315-5.38.
- Murdock, Forrest L., Sr. Telescoping tank. 2,887,243, 5-19-59, Cl. 220-8.
- Murdock, Forrest L., Sr. Collapsible tank. 2,904,209, 9-15-59, Cl. 220-8.
- Murdock, Paul F., and C. M. Pratt, to Pratt, Read & Co., Inc. Method of constructing a piano action. 2,877,537, 3-17-59, Cl. 29-149.5.
- Murdoch, Robert W., and R. C. Singleton, to Gregory Industries, Inc. Welding stud and ferrule. 2,896,065, 7-21-59, Cl. 219-99.
- Murdock, Silas M., to Columbian Rope Co. Synthetic rope structure and method of making same. 2,917,891, 12-22-59, Cl. 57-140.
- Muren, Albert P., Jr.: *See*—  
 Vancamp, Raymond M., and Muren. 2,914,576.
- Murer, Murrel, to D. Rue. Furrow cover. 2,907,397, 10-6-59, Cl. 172-736.
- Murfin, Paul E., to United States of America, Navy. Low frequency amplifier. 2,890,295, 6-9-59, Cl. 179-171.
- Murgolo, Nicholas. Pleat pin. 2,898,990, 8-11-59, Cl. 160-348.
- Murillo, Frank G. Lawn-maintenance machine. 2,882,668, 4-21-59, Cl. 56-25.4.
- Murnighan, John: *See*—  
 McCormick, John. 2,876,048.
- Murphy, Rozier C., Jr. Golf club hand grip. 2,873,970, 2-17-59, Cl. 273-81.3.
- Murphy, Wilbur A., to E. I. du Pont de Nemours and Co. Process for preparing fiber-forming polythioesters by interfacial condensation polymerization. 2,870,126, 1-20-59, Cl. 260-78.5.
- Murphy, Wilbur A., to E. I. du Pont de Nemours and Co. Resinous condensation product of a chlorinated aromatic disulfonyl halide and a diamine. 2,875,183, 2-24-59, Cl. 260-79.3.
- Murphree, Eger V., to Esso Research and Engineering Co. System for recovering oil from solid oil-bearing materials. 2,908,617, 10-13-59, Cl. 202-14.
- Murphrey, Sherrod B. Automatic steering device for vehicles. 2,881,712, 4-14-59, Cl. 104-244.1.
- Murphy, Andrew H.: *See*—  
 Pulsifer, Verne, and Murphy. 2,885,459.
- Murphy, Brian J. M., to United Shoe Machinery Corp. Work supports for shoe machines. 2,892,199, 6-30-59, Cl. 12-86.7.
- Murphy, Bynum E., W. L. Brewer, Jr., and A. E. Melton, to Dealer Associates, Inc. Brush cutter. 2,872,770, 2-10-59, Cl. 56-25.4.
- Murphy, Charles T. Animal trap. 2,916,847, 12-15-59, Cl. 43-61.
- Murphy, Cornelius M., to Allied Chemical Corp. Process for manufacture of anhydrous, heavy metal-free sulfites. 2,899,273, 8-11-59, Cl. 23-129.
- Murphy, David W., to Pastushin Aviation Corp. Ejector release mechanism for auxiliary fuel tanks, and the like. 2,869,523, 1-20-59, Cl. 123-24.
- Murphy, David W., to Pastushin Aviation Corp. Jaw assembly unit for aircraft pylons. 2,918,324, 12-22-59, Cl. 294-83.
- Murphy, Donald D., to Joy Mfg. Co. Self-aligning belt idler. 2,873,022, 2-10-59, Cl. 198-202.
- Murphy, Donald D., to Joy Mfg. Co. Reversible belt training idler. 2,916,139, 12-8-59, Cl. 198-202.
- Murphy Door Bed Co. Inc.: *See*—  
 Levi, Hans L. 2,903,222.
- Murphy, Edward C., to Western Electric Co., Inc. Cushioned valves. 2,916,019, 12-8-59, Cl. 121-46.5.
- Murphy, Edward J., to Sperry Rand Corp. Amplitude modulator for microwaves. 2,880,399, 3-31-59, Cl. 233-81.
- Murphy, Edwin W., 40% to C. W. Jones and 10% to T. Murphy, Tea bag. 2,881,910, 4-14-59, Cl. 206-0.5.
- Murphy, Eugene E., to American Brake Shoe Co. Hydraulic generator drive. 2,910,013, 10-27-59, Cl. 105-96.1.
- Murphy, Frances G.: *See*—  
 Murphy, Frank V. 2,891,330.
- Murphy, Frank R. Laterally adjustable mop with pivoted brace means. 2,903,730, 9-15-59, Cl. 15-229.
- Murphy, Frank V.,  $\frac{1}{4}$  to T. J. Murphy,  $\frac{1}{4}$  to L. J. Murphy,  $\frac{1}{4}$  to F. G. Murphy,  $\frac{1}{4}$  to G. A. Murphy,  $\frac{1}{4}$  to K. V. Murphy, and  $\frac{1}{4}$  to J. W. Murphy. Snow clearing implement. 2,891,330, 6-23-59, Cl. 37-53.
- Murphy, Frank W. Magnetically controlled fuel valve. 2,875,617, 3-3-59, Cl. 74-2.
- Murphy, George A.: *See*—  
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- Murphy, George B. Refrigeration system. 2,914,924, 12-1-59, Cl. 62-174.
- Murphy, George E. Weatherproof padlock. 2,904,985, 9-22-59, Cl. 70-51.
- Murphy, George T., to A. J. Gerrard & Co. Car loading retaining strip and lock therefor. 2,890,747, 6-16-59, Cl. 160-368.
- Murphy, Goodrich K., to The Budd Co. High capacity private compartment passenger vehicle. 2,914,001, 11-14-59, Cl. 105-315.
- Murphy, Goodrich K., to The Budd Co. High capacity private compartment passenger vehicle. 2,914,002, 11-24-59, Cl. 105-315.
- Murphy, Harold P., and A. L. Levine, to The Electric Storage Battery Co. Alkaline storage battery. 2,880,257, 3-31-59, Cl. 136-29.
- Murphy, Howard: *See*—  
 Mergen, Joseph M., and Murphy. 2,887,200.



- Murphy, Howard J., to United-Carr Fastener Corp. Hose clamp. 2,876,514, 3-10-59, Cl. 24-20.
- Murphy, Howard J., to United-Carr Fastener Corp. Tube shield. 2,902,533, 9-1-59, Cl. 174-35.
- Murphy, Howard J., to United-Carr Fastener Corp. Captivated tube shield. 2,908,742, 10-13-59, Cl. 174-35.
- Murphy, Jeremiah T. Sand and gravel drying machine. 2,899,070, 8-11-59, Cl. 210-523.
- Murphy, John F., and E. H. Uhing, to Swift & Co. Method of processing egg albumen. 2,892,720, 6-30-59, Cl. 99-113.
- Murphy, John R.: See—  
O'Malley, Vincent J., and Murphy. 2,886,002.
- Murphy, Joseph W.: See—  
Murphy, Frank V. 2,891,330.
- Murphy, Katherine M. Aprons. 2,907,042, 10-6-59, Cl. 2-48.
- Murphy, Kathleen V.: See—  
Murphy, Frank V. 2,891,330.
- Murphy, L. R., Scale Co.: See—  
Murphy, Leslie R. 2,869,855.
- Murphy, Laurence W., to Geo. A. Hormel & Co. Apparatus and process for facilitating slaughter and for bleeding slaughter animals. 2,895,164, 7-21-59, Cl. 17-45.
- Murphy, Leo J.: See—  
Murphy, Frank V. 2,891,330.
- Murphy, Leslie R., to L. R. Murphy Scale Co. Extensible scale platform for weighing trucks and the like. 2,869,855, 1-20-59, Cl. 265-71.
- Murphy, Marion D. Ventilated block wall. 2,868,010, 1-13-59, Cl. 72-127.
- Murphy, Mary E.: See—  
Chapin, Earl C., and Murphy. 2,916,392.
- Murphy, Maynard J., and R. J. Holton. Loose leaf binder. 2,879,772, 3-31-59, Cl. 129-1.
- Murphy, Melvin H., to Brubaker Electronics, Inc. Delay line test means and techniques. 2,889,515, 6-2-59, Cl. 324-57.
- Murphy, Nelson F.: See—  
Doumas, Arthur C., and Murphy. 2,902,416.
- Murphy, Norman B., to Bendix Aviation Corp. Signal transmitter with manual control comprising inductive device. 2,894,230, 7-7-59, Cl. 336-30.
- Murphy, Orlando J.: See—  
Henning, Harley A., and Murphy. 2,886,802.
- Murphy, Orlando J., to Bell Telephone Laboratories, Inc. Magnetic storage and reproduction system. 2,886,800, 5-12-59, Cl. 340-174.
- Murphy, Owen K. Motor operated kinesiotherapy device. 2,917,043, 12-15-59, Cl. 128-33.
- Murphy, Patrick J., to Schneithorst Catering Co. Wrapped sandwiches and wrapper therefor. 2,893,876, 7-7-59, Cl. 99-171.
- Murphy Radio Ltd.: See—  
Fairhurst, Harold A. 2,908,746.
- Murphy, Raymond J., to Fred Medart Mfg. Co. Power actuated movers for telescoping gymnasium seat-structures. 2,898,639, 8-11-59, Cl. 20-1126.
- Murphy, Richard C.: See—  
Fresh, John N., and Murphy. 2,881,444.
- Stelter, Francis C. W. 2,884,623.
- Murphy, Richard J., J. L. Phillips, and W. S. Pakko, to Boeing Airplane Co. Dry ice sealant guns. 2,872,083, 2-3-59, Cl. 222-327.
- Murphy, Richard P., to Bell Telephone Laboratories, Inc. Two-way photoelectric translator. 2,894,255, 7-7-59, Cl. 340-347.
- Murphy, Robert W., to International Business Machines Corp. Magnetic display device. 2,875,537, 3-3-59, Cl. 40-52.
- Murphy, Thomas: See—  
Murphy, Edwin W. 2,881,910.
- Murphy, Thomas J.: See—  
Murphy, Frank V. 2,891,330.
- Murphy, Thomas J., to Gadget-Of-The-Month Club, Inc. Shave indicating device. 2,885,993, 5-12-59, Cl. 116-133.
- Murphy, Venus R. Shoe with changeable elements. 2,873,540, 2-17-59, Cl. 36-25.
- Murphy, William A. Swimming pool cover. 2,912,703, 11-17-59, Cl. 4-172.
- Murphy, William P., Jr., to Dade Reagents, Inc. Process for making tubes. 2,876,496, 3-10-59, Cl. 18-56.
- Murrah, Edmund S., to Morgan Construction Co. Apparatus for measuring sheared lengths. 2,867,908, 1-13-59, Cl. 33-141.
- Murray, Alan E. Form-fitting footwear. 2,868,197, 1-13-59, Cl. 128-153.
- Murray, Alan E. Process of foot casting. 2,877,502, 3-17-59, Cl. 18-55.05.
- Murray, Alan E. Foot casting process. 2,887,727, 5-26-59, Cl. 18-55.05.
- Murray, Alan E. Skating shoe. 2,904,902, 9-22-59, Cl. 36-25.
- Murray, Alan E. Foot casts and process of making the same. 2,913,771, 11-24-59, Cl. 18-55.05.
- Murray, Arthur E., 40% to E. T. Cassidy, and 20% to J. F. Rodriguez. Perfume diffuser. 2,898,649, 8-11-59, Cl. 20-120.
- Murray, Clyde E. Polish rod adjuster device. 2,886,975, 5-19-59, Cl. 74-108.
- Murray Co. of Texas, Inc.: See—  
Belezos, Stratis G. 2,917,947.
- Schumb, Martin T. 2,868,031.
- Murray Corp. of America, The: See—  
Engel, J. Anthony, and Lamkin. 2,875,526.
- Etherington, John F. 2,890,580.
- Flannery, John P. 2,886,900.
- Guild, Lurelle V. A. 2,867,488.
- Hullar, Herbert E. 2,867,430.
- Hullar, Herbert E. 2,875,996.
- Landwier, William G. 2,867,105.
- Leach, Hugh K. 2,909,050.
- May, Claude H. 2,900,207.
- Reiley, George L. 2,895,230.
- Murray, Donald A.: See—  
Toland, Wayne G., and Murray. 2,913,059.
- Murray, Donald A., to International Harvester Co. Wheel controlled harrow. 2,869,305, 1-20-59, Cl. 55-73.
- Murray, Donald R.: See—  
Forrest, Harry D., and Murray. 2,904,896.
- Murray, Edgar T.: See—  
Middleton, William H. 2,890,756.
- Murray, Edward A., and R. W. McCullough, to Deering Milliken Research Corp. Textile process. 2,907,094, 10-6-59, Cl. 28-76.
- Murray, Franklin C. Transmission belt. 2,884,797, 5-5-59, Cl. 74-233.
- Murray, Frederick R., to Rolls-Royce Ltd. Gas turbine combustion equipment construction. 2,913,873, 11-24-59, Cl. 60-39.69.
- Murray, Herbert C.: See—  
Fonken, Gunther S., and Murray. 2,913,457.
- Murray, Herbert C., and D. H. Peterson, to The Upjohn Co. Process for the production of 10-hydroxy-19-nortestosterone by rhizopus. 2,888,384, 5-26-59, Cl. 195-51.
- Murray, Herbert C., and P. D. Meister, to The Upjohn Co. 15-hydroxylation of steroids by Gibberella and Fusarium. 2,889,255, 6-2-59, Cl. 195-51.
- Murray, Herbert C., and O. K. Sebek, to The Upjohn Co. Use of second steroid to accelerate 1-dehydrogenation of substrate steroid. 2,902,411, 9-1-59, Cl. 195-51.
- Murray, Hugh A., Sr., to I. D. L. Inc. Portable traffic marker. 2,898,879, 8-11-59, Cl. 116-63.
- Murray, James S., to General Telephone Laboratories, Inc. Continuous or intermittent telephone traffic registering system. 2,882,340, 4-14-59, Cl. 179-8.5.
- Murray, James S., to General Telephone Laboratories, Inc. Automatic routiner for selector and connector switches. 2,914,624, 11-24-59, Cl. 179-175.21.
- Murray, James V., Jr.: See—  
Lampert, Bernard B., Murray, and Peck. 2,910,518.
- Murray, James V., Jr., J. D. Fales, and M. A. Eccles, to Union Carbide Corp. Hydrogenolysis of coal hydrogenation products. 2,913,397, 11-17-59, Cl. 208-107.
- Murray, James V., Jr., J. D. Fales, and C. H. Young, to Union Carbide Corp. Recovery of indoles. 2,916,497, 12-8-59, Cl. 260-319.
- Murray, Jerome L. Servo drive power steering mechanism and the like. 2,893,356, 7-7-59, Cl. 121-41.
- Murray, John F.: See—  
Aspelin, Leslie L., and Murray. 2,876,705.
- Aspelin, Leslie L., Murray, and Lorenz. 2,887,058.
- Murray, John F., and J. A. Wotring, to Thompson Products, Inc. Bushing for pressure loaded gear pump having a tapered journal surface. 2,870,719, 1-27-59, Cl. 103-126.
- Murray, John F., to Thompson Products, Inc. Pressure loaded pump construction. 2,881,704, 4-14-59, Cl. 103-5.
- Murray, John F., and D. L. Lorenz, to Thompson Ramo Wooldridge Inc. Movable bushing for pressure loaded gear pumps. 2,891,483, 6-23-59, Cl. 103-126.
- Murray, John G.: See—  
Carroll, John E., and Murray. 2,873,356.
- Murray, John M., to Grant-Murray, Inc. Smoke producing display device. 2,885,807, 5-12-59, Cl. 40-106.22.
- Murray Mfg. Corp.: See—  
Braunack, Charles F. 2,897,316.
- Braunack, Charles F. 2,918,554.
- Braunack, Charles F. 2,919,325.
- Brunner, Carl. 2,875,289.
- Kobryner, Herman H. 2,877,919.
- Kobryner, Herman H. 2,907,849.
- Phelps, George H. 2,872,656.
- Rypinski, Albert B., Smith, Brunner, and Laverty. 2,890,306.
- Murray, Maxton F., to The Upjohn Co. Erythromycin salts. 2,870,138, 1-20-59, Cl. 260-210.
- Murray, Maxton F., to The Upjohn Co. Salicylic acid 2,6-dimethyl-4-n-propoxybenzoate. 2,874,181, 2-17-59, Cl. 260-473.
- Murray, Maxton F., to The Upjohn Co. Cycloheximide thiosemicarbazone. 2,885,320, 5-5-59, Cl. 167-33.
- Murray, Maxton F., to The Upjohn Co. Alkyl hydrazones of cycloheximide. 2,894,871, 7-14-59, Cl. 167-33.
- Murray, Maxton F., to The Upjohn Co. Cycloheximide  $\beta$ -keto-carboxylic acid esters. 2,894,872, 7-14-59, Cl. 167-33.
- Murray, Michael F.: See—  
Dickson, Clifford C. 2,901,027.
- Murray Ohio Mfg. Co., The: See—  
Douglas, Alvin P., Golrick, and Skerl. 2,899,030.
- Douglas, Alvin P., and Hahn. 2,897,687.
- Hahn, Gilbert B. 2,912,255.
- Murray, Peter B.: See—  
Mills, Ivor W., and Murray. 2,915,460.



- Murray, Peter B., to Sun Oil Co. Dehydrogenation of hydrocarbons. 2,867,677, 1-6-59, Cl. 260-673.5.
- Murray, Peter B., to Sun Oil Co. Polymerization of olefins with copper acetylide, silver acetylide or mercury acetylide catalyst. 2,890,212, 6-9-59, Cl. 260-93.7.
- Murray, Victor S. Supported concrete floor and conduits. 2,870,623, 1-27-59, Cl. 72-70.
- Murray, Wallace J., to Arthur D. Little, Inc. Vapor phase corrosion inhibition. 2,914,424, 11-24-59, Cl. 117-106.
- Murray, William: *See*—
- Moore, James W. 2,875,014.
- Murray, William. Combined fluid and contact seal. 2,873,986, 2-17-59, Cl. 286-10.
- Murray, William S., and J. R. Dyer, Jr., to The Indium Corp. of America. Printed circuits and method of soldering the same. 2,909,833, 10-27-59, Cl. 29-155.5.
- Murray, William Y.: *See*—
- Davey, Edward L., and Murray. 2,897,253.
- Murrell, Harvey S. Tapered tube forming and applying mechanism. 2,867,956, 1-13-59, Cl. 53-296.
- Murrey, Orville E. Side boom for tractors. 2,885,092, 5-5-59, Cl. 212-8.
- Murro, Haim. Attachment for tone arm control in automatic record players. 2,888,267, 5-26-59, Cl. 274-15.
- Murtaugh, Joseph P., to American Brake Shoe Co. Retaining key for dipper tooth parts having resilient pad. 2,870,667, 1-27-59, Cl. 85-8.3.
- Murtaugh, Justin J., and I. Caldas, Jr., to Schenley Industries, Inc. Process for the production of dry streptomycin trihydrochloride. 2,882,270, 4-14-59, Cl. 260-210.
- Murtaugh, Justin J., M. E. Lavrich, D. G. Ruff, C. J. Krueck, and J. E. Grant, to Blatz Brewing Co. Method of extracting hops. 2,893,209, 8-4-59, Cl. 99-50.5.
- Murty, Kenneth T., to Chance Vought Aircraft, Inc. Silencer. 2,882,993, 4-21-59, Cl. 181-69.
- Murway, Edward: *See*—
- Schwendemann, Edward T., Sadowsky, and Murway. 2,894,856.
- Musaphia, Georges. Animated optical viewer. 2,918,844, 12-29-59, Cl. 88-24.
- Muschalek, Ben E., Jr. Stroke increasing attachment for walking beam. 2,877,652, 3-17-59, Cl. 74-41.
- Muschalek, Ben E., Jr. Shaft bearing. 2,916,338, 12-8-59, Cl. 308-237.
- Muschong, Peter W.: *See*—
- Duenke, Clarence G., and Muschong. 2,906,976.
- Muse, John F., to Baker Oil Tools, Inc. Apparatus for automatically filling well conduits with fluid. 2,874,785, 2-24-59, Cl. 166-225.
- Muse, Paschal: *See*—
- Culpepper, Albert D. 2,919,013.
- Musgrave, Albert W. Apparatus for describing homothetic geometrical figures. 2,874,473, 2-24-59, Cl. 33-24.
- Musgrave, Barrington L.,  $\frac{1}{2}$  to A. C. Nolte. Electric heating devices and the like. 2,889,439, 6-2-59, Cl. 219-19.
- Musgrave, Daniel D. Machine gun. 2,883,911, 4-28-59, Cl. 89-161.
- Musgrave, Daniel D. Bomb-racks. 2,896,509, 7-28-59, Cl. 89-15.
- Musgrave, John M. Illuminated fountain display. 2,879,944, 3-31-59, Cl. 239-20.
- Musgrave, Orly. Power lawn mower. 2,891,370, 6-23-59, Cl. 56-25.4.
- Musgrave, William K. R., to United States of America, Atomic Energy Commission. Separation of uranium from thorium and protactinium. 2,892,677, 6-30-59, Cl. 23-14.5.
- Mushovic, Peter, and H. W. Schultz, to General Motors Corp. Method for making composite stock. 2,879,587, 3-31-59, Cl. 29-488.
- Mushynski, Joseph. License plate holders. 2,916,842, 12-15-59, Cl. 40-202.
- Muscant, Louis, to National Radiac, Inc. Neutron detector. 2,880,326, 3-31-59, Cl. 250-71.5.
- Musiol, Leo: *See*—
- Hammen, Heinrich, and Musiol. 2,867,545.
- Muskat, Irving E., and J. J. Klein, to Fiber Bond Corp. Foamable pad and method of making same. 2,879,197, 3-24-59, Cl. 154-137.
- Muskegon Piston Ring Co.: *See*—
- Endres, Donald M., and Shepard. 2,904,377.
- Hamm, Douglas W. 2,886,384.
- Hamm, Douglas W. 2,907,101.
- Hamm, Douglas W. 2,910,354.
- Meyer, Walter W., Hicks, and Dolhun. 2,888,280.
- Shepard, Ralph M. 2,904,376.
- Muslin, Louis: *See*—
- Hafinger, Franz, and Muslin. 2,905,693.
- Musolf, Gunter F., to Radio Corp. of America. Automatic iris control for television cameras. 2,898,536, 8-4-59, Cl. 318-290.
- Muss, Daniel R., and R. L. Longini, to Westinghouse Electric Corp. Modulator. 2,879,481, 3-24-59, Cl. 332-52.
- Musselman, Andrew J. Metallic door construction. 2,877,876, 3-17-59, Cl. 189-46.
- Musselman, Glenn H., to United States of America, Navy. Cycle matching receiver. 2,882,526, 4-14-59, Cl. 343-103.
- Musser, C. Walton: *See*—
- Dietsch, Frank W., and Musser. 2,876,679.
- Moldofsky, Matthew, Musser, and Stott. 2,902,933.
- Musser, C. Walton, to United States of America, Army. Recoilless gun having radially movable breech sectors. 2,874,614, 2-24-59, Cl. 89-1.7.
- Musser, C. Walton, to United States of America, Army. Quick detachable connection between a gun and its mount. 2,882,797, 4-21-59, Cl. 89-27.
- Musser, C. Walton, to United Shoe Machinery Corp. Strain wave rotary valve. 2,883,150, 4-21-59, Cl. 251-340.
- Musser, C. Walton, to United States of America, Army. Trigger release mechanism for a plurality of guns. 2,895,381, 7-21-59, Cl. 89-27.
- Musser, C. Walton. Tolerance measurement on small bearings. 2,906,116, 9-29-59, Cl. 73-67.
- Musser, C. Walton, to United Shoe Machinery Corp. Strain wave gearing. 2,906,143, 9-29-59, Cl. 74-640.
- Musser, C. Walton, to United States of America, Army. Quick detachable gun supporting tripod. 2,906,176, 9-29-59, Cl. 89-40.
- Musser, C. Walton. Pump. 2,910,006, 10-27-59, Cl. 103-149.
- Musser, C. Walton, and L. W. Insetta. Positioning and housing of crusher gauges. 2,870,631, 1-27-59, Cl. 73-167.
- Musser, C. Walton, and F. W. Dietsch, to United States of America, Army. Remote control fluid pressure responsive actuator. 2,873,648, 2-17-59, Cl. 89-1.
- Musser, C. Walton, A. M. Stott, and A. Benditt, to United States of America, Army. Head for cartridge actuated catapult. 2,883,909, 4-28-59, Cl. 89-1.
- Musser, C. Walton, and S. Greenberg, to United States of America, Army. Combined adjustable support and object releasably interlocked therewith. 2,889,628, 6-9-59, Cl. 33-48.
- Musser, Clair O. Toy musical instrument. 2,871,746, 2-3-59, Cl. 84-405.
- Musser, Clair O. Toy piano having key mounted tone bars. 2,873,639, 2-17-59, Cl. 84-404.
- Mutser, David M., and Zocollilo, to Refined Products Corp. Phenyl mercury compounds. 2,867,563, 1-6-59, Cl. 167-30.
- Musser, Jay C., to Klein Chocolate Co. Chocolate foam topping and method. 2,883,286, 4-21-59, Cl. 99-139.
- Musser, Samuel J.: *See*—
- Underwood, Gerald E., and Musser. 2,889,243.
- Musser, Samuel J., and G. E. Underwood, to The Upjohn Co. Anti-viral composition comprising a cyclic glyoxal, and method of use. 2,893,912, 7-7-59, Cl. 167-30.
- Mussett, Clarence W. Stacking device. 2,894,648, 7-14-59, Cl. 214-6.
- Mussio, Victor P.: *See*—
- Vidal, Antoine, and Mussio. 2,892,897.
- Musson, Harry R., to Keeprite Products Ltd. Winter control valve arrangement in refrigerating system. 2,874,550, 2-24-59, Cl. 62-196.
- Mussulman, Wayne C.: *See*—
- Liggett, Robert W., Mussulman, Rentshler, and Ziffer. 2,881,115.
- Lockmiller, Noel R., Mussulman, and Turner. 2,881,075.
- Mustee, Bernard E., to E. L. Mustee & Sons, Inc. Door balance and limit device. 2,910,336, 10-27-59, Cl. 312-328.
- Mustee, E. L., & Sons, Inc.: *See*—
- Mustee, Bernard E. 2,910,336.
- Mustoe, Robert M., to United States Gypsum Co. Sound absorbing units and method of making same. 2,882,990, 4-21-59, Cl. 181-33.
- Muszynski, Francis. Duck decoy. 2,917,857, 12-22-59, Cl. 43-3.
- Muszynski, Richard S. Motor. 2,893,210, 7-7-59, Cl. 60-97.
- Mutchnik, Henry. Wedge fastener assemblies. 2,871,077, 1-27-59, Cl. 311-110.
- Mutchnik, Henry. Laterally moving furniture leg fastener. 2,882,110, 4-14-59, Cl. 311-112.
- Muter Co.: *See*—
- Novak, James F. 2,900,040.
- Williams, Philip B. 2,905,260.
- Muth, Robert C., and G. W. Hegel, to General Electric Co. Temperature varying means. 2,869,939, 1-20-59, Cl. 308-77.
- Muto, Anthony D.: *See*—
- Kostolecki, John F., and Muto. 2,905,275.
- Muto, Chojiro: *See*—
- Noguchi, Yukio, Nakatomi, and Muto. 2,917,401.
- Muto, Frank: *See*—
- Scardamalia, Theodore G., and Muto. 2,883,097.
- Mutt, Viktor: *See*—
- Jorpes, Johan E., Mutt, Rastgeldi, and Linden. 2,878,159.
- Muttart, Vincent, to Independent Lock Co. Pin tumbler lock. 2,877,638, 3-17-59, Cl. 70-224.
- Muttart, Vincent, to Independent Lock Co. Turnbutton assembly for cylindrical locks. 2,885,880, 5-12-59, Cl. 70-146.
- Mutter, John F. Anti-recoil gun barrels. 2,916,970, 12-15-59, Cl. 89-14.
- Mutter, Walter E.: *See*—
- Rochester, Nathaniel, Johnson, Amdahl, and Mutter. 2,889,535.
- Mycalex Corp. of America: *See*—
- Hessinger, Philip S. 2,897,573.
- Mycalex Electronics Corp. of America: *See*—
- Monack, Albert J. 2,903,826.
- Myck, Edward A., Jr., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,885,187, 5-5-59, Cl. 257-3.
- Myck, Edward A., Jr., and R. T. Osen, to Minneapolis-Honeywell Regulator Co. Control apparatus for a plurality of condition changing devices. 2,902,220, 9-1-59, Cl. 236-1.



- Myer, Jay L., to Minneapolis-Honeywell Regulator Co. Constituent potential measuring apparatus. 2,909,919, 10-27-59, Cl. 73-23.
- Myer, Jon H.: *See*—  
Gudmundsen, Richard A., and Myer. 2,902,574.
- Myer, Jon H., to Hughes Aircraft Co. Loop contact for semiconductor. 2,896,134, 7-21-59, Cl. 317-234.
- Myers, Clarence R., H. W. Stevens, and J. B. Myers, to The Myers Sherman Co. Hammer mill. 2,888,211, 5-26-59, Cl. 241-37.
- Myers, Edward C. Mechanism for dynamically balancing the work force of a work load. 2,895,282, 7-21-59, Cl. 56-306.
- Myers, Elman B., to Scarborough Associates, Inc. Reflecting electric lamp. 2,901,654, 8-25-59, Cl. 313-113.
- Myers, Errol L., to H. O. Trerice. Air operated controller embodying variable air valve for direct acting or reverse acting motor valve system. 2,913,185, 11-17-59, Cl. 236-86.
- Myers, F. E., & Bro., Co., The: *See*—  
Conery, William J., and Masters. 2,918,975.  
Staats, William A., 2,869,725.
- Myers, Felix E., to I-T-E Circuit Breaker Co. Two pole circuit breaker. 2,913,542, 11-17-59, Cl. 200-5.
- Myers, George A. Newspaper dispensing device. 2,913,144, 11-17-59, Cl. 221-34.
- Myers, George H., to Bell Telephone Laboratories, Inc. Time interval encoder. 2,887,653, 5-19-59, Cl. 324-68.
- Myers, George H. Electrical integration. 2,903,185, 9-8-59, Cl. 235-183.
- Myers, Harold L. Display device. 2,905,332, 9-22-59, Cl. 211-60.
- Myers, Harry S., Jr., to United States of America, Air Force. Standpipe propellant tank. 2,884,937, 5-5-59, Cl. 137-39.
- Myers, Henry F., to United States Steel Corp. Method and apparatus for the continuous heat-treatment of metal strip. 2,892,744, 6-30-59, Cl. 148-16.
- Myers, Henry S., to Power Condenser & Electronics Corp. Electrolyte for electrolytic condenser. 2,886,527, 5-12-59, Cl. 252-62.2.
- Myers, Henry S., to Power Condenser & Electronics Corp. Electrolyte for electrolytic condenser. 2,886,528, 5-12-59, Cl. 252-62.2.
- Myers, Hugh L., to Sun Oil Co. Distillation of petroleum hydrocarbons. 2,885,354, 5-5-59, Cl. 208-284.
- Myers, Hugh L., to Sun Oil Co. Removing acids from petroleum. 2,911,360, 11-3-59, Cl. 208-263.
- Myers, Jacob C. Mechanized method and apparatus for releasing stranded ships. 2,885,988, 5-12-59, Cl. 114-51.
- Myers, James E., Jr. Tuning apparatus. 2,894,225, 7-7-59, Cl. 333-82.
- Myers, John B., to Zonolite Co. Method of processing vermiculite. 2,868,735, 1-13-59, Cl. 252-378.
- Myers, John C., and M. M. Hagar. Jaw face construction for pipe wrenches. 2,895,365, 7-21-59, Cl. 81-186.
- Myers, John F., to Taggart & Myers. Dressing of ore. 2,877,954, 3-17-59, Cl. 241-24.
- Myers, John L.: *See*—  
Vaught, Chapman K., and Myers. 2,886,145.
- Myers, John W., to Phillips Petroleum Co. Process for preparing platinum metal catalysts. 2,891,013, 6-16-59, Cl. 252-455.
- Myers, John W., to Phillips Petroleum Co. Catalyst and process for the conversion of hydrocarbons. 2,899,382, 8-11-59, Cl. 208-138.
- Myers, John W., and F. A. Prange, to Phillips Petroleum Co. Catalysts for the conversion and reforming of hydrocarbons comprising a platinum group metal with a stabilizing metal. 2,911,357, 11-3-59, Cl. 208-138.
- Myers, Joseph T.: *See*—  
Davey, Paul H. 2,905,376.
- Myers, Julian G.: *See*—  
McGiveran, Stanley J., and Myers. 2,881,760.
- Myers, Kenneth H., J. W. Farmer, and L. P. Briesch, to Flexonics Corp. Expansion joint having adaptor member mounted bellows sealing means. 2,911,238, 11-3-59, Cl. 285-286.
- Myers, Oscar: *See*—  
Gooderham, John W., Jacobitti, Myers, Shipley, and Strickler. 2,868,884.
- Myers, Peter B.: *See*—  
Johannessen, John D., Myers, and Schwenker. 2,899,570.
- Myers, Peter B., to Bell Telephone Laboratories, Inc. Switching circuit. 2,899,571, 8-11-59, Cl. 307-88.5.
- Myers, Ray, Corp.: *See*—  
Myers, Raymond L. 2,895,485.
- Myers, Raymond L., to Ray Myers Corp. Card file tray. 2,895,485, 7-21-59, Cl. 129-16.
- Myers, Raymond L. Back support. 2,906,260, 9-29-59, Cl. 128-78.
- Myers, Reginald V.: *See*—  
Phillips, Arthur C., and Myers. 2,896,447.
- Myers, Richard H., to Chance Vought Aircraft, Inc. Maximum temperature recording device. 2,909,925, 10-27-59, Cl. 73-358.
- Myers, Robert B., to Komline-Sanderson Engineering Corp. Drum disc filter. 2,894,832, 7-14-59, Cl. 210-331.
- Myers, Robert L.: *See*—  
Safford, Moyer M., and Myers. 2,867,603.
- Myers, Robert L., to General Electric Co. Process for producing chlorotrifluoroethylene fibers. 2,867,495, 1-6-59, Cl. 18-54.
- Myers, Rodney. Device for trolling. 2,907,133, 10-6-59, Cl. 43-43.1.
- Myers, Russel A.: *See*—  
Housworth, Gordon C. 2,872,937.
- Myers, Samuel A., to Northrop Aircraft, Inc. Electrohydraulic servo assembly with tail-safe structure. 2,886,009, 5-12-59, Cl. 121-41.
- Myers Sherman Co., The: *See*—  
Myers, Clarence R., Stevens, and Myers. 2,888,211.
- Myers, Thomas E. Pulse generating device. 2,889,472, 6-2-59, Cl. 307-132.
- Myers, Thomas G., to U.S. Electrical Motors, Inc. Apparatus for sealing submersible devices. 2,881,013, 4-7-59, Cl. 286-11.
- Myers, Thomas R.: *See*—  
Copping, Geoffrey P., Myers, and Smith. 2,895,610.
- Myers, Wayne E., to The American Laundry Machinery Co. Pole safety device for dry room conveyor. 2,879,885, 3-31-59, Cl. 198-232.
- Myers, Wayne E., to The American Laundry Machinery Co. Rug conveyor for dry room. 2,887,211, 5-19-59, Cl. 198-25.
- Myers, William G.: *See*—  
Neher, Eldon P., and Myers. 2,895,215.  
Sigler, Howard R., Myers, and Harrison. 2,872,727.
- Myers, William G. Machine for assembling resilient bushings. 2,877,543, 3-17-59, Cl. 29-235.
- Myers, William H., to Arco Mfg. Corp. Television receiver construction. 2,896,199, 7-21-59, Cl. 340-367.
- Myhre, Pearl K.: *See*—  
Armstrong, William J., Morrison, and Myhre. 2,905,011.
- Mykelstad, Nils O.: *See*—  
Dobson, Franklin A., and Mykelstad. 2,881,304.
- Myllenberg, Sven B., and K. Warnstrom. Liquid spraying mechanisms, particularly for dish washing machines. 2,873,141, 2-10-59, Cl. 299-71.
- Myracle, James L., and M. Rosenblatt, to General Electric Co. Binary comparator system for position control systems. 2,885,613, 5-5-59, Cl. 318-28.
- Myrgren, Bengt V., and L. Branden, to Telefonaktiebolaget L. M. Ericsson. Signal device for producing sound in telephone instruments. 2,913,715, 11-17-59, Cl. 340-384.
- Myrick, Elvin L., and J. Clark, to Pipelines Mfg. Co., Inc. Apparatus for aligning pipe ends. 2,906,226, 9-29-59, Cl. 113-103.
- Myrick, George H. Inhalator. 2,897,554, 8-4-59, Cl. 21-119.
- Myrels, Louis. Pocket show kerchief. 2,909,785, 10-27-59, Cl. 2-279.
- Myska, Gunter, to G. M. Pfaff A.G. Automatic work control for multiple-operation sewing machines. 2,899,919, 8-18-59, Cl. 112-67.
- Myska, Günter, to G. M. Pfaff A.G. Position control for group stitch sewing and the like machines. 2,906,217, 9-29-59, Cl. 112-67.
- Mystik Adhesive Products, Inc.: *See*—  
Bohaty, Gene. 2,878,142.
- N. G. N. Electrical Ltd.: *See*—  
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- NSU Werke A.G.: *See*—  
Baier, Othmar. 2,870,578.  
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- N. V. Appleton Pty. Ltd.: *See*—  
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- N. V. Briko: *See*—  
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- N.V. COO: *See*—  
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- N.V. Centrale Suiker Maatschappij: *See*—  
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Waterman, Hein I. 2,917,417.
- N.V. Fabriek Van Chemische Producten: *See*—  
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- N.V. Het Spoorwegbouwbedrijf: *See*—  
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Quéré, Hendrik K., and Helder. 2,916,768.
- N.V. Koninklijke Nederlandsche Vliegtuigenfabriek Fokker: *See*—  
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- N.V. Metallic Industry: *See*—  
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- N. V. Ontwerp- & Exploitatiebureau "Shunt": *See*—  
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- N. V. Polak & Schwarz's Essenciefabrieken: *See—*  
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- N. V. Technisch Maatschappij Marchand-Andriessen: *See—*  
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- Nachtman, Elliot S., to La Salle Steel Co. Method of processing steel. 2,880,855, 4-7-59, Cl. 205-21.
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- Nail, Walter P. Car seat cover. 2,904,103, 9-15-59, Cl. 155-182.
- Naill, Eugene J.: *See—*  
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- Naill, Eugene J., to Machlett Laboratories, Inc. Grid structure for electron tube. 2,886,733, 5-12-59, Cl. 313-265.
- Naiman, Mark: *See—*  
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- Nakaji, Edward M.: *See—*  
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- Nakajima, Kiyoshi: *See—*  
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- Nakamura, Taizo. Automatic electric timer. 2,916,570, 12-8-59, Cl. 200-38.



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Noguchi, Yukio, Nakatomi, and Muto. 2,917,401.
- Nakielny, Felix G., to Hercules Powder Co. Composite plastic article with a cellulose acetate component. 2,914,436, 11-24-59, Cl. 154-43.
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- Nall, Dan M.: *See*—  
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Sandborn, Lloyd T., and Nall. 2,913,310.
- Nall, James R.: *See*—  
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- Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Equalization spring system for motor vehicles. 2,917,318, 12-15-59, Cl. 280-104.
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- Namiotka, Edmund. Circular saw filer. 2,868,041, 1-13-59, Cl. 76-31.
- Nance, Robert L.: *See*—  
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- Nankervis, George L., Co.: *See*—  
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Broadbent, David C., and Blyth. 2,882,105.  
Cartwright, Herbert K. 2,872,986.  
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- Napier, Joe T.: *See*—  
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- Napiorski, Carl A., to Union Carbide Corp. Rock-piercing method and blowpipe. 2,882,017, 4-14-59, Cl. 255-1.8.
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- Nappa, Raul R. Heels for footwear. 2,867,919, 1-13-59, Cl. 36-24.5.
- Naps, Marguerite: *See*—  
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- Naps, Marguerite, to Shell Development Co. Phenolic resin compositions containing a metal chelate and glass fiber impregnated therewith. 2,876,208, 3-3-59, Cl. 260-43.
- Narbut, Paul: *See*—  
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- Nardone, Romeo M. Aircraft-type winches. 2,872,130, 2-3-59, Cl. 242-158.2.
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- Narozny, Ronald S., to Malco Tool & Mfg. Co. Terminal pin. 2,877,441, 3-10-59, Cl. 339-258.
- Narrow Fabric Co., The: *See*—  
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- Narrow Fabrics (Lilleys) Ltd.: *See*—  
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- Narumi, Natsuo, to Ikegai Iron Works, Ltd. Work driver for the metal cutting machine. 2,883,198, 4-21-59, Cl. 279-33.
- Nasarevich, Leo S., and J. G. Spitzer, to Carter Products, Inc. Low caloric French dressing. 2,916,383, 12-8-59, Cl. 99-144.
- Nash, Alfred G.: *See*—  
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- Nash, Charles A. Clasps. 2,888,730, 6-2-59, Cl. 24-245.
- Nash, Daniel J., to Nash Inc. Wallet and removable pass case therefor. 2,871,901, 2-3-59, Cl. 150-39.
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- Nash, Edward L., to Studebaker-Packard Corp. Tooth spacer for non-slip differential gearing. 2,873,622, 2-17-59, Cl. 74-711.
- Nash, Floyd M., to Jacuzzi Bros., Inc. Air charger assembly for pressure tanks. 2,881,782, 4-14-59, Cl. 137-211.
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- Nash, J. Frank, to Eli Lilly and Co. Hydroxybenzoyl benzoate salt of  $\beta$ -( $\alpha$ -chlorophenyl)- $\beta$ -hydroxyethyl isopropylamine. 2,887,509, 5-19-59, Cl. 260-501.
- Nash, J. M., Co.: *See*—  
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- Nash, J. M., Co., Inc.: *See*—  
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- Nash, James R.: *See*—  
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- Nash, Richard L., to Chicago Pneumatic Tool Co. Rotary compressor control. 2,894,677, 7-14-59, Cl. 230-3.
- Nash, Thomas E., and E. E. Hoffmann, to Radio Corp. of America. Tri color kinescope aging conveyor carrier. 2,917,357, 12-15-59, Cl. 316-27.
- Nash, Thomas L.: *See*—  
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- Nash, William H.: *See*—  
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- Nashed, Wilson, to Johnson & Johnson. Stabilized aqueous suspension of salicylamide. 2,904,469, 9-15-59, Cl. 167-65.
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- Nasser, John : See—
- Norland, Robert E., and Nasser. 2,903,379.
- Nassor, Edward S. : See—
- Arditi, Maurice, and Nassor. 2,890,424.
- Nassour, Edward, and C. F. Joers, to Nassour Studios, Inc. Camera. 2,887,938, 5-26-59, Cl. 95-53.
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- Nastasi, Salvatore J., and D. A. Quattrociochi. Cutting shears of the pull type. 2,897,591, 8-4-59, Cl. 30-253.
- Naster, Bert K. Ballasts for gaseous discharge lamps. 2,885,597, 5-5-59, Cl. 315-138.
- Naster, Bert K. Electromagnetic voltage regulator. 2,886,767, 5-12-59, Cl. 323-45.
- Natalis, Herbert E., to Radio Corp. of America. Getter structure. 2,869,014, 1-13-59, Cl. 313-181.
- Nathan, Alan H., and J. A. Hogg, to The Upjohn Co. Alkali metal enolates of 20-keto-21 (trifluoroacetyl) steroids. 2,884,429, 4-28-59, Cl. 260-397.4.
- Nathan, Arlene : See—
- Cohen, Meyer. 2,885,134.
- Nathan, Arthur D. : See—
- Carlson, Bernard E., and Nathan. 2,870,764.
- Nathan, Emanuel. Fold over spectacle case. 2,912,101, 11-10-59, Cl. 206-6.
- Nathan, Joseph D. Apparel hanger spacer. 2,895,618, 7-21-59, Cl. 211-123.
- Nathan, Marvin F., to The M. W. Kellogg Co. Fluid platinum system. 2,899,284, 8-11-59, Cl. 23-288.
- Nathan, Marvin F., to The M. W. Kellogg Co. Recovery of catalyst fines entrained in the reaction effluent and regeneration effluent gases from a hydrocarbon conversion process. 2,918,424, 12-22-59, Cl. 208-140.
- Nathan Mfg. Corp. : See—
- Swanson, Robert E. 2,884,892.
- Nathanson, Max. Radiant heating device. 2,891,136, 6-16-59, Cl. 219-34.
- Nather, Roy E., to United States of America, Atomic Energy Commission. High speed pulse counting circuits. 2,882,443, 4-14-59, Cl. 315-8.5.
- Natho, Paul J., to Pan American Petroleum Corp. Safety valve with mechanical and hydraulic operator. 2,885,172, 5-5-59, Cl. 251-14.
- Natho, Paul J., to ACF Industries, Inc. Seat and seal. 2,886,283, 5-12-59, Cl. 251-175.
- Natho, Paul J., to Pan American Petroleum Corp. Pressure relay apparatus. 2,910,088, 10-27-59, Cl. 137-596.1.
- National Acme Co., The : See—
- Powell, David R. 2,909,087.
- National Airoil Burner Co., Inc. : See—
- Ferguson, William. 2,918,966.
- National Aluminate Corp. : See—
- Anderson, Donald R., and Watson. 2,890,946.
- Boies, David B., and Nordsell. 2,904,415.
- Bollenback, Carol H., and Johnson. 2,875,210.
- Braithwaite, David G. 2,905,534.
- Bregman, Jacob I. 2,911,378.
- Brown, Chester A., and Winchell. 2,903,090.
- Burke, John T., Jr. 2,901,439.
- Chamot, Walter M., and Ferrara. 2,914,417.
- Cocks, Thomas G. 2,867,279.
- Cruikshank, George A. 2,878,155.
- Gibboney, James L., Brown, and Krueger. 2,872,196.
- Green, Jerome. 2,888,400.
- Hoover, Charles O. 2,889,195.
- Johnson, Carl E. 2,874,074.
- Johnson, Carl E. 2,875,156.
- Johnson, Carl E., and Thompson. 2,908,624.
- Kent, Eugene A., and Sacco. 2,901,370.
- Ryznar, John W. 2,870,000.
- Ryznar, John W. 2,877,716.
- Ryznar, John W. 2,896,375.
- National Aluminum Products Co. : See—
- Helt, Herbert M. 2,870,996.
- National Asphalt Grave Vault Co., The : See—
- Sheene, William E., Sr. 2,911,703.
- National Automatic Tool Co., Inc. : See—
- Norman, Richard M., and Powell. 2,878,648.
- Norman, Richard M., Powell, and Sherer. 2,896,257.
- National Bank of Detroit : See—
- Place, Charles E. S. 2,895,368.
- National Biscuit Co. : See—
- Griner, Arthur J. 2,868,141.
- Griner, Arthur J. 2,887,964.
- Kruger, Otto, and Strattmann. 2,915,024.
- National Broach & Machine Co. : See—
- Anthony, Russel W. 2,877,658.
- Anthony, Russel W. 2,893,744.
- Rassoff, Arthur B. 2,904,938.
- Bregi, Benjamin F. 2,886,990.
- Bregi, Benjamin F., and Pohlmeier. 2,882,798.
- National Broach & Machine Co. : See—Continued
- Gates, Thomas S. 2,905,320.
- Gates, Thomas S. 2,909,831.
- Gates, Thomas S., Bassoff, and Davis. 2,873,652.
- Gates, Thomas S., and Williams. 2,906,177.
- McNabb, Warren C. 2,887,015.
- McNabb, Warren C., and Anthony. 2,916,971.
- Motz, Carl H. 2,872,198.
- Pernack, Frank. 2,898,670.
- Praeg, Walter S. 2,905,062.
- Praeg, Walter S. 2,917,973.
- Praeg, Walter S., and Bassoff. 2,887,014.
- Praeg, Walter S., and Sigman. 2,913,858.
- National Cash Register Co., The : See—
- Angel, Arthur M., and Fisher. 2,877,012.
- Angel, Arthur M., and Mangan. 2,916,624.
- Austen, Herman E. 2,877,540.
- Austen, Herman E. 2,878,463.
- Burns, Cecil H., Jr., and Mendelson. 2,900,132.
- Burns, John H., Ditmer, and Weeks. 2,878,872.
- Desch, Joseph R. 2,871,408.
- Donan, John F., and Daugherty. 2,902,214.
- Edwards, Walter G. 2,874,902.
- Eichel, Herman J. 2,907,682.
- Emerson, Marvin R., and Hoover. 2,885,602.
- Gerdemann, Elmer A. 2,896,713.
- Goodbar, Mayo A., Pratt, and Bacher. 2,889,769.
- Harbor, William H. 2,868,446.
- Howes, Royal E. 2,900,533.
- Hull, Roger S. 2,878,431.
- Jackson, John M., Zurbuchen, Flint, Coleman, and Werner. 2,911,141.
- Jones, Dan H., and Stone. 2,900,625.
- Kikta, Edward J. 2,879,492.
- Marshall, Temple G., Jr. 2,885,564.
- Paquin, Leon J. 2,902,399.
- Rose, Clifford A. 2,885,603.
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- Schoen, Seymour. 2,900,215.
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- Sonnastine, Edgar H., Jr. 2,905,244.
- Spurlino, Pascal, Hull, and Rupel. 2,868,912.
- Trimble, Cebern B. 2,877,015.
- Weiss, Eric. 2,888,200.
- Werner, Frank R., Flint, and Sterzer. 2,880,930.
- Werner, Frank R., Flint, and Sterzer. 2,899,893.
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- Werner, Frank R., Randall, and Flint. 2,915,969.
- National City Bank of Cleveland : See—
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- National Clay Pipe Manufacturers, Inc. : See—
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- National Cleveland Corp. : See—
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- National Co., Inc. : See—
- Grant, Eugene F. 2,883,540.
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- Arenson, Simon W., and Baldauski. 2,874,050.
- Clauss, Robert W. 2,908,219.
- Kline, Leo, and Singleton. 2,881,077.
- Kraft, George H., Grossen, and Bell. 2,869,868.
- Nessler, Aldo E., and Hartman. 2,911,719.
- Rimes, Clyde E. 2,880,995.
- Smith, Augustus B., Roberts, Wagner, and Stine. 2,871,126.
- Spies, Newton E., Jr., and Hollis. 2,908,575.
- Spies, Newton E., Jr., and Zenk. 2,893,609.
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- National Distillers and Chemical Corp. : See—
- Birchall, William R., and Watson. 2,894,788.
- Coleman, Robert H., and Toth. 2,913,118.
- Frank, Charles E., and Greenberg. 2,880,196.
- Frank, Charles E., and Greenberg. 2,902,461.
- Greenberg, Harry, and Horst. 2,902,462.
- Greenberg, Harry, and Lubowitz. 2,894,982.
- Hansley, Virgil L., Greenberg, and Schott. 2,916,351.
- Hansley, Virgil L., and Schott. 2,915,564.
- Horvitz, David, and Cerwonka. 2,916,426.
- Hulse, Robert E. 2,916,374.
- Johnston, Christian W., and Meara. 2,902,463.
- La Roe, Earl G. 2,912,363.
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- Lum, David W., and Mador. 2,917,545.
- Mador, Irving L., and Robinson. 2,915,562.
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- Nobis, John F., and Moormeier. 2,881,209.
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- National Equipment Corp.: *See—*  
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- National Malleable and Steel Castings Co.: *See—*  
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 Shafer, James A. 2,889,784.  
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- National Mine Service Co.: *See—*  
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- National Paper Can & Tube Co.: *See—*  
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- National Petro-Chemicals Corp.: *See—*  
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- National Research Corp.: *See—*  
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- National Research Council: *See—*  
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National Starch and Chemical Corp.: *See*—

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National Starch Products Inc.: *See*—

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Buff, Bern F. 2,891,320.

## Nations, Carl T., to National Electronics Distributors, Inc.

Automatic photo printing machine. 2,896,505, 7-28-59, Cl. 83-24.

Natke, Edmund R. Article merchandiser. 2,917,354, 12-15-59, Cl. 312-71.

Natland, Manley L. Side wall punch core orienter gun perforator type. 2,873,949, 2-17-59, Cl. 255-1.4.

Natoli, Lucille C. Masking ruler. 2,892,437, 6-30-59, Cl. 116-119.

Natt, Michael P., to The Norwich Pharmacal Co. Method of combatting helminthiasis using nitro-furyl-acrylate derivatives. 2,890,982, 6-16-59, Cl. 167-55.

Natta, Giulio, P. Pino, and G. Mazzanti, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for the polymerization of certain unsaturated hydrocarbons using iron-based polymerization agents. 2,882,263, 4-14-59, Cl. 260-93.7.

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Natural Lighting Corp.: *See*—

Howarth, David V. 2,894,693.

Naugler, Walter E., to United Shoe Machinery Corp. Cement handling mechanism. 2,879,921, 3-31-59, Cl. 222-131.

Naujokat, Gustav, to Firma Wilhelm Schroeder. Lock for bicycles and the like. 2,869,352, 1-20-59, Cl. 70-227.

Naujoks, Elfriede: *See*—

Dithmar, Karl, and Naujoks. 2,909,404.

Naulty, Howard W., and M. N. Brown, to United States of America, Navy. Inert gas system for fuel tank. 2,889,955, 6-9-59, Cl. 220-88.

Naumann, Helmut, to Voigtlander, A.G. Locking means for the back wall of roll film cameras. 2,903,952, 9-15-59, Cl. 95-31.

Naumann, Helmut, and A. W. Tronnier, to Voigtlander Aktiengesellschaft. Exchangeable objectives for photographic cameras. 2,906,185, 9-29-59, Cl. 95-44.

Naumann, Willy R., to Daimler-Benz Akt. Method of forming grooves on a shaft. 2,869,295, 1-20-59, Cl. 51-289.

Nauta, Cornelis, and M. van Tol, to North American Philips Co., Inc. Device for the selection of electric pulses according to their heights. 2,881,352, 4-7-59, Cl. 315-8.5.

Nauta, Johannes E. Device for working material in at least two conical vessels. 2,893,709, 7-7-59, Cl. 259-64.

Navari, Julius C. Peeling and grating apparatus. 2,886,082, 5-12-59, Cl. 146-3.

Navarro, Eugene M. Lock mechanism. 2,890,582, 6-16-59, Cl. 70-421.

Navelle, Ward J., N. de Vries, and E. F. Becher. Reclining chair. 2,880,784, 4-7-59, Cl. 155-106.

Navigation Computer Corp.: *See*—

Jones, John P., Jr. 2,878,440.

Jones, John P., Jr. 2,897,378.

Jones, John P., Jr. 2,906,892.

Navikas, Victor A., to Armstrong Cork Co. Container with label adhesively adhered thereto. 2,880,898, 4-7-59, Cl. 215-1.

Navratil, Miroslav, and M. Prochazka. Device for calibrating indicators of torsional oscillations during rotation. 2,871,693, 2-3-59, Cl. 73-1.

Nawman, Rollie B., to Benner-Nawman, Inc. Nesting tray construction. 2,878,959, 3-24-59, Cl. 220-97.

Nawman, Rollie B., to Benner-Nawman, Inc. Telephone booth door hanger construction. 2,889,572, 6-9-59, Cl. 16-89.

Nawojski, Julius. Mercury circuit breaker. 2,886,662, 5-12-59, Cl. 200-32.

Naxon, Irving. Heating units for electric frying pans and the like. 2,880,301, 3-31-59, Cl. 219-43.

Naxon, Irving. Push button controls for washing machines, clothes driers and other motorized equipment. 2,888,986, 6-2-59, Cl. 161-1.

Naybor, E. Vincent. Pressure transducer. 2,912,863, 11-17-59, Cl. 73-398.

Nayfack, Jules S. Dental appliance. 2,899,746, 8-18-59, Cl. 32-40.

Naylor, Alexander L.: *See*—

Hanson, James S., and Naylor. 2,915,776.

Naylor, Arthur: *See*—

Hamilton, Andrew, and Naylor. 2,919,371.

Naylor Brothers Ltd.: *See*—

Naylor, William. 2,903,123.

Naylor, Joseph F.: *See*—

Northmore, Raymond, and Naylor. 2,871,332.

Naylor, Joseph F., to Vicars, T. & T., Ltd. Treatment of edible plastic material. 2,869,483, 1-20-59, Cl. 107-12.

Naylor, Joseph F., to T. & T. Vicars Ltd. Bakers' and the like ovens. 2,908,234, 10-13-59, Cl. 107-55.

Naylor, Joseph F., and R. L. Large, to T. & T. Vicars Ltd. Apparatus for conveying sheets of fragile material. 2,870,898, 1-27-59, Cl. 198-20.

Naylor, Joseph F., and J. Eaton, to T. & T. Vicars Ltd. Bakers' and the like ovens. 2,903,235, 10-13-59, Cl. 107-63.

Naylor, Ralph A., and W. B. Hardy. Light stabilized polyvinyl chloride compositions. 2,919,259, 12-29-59, Cl. 260-45.95.

Naylor, Thomas K.: *See*—

Young, Frink M., and Naylor. 2,907,878.

Naylor, William, to Naylor Brothers Ltd. Conveyors. 2,903,123, 9-8-59, Cl. 198-191.

Nazewski, Mathew, to Sprague Electric Co. Electrolytic capacitor endseal. 2,907,933, 10-6-59, Cl. 317-230.

Neal, Jesse R., Jr.: *See*—

Hoopes, Harry P., Weber, and Neal. 2,904,444.

Neal, Richard B.: *See*—

La Forge, Louis H., Jr., Neal, and Whitehurst. 2,898,273.



- Neal, Robert A., to Westinghouse Electric Corp. Arrangement for plural temperature response. 2,875,613, 3-3-59, Cl. 73-341.
- Neale, Charles E.: *See*—  
Wood, George H., Jr., Neale, and Hawes. 2,878,096.
- Neale, David J.: *See*—  
Francis, Frederick G., and Neale. 2,915,415.
- Neale, Denis M., to Ilford Ltd. Electronic tone-masking system for use in the production of colour prints. 2,905,755, 9-22-59, Cl. 178-5-4.
- Nealy, Claude H. Torque indicating wrench adapter. 2,877,645, 3-17-59, Cl. 73-139.
- Nearby Advertising Agency Inc.: *See*—  
Nearby, Lawrence E. 2,884,127.
- Nearby, Joseph P.: *See*—  
Lauicus, Joseph F., and Nearby. 2,882,119.
- Nearby, Lawrence E., to Nearby Advertising Agency Inc. Display article of merchandise. 2,884,127, 4-28-59, Cl. 206-80.
- Nease Chemical Co., Inc.: *See*—  
Mosher, William A., and Braun. 2,883,423.
- Neaverson, Rowland A. Load hoisting apparatus for vehicles. 2,873,869, 2-17-59, Cl. 214-77.
- Nebel, Paul M. F. H.: *See*—  
Buddeberg, Walter, and Nebel. 2,899,342.
- Nebel, Paul W., to Minneapolis-Honeywell Regulator Co. Potentiometer. 2,896,183, 7-21-59, Cl. 338-91.
- Nebergall, William H., to Indiana University Foundation. Dentifrice preparations. 2,876,166, 3-3-59, Cl. 167-93.
- Nebergall, William H., to Indiana University Foundation. Dissanousmonochlorotrifluoride and dentifrice compositions therewith. 2,882,204, 4-14-59, Cl. 167-93.
- Nebhuth, Karl-Heinz: *See*—  
Wirth, Thomas, Nebhuth, and Wenger. 2,872,045.
- Nebinger, Richard B., to Knapp-Monarch Co. Method and device for pressure filling aerosol dispensers. 2,881,576, 4-14-59, Cl. 53-88.
- Nebinger, Richard B., and I. Pass, to Knapp-Monarch Co. Time and speed control for mixing device. 2,912,633, 11-10-59, Cl. 318-268.
- Necchi Sewing Machine Sales Corp.: *See*—  
Perrinquet, Roger. 2,874,014.
- Nece, Roger H.: *See*—  
Boyer, Ralph K., and Nece. 2,907,341.
- Nectoux, Henri, to Societe des Forges et Ateliers du Creusot. Feeder device for the automatic loading of guns. 2,905,056, 9-22-59, Cl. 89-33.
- Nedderman, Wendell H., to Gulf Oil Corp. Pile salvage ring. 2,871,667, 2-3-59, Cl. 61-80.
- Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek: *See*—  
Le Poole, Jan B. 2,908,816.
- Van Dorsser, Arend H. de H., and van Hoek. 2,897,130.
- Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek Ten Behoeve Van Nijverheid Handel en Verkeer: *See*—  
Herman, Wilhelm, and van Rooyen. 2,886,853.
- Van Lamoen, Franciscus L. J., and Borsten. 2,892,669.
- Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van de Rijksverdediging (National Defense Research Council T. N. O., The): *See*—  
Bouman, Maarten A. 2,916,963.
- Nedley, Alva L., to General Motors Corp. Choke flow intake silencer and method. 2,882,881, 4-21-59, Cl. 123-119.
- Nedow, Ben. Fishing tool. 2,908,332, 10-13-59, Cl. 166-99.
- Nee, David S., to Smith-Corona Marchant Inc. Square root extracting circuit arrangements. 2,912,162, 11-10-59, Cl. 235-158.
- Needham, Hal S.: *See*—  
Lewis, Dan, Jr., and Needham. 2,885,074.
- Needham, James C., to E. R. A. Patents Ltd. Electric arc welding systems. 2,873,402, 2-10-59, Cl. 314-135.
- Needham, James C., W. G. Hull, and P. T. Houldcroft, to E. R. A. Patents Ltd. Electric arc welding systems. 2,867,743, 1-6-59, Cl. 314-75.
- Needham Mfg. Co., Inc.: *See*—  
Way, David G. 2,885,843.
- Needle Industries Ltd.: *See*—  
Sanders, Norman T. 2,872,892.
- Sanders, Norman T. 2,887,858.
- Sanders, Norman T. 2,918,035.
- Neeff, Rütger, to Farbenfabriken Bayer Akt. Certain substituted bis-anthraquinonyl bibenzothiazole and bibenzoxazole dyes and process. 2,868,799, 1-13-59, Cl. 260-303.
- Neeff, Rütger, and H. W. Schwechten, to Farbenfabriken Bayer Akt. Production of vat dyestuffs. 2,885,410, 5-5-59, Cl. 260-368.
- Neel, Robert M., to Olin Mathieson Chemical Corp. Method of making a sheet metal article. 2,906,006, 9-29-59, Cl. 29-157.3.
- Neely, Albert E., to Dupli-Color Products Co., Inc. Fountain applicator. 2,866,994, 1-6-59, Cl. 15-139.
- Neely, Clarence L. Garment bag. 2,874,827, 2-24-59, Cl. 206-7.
- Neely, Eugene M., to William M. Bailey Co. Goggle valve structures. 2,884,959, 5-5-59, Cl. 138-94.3.
- Neely, George L. Kinetic oiliness testing machine. 2,909,056, 10-20-59, Cl. 73-10.
- Neely, George L., to California Research Corp. Spark arrester for multicylinder engines. 2,911,066, 11-3-59, Cl. 183-80.
- Neely, William H., to The Universal Wire Spring Co. Wire spring structure. 2,879,834, 3-31-59, Cl. 155-179.
- Neely, William H., and J. Oswald, to The Universal Wire Spring Co. Fabric trim connecting means. 2,876,826, 3-10-59, Cl. 155-180.
- Neer, Clifford H., to Maryland Engineering Co. Method and apparatus for casing merchandise. 2,869,297, 1-20-59, Cl. 53-26.
- Neer, William, to Jewell Tea Co. Inc. Catalogue order card binder. 2,878,813, 3-24-59, Cl. 129-1.
- Nees, Hugo: *See*—  
Geiersberger, Karl, and Nees. 2,913,329.
- Neesse, Gerhard, to Durkoppwerke Akt. Roller bearing cage. 2,881,036, 4-7-59, Cl. 308-217.
- Neesley, John D., to Standard Oil Co. Coal spray composition. 2,913,349, 11-17-59, Cl. 106-278.
- Neff, Gene M., to John Oster Mfg. Co. Hand held sanding and abrading machine. 2,885,833, 5-12-59, Cl. 51-170.
- Neff, Glyn A.: *See*—  
Sink, Robert L., and Neff. 2,891,237.
- Neff, Glyn A., to Consolidated Electrodynamics Corp. Electron beam deflection multivibrator circuits. 2,874,283, 2-17-59, Cl. 250-27.
- Neff, Glyn A., to Consolidated Electrodynamics Corp. Register for digital information. 2,892,182, 6-23-59, Cl. 340-173.
- Neff, Glyn A., to Consolidated Electrodynamics Corp. Information storage system. 2,904,776, 9-15-59, Cl. 340-174.
- Neff, Hans, to Siemens-Reiniger-Werke Akt. X-ray diffraction system. 2,870,337, 1-20-59, Cl. 250-53.
- Neff, Loren L., to Union Oil Co. of California. Antitrust composition. 2,914,478, 11-24-59, Cl. 252-46.6.
- Neff, Margaret P.: *See*—  
Neff, Paul J., Christy, Marsh, and McIntyre. 2,886,144.
- Neff, Paul J., L. R. Christy, H. S. Marsh, and D. McIntyre, to said L. R. Christy, trustee. Auxiliary retarding device for disconnected roller bearing equipped railroad cars. 2,886,143, 5-12-59, Cl. 188-153.
- Neff, Paul J., deceased; L. R. Christy, H. S. Marsh, D. McIntyre, M. P. Neff, and Mercantile Trust Co., executors; said L. R. Christy, trustee. Speed regulating devices for use on railroad cars. 2,886,144, 5-12-59, Cl. 188-153.
- Neff, Robert J. Electronic locator. 2,908,863, 10-13-59, Cl. 324-67.
- Neff, Ted. Adjustable box wrench. 2,912,891, 11-17-59, Cl. 81-167.
- Neff, Wallace. Improved method of erecting shell-form concrete structures. 2,892,239, 6-30-59, Cl. 25-154.
- Neff, Wilber L. Jig for boring finger holes in bowling balls. 2,879,679, 3-31-59, Cl. 77-63.
- Neff, Wilber L. Device for determining the position of finger holes in bowling balls. 2,910,780, 11-3-59, Cl. 33-174.
- Neff, William H. Lawn planting machine. 2,876,013, 3-3-59, Cl. 275-2.
- Negoro, Kaiji, to Rockford Factories, Inc. Storm door vent and automatic closure therefor. 2,871,523, 2-3-59, Cl. 20-16.
- Negri, Franco, to Ing. C. Olivetti & C., S. p. A. Random signal generator. 2,872,514, 2-3-59, Cl. 178-22.
- Neher, Clarence M., and H. E. O'Connell, to Ethyl Corp. Oil scrubber. 2,868,852, 1-13-59, Cl. 260-660.
- Neher, Clarence M., and H. E. O'Connell, to Ethyl Corp. Acid scrubber. 2,868,853, 1-13-59, Cl. 260-660.
- Neher, Clarence M., and H. E. O'Connell, to Ethyl Corp. Ethyl chloride manufacture. 2,905,727, 9-22-59, Cl. 260-662.
- Neher, Eldon P., to The General Tire and Rubber Co. Steering knuckle mounting. 2,871,025, 1-27-59, Cl. 280-96.2.
- Neher, Eldon P., to The General Tire & Rubber Co. Vibration damping shock absorbing support. 2,881,995, 4-14-59, Cl. 248-15.
- Neher, Eldon P., to The General Tire and Rubber Co. Resilient mounting support. 2,883,132, 4-21-59, Cl. 248-26.
- Neher, Eldon P., and W. G. Myers, to The General Tire and Rubber Co. Machine for assembling resilient bushings and the like. 2,895,215, 7-21-59, Cl. 29-235.
- Neher, Eldon P., and H. J. Peppercorn, to The General Tire & Rubber Co. Vibration isolator mounting. 2,903,228, 9-8-59, Cl. 248-358.
- Neher, Harry T., E. H. Specht, and E. J. Kelley, to Rohm & Haas Co. Preparation of thiolacrylic esters. 2,888,480, 5-26-59, Cl. 260-455.
- Neher, Herbert J. Apparatus for lifting stacks of bricks and the like. 2,871,052, 1-27-59, Cl. 294-63.
- Neher, Maynard B., to The Battelle Development Corp. Mechanical apparatus for testing flexible and pliable material. 2,917,921, 12-22-59, Cl. 73-100.
- Neher, Robert: *See*—  
Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,904,545.
- Neher, Robert, to Ciba Pharmaceutical Products Inc. Manufacture of new polythiureas. 2,868,834, 1-13-59, Cl. 260-506.
- Nehila, Emil J., Jr.: *See*—  
Warzybok, Julius T., and Nehila. 2,896,524.
- Nehls, Charles H., to Wayne Metalcraft Co. Locking cover. 2,880,604, 4-7-59, Cl. 70-169.
- Nehls, Charles H., to Wayne Metalcraft Co. Locking closure. 2,880,605, 4-7-59, Cl. 70-169.



- Nehls, Charles H. Locking cap and improved gasket therefor. 2,880,903, 4-7-59, Cl. 220-46.
- Nehring, Frederick L. Paper dispensers. 2,872,264, 2-3-59, Cl. 312-39.
- Neid, Louis J., deceased; by P. E. Neid, executrix. Bird trap. 2,897,627, 8-4-59, Cl. 43-65.
- Neid, Pauline E.: See—  
Neid, Louis J. 2,897,627.
- Neidhardt, Hans U., to H. A. Schlatter Aktiengesellschaft. Arrangement for controlling a transistor circuit. 2,903,608, 9-8-59, Cl. 307-88.5.
- Neidhardt, Rudolf: See—  
Stuibler, Walter, and Neidhardt. 2,905,296.
- Neidhardt, Rudolf, to Triumph Werke Nurnberg A.G. Margin stop arrangement. 2,878,871, 3-24-59, Cl. 164-112.
- Neidhardt, Rudolf, to Triumph Werke Nurnberg Aktiengesellschaft. Carriage return control arrangement. 2,897,943, 8-4-59, Cl. 197-66.
- Neidig, Dan, to Superior Mfg. Co. Vending machine. 2,914,215, 11-24-59, Cl. 221-20.
- Neighly, Francis M., Sr. Percussion drills. 2,876,995, 3-10-59, Cl. 255-63.
- Neikirk, Marvin W., and P. B. Crabtree. Cultivator sweep. 2,918,132, 12-22-59, Cl. 172-736.
- Neiland, Ivor C.: See—  
Welden, Artie L. 2,885,296.
- Neill, James, & Co. (Sheffield) Ltd.: See—  
Bower, William L. 2,915,682.
- Neill, John: See—  
Schufftan, Paul M., and Neill. 2,915,880.
- Neill, Oswald S., to The de Havilland Aircraft of Canada Ltd. Method and apparatus for finding faults in a plurality of conductors. 2,892,153, 6-23-59, Cl. 324-73.
- Neilsen, Hilda L. Pencil-serving memorandum pad-holder. 2,907,584, 10-6-59, Cl. 281-15.
- Neilsen, Peter C. Tire buffing machine with tire inflating means and peripheral gaging means. 2,888,065, 5-26-59, Cl. 157-13.
- Neilson, Alan C.: See—  
Hogberg, Ake O. and Neilson. 2,869,625.
- Neilson, Laurie, and R. E. Stevens. Earth mover and dumper. 2,871,586, 2-3-59, Cl. 37-132.
- Neilson, Swen W.: See—  
Smidl, John M., Neilson, and Neilson. 2,869,336.
- Neiman, Abram, and P. Lipschutz; said Lipschutz assor. to said Neiman. Anti-theft device. 2,868,007, 1-13-59, Cl. 70-252.
- Neiman, Paul E.: See—  
Stewart, Joseph, Knoth, and Neiman. 2,891,895.
- Neiner, Warren L. Fluid operated cylinder. 2,915,043, 12-1-59, Cl. 121-38.
- Neipert, Marshall P.: See—  
Blue, Robert D., and Neipert. 2,887,443.
- Neipert, Marshall P., and C. K. Bon, to The Dow Chemical Co. Recovery of mercury. 2,885,282, 5-5-59, Cl. 75-121.
- Neipert, Marshall P., R. D. Blue, and H. E. Houser, to The Dow Chemical Co. Mercury cathode chlorine cell. 2,898,284, 8-4-59, Cl. 204-219.
- Neipert, Marshall P., and R. D. Blue, to The Dow Chemical Co. Production of titanium metal. 2,913,332, 11-17-59, Cl. 75-84.4.
- Neish, Richard A., to United States Steel Corp. Process for producing core-plated electrical steel strip. 2,909,454, 10-20-59, Cl. 148-6.2.
- Neisler Brothers, Inc.: See—  
Jackson, Howard B., and Jolly. 2,911,782.
- Neisler, Charles E., Jr., and Mauney. 2,872,690.
- Neisler, Charles E., Jr., and Mauney. 2,912,033.
- Neisler, Charles E., Jr., and P. Mauney, to Neisler Bros., Inc. Inflatable device of predetermined surface contour and method of making same. 2,872,690, 2-10-59, Cl. 5-349.
- Neisler, Charles E., Jr., and P. Mauney, to Neisler Brothers, Inc. Inflatable device of predetermined surface contour and method of making same. 2,912,033, 11-10-59, Cl. 152-9.
- Neiss, Richard A. Seal tester for pressurized containers. 2,915,895, 12-8-59, Cl. 73-40.
- Neiswinter, James T. Electrical signalling apparatus. 2,904,624, 9-15-59, Cl. 178-4.1.
- Neitlich, Irving M., to Cue Fastener, Inc. Molding apparatus for making small plastic articles. 2,891,282, 6-23-59, Cl. 18-30.
- Neitzert, Carl, to General Time Corp. Magnetic pulse counting and forming circuits. 2,897,380, 7-28-59, Cl. 307-106.
- Neitzert, Carl, to Bell Telephone Laboratories, Inc. Magnetic pulse modulator. 2,919,414, 12-29-59, Cl. 331-87.
- Nekola, Joseph F., to Sperry Rand Corp. Servo system and variable gain amplifier therefor. 2,887,637, 5-19-59, Cl. 318-31.
- Nelken, Harvey H., to The Babcock & Wilcox Co. Vapor generating and superheating unit with vapor temperature controls. 2,876,748, 3-10-59, Cl. 122-240.
- Nellis, Urban P.: See—  
Ralph, Herman S., Nellis, and Pearson. 2,886,213.
- Nelsen, Nieman C., to Nesbitt Fruit Products. Measuring liquid dispenser. 2,887,252, 5-19-59, Cl. 222-181.
- Nelsen, Silas E., and C. J. Mentzer. Concrete form. 2,892,237, 6-30-59, Cl. 25-131.5.
- Nelson, Adolph. Propulsion arrangement on multi wing aircraft. 2,896,882, 7-28-59, Cl. 244-55.
- Nelson, Albert J.: See—  
Nelson, Henry H. and A. J. 2,886,884.
- Nelson, Alden W., to The Standard Machinery Co. Reel payout device of the tension-controlled type. 2,879,011, 3-24-59, Cl. 242-156.2.
- Nelson, Alden W., to Standard Machinery Division of Franklin Research Corp. Reel-winding apparatus. 2,913,191, 11-17-59, Cl. 242-25.
- Nelson, Alfred R.: See—  
Jankowiak, Erwin M., and Nelson. 2,906,719.
- Nelson, Anlaug B. Self-closing funnel for bottles, jars and the like. 2,868,246, 1-13-59, Cl. 141-286.
- Nelson, Anne K. Vehicle display device. 2,884,217, 4-28-59, Cl. 248-226.
- Nelson, Antonio. Adjustable bath brush. 2,901,760, 9-1-59, Cl. 15-160.
- Nelson, Averd G., to Preway Inc. Built in oven. 2,918,916, 12-29-59, Cl. 126-21.
- Nelson, Brooks E.: See—  
Peterson, Ruben O., and Nelson. 2,866,989.
- Nelson, Brooks E., to The Osborn Mfg. Co. Brush strip construction. 2,871,496, 2-3-59, Cl. 15-182.
- Nelson, Carl J. Corn picker roller. 2,905,181, 9-22-59, Cl. 130-5.
- Nelson, Cecil H.: See—  
McNally, Harold E. 2,901,593.
- Nelson, Charles V. and N. E., H. E. Erickson, and H. Hellenkamp, Jr.; said C. V. and N. E. Nelson assors. to D. L. Shubert, said Erickson and said Hellenkamp assors. to Industrial Development Co. Sheet separating and transfer apparatus. 2,914,321, 11-24-59, Cl. 271-5.
- Nelson, Clifford J. Means for dispensing the contents of collapsible tubes. 2,873,888, 2-17-59, Cl. 222-99.
- Nelson, Corless B.: See—  
Markestein, John, and Nelson. 2,880,681.
- Smidl, John M., Nelson, and Neilson. 2,869,336.
- Nelson, Corless B., to General Motors Corp. Centering and locking means. 2,903,267, 9-8-59, Cl. 279-66.
- Nelson, Corless B., and J. M. Smidl, to General Motors Corp. Refrigerating apparatus having cold air jacket. 2,882,701, 4-21-59, Cl. 62-405.
- Nelson, David V. Hanger. 2,909,355, 10-20-59, Cl. 248-317.
- Nelson, De Witte, to Swift & Co. Synthetic butterfat and process of making same. 2,892,721, 6-30-59, Cl. 99-118.
- Nelson, Delbert L., 30% to R. E. Meech. Traction device for vehicle tires. 2,900,003, 8-18-59, Cl. 152-225.
- Nelson, Earl. Mechanical hay fork. 2,908,526, 10-13-59, Cl. 294-107.
- Nelson, Emil A. Rolling mill. 2,911,864, 11-10-59, Cl. 80-16.
- Nelson, Ernest W., to Continental Oil Co. Grinding composition vehicle. 2,889,215, 6-2-59, Cl. 51-304.
- Nelson, Florian N. Process for the growing and rooting of plants in a synthetic soil. 2,891,355, 6-23-59, Cl. 47-58.
- Nelson, Floyd E. Load carrying vehicles and bodies therefor. 2,867,339, 1-6-59, Cl. 214-517.
- Nelson, Floyd E. Containers and elevating and dumping apparatus therefor for load-carrying vehicles. 2,877,910, 3-17-59, Cl. 214-302.
- Nelson, Forrest A., to Varian Associates. Decoupling means for electrical circuits. 2,908,858, 10-13-59, Cl. 324-5.
- Nelson, Forrest A., and M. E. Packard, to Varian Associates. Gyromagnetic resonance process analysis and control. 2,888,638, 5-26-59, Cl. 324-5.
- Nelson, Franklin C., and G. W. Fiero, to Esso Research and Engineering Co. Pesticidal petroleum composition and use thereof. 2,898,263, 8-4-59, Cl. 167-28.
- Nelson, Frederick. Ventilated wheel brake. 2,903,099, 9-8-59, Cl. 188-75.
- Nelson, Frederick E. Stationary awnings. 2,885,747, 5-12-59, Cl. 20-57.5.
- Nelson, Frederick E. Interlocking guide for panel awnings. 2,891,616, 6-23-59, Cl. 160-222.
- Nelson, Frederick E. Secondary incinerator. 2,906,368, 9-29-59, Cl. 183-6.
- Nelson, Frederick F.  $\frac{1}{2}$  to R. D. Grant. Self-adjusting orchard ladder. 2,885,133, 5-5-59, Cl. 228-63.
- Nelson, Frederick G., to Dorr-Oliver Inc. Combined flotation and clarification device. 2,881,923, 4-14-59, Cl. 210-525.
- Nelson, Gilbert. Duct joining tool. 2,882,768, 4-21-59, Cl. 81-5.1.
- Nelson, Gilbert E.: See—  
Edmonson, Glenn V. 2,878,645.
- Nelson, Glenn J. Air duct for motor vehicles. 2,882,809, 4-21-59, Cl. 98-2.
- Nelson, Gordon A.: See—  
Nichols, George E., Nelson, Casey, and Hogan. 2,909,129.
- Nelson, Gorman R. Torque measuring device. 2,885,884, 5-12-59, Cl. 73-1.
- Nelson, Gorman R. Predetermined-torque-applying wrench with thrust operated torsion bar. 2,895,359, 7-21-59, Cl. 81-52.3.
- Nelson, Harrison A., to The Upjohn Co. Recovery of ergosterol. 2,874,171, 2-17-59, Cl. 260-397.25.
- Nelson, Harrison A., C. M. Large, M. E. Bergy, and H. Hoeksema, to The Upjohn Co. Erythromycin recovery process. 2,894,943, 7-14-59, Cl. 260-210.
- Nelson, Harrison A., and C. M. Large, to The Upjohn Co. Acid purification of fumagillin. 2,898,268, 8-4-59, Cl. 167-65.



- Nelson, Harry: *See*—  
Macy, Donald, and Nelson. 2,880,795.
- Nelson, Harry, to Arterraft Venetian Blind Mfg. Co. Roll-up awning. 2,894,572, 7-14-59, Cl. 160-62.
- Nelson, Harry N.: *See*—  
Hirsch, Richard A., Mansfield, and Nelson. 2,882,975.
- Nelson, Henry H. and A. J. Drive key extractor. 2,886,884, 5-19-59, Cl. 29-250.
- Nelson, Herbert: *See*—  
Ehmann, Leslie G., and Nelson. 2,872,716.
- Nelson, Herbert, and A. Moore, to Radio Corp. of America. Semiconductor surface treatments and devices made thereby. 2,897,377, 7-28-59, Cl. 307-88.5.
- Nelson, Hubert: *See*—  
Harrison, Floyd O., and Nelson. 2,917,852.
- Nelson, Ira I. Waste interceptor. 2,879,894, 3-31-59, Cl. 210-187.
- Nelson, James K., to Westinghouse Electric Corp. Ice maker. 2,891,385, 6-23-59, Cl. 62-137.
- Nelson, Jerry A., to E. I. du Pont de Nemours and Co. Pepsitization process for polyurethanes. 2,917,471, 12-15-59, Cl. 260-2.3.
- Nelson, Jerry A., and J. J. Verbanc, to E. I. du Pont de Nemours & Co. Stable intermediate reaction products. 2,917,486, 12-15-59, Cl. 260-45.9.
- Nelson, Jess R.: *See*—  
Carlson, Harry A. 2,918,066.
- Nelson, John A.: *See*—  
Baker, Donald R., Nelson, and Storer. 2,867,016.
- Nelson, John A., to Continental Copper & Steel Industries, Inc. (Braeburn Alloy Steel Division). High temperature alloy. 2,908,565, 10-13-59, Cl. 75-125.
- Nelson, John A., Jr., and W. K. Vollmer, to Union Carbide Corp. Process of surface treating polyethylene structures and resultant article. 2,879,177, 3-24-59, Cl. 117-76.
- Nelson, John B. Dispensing holder for paper containers of milk or other liquids. 2,875,933, 3-3-59, Cl. 224-45.
- Nelson, John D.: *See*—  
Pearson, Donald L., and Nelson. 2,870,586.
- Nelson, John E., to The International Paper Box Machine Co. Machine and method for spot treating foldable sheets. 2,871,772, 2-3-59, Cl. 93-36.
- Nelson, John F., to United States Steel Corp. Nail machine whisker separator. 2,875,894, 3-3-59, Cl. 209-86.
- Nelson, John F., S. D. Warner, and R. G. Whitney, to United States Steel Corp. Apparatus for gathering and suspending tied bundles of wire or the like in aligned groups. 2,869,738, 1-20-59, Cl. 214-8.
- Nelson, John F., S. D. Warner, and R. G. Whitney, to United States Steel Corp. Rotary bundle rack. 2,918,177, 12-22-59, Cl. 211-163.
- Nelson, John H., to Kropp Forge Co. Method of and apparatus for electric finishing of metal articles. 2,885,529, 5-5-59, Cl. 219-69.
- Nelson, John S. Permanent mold and method for making cast chain link. 2,871,535, 2-3-59, Cl. 22-216.
- Nelson, John W., and J. A. Verdol, to Sinclair Refining Co. Lubricating oil thickened to a grease with an anhydrous calcium soap of an alkenyl substituted succinic acid. 2,868,729, 1-13-59, Cl. 252-39.
- Nelson, John W., and M. P. Kleinholz, to Sinclair Refining Co. Calcium base grease containing a nickel, lead or lithium salt of a dialkyl dithiophosphoric acid diester. 2,899,388, 8-11-59, Cl. 252-032.7.
- Nelson, John W., to Sinclair Refining Co. Tinning oil composition and method of using same. 2,886,465, 5-12-59, Cl. 117-64.
- Nelson, Joseph F.: *See*—  
Banes, Fred W., Nelson, and Leary. 2,894,937.
- Fitzgerald, William P., and Nelson. 2,906,726.
- Nelson, Joseph F., F. P. Ford, and A. W. Hubbard, to Esso Research and Engineering Co. Desulfurization of fluid coke with hydrogen above 2400° F. 2,872,384, 2-3-59, Cl. 202-31.
- Nelson, Joseph F., and J. F. McKay, to Esso Research and Engineering Co. Chlorinated cyclohexene acid and process of making it. 2,876,256, 3-3-59, Cl. 260-514.
- Nelson, Karl E., and H. Thurnauer, to American Lava Corp. Barium titanate insulators. 2,908,579, 10-13-59, Cl. 106-39.
- Nelson, Kenneth W., to Rada Products Co. Hollow support structures having hidden connecting means. 2,904,379, 9-15-59, Cl. 311-114.
- Nelson, Kurt B. Clutch and connector for orthopedic appliance. 2,889,160, 6-2-59, Cl. 287-14.
- Nelson, L. R., Mfg. Co., Inc.: *See*—  
Knight, James O. 2,877,028.
- Nelson, Lawrence M.: *See*—  
Harris, Clare W., and Nelson. 2,867,242.
- Nelson, Lawrence U. Display device. 2,892,276, 6-30-59, Cl. 40-124.1.
- Nelson, Lewen R. Trigger type nozzle. 2,883,117, 4-21-59, Cl. 239-459.
- Nelson, Marcellus. Collators for folded sheets. 2,883,185, 4-21-59, Cl. 270-55.
- Nelson, Maurice E.: *See*—  
Gile, William C., and Nelson. 2,881,023.
- Nelson, Max C., to United States of America, Navy. Housing for signaling apparatus. 2,892,075, 6-23-59, Cl. 240-11.2.
- Nelson, Melvin C., and P. S. Hess, to Congoleum-Nairn Inc. Surface covering product and process therefor. 2,894,566, 7-14-59, Cl. 154-25.
- Nelson, Miles E., to United States of America, Army. Stylus for recording electrical impulses on carbon coated paper. 2,867,491, 1-6-59, Cl. 346-74.
- Nelson, Morris D., to Radio Corp. of America. Regulated high voltage supplies. 2,905,857, 9-22-59, Cl. 315-27.
- Nelson, Nels A., to Esso Research and Engineering Co. Process for preparing lubricating greases. 2,888,402, 5-26-59, Cl. 252-36.
- Nelson, Noral A., and W. A. Wathen. Drive mechanism for bale tiers. 2,879,709, 3-31-59, Cl. 100-4.
- Nelson, Noral A., W. A. Wathen, and H. G. Thompson, to Massey-Ferguson, Inc. Plunger safety stop for balers. 2,882,813, 4-21-59, Cl. 100-19.
- Nelson, Norman A., and J. W. Gibbs, said Nelson assor, to Jersey Production Research Co. Pressure operated packer. 2,880,805, 4-7-59, Cl. 166-120.
- Nelson, Norman A., and G. E. Barrow, to Jersey Production Research Co. Device for testing tubing. 2,902,094, 9-1-59, Cl. 166-103.
- Nelson, Norman E.: *See*—  
Nelson, Charles V. and N. E., Erickson, and Hellenkamp. 2,914,321.
- Nelson, Orval E., 1/4 to D. R. Lang. Valve construction. 2,876,790, 3-10-59, Cl. 137-238.
- Nelson, Ottis M. Rack support for holding doors while jointing. 2,868,053, 5-26-59, Cl. 144-296.
- Nemeth, Otto R., to Digitac, Inc. Indexing apparatus. 2,884,792, 5-5-59, Cl. 74-111.
- Nelson, Paul C., to O'Neil-Irwin Mfg. Co. Power driven tools. 2,875,733, 3-3-59, Cl. 121-38.
- Nelson, Paul C., to O'Neil-Irwin Mfg. Co. Hand operated press with selectively operated force applying means. 2,875,808, 3-3-59, Cl. 153-21.
- Nelson, Paul H., to The Stanley Works. Telescoping tracks for a sliding door. 2,912,713, 11-17-59, Cl. 16-95.
- Nelson, Permil N., to L. H. Ewing. Eccentrically mounted float ball inlet valve operating mechanism for flush toilets. 2,895,499, 7-21-59, Cl. 137-425.
- Nelson, Permil N., to L. H. Ewing. Anchorage device for flexible line. 2,905,995, 9-29-59, Cl. 24-131.
- Nelson, Raymond M. Photo geometry models. 2,917,835, 12-22-59, Cl. 35-8.
- Nelson, Richard B., and R. S. Symons, to Varian Associates. High frequency apparatus. 2,895,110, 7-14-59, Cl. 333-24.
- Nelson-Ricks Creamery Co.: *See*—  
Manwaring, David H. 2,868,651.
- Nelson, Roy F.: *See*—  
McKinley, John K., Nelson, and Bright. 2,894,970.
- Nelson, Roy F., to Texaco Inc. Manufacture of sodium base grease. 2,916,453, 12-8-59, Cl. 252-41.
- Nelson, Seddon C., to American Viscose Corp. Pulse dampening feed hose. 2,871,884, 2-3-59, Cl. 138-30.
- Nelson, Seddon C., and H. K. Steinfeld, to American Viscose Corp. Drying roll. 2,870,546, 1-27-59, Cl. 34-124.
- Nelson, Stanley E.: *See*—  
Dhonau, Herman B. C., and Nelson. 2,870,956.
- Nelson, Theodore J.: *See*—  
Polson, Olien, and Nelson. 2,890,501.
- Nelson, Thomas S. Planter. 2,881,939, 4-14-59, Cl. 217-12.
- Nelson, Victor A., and T. Rogers. Dispenser for liquids. 2,873,892, 2-17-59, Cl. 222-309.
- Nelson, Walter D. Continuous flow type hydraulic power steering mechanism. 2,915,044, 12-1-59, Cl. 121-41.
- Nelson, Walter K. Adjustable beds for burial caskets. 2,883,732, 6-2-59, Cl. 27-12.
- Nelson, Walter K. Sealer strips. 2,910,209, 10-27-59, Cl. 220-46.
- Nelson, Wayne F., to Larkin Packer Co., Inc. Well packers. 2,873,805, 2-17-59, Cl. 166-140.
- Nelson, Willis N., and C. J. Pavlak, to Preway, Inc. Bake and broil unit. 2,883,978, 4-28-59, Cl. 126-39.
- Nelsson, Nels, to United States Gypsum Co. Snap-in clip for metal studs. 2,903,753, 9-15-59, Cl. 20-4.
- Nelsson, Nels, to United States Gypsum Co. Runners for nonload-bearing partitions. 2,909,251, 10-20-59, Cl. 189-34.
- Nemec, Joseph W.: *See*—  
McKeever, Charles H., and Nemec. 2,917,553.
- Nemec, Joseph W., and C. H. McKeever, to Rohm & Haas Co. Preparation of 1,1-dichloro-2,2-diphenylethanes. 2,883,428, 4-21-59, Cl. 260-613.
- Nemecsek, Louis J., to Ralph B. Carter Co. Ejector pots. 2,899,908, 8-18-59, Cl. 103-243.
- Nemet, Anthony A., to North American Phillips Co., Inc. Radiation detector. 2,899,560, 8-11-59, Cl. 250-71.
- Nemoede, Frederick: *See*—  
Monoogan, Charles A. 2,898,205.
- Něnička, Zdeněk, and J. Polak, to Závody Jiffo Dimitrova, národní podnik. Suspension bearing arrangement for turbo sets in hydraulic power plants. 2,906,570, 9-29-59, Cl. 308-76.
- Nentwig, Joachim: *See*—  
Schnell, Hermann, Nentwig, Hintzmann, Raichle, and Biedermann. 2,917,463.
- Nenzell, Joseph F., to Rohr Aircraft Corp. Sealed riveted joint. 2,884,099, 4-28-59, Cl. 189-36.
- Nenzell, Joseph F., to Parker-Hannifin Corp. Adjustable, lockable male threaded fitting and seal therefor. 2,919,147, 12-29-59, Cl. 285-89.



- Neou, In-Meei. Mechanical integrator. 2,889,626, 6-9-59, Cl. 33-1.
- Neptune, Campbell A., Jr.: *See*—  
Sullivan, Harold R., and Neptune. 2,908,050.
- Neptune Meter Co.: *See*—  
Hazard, Charles S. 2,872,155.  
Hazard, Charles S., and Coles. 2,904,251.
- Neracher, Carl A., W. T. Dunn, T. Iavelli, A. J. Syrovoy, and O. W. Schotz, to Chrysler Corp. Power transmission. 2,916,929, 12-15-59, Cl. 74-368.
- Neracher, Carl A., W. T. Dunn, T. Iavelli, A. J. Syrovoy, and O. W. Schotz, to Chrysler Corp. Power transmission. 2,916,933, 12-15-59, Cl. 74-472.
- Neracher, Carl A., W. T. Dunn, A. J. Syrovoy, and O. W. Schotz, to Chrysler Corp. Power transmission. 2,916,936, 12-15-59, Cl. 74-472.
- Neracher, Carl A., W. T. Dunn, T. Iavelli, A. J. Syrovoy, and O. W. Schotz, to Chrysler Corp. Power transmission. 2,916,938, 12-15-59, Cl. 74-472.
- Neracher, Carl A., W. T. Dunn, T. Iavelli, A. J. Syrovoy, and O. W. Schotz, to Chrysler Corp. Power transmission. 2,916,939, 12-15-59, Cl. 74-472.
- Neracher, Carl A., W. T. Dunn, T. Iavelli, A. J. Syrovoy, and O. W. Schotz, to Chrysler Corp. Power transmission. 2,916,940, 12-15-59, Cl. 74-472.
- Neracher, Carl A., and W. T. Dunn, to Chrysler Corp. Power transmission. 2,916,941, 12-15-59, Cl. 74-472.
- Neracher, Carl A., and W. T. Dunn, to Chrysler Corp. Over-drive transmission. 2,916,942, 12-15-59, Cl. 74-472.
- Neracher, Carl A., and W. T. Dunn, to Chrysler Corp. Power transmission. 2,916,943, 12-15-59, Cl. 74-472.
- Neracher, Carl A., W. T. Dunn, T. Iavelli, and A. J. Syrovoy, to Chrysler Corp. Power transmission. 2,917,141, 12-15-59, Cl. 192-92.
- Nerad, Anthony J.: *See*—  
Klint, Robert V., and Nerad. 2,913,221.
- Nerad, Anthony J., to General Electric Co. Burner assembly. 2,869,629, 1-20-59, Cl. 158-73.
- Nerad, Anthony J., and K. H. Johnson, to General Electric Co. Combustion chamber. 2,867,267, 1-6-59, Cl. 158-1.
- Nerad, Anthony J., and D. T. Hurd, to General Electric Co. Fuel compositions. 2,894,830, 7-14-59, Cl. 52-5.
- Nerenberg, Robert W.: *See*—  
Bergstein, Frank D., Kleingers, and Nerenberg. 2,891,453.  
Bergstein, Frank D., and Nerenberg. 2,879,933.
- Nergaard, Arnold, to Clayton Mark & Co. Valve for water softening. 2,897,891, 8-4-59, Cl. 161-7.
- Nergaard, Arnold, to Clayton Mark & Co. Valve for water softeners. 2,897,968, 8-4-59, Cl. 210-278.
- Nerheim, Arvie G., to Standard Oil Co. Distillation flask and mounting. 2,892,759, 6-30-59, Cl. 202-235.
- Neri, Armand A. Arrowheads. 2,909,372, 10-20-59, Cl. 273-106.5.
- Nero, Leroy W.: *See*—  
Schlesinger, Kurt, and Nero. 2,880,359.
- Nerwin, Henry N., Jr., to United States of America, Army. Rotary stepping cam. 2,876,868, 3-10-59, Cl. 188-85.
- Nerwin, Hubert: *See*—  
Smith, Clarence E., Nerwin, and Moore. 2,902,913.
- Nerwin, Hubert, to United States of America, Army. Photographic camera. 2,900,887, 8-25-59, Cl. 95-44.
- Nerwin, Hubert, and D. C. Harvey, to Eastman Kodak Co. Transparency mounting device. 2,869,748, 1-20-59, Cl. 216-22.
- Nesbitt, Clifford W., to Modine Mfg. Co. Ignition carry-over for gas burners. 2,875,820, 3-3-59, Cl. 158-115.
- Nesbitt Fruit Products: *See*—  
Nelsen, Nieman C. 2,887,252.
- Nesbitt, John J., Inc.: *See*—  
McElgin, John W. 2,869,832.
- Nesh, Florence. Preparation of replica specimens for examination under electron microscope. 2,875,341, 2-24-59, Cl. 250-49.5.
- Nesler, John J., and R. E. Hull, to Gillilan Bros., Inc. Abnormal voltage protection circuit. 2,914,704, 11-24-59, Cl. 317-51.
- Ness, Odvar A., and K. N. Lambert, to Sprague Electric Co. Molded capacitors. 2,869,052, 1-13-59, Cl. 317-230.
- Ness, Walter H.: *See*—  
Tice, Leroy E., and Ness. 2,915,712.
- Nesset, Maurice M., to Baxter Laboratories, Inc. Needle hub seal. 2,893,389, 7-7-59, Cl. 128-214.
- Neseth, Clifford A. Bale conveyor. 2,869,708, 1-20-59, Cl. 198-158.
- Neseth, Clifford A. Bale conveyor. 2,885,098, 5-5-59, Cl. 214-95.
- Nesslein, Floyd F. and R. J. Holding device for disposable containers. 2,871,051, 1-27-59, Cl. 294-31.
- Nesslein, Robert J.: *See*—  
Nesslein, Floyd F. and R. J. 2,871,051.
- Nessler, Aldo E., and J. G. Hartman, to National Dairy Products Corp. Cheesemaking apparatus. 2,911,719, 11-10-59, Cl. 31-22.
- Nessler, Thomas G., to United States of America, Navy. Airborne store ejector bolt. 2,883,910, 4-28-59, Cl. 89-1.5.
- Nessler, Thomas G., to United States of America, Navy. Explosive powered bomb release unit. 2,912,902, 11-17-59, Cl. 89-1.5.
- Nesson, Israel, to M. Zaiger. Telescoping wiper arm. 2,871,043, 1-27-59, Cl. 287-58.
- Nesson, Israel, to M. Zaiger. Coupling for windshield wiper arms. 2,913,266, 11-17-59, Cl. 287-53.
- Nestier Corp.: *See*—  
Doepke, Charles W., and Aston. 2,872,058.  
Doepke, Charles W., and Aston. 2,899,107.
- Nestle, Alfred C., to The Texas Co. Determination of fluid movement in bore holes. 2,868,506, 1-13-59, Cl. 255-1.8.
- Nestlerode, Clifford D., and D. C. Felt, to Allen B. Du Mont Laboratories, Inc. Television tuner. 2,911,530, 11-3-59, Cl. 250-40.
- Nestor, Donald E.: *See*—  
Curtis, Joseph M., Jr., and Nestor. 2,897,707.
- Nestor, Ontario H., to Union Carbide Corp. Gas shielded arc cleaning. 2,906,857, 9-29-59, Cl. 219-121.
- Nestorovic, Miroslav N. Internal combustion engine. 2,917,031, 12-15-59, Cl. 123-32.
- Nesty, Glenn A., and E. W. Pietrusza, to Allied Chemical Corp. Rubber-like copolymers and processes for their production. 2,899,409, 8-11-59, Cl. 260-75.
- Netherton, Lyman R., and J. G. Baker. Fish lure. 2,878,611, 3-24-59, Cl. 43-42.06.
- Netherton, Lyman R., and J. G. Baker. Fish lure. 2,878,612, 3-24-59, Cl. 43-42.31.
- Netherwood, Paul H.: *See*—  
Rice, Livingston L., Lamphier, and Netherwood. 2,870,385.
- Robinson, Preston, and Netherwood. 2,904,618.  
Robinson, Preston, and Netherwood. 2,904,733.
- Nettles, Forrest T., and A. Campbell, Jr. Thickness gauge. 2,892,150, 6-23-59, Cl. 324-37.
- Nettleton, David L., to Radio Corp. of America. Memory systems. 2,891,238, 6-16-59, Cl. 340-174.
- Nettleton, David L., to Radio Corp. of America. Parity generator. 2,894,684, 7-14-59, Cl. 235-92.
- Networks Electronic Corp.: *See*—  
Patrichi, Mihai D. 2,897,583.  
Patrichi, Mihai D. 2,898,570.
- Netzer, Henry, to Westinghouse Electric Corp. Encapsulated induction heating coil structure. 2,888,541, 5-26-59, Cl. 219-10.41.
- Neu, Willi, to Main Alloy Co. Establishment (Mace). Zinc-aluminum alloys and the method for producing same. 2,870,008, 1-20-59, Cl. 75-141.
- Neubauer, Emil T., to The Trane Co. Reciprocating compressor apparatus. 2,869,775, 1-20-59, Cl. 230-206.
- Neubauer, Frank A., to Teleflex Inc. Flexible cable. 2,875,597, 3-3-59, Cl. 64-2.
- Neuberger, Franklin H. Fasteners. 2,884,674, 5-5-59, Cl. 24-129.
- Neuberger, Roger B.: *See*—  
Birkland, Stellan, and Neuberger. 2,881,891.
- Neubert, Max K.: *See*—  
Richter, Willy, and Neubert. 2,868,211.  
Richter, Willy K., and Neubert. 2,911,980.
- Neubner, Rolf, and F. Langehenke; said Langehenke assor. to Neubner. Process for the production of melamine. 2,913,461, 11-17-59, Cl. 260-249.7.
- Neubrech, David A., and M. A. Cattaro, to Henry A. Gardner Laboratory, Inc. High sensitivity exposure head. 2,871,370, 1-27-59, Cl. 250-220.
- Neufeld, Leonard C., to The Delman Co. Windshield wiper motor control device. 2,869,164, 1-20-59, Cl. 15-250.4.
- Neufeld, Leonard C., to The Delman Co. Control device for windshield clearing system. 2,876,483, 3-10-59, Cl. 15-250.4.
- Neufville, Jean M. M., and J. E. Trotter. Generator system for supplying auxiliary power on board ship. 2,911,541, 11-3-59, Cl. 290-4.
- Neugass, Edwin A. Illuminated writing panel. 2,917,838, 12-22-59, Cl. 35-66.
- Neugass, Edwin A. Instrument lighting. 2,918,034, 12-22-59, Cl. 116-129.
- Neugebauer, Gerhardt C. Loose gem merchandising display device. 2,874,828, 2-24-59, Cl. 206-45.15.
- Neugebauer, Gerhart H., 1/2 to P. O. Tobler, d. b. a., Trans-Oceanic. Measuring closure for container. 2,872,082, 2-3-59, Cl. 222-249.
- Neuhart, David S. Liner for cargo spacer. 2,900,926, 8-25-59, Cl. 105-423.
- Neuhaus, Elmer C.: *See*—  
Krause, William F., and Neuhaus. 2,894,557.
- Neuhaus, Gustav. Flow divider. 2,911,989, 11-10-59, Cl. 137-82.
- Neuhaus, Jean, J. Kemeny, and B. Ranky; said Neuhaus assor. to Thermofrigor, societate anonyne. Apparatus for vibrating liquids. 2,919,215, 12-29-59, Cl. 134-1.
- Neuhaus, Theodore A.: *See*—  
Tulk, George H., Jr., and Neuhaus. 2,907,669.
- Neuhauser, Martin W., to Pittsburgh Plate Glass Co. Glass tempering apparatus. 2,876,593, 3-10-59, Cl. 49-45.
- Neuhauser, Robert G., to Radio Corp. of America. Television pickup tube circuit arrangements. 2,901,661, 8-25-59, Cl. 315-11.
- Neukirch, Frank: *See*—  
Neukirch, Johannes. 2,883,882.
- Neukirch, Johannes, 1/2 to F. Neukirch. Variable speed transmission. 2,883,882, 4-28-59, Cl. 74-679.
- Neukom, Hans, to International Minerals & Chemical Corp. Phosphate-modified starches and preparation. 2,884,412, 4-28-59, Cl. 260-233.5.



- Neukomm, Frederic : *See*—  
Neukomm, Walter. 2,870,894.
- Neukomm, Walter, to F. Neucomm. Workpiece holding or journalling member for machine tools. 2,870,894, 1-27-59, Cl. 193-1.
- Neumann, Arthur E.,  $\frac{1}{2}$  to F. Scoby. Furnace. 2,910,021, 10-27-59, Cl. 110-18.
- Neumann, Arthur E.,  $\frac{1}{2}$  to F. Scoby. Relay. 2,914,632, 11-24-59, Cl. 200-87.
- Neumann, Erich. Snap lock for portable typewriter cases or like receptacles. 2,869,282, 1-20-59, Cl. 45-68.2.
- Neumann, Erich. Noiseless escapement mechanism for type-writing machines. 2,913,091, 11-17-59, Cl. 197-82.
- Neumann, Erich. Casing for typewriting and like machines. 2,913,095, 11-17-59, Cl. 197-186.
- Neumann, Ernest P., and F. Lustwerk, to Rheem Mfg. Co. Jet pump. 2,888,191, 5-26-59, Cl. 230-111.
- Neumann, Gerhard, to General Electric Co. Lightweight rotor construction. 2,873,088, 2-10-59, Cl. 253-77.
- Neumann, Günther, and A. Kottler, to Dr. Karl Thomae, G.m.b.H. Aerosol antiperspirant composition preparation. 2,872,379, 2-3-59, Cl. 167-90.
- Neumann, Helmut : *See*—  
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- Neumann, Horst, P. Viehmann, and H. H. Hübner, to Chas. Pfizer & Co., Inc. Stable solutions of oxytetracycline salts. 2,909,466, 10-20-59, Cl. 167-65.
- Neumann, Karl L. : *See*—  
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- Neumann-Lezius, Hans, to Brunsiga Maschinenwerke Aktiengesellschaft. Clutch devices for controlling calculating machine functions. 2,915,244, 12-1-59, Cl. 235-62.
- Neumann, Otto A. : *See*—  
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- Neumann, Robert P. : *See*—  
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- Neumann, Temple W. : *See*—  
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- Neumann, Walter : *See*—  
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- Neumann, Wilhelm, to C. F. Roser G.m.b.H. Process of and apparatus for the manufacture of paper-like materials from thermoplastic synthetic materials. 2,891,279, 6-23-59, Cl. 18-10.
- Neumeier, Karl E. : *See*—  
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- Neumeyer, Martin J., to Sunbeam Corp. Endothermic gas generator. 2,873,173, 2-10-59, Cl. 23-281.
- Neunzig, Richard C. : *See*—  
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- Neureuther, George C., to Hiram Walker & Sons, Inc. Processes for producing distilled potable alcoholic liquors. 2,868,645, 1-13-59, Cl. 99-34.
- Neureuther, George C., to Hiram Walker & Sons, Inc. Process for producing alcoholic beverage of controlled congenier content. 2,880,091, 3-31-59, Cl. 99-34.
- Neureuther, George C., to Hiram Walker & Sons, Inc. Process for producing whisky. 2,880,143, 3-31-59, Cl. 202-39.5.
- Neutronic Development Corp. : *See*—  
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- Neuville, Louis P. F. A. : *See*—  
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- Neuworth, Joseph A., and R. H. Wearing. Signalling device for automotive vehicles. 2,868,916, 1-13-59, Cl. 200-80.
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- Jones, Donald C., and Neuworth. 2,910,507.
- Jones, Donald C., and Neuworth. 2,914,569.
- Neuworth, Martin B., and D. C. and B. W. Jones, to Consolidated Coal Co. Purification of cresylic acids. 2,881,221, 4-7-59, Cl. 260-621.
- Neuworth, Martin B., J. C. Paterson, and R. P. Tarbox, to Consolidation Coal Co. Purification of aryl disulfides. 2,904,595, 9-15-59, Cl. 260-608.
- Nevers, Ashley D., and E. M. Fettes; said Nevers assor, to Pennsalt Chemical Corp., and said Fetter assor, to Thiokol Chemical Corp. Fuel gas composition containing odorant. 2,869,994, 1-20-59, Cl. 48-195.
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- Neville, Della M. : *See*—  
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- Neville, Don O. Chemical applicator for use with internal combustion engines. 2,896,855, 7-28-59, Cl. 239-129.
- Neville, James T. and D. M. Electric lock mechanism. 2,909,711, 10-20-59, Cl. 317-134.
- Neville, Orear K., to United States of America, Atomic Energy Commission. Recovery of uranium by cycloalkyldithiocarbamate complexing. 2,892,855, 6-30-59, Cl. 260-429.1.
- Neville, Orear K., to United States of America, Atomic Energy Commission. Recovery of uranium by aromatic dithiocarbamate complexing. 2,899,451, 8-11-59, Cl. 260-429.1.
- Neville, Orear K., to United States of America, Atomic Energy Commission. Recovery of uranium by secondary xanthate complexing. 2,902,503, 9-1-59, Cl. 260-429.1.
- Neville, Orear K., and B. F. Scott, to Nuclear-Chicago Corp. Radioactivity processing device. 2,910,588, 10-27-59, Cl. 250-44.
- Neville, Sidney, and T. Owen, to Metropolitan-Vickers Electrical Co. Ltd. Bolt-tensioning devices. 2,899,853, 8-18-59, Cl. 81-53.
- Nevins, Glenn D. Carpenter's tool chest. 2,895,600, 7-21-59, Cl. 206-16.
- Nevius, Searle G., to Telecomputing Corp. Electronic digitizing device. 2,901,663, 8-25-59, Cl. 315-12.
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- Newberry, Sterling P., to General Electric Co. X-ray microscope. 2,877,353, 3-10-59, Cl. 250-49.5.
- Newbold, William F., to Minneapolis-Honeywell Regulator Co. Electrical rate of flow measuring apparatus. 2,882,727, 4-21-59, Cl. 73-231.
- Newbold, William F., to Minneapolis-Honeywell Regulator Co. Electrical measuring apparatus. 2,883,621, 4-21-59, Cl. 324-111.
- Newbold, William F., to Minneapolis-Honeywell Regulator Co. Electrical control apparatus. 2,915,628, 12-1-59, Cl. 250-27.
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- Newchurch, Edwin J., and E. A. McCracken, to Esso Research and Engineering Co. Combination deasphalting, coking, and catalytic cracking process. 2,901,413, 8-25-59, Cl. 208-55.
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- Newcomb, Delmar C., to International Business Machines Corp. Record controlled machine. 2,906,400, 9-29-59, Cl. 209-110.
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- Broughton, Arthur E. 2,884,203.
- Newcomb, Duane H. Air under pressure distributor. 2,880,747, 4-7-59, Cl. 137-223.
- Newcomb, Harley M., to Wade Electric Products Co. Switch. 2,894,089, 7-7-59, Cl. 200-61.54.
- Newcomb, Leroy, to The Youngstown Sheet and Tube Co. Drawworks brake system. 2,882,098, 4-14-59, Cl. 303-6.
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- Newcombe, Jack, and W. S. Fallgatter, to Cities Service Research and Development Co. Acidizing wells. 2,894,908, 7-14-59, Cl. 252-8.55.
- Newcomer, Garfield H., and L. M. Showers, to The Pennsylvania Railroad Co. Longitudinally shiftable bulkheads for freight cars. 2,894,462, 7-14-59, Cl. 105-369.
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- Newcomer, Jacob R., Jr., to Camloc Fastener Corp. Receptacle for stressed panel fastener. 2,878,543, 3-24-59, Cl. 24-221.
- Newcomer, Jacob R., Jr., and E. Griffiths, to Camloc Fastener Corp. Concealed latch for medicine cabinets. 2,879,123, 3-24-59, Cl. 312-209.
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- Newell, Earl L., and P. H. Wells, to The Western Union Telegraph Co. Method for charging submersible chambers. 2,902,803, 9-8-59, Cl. 53-37.
- Newell, Earl L., P. H. Wells, and C. H. Cramer, to The Western Union Telegraph Co. Submersible chamber. 2,903,500, 9-8-59, Cl. 174-12.
- Newell, Elwin C., to Link-Belt Co. Apparatus for removing solids from a flowing stream of liquid. 2,901,113, 8-25-59, Cl. 210-158.
- Newell, Frank M., to Newell Mfg. Co. Door closer. 2,880,450, 4-7-59, Cl. 16-70.
- Newell, Fred D. Frozen food container vender. 2,874,873, 2-24-59, Cl. 221-203.
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- Newell, George K., to Westinghouse Air Brake Co. Wayside car door actuator. 2,909,294, 10-20-59, Cl. 214-63.
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- Newell, Kenneth F., to Package Machinery Co. Web supply means. 2,879,063, 3-24-59, Cl. 271-23.
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- Newell, W. J., and T. W. Lewis, to Waterproofing Materials, Inc. Cementitious structural material. 2,901,368, 8-25-59, Cl. 106-95.
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- Newell, William H., to Sperry Rand Corp. Ford Instrument Co. Division. Flight analyzer. 2,895,670, 7-21-59, Cl. 235-61.
- Newell, William H., E. G. Burgess, Jr., N. J. Zabb, and S. I. Frangoulis, to Sperry Rand Corp. Device for predicting values of a fluctuating system at a predetermined future time. 2,888,195, 5-26-59, Cl. 235-61.
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- Newell, William H., G. A. Crowther, and L. S. Brown, to Sperry Rand Corp. Trunnion tilt corrector. 2,902,212, 9-1-59, Cl. 235-61.5.
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- Newey, Herbert A., to Shell Development Co. Amide containing copolymers and their preparation. 2,912,416, 11-10-59, Cl. 260-80.5.
- Newey, William H., and W. S. Sterling, to Pneumatic Scale Corp., Ltd. Closure applying apparatus. 2,899,790, 8-18-59, Cl. 53-321.
- Newey, William H., and W. S. Sterling, to Pneumatic Scale Corp., Ltd. Filling machine. 2,905,363, 9-22-59, Cl. 222-70.
- Newhard, Nelson J., Jr., and J. H. Thirsk, to Amchem Products, Inc. Method of deoxidizing an aluminum surface. 2,867,514, 1-6-59, Cl. 41-42.
- Newhard, Nelson J., Jr., and D. Y. Dollman, Amchem Products, Inc. Method of coating a succession of aluminum surfaces. 2,909,455, 10-20-59, Cl. 148-6.16.
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- Newhouse, Donald R., to T. W. & C. B. Sheridan Co. Collator control. 2,892,627, 6-30-59, Cl. 270-55.
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- Newhouse, Vernon L., to Radio Corp. of America. Magnetic core counter circuits. 2,900,626, 8-18-59, Cl. 340-174.
- Newhouse, Walter F. Mechanical means for the making of wirebound box and crate mats. 2,898,595, 8-11-59, Cl. 1-146.
- Newill, William J., to General Motors Corp. Windshield washer nozzle assembly. 2,898,036, 8-4-59, Cl. 239-110.
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- Newkirk, Frank E.,  $\frac{1}{10}$  to Gadget-Of-The-Month Club, Inc. Live bait holder and hook device. 2,881,550, 4-14-59, Cl. 43-44.6.
- Newkirk, Frank E.,  $\frac{1}{10}$  to Gadget-Of-The-Month Club, Inc. Penknife clipper. 2,885,779, 5-12-59, Cl. 30-162.
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- Newman, Charles H. Automatic coffee maker. 2,903,163, 9-8-59, Cl. 222-129.4.
- Newman, Charles H., to Ekco Products Co. Beverage dispensing device. 2,905,074, 9-22-59, Cl. 99-295.
- Newman, David,  $\frac{1}{2}$  to M. Herman. Automobile antenna. 2,896,010, 7-21-59, Cl. 174-153.
- Newman, David W.: *See*—  
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- Newman, Douglas A., and A. T. Schlottzhauer, to Columbia Ribbon & Carbon Mfg. Co., Inc. Transfer element and method of making the same. 2,872,340, 2-3-59, Cl. 117-36.
- Newman, Douglas A., H. W. Boylan, A. T. Schlottzhauer, and S. J. Smatlak, to Columbia Ribbon and Carbon Mfg. Co., Inc. Hectograph duplicating. 2,872,863, 2-10-59, Cl. 101-149.4.
- Newman, Douglas A., and H. F. E. Dixon, to Columbia Ribbon & Carbon Mfg. Co., Inc. Pressure-sensitive transfer element for placing smudge-resistant marks. 2,912,344, 11-10-59, Cl. 117-36.
- Newman, Edward A., and D. O. Clayden, to National Research Development Corp. Electrical signal storage apparatus. 2,881,411, 4-7-59, Cl. 340-174.
- Newman, Edward A., D. W. Davies, and D. O. Clayden, to National Research Development Corp. Programmed control means for data transfer apparatus. 2,891,723, 6-23-59, Cl. 235-152.
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- Newman, Jay J., to Radio Corp. of America. Magnetic recording. 2,890,288, 6-9-59, Cl. 179-100.2.
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- Newman, Louis: *See*—  
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- Newman, Melvin S., to The Ohio State University Research Foundation. Vinylen carbonate and methods of preparing it. 2,918,478, 12-22-59, Cl. 260-340.2.
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- Newman, Stanley R., R. Y. Heisler, K. L. Dille, and N. Alpert, to The Texas Co. Motor lubricating oil composition. 2,879,230, 3-24-59, Cl. 252-51.5.
- Newman, Stanley R., and R. Y. Heisler, to Texaco Inc. Motor fuel compositions. 2,897,070, 7-28-59, Cl. 44-63.
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- Newnam, Ivan E., to Mallory-Sharon Metals Corp. Method of producing hafnium-free "crystal-bar" zirconium from a crude source of zirconium. 2,885,281, 5-5-59, Cl. 75-84.4.
- Newnam, Ivan E., to Mallory-Sharon Metals Corp. Method of purifying zirconium tetrahalide. 2,916,350, 12-8-59, Cl. 23-18.
- Newport News Shipbuilding and Dry Dock Co.: *See*—  
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## New York, Chicago and St. Louis Railroad Co., The: See—

Schey, Robert, and James. 2,873,692.

## New York Heart Association, Inc.: See—

Maisel, Bernard. 2,897,029.

## New York Shipbuilding Corp.: See—

Hornshy, John W., Letherbury, and Willis. 2,892,314.

## New York Wire Cloth Co.: See—

Smith, Jesse C. 2,888,070.

## Ney, Edward P.: See—

Huch, William F., Ney, and Winckler. 2,900,147.

Ney, Edward P., R. B. Thorness, and J. R. Winckler, to United States of America, Navy. Tension component measuring means. 2,872,808, 2-10-59, Cl. 73—144.

## Ney, William O., Jr.: See—

Barnes, Carl E., Ney, and Nummy. 2,891,038.

Ng, Clifford G. Chair or the like object, and support therefor. 2,890,744, 6-16-59, Cl. 155—191.

## Niagara Blower Co.: See—

Stutz, Robert C. 2,890,864.

## Niagara Instrument Corp.: See—

Stoll, Ralph K., and Christensen. 2,885,950.

## Niagara Machine and Tool Works: See—

Munschauer, Frederick E. 2,884,108.

Munschauer, Frederick E. 2,905,290.

Munschauer, Frederick E., Jr. 2,878,909.

Munschauer, Frederick E., Jr. 2,881,880.

## Nial, Walter R., to General Electric Co. Supersonic airfoil.

2,916,230, 12-8-59, Cl. 244—15.

## Niantic Co. Inc.: See—

Humphreysville, Byron T. 2,886,896.

## Niblack, Robert L.: See—

Rogers, Alan B., Kline, and Niblack. 2,910,370.

Niblett, Oswald D. Ventilator cowls. 2,878,745, 3-24-59, Cl. 98—82.

Nichol, Wilbert G., to United States Steel Corp. Load restraining device. 2,905,107, 9-22-59, Cl. 105—369.

Nicholas, Andrew J., to Worthington Corp. Reversible rotary pump. 2,910,947, 11-3-59, Cl. 103—117.

Nicholas, Donald C., to B. X. Plastics Ltd. Twin contra-rotating parallel drive shaft assemblies. 2,892,362, 6-30-59, Cl. 74—665.

Nicholas, James H., to G & W Electric Specialty Co. Insulator for high voltage terminator. 2,879,322, 3-24-59, Cl. 174—140.

## Nicholas, Louis: See—

Swart, Gilbert H., Gmitter, and Nicholas. 2,915,496.

Nicholas, William, to Radiant Mfg. Corp. Portable cinema-scope screen assembly. 2,888,072, 5-26-59, Cl. 160—377.

Nicholas, William, and H. Kozel, to Radiant Mfg. Corp. Portable tripod stand for projection screen. 2,899,164, 8-11-59, Cl. 248—171.

Nicholl, Christopher I. H., to Polymer Corp. Ltd. Distribution device. 2,916,360, 12-8-59, Cl. 23—288.

## Nicholl, Leonard: See—

Tarsio, Peter J., and Nicholl. 2,892,840.

Nicholls, Cyril M., I. Wells, and R. Spence, to United States of America, Atomic Energy Commission. Separation of uranium, plutonium and fission products. 2,908,547, 10-13-59, Cl. 23—14.5.

Nicholls, Herbert C., to Consolidated Water Power & Paper Co. Palletized container. 2,894,671, 7-14-59, Cl. 229—14.

Nicholls, Kenneth R., to Monsanto Chemical Co. Method for packaging meat. 2,893,877, 7-7-59, Cl. 99—174.

## Nichols, Arthur F.: See—

Melvin, William S., and Nichols. 2,907,780.

Nichols, Bill, and R. W. Rath, to Rath Packing Co. Rotary mold for sausage. 2,897,745, 8-4-59, Cl. 99—427.

Nichols, Charles E., and S. W. Burdge, to The Monarch Machine Tool Co. Control system. 2,878,704, 3-24-59, Cl. 82—34.

Nichols, Charles M. Universal joint. 2,903,866, 9-15-59, Cl. 64—7.

Nichols, Charles R., Jr., and J. A. Arsenault. Combination table and folding chair. 2,871,920, 2-3-59, Cl. 155—123.

## Nichols &amp; Clark, Inc.: See—

Nichols, Nathan P. 2,891,116.

Nichols, Donald E., to Collins Radio Co. Mechanical interpolator. 2,875,622, 3-3-59, Cl. 74—99.



- Nichols, Donald E., and R. A. Swanson, to Collins Radio Co. Adjustable rotary stop mechanism. 2,918,157, 12-22-59, Cl. 192-139.
- Nichols, Frank,  $\frac{1}{4}$  to R. Trejo,  $\frac{1}{4}$  to C. W. Brown, and  $\frac{1}{4}$  to P. Briola. Air pressure actuated beer dispenser and coil cleaner. 2,906,435, 9-29-59, Cl. 222-25.
- Nichols, Frank C. Container rim protector. 2,873,881, 2-17-59, Cl. 220-90.
- Nichols, Frank S.: See—
- Liao, Tseng W., and Nichols. 2,912,382.
- Nichols, Frank S., and S. K. Smith, Jr., to General Electric Co. Electrical insulating cement. 2,879,323, 3-24-59, Cl. 174-177.
- Nichols, Frederick W., Jr. Apparatus for dispensing materials from collapsible tubes. 2,883,087, 4-21-59, Cl. 222-100.
- Nichols, George E., G. A. Nelson, T. M. Casey, and R. E. Hogan, to Northrop Corp. Slipper and axle for high speed track vehicle. 2,909,129, 10-20-59, Cl. 104-134.
- Nichols, Gerald H., to G & H Constructors, Inc. Tractor mounted side boom crane. 2,909,290, 10-20-59, Cl. 212-8.
- Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Display mount provided with brace members. 2,880,948, 4-7-59, Cl. 248-35.
- Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Easel-type mount. 2,902,785, 9-8-59, Cl. 40-120.
- Nichols, Gust: See—
- Francher, Otis E., and Nichols. 2,899,359.
- Nichols, Harry J.: See—
- Coughlin, Joseph E. 2,895,057.
- Nichols, Harry S.: See—
- Gimpel, Donald J. 2,877,457.
- Nichols, John W. de L., and M. H. Westbrook, to National Research Development Corp. Fog detecting and visibility measuring systems. 2,907,889, 10-6-59, Cl. 250-217.
- Nichols, Joseph: See—
- Boehme, Werner R., and Nichols. 2,912,459.
- Nichols, Joseph, to Ethicon, Inc. Cigarette element for tobacco smoke. 2,883,990, 4-28-59, Cl. 131-10.
- Nichols, Joseph, and E. S. Schipper, to Ethicon, Inc. Method for preparing anhydrides of high molecular weight long-chain fatty acids. 2,877,247, 3-10-59, Cl. 260-413.
- Nichols, Joseph, and E. S. Schipper, to Ethicon, Inc. New series of organic compounds. 2,888,466, 5-26-59, Cl. 260-348.
- Nichols, Joseph, and E. S. Schipper, to Ethicon, Inc. 9,12-diketo-10-hydroxystearic acid and method for preparing same. 2,894,964, 7-14-59, Cl. 260-406.
- Nichols, Kermit D., to General Motors Corp. Automobile refrigerating apparatus. 2,902,838, 9-8-59, Cl. 62-244.
- Nichols, Mary L.: See—
- Rector, Floyd D., and Nichols. 2,909,863.
- Nichols, Michael, Jr.: See—
- Krokos, Raymond M., and Nichols. 2,899,842.
- Nichols, Nathan P., to Nichols & Clark, Inc. Hearing aid device. 2,891,116, 6-16-59, Cl. 179-107.
- Nichols, Newlin S.: See—
- Fletcher, Frederick L., Hindley, and Nichols. 2,890,840.
- Nichols, Parks M., to United States Rubber Co. Colored sidewall tires. 2,874,746, 2-24-59, Cl. 152-353.
- Nichols, Paul B., to The Geograph Co. Depth recorder. 2,883,256, 4-21-59, Cl. 346-49.
- Nichols, Robert L.: See—
- Kelly, Hugh P., and Nichols. 2,904,643.
- Nichols, Talley W. Toy rifle cartridge ejector. 2,887,809, 5-26-59, Cl. 42-54.
- Nichols, Victor L., and I. J. Carshelis, to David & David, Inc. Apparatus for curling plastic yarn. 2,878,514, 3-24-59, Cl. 18-19.
- Nichols, William M., to Alco Products Inc. Fuel injection equipment. 2,888,876, 6-2-59, Cl. 103-41.
- Nichols, William T.: See—
- Lunde, Einar, and Nichols. 2,884,187.
- Lunde, Einar, and Nichols. 2,894,681.
- Nicholson, Daniel E.: See—
- Edwards, William R., Nicholson, and Reidland. 2,875,849.
- Nicholson, Donald M., to Nicholson Mfg., Inc. Shelter for animals. 2,875,477, 3-3-59, Cl. 20-5.
- Nicholson, Edward W. S., to Esso Research and Engineering Co. Shot heated fluidized catalytic hydroforming system. 2,882,222, 4-14-59, Cl. 208-149.
- Nicholson, Edward W. S., to Esso Research and Engineering Co. Removal of adhered catalyst from inert shot in a fluidized solids catalytic process. 2,889,269, 6-2-59, Cl. 208-149.
- Nicholson, Edward W. S., to Esso Research and Engineering Co. Fluid solids system employing a mixture of catalyst and inert particles. 2,894,902, 7-14-59, Cl. 208-149.
- Nicholson, Edward W. S., to Esso Research and Engineering Co. Heat exchange system for the products and reactants in the reforming of gasoline. 2,909,478, 10-20-59, Cl. 208-95.
- Nicholson, Edward W. S., to Esso Research and Engineering Co. Use of fluidized solids and catalyst particles in the hydroforming of a naphtha. 2,914,463, 11-24-59, Cl. 208-136.
- Nicholson, Edward W. S., M. A. Segura, and L. Broussard, to Esso Research and Engineering Co. Hydroforming process wherein the regenerated molybdenum oxide catalyst is contacted with a sulfur compound. 2,906,698, 9-29-59, Cl. 208-136.
- Nicholson, Frederick A. Method and apparatus for forming lumber boards from varying lengths of short waste units. 2,908,600, 10-13-59, Cl. 154-116.
- Nicholson, G. E.: See—
- Wild, Julius D. 2,890,508.
- Nicholson, Gordon E., to Collins Radio Co. Shaft positioning clutch device. 2,901,067, 8-25-59, Cl. 192-17.
- Nicholson, Harry P., and M. R. Martin. Machine for molding concrete fence posts. 2,917,802, 12-22-59, Cl. 25-41.
- Nicholson, Laurence E. Automatic resetting transient autographic recorders. 2,877,079, 3-10-59, Cl. 346-21.
- Nicholson Mfg., Inc.: See—
- Nicholson, Donald M. 2,875,477.
- Nicholson, W. H., and Co.: See—
- Williams, Walter C. 2,881,876.
- Nicholson, William H., to Westinghouse Electric Corp. Casings for elastic fluid utilizing apparatus. 2,904,962, 9-22-59, Cl. 60-102.
- Nicholson, William Q.: See—
- Hudson, Harold R., Nicholson, and Wilson. 2,872,641.
- Hudson, Harold R., Nicholson, and Wilson. 2,889,518.
- Nichta, John J., to The Warner & Swasey Co. Machine tool. 2,885,765, 5-12-59, Cl. 29-41.
- Nicita, Charles A., to Specialties Development Corp. Means for controlling the speed of turbines. 2,916,635, 12-8-59, Cl. 290-40.
- Nickel, Eberhard, to Sulzer Freres, S.A. Steam generating and resuperheating plant. 2,918,909, 12-29-59, Cl. 122-1.
- Nickel, Horst: See—
- Suckfull, Fritz, Putter, and Nickel. 2,891,047.
- Nickel, Horst, and F. Suckfull, to Farbenfabriken Bayer Akt. Metal-containing polyazo dyestuffs. 2,887,476, 5-19-59, Cl. 260-145.
- Nickel, Horst, and F. Suckfull, to Farbenfabriken Bayer Akt. Copper containing polyazo dyestuffs. 2,892,827, 6-30-59, Cl. 260-143.
- Nickel, Horst, and F. Suckfull, to Farbenfabriken Bayer Aktiengesellschaft. Azo dyestuffs and their copper complex compounds. 2,919,269, 12-29-59, Cl. 260-146.
- Nickell, Edward C. Mounting arrangement for switch boxes and the like. 2,867,344, 1-6-59, Cl. 220-3.6.
- Nickell, Louis G., to Chas. Pfizer & Co., Inc. Agricultural uses of 1,8-dihydroxy-9-anthrone. 2,883,320, 4-21-59, Cl. 167-30.
- Nickell, Louis G., to Chas. Pfizer & Co., Inc. Plant growth stimulation. 2,907,650, 10-6-59, Cl. 71-2.5.
- Nickells, Stanley W., to Minneapolis-Honeywell Regulator Co. Diaphragm valve. 2,900,163, 8-18-59, Cl. 251-30.
- Nickels, William H. Locking device. 2,900,148, 8-18-59, Cl. 244-83.
- Nickelson, Maurice R. Accelerator pedal attachment. 2,912-083, 11-10-59, Cl. 192-3.
- Nickerson, Clifford A.: See—
- Dermond, Franklin, and Nickerson. 2,883,476.
- Nickerson, Clifford A., to Bell Telephone Laboratories, Inc. Sound recording and reproducing apparatus. 2,880,279, 3-31-59, Cl. 179-100.2.
- Nickerson, Clifford A., to Bell Telephone Laboratories, Inc. Cycle measuring means. 2,903,058, 9-8-59, Cl. 161-19.
- Nickerson, Douglas B., to Crane Co. Pump bearing assembly. 2,892,663, 6-30-59, Cl. 308-72.
- Nickerson, Douglas B., to Crane Co. Fuel pump bearing. 2,897,025, 7-28-59, Cl. 308-237.
- Nickerson, John D.: See—
- Johnson, Neal J., and Nickerson. 2,868,672.
- Nickerson, John D., to Union Carbide Corp. Oxidation resistant articles. 2,906,632, 9-29-59, Cl. 106-56.
- Nickerson, Ralph F., to Monsanto Chemical Co. Novel silica products and silicone rubber containing same coated silica aerogel, silicone rubber reinforced therewith and method of making. 2,870,108, 1-20-59, Cl. 260-29.1.
- Nickerson, Ralph F., to Monsanto Chemical Co. Coated silica aerogel, silicone rubber reinforced therewith and method of making. 2,870,109, 1-20-59, Cl. 260-29.1.
- Nickols, Leonard W., to Power Jets (Research and Development) Ltd. Gauging of linear dimensions. 2,880,513, 4-7-59, Cl. 33-147.
- Nickson, Philip T., to United States of America, Air Force, Dither mechanism. 2,876,646, 3-10-59, Cl. 74-42.
- Niclas, Walter, and R. Beckadolph, to Continental Gummi-Werke Akt. Control mechanism for use in connection with machines for making carcasses for pneumatic tires. 2,904,099, 9-15-59, Cl. 154-9.
- Nicol, Ernst W. Lifeboat. 2,899,695, 8-18-59, Cl. 9-4.
- Nicolai, Harold, and H. F. Kolze, to Vastine Engineering Co., Inc. Machine for handling gas-borne particulate material. 2,912,943, 11-17-59, Cl. 110-104.
- Nicolai, Lloyd A.: See—
- Draeger, Kenneth E., and Nicolai. 2,906,704.
- Draeger, Kenneth E., and Nicolai. 2,916,434.
- Robbins, Leroy V., Jr., and Nicolai. 2,905,631.
- Nicolai, Lloyd A., C. W. Tyson, and E. J. Gornowski, to Esso Research and Engineering Co. Automatic control of hydroforming and related operations. 2,905,630, 9-22-59, Cl. 208-134.
- Nicolai, Willem H. J.: See—
- Geels, Bernardus H., and Nicolai. 2,904,638.
- Nicolaisen, Bernard H.: See—
- Northgraves, Walter W., and Nicolaisen. 2,895,801.



- Nicolaisen, Bernard H., to Olin Mathieson Chemical Corp. Separation of unsymmetrical dimethylhydrazine from aqueous solution containing not more than 20 percent of the former caustic soda. 2,876,173, 3-3-59, Cl. 202-39.5.
- Nicolaisen, Bernard H., and J. A. Wood, to Olin Mathieson Chemical Corp. Process for the separation of gamma benzene hexachloride. 2,911,446, 11-3-59, Cl. 260-648.
- Nicolaisen, Bernard M.: *See*—
- Harshman, Richard C., and Nicolaisen. 2,914,472.
- Nicolaisen, Reidar J., and H. M. McCall, to Raymond International Inc. Apparatus for making sheathed cables. 2,899,921, 8-18-59, Cl. 113-35.
- Nicolaus, Bruno J. R.: *See*—
- Merian, Ernest, and Nicolaus. 2,909,561.
- Merian, Ernest, Nicolaus, and Wehrli. 2,870,137.
- Nicolaus, Frank G., to R. T. Moloney, deceased; American National Bank and Trust Co. of Chicago, executor of said Moloney. Stepper with built-in latch. 2,895,340, 7-21-59, Cl. 74-142.
- Nicolaus, Norbert, to Jas. P. Marsh Corp. Indicating instrument having non-parallax dial. 2,905,138, 9-22-59, Cl. 116-129.
- Nicoll, Vincent J. Bag sealing and printing device. 2,898,717, 8-11-59, Cl. 53-131.
- Nicoll, David, to United States of America, Atomic Energy Commission. Method and apparatus for handling radioactive products. 2,875,345, 2-24-59, Cl. 250-106.
- Nicoll, Frederick H., to Radio Corp. of America. Electrobeam tube. 2,877,369, 3-10-59, Cl. 313-82.
- Nicoll, Frederick H., to Radio Corp. of America. Electroluminescent image device. 2,884,541, 4-28-59, Cl. 250-213.
- Nicoll, Frederick H., to Radio Corp. of America. Electroluminescent device to give negative pictures. 2,891,169, 6-16-59, Cl. 250-213.
- Nicoll, Frederick H., to Radio Corp. of America. Radiant energy translating device. 2,908,824, 10-13-59, Cl. 250-213.
- Nicoll, Frederick H., and B. Kazan, to Radio Corp. of America. Electroluminescent device. 2,880,346, 3-31-59, Cl. 313-108.
- Nicoll, William D.: *See*—
- Cox, Norman L., and Nicoll. 2,910,341.
- Nicolls, Wilfrid E. W., to C. A. V. Ltd. Filters. 2,868,383, 1-13-59, Cl. 210-323.
- Nicolls, Wilfrid E. W., to C.A.V. Ltd. Liquid fuel injection systems for internal combustion engines. 2,891,530, 6-23-59, Cl. 123-139.
- Nicolls, Wilfrid E. W., to C.A.V. Ltd. Liquid fuel injection pumps for internal combustion engines. 2,918,872, 12-29-59, Cl. 103-38.
- Nicolls, Wilfrid E. W., and P. Howes, to C. A. V. Ltd. Liquid fuel injection nozzles for internal combustion engines. 2,878,064, 3-17-59, Cl. 299-107.6.
- Nicolosi, John P. F-M monodirectional deviation circuit. 2,892,981, 6-30-59, Cl. 332-16.
- Nicolson, Kingsley M., to California Research Corp. Shearing device and method for use in well drilling. 2,919,111, 12-29-59, Cl. 255-1.8.
- Nicotron Developments Ltd.: *See*—
- Japolsky, Nicholas S., 2,898,864.
- Niebauer, Kenneth L.: *See*—
- MacNeill, John B., Florschutz, and Niebauer. 2,892,057.
- Niebergall, Louis F.: *See*—
- Yelinek, Gustav H., Niebergall, and Tietz. 2,907,121.
- Nieburgs, Herbert E. Treatment of microscope specimen slides. 2,899,363, 8-11-59, Cl. 167-84.5.
- Nieburgs, Herbert E. Device for cancer detection. 2,905,169, 9-22-59, Cl. 128-2.
- Niederer, Ernest, and J. R. Zwickl, to Refrigeration Appliances, Inc. Dual belt tightener. 2,875,626, 3-3-59, Cl. 74-242.13.
- Niederhauser, Warren D.: *See*—
- Boettner, Fred E., and Niederhauser. 2,892,823.
- Boettner, Fred E., and Niederhauser. 2,892,825.
- Niederhauser, Warren D., and E. Broderick, to Rohm & Haas Co. Secondary aliphatic amines containing tertiary carbon atoms. 2,870,207, 1-20-59, Cl. 260-583.
- Niederman, Bernard, to Motorola, Inc. Electromechanical filter. 2,905,909, 9-22-59, Cl. 333-71.
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- Niedrach, Leonard W., and A. C. Glamm, to United States of America, Atomic Energy Commission. Purification of uranium fuels. 2,902,415, 9-1-59, Cl. 204-1.5.
- Niedringhaus, Charles W., and D. C. Pettitt, to Knoll-Drake Products, Inc. Drawer guide. 2,872,271, 2-3-59, Cl. 312-345.
- Niedzielski, Edmund L., to E. I. du Pont de Nemours and Co. Hydrocarbon fuels. 2,891,853, 6-23-59, Cl. 52-5.
- Niegowski, Sigismund J., and A. Maggiolo, to The Welsbach Corp. Method for the recovery of azelaic acid from a mixture of oxidized acids. 2,897,231, 7-28-59, Cl. 260-485.
- Niehart, William M. Humidifying apparatus. 2,911,011, 11-3-59, Cl. 138-75.
- Niehaus, Edward J., Jr., and W. H. Gay, to Esso Research and Engineering Co. Air sweetening process for naphthas. 2,916,442, 12-8-59, Cl. 208-204.
- Nieland, Paul J.: *See*—
- Zeigle, Kenneth C., Nieland, and Vance. 2,878,014.
- Nield, Douglas. Display shelves. 2,911,108, 11-3-59, Cl. 211-90.
- Nielsen, A. C., Co.: *See*—
- Currey, Charles H. 2,881,417.
- Freeman, Robert L. 2,892,885.
- Freeman, Robert L., and Currey. 2,884,567.
- Nielsen, Adolph. Valve fitting for pump pressure systems. 2,873,758, 2-17-59, Cl. 137-209.
- Nielsen, Albert C. Jewelry clasps. 2,874,435, 2-24-59, Cl. 24-232.
- Nielsen, Axel L. Outboard motor pump attachment. 2,884,862, 5-5-59, Cl. 103-87.
- Nielsen, Carl T. Adjustable hinge. 2,867,838, 1-13-59, Cl. 16-131.
- Nielsen, Christian W. Flush valve guide. 2,914,774, 12-1-59, Cl. 4-57.
- Nielsen, Erick R. Force-feed lubricated chain saw bar unit. 2,913,020, 11-17-59, Cl. 143-32.
- Nielsen, Erik J., to Square D Co. Fuse holders. 2,889,533, 6-2-59, Cl. 339-256.
- Nielsen, Frederik. Gage for indicating king pin inclination. 2,899,752, 8-18-59, Cl. 33-203.18.
- Nielsen, Hans B. Driving mechanism for winding-up machines. 2,917,934, 12-22-59, Cl. 74-190.5.
- Nielsen, James S., to Goodyear Aircraft Corp. Methods and apparatus for machining and for holding during machining honeycomb material. 2,905,064, 9-22-59, Cl. 90-59.
- Nielsen, Milton R., to Borg-Warner Corp. Housing confined lip seal. 2,867,462, 1-6-59, Cl. 288-3.
- Nielsen, Milton R., to Borg-Warner Corp. Clutch mechanism. 2,910,159, 10-27-59, Cl. 192-45.1.
- Nielsen, Morris L.: *See*—
- Stone, Bobbie D., and Nielsen. 2,893,835.
- Stone, Bobbie D., and Nielsen. 2,900,358.
- Nielsen, Morris L., to Monsanto Chemical Co. Production of titanium tetraiodide. 2,904,397, 9-15-59, Cl. 23-87.
- Nielsen, Niels H. Measuring process for the recording of the intensity of signal sequences. 2,871,465, 1-27-59, Cl. 88-14.
- Nielsen, Norman C. Combination paper holder and deodorizer. 2,901,790, 9-1-59, Cl. 21-108.
- Nielson, A. C., Co.: *See*—
- Rahmel, Henry A., 2,893,809.
- Nielson, Alvin R.: *See*—
- Gardner, Edward B., and Nielson. 2,892,733.
- Nielson, Carl A., T. J. Bushey, and R. L. Currens. 1/4 to A. Schrider. Ear inserts. 2,888,921, 6-2-59, Cl. 128-151.
- Nielsson, Francis T., to Tennessee Valley Authority. Production of fertilizer. 2,879,153, 3-24-59, Cl. 71-39.
- Nieman, Chauncy W., and J. B. Lawrence, to Bethlehem Apparatus Co., Inc. Polymix gas burner. 2,911,035, 11-3-59, Cl. 158-99.
- Nieman, Donald F., and W. J. Hart, to Institute of Textile Technology. Optical fabric analyzer. 2,869,416, 1-20-59, Cl. 88-14.
- Nieman, Henry W., and G. O. Maish, to Bethlehem Steel Co. Coating control apparatus. 2,888,901, 6-2-59, Cl. 118-103.
- Nieman, Kenneth V.: *See*—
- Godfrey, John W., Hayden, and Nieman. 2,914,012.
- Niemeyer, Edward H.: *See*—
- Dement, James F., Benson, and Niemeyer. 2,867,915.
- Niemeyer, Edward J. Trap for animals. 2,867,938, 1-13-59, Cl. 43-63.
- Niemeyer, Roy K. Bow string nock. 2,905,166, 9-22-59, Cl. 124-30.
- Niemi, Tobias O. Milk strainer and cooler. 2,877,992, 3-17-59, Cl. 257-199.
- Niems, Lee H., to Marblehead Lime Co. Apparatus for cooling particles. 2,901,837, 9-1-59, Cl. 34-167.
- Nienke, Artie D. Eccentrically offset ball joint for front wheel stub axle suspension. 2,900,196, 8-18-59, Cl. 280-96.1.
- Nier, Alfred O. C., to United States of America, Atomic Energy Commission. Mass spectrometry. 2,901,624, 8-25-59, Cl. 250-41.9.
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- Nies, Nelson P.: *See*—
- Kroll, Wilhelm J., Nies, and Fajans. 2,893,842.
- Taylor, Donald S., and Nies. 2,886,461.
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- Niesen, George P., A. J. Mazzio, and E. H. Dubois, to A. B. Dick Co. Single cycle clutch mechanism for duplicators. 2,888,874, 6-2-59, Cl. 101-132.5.
- Nieset, Robert T.: *See*—
- Baril, Albert, Jr., De Barbieris, Nieset, and Stearns. 2,911,299.
- Nieset, Robert T., to Kalvar Corp. Methods and apparatus for copying. 2,916,622, 12-8-59, Cl. 250-65.



- Niesp, Casimer M. Thumb-operated trigger safety. 2,867,930, 1-13-59, Cl. 42-70.
- Niesp, Casimer M. Trigger safety device for guns. 2,874,503, 2-24-59, Cl. 42-70.
- Niesp, Casimer M. Gun sight. 2,904,888, 9-22-59, Cl. 33-51.
- Nieuwenhoven, Hendricus J. C., to N.V. Optische Industrie "De Oude Delft." Focal plane shutter. 2,911,896, 11-10-59, Cl. 95-57.
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- Nieuwenhuis, Garnt J., and C. C. Harrison. Method and apparatus for preparing and filtering animal blood for drying. 2,873,026, 2-10-59, Cl. 210-67.
- Nieuwenhuis, Willem E., and J. H. F. D. Schmidt, to Shell Development Co. Regeneration of caustic solutions. 2,882,132, 4-14-59, Cl. 23-184.
- Nig Mfg. Co. Ltd., The: See—  
Jacobs, Ridley S. 2,898,835.
- Nigh, Carl L., to General Motors Corp. Bearing assembly. 2,881,033, 4-7-59, Cl. 308-91.
- Nigon, Joseph P.: See—  
McElroy, Albert D., and Nigon. 2,889,194.
- Nigrelli, Biagio J.: See—  
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- Nigrelli, Biagio J., W. E. Standley, and M. V. Artiaga, to R. W. Johns, B. J. Nigrelli, and R. R. Johns, d.b.a. Johns-Nigrelli-Johns. Case flap opener. 2,890,560, 6-16-59, Cl. 53-382.
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- Nigro, Joseph G. Automatic refrigerant charging system coupled with an automatic alarm to a conventional warning system. 2,893,217, 7-7-59, Cl. 62-126.
- Nihlen, Arvid C. K.: See—  
Brown, John W., Jr., and Nihlen. 2,892,451.
- Niiranen, John V., and P. H. Tanner, to United States of America, Navy. Surgical body-member simulacrum for teaching first aid. 2,871,579, 2-3-59, Cl. 35-17.
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- Nikkel, Benjamin L. Baler. 2,917,993, 12-22-59, Cl. 100-142.
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- Nikocraft Ltd.: See—  
Ehrmann, Ralph R. M. 2,907,137.
- Niles, Vergil A. Rod and reel holder. 2,899,769, 8-18-59, Cl. 43-21.2.
- Nilgen, Anton, to Maschinenfabrik Hasenclever A.G. Horizontal forging machine. 2,911,861, 11-10-59, Cl. 78-17.
- Nill, Richard G., to Fort Wayne Tool Die & Engineering Co. Clamping mechanism for stator winding apparatus. 2,904,270, 9-15-59, Cl. 242-1.1.
- Nilsen Mfg. Co.: See—  
Nilsen, Peter J. 2,873,415.
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- Nilsson, Ole K., to Radio Corp. of America. Self-tuning FM detector circuit. 2,915,631, 12-1-59, Cl. 250-27.
- Nilsson, August L. Spring suspension for vehicles. 2,917,304, 12-15-59, Cl. 267-11.
- Nilsson, Bengt E., to Aktiebolaget Electrolux. Electrical appliance having detachable combined switch and connector block. 2,901,564, 8-25-59, Cl. 200-51.
- Nilsson, Einar W. Cutting apparatus. 2,899,737, 8-18-59, Cl. 29-69.
- Nilsson, Einar W. Drive mechanism for flying shears and the like. 2,899,843, 8-18-59, Cl. 74-681.
- Nilsson, Hans R., to Svenska Rotor Maskiner Aktiebolag. Rotary device. 2,868,442, 1-13-59, Cl. 230-143.
- Nilsson, Hans R., to Svenska Rotor Maskiner Aktiebolag. Rotary devices and casing structures therefor. 2,873,909, 2-17-59, Cl. 230-143.
- Nilsson, Ivar L. Filter drum for recovering fibers from liquid. 2,891,671, 6-23-59, Cl. 210-211.
- Nilsson, Karl T., and J. Vitrone, Jr., to Allied Chemical Corp. Cyclohexanone. 2,873,296, 2-10-59, Cl. 260-586.
- Nilsson, Nils E., G. O. Rodnert, and J. C. H. Bjork, to Telefonaktiebolaget L M Ericsson. Automatic telephone system. 2,871,299, 1-27-59, Cl. 179-22.
- Nilsson, Nils E., J. C. H. Bjork, and G. O. Rodnert, to Telefonaktiebolaget L M Ericsson. Automatic restricted telephone exchange. 2,886,646, 5-12-59, Cl. 179-18.
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- Nilsson, Nils G. H., and K. A. Stridsberg. Apparatus for grinding a material suspended in a liquid. 2,909,334, 10-20-59, Cl. 241-46.
- Nilsson, Nils L.: See—  
Lock, Robert L., Nilsson, and Spurgeon. 2,884,476.
- Nilsson, Nils L., to Anderson Electric Corp. Hot line clamp. 2,867,787, 1-6-59, Cl. 330-264.
- Nilsson, Nils L., to Anderson Electric Corp. Dead end connector. 2,879,321, 3-24-59, Cl. 174-79.
- Nilsson, Nils L., and S. J. Spurgeon, to Anderson Brass Works. Shunt for power line clamps. 2,868,865, 1-13-59, Cl. 174-140.
- Nilsson, Richard, Aktiebolag: See—  
Reisinger, Kurt H. 2,885,297.  
Weiss, Josef. 2,871,135.
- Nilsson, Sten E. Apparatus for folding a running web of flexible material. 2,895,731, 7-21-59, Cl. 270-86.
- Nimblett, Albert H., Jr., to Sylvania Electric Products Inc. Metering apparatus for material divided into small particles. 2,917,343, 12-15-59, Cl. 302-52.
- Nimmo, Robert H.: See—  
Smiley, Seymour H., Brater, and Nimmo. 2,907,629.
- Nims, Philip A., to Crompton & Knowles Corp. Picking mechanism for loom. 2,868,234, 1-13-59, Cl. 139-147.
- Nipken, Walter. Depth control attachment for a drill or the like. 2,915,925, 12-8-59, Cl. 77-55.
- Nipp, Kenneth W.: See—  
Thompson, Joseph C., and Nipp. 2,898,169.
- Nippert Electric Products Co., The: See—  
Nippert, Paul W., and Hodge. 2,879,191.
- Nippert, Paul W., and A. W. Hodge, to The Nippert Electric Products Co. Method of producing heat treated copper zirconium alloys and articles formed thereof. 2,879,191, 3-24-59, Cl. 148-11.5.
- Nippon Kogaku K. K.: See—  
Azuma, Hideo. 2,896,506.  
Wakimoto, Zenji. 2,906,174.
- Nippon Mishin Seizo Kabushiki Kaisha: See—  
Tateishi, Toshio. 2,873,706.
- Nippon Shinyaku Co., Ltd.: See—  
Fukui, Tomijiro, and Matsuo. 2,897,206.
- Nippon Telegraph & Telephone Public Corp.: See—  
Hayasaka, Toshio, Masuzawa, and Nagai. 2,879,193.
- Niquet, Rene: See—  
Vergnaud, Paul, and Niquet. 2,883,329.
- Nirenberg, Morris. Ice cream dispensing apparatus. 2,889,949, 6-9-59, Cl. 214-310.
- Nirmaier, Earle A.: See—  
Baumann, George P., and Nirmaier. 2,906,791.
- Niro Corp.: See—  
Nyrop, Johan E. 2,902,223.
- Nischk, Gunther: See—  
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- Nischk, Gunther, 1/2 to Farbenfabriken Bayer Aktiengesellschaft, and 1/2 to Mobay Chemical Co. Isocyanate-mustard oils. 2,898,363, 8-4-59, Cl. 260-454.
- Nischk, Günther, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of hydroxyaryl thioisocyanates. 2,908,705, 10-13-59, Cl. 260-454.
- Nischk, Günther, and K. E. Müller, 1/2 to Mobay Chemical Co., and 1/2 to Farbenfabriken Bayer Aktiengesellschaft. Storage stable mixture of a diisocyanate and the reaction product of a polyester, a glycol and a diisocyanate and method of making same. 2,912,408, 11-10-59, Cl. 260-454.
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- Nischk, Gunther, W. Bunge, and O. Bayer, to Farbenfabriken Bayer Akt. Process for producing cellular polyurethane resins. 2,868,739, 1-13-59, Cl. 260-2.5.
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- Nischk, Gunther, K. E. Müller, and L. Goordon, to Farbenfabriken Bayer Akt. Method of making copolymer of diisocyanate modified polyester and vinylidene monomer. 2,879,248, 3-24-59, Cl. 260-454.
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- Nish, Joseph G.: See—  
Eldridge, Arthur J., and Nish. 2,877,418.
- Nishigori, Kimpel, and T. Hayashi, to Maruzen Kabushiki Kaisha. Numbering machine. 2,899,891, 8-18-59, Cl. 101-83.



- Nishikiori, Seiji. Free-cutting stainless steel. 2,897,078, 7-28-59, Cl. 75-124.
- Nishikiori, Seiji. Steel ingot making composition, method and apparatus. 2,897,555, 8-4-59, Cl. 22-64.
- Nishimura, Haruo: *See*—  
Kano, Hideo, Nishimura, Nakajima, and Ogata. 2,888,455.
- Nishio, Frank M.: *See*—  
Stockman, Earle F. 2,899,996.
- Nishio, Hidehiko, and S. Yasuda, to International Standard Electric Corp. Travelling wave tube device. 2,882,439, 4-14-59, Cl. 315-3.5.
- Nishkian, Martin A.: *See*—  
Goesselin, Charles J. 2,908,299.
- Nison, Morris: *See*—  
Bloom, Samuel M. 2,872,076.
- Nissel, Frank R.: *See*—  
Rocky, Joseph F., and Nissel. 2,897,176.
- Nissen, George P. Adjustable handle for a rope or the like. 2,869,872, 1-20-59, Cl. 272-75.
- Nissen, Warren L., to The Gillette Co. Safety razor with spider stem lock ring. 2,900,721, 8-25-59, Cl. 30-60.5.
- Nistico, Frank, and R. R. Hoffman, to Celanese Corp. of America. Tensiometer. 2,911,823, 11-10-59, Cl. 73-144.
- Niswonger, Robert C.: *See*—  
Wade, Raymond H., and Niswonger. 2,907,234.
- Nitche, Charles D., to Samuel M. Langston Co. Hydraulically balanced pressure roll for glue machines. 2,876,734, 3-10-59, Cl. 118-249.
- Nitenson, Edward. Artist's knife. 2,908,972, 10-20-59, Cl. 30-293.
- Nitikman, Arthur, to Northrop Aircraft, Inc. Vortex frequency airspeed indicator. 2,869,366, 1-20-59, Cl. 73-181.
- Nitka, Norbert J., and R. E. Davis, to The Oilgear Co. Hydraulic machine with flow rate responsive speed control. 2,902,825, 9-8-59, Cl. 60-52.
- Nitkiewicz, Stanley L., to Abbey Etna Machine Co. Spacer for tube forming mills. 2,890,321, 6-9-59, Cl. 219-59.
- Nitrifabrik Aktiengesellschaft: *See*—  
Schauenstein, Erwin. 2,919,287.
- Nitro-Form Agricultural Chemical Co.: *See*—  
O'Donnell, James M. 2,882,141.
- Nitsche, Claus: *See*—  
Schlotmann, Karl, and Nitsche. 2,893,223.
- Nitsche, Erich: *See*—  
Hoppe, Georg, and Nitsche. 2,887,411.
- Nitsche, Karl P. W. Apparatus for cleaning or similar treatment of metallic articles. 2,888,939, 6-2-59, Cl. 134-143.
- Nitschke, Bruno: *See*—  
Fess, Emil, and Nitschke. 2,886,158.
- Nitschke, Bruno, to Adlerwerke vorm. Heinrich Kleyer Akt. Device for adjusting the striking force of the type bars of electric typewriters. 2,868,345, 1-13-59, Cl. 197-17.
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- Nitszche, Siegfried: *See*—  
Enk, Eduard, and Nitszche. 2,877,254.
- Nitszche, Siegfried, and R. Riedle, to Wacker Chemie G. m. b. H. Preparation of hexaorganodistannoxane and triorganotin hydroxide. 2,868,820, 1-13-59, Cl. 260-429.7.
- Nitszche, Siegfried, S. Reichstaller, and M. Wick, to Wacker-Chemie G. m. b. H. Sulfur containing curing agents for silicone resins. 2,877,211, 3-10-59, Cl. 260-46.5.
- Nitszche, Siegfried, and R. Riedle, to Wacker Chemie G. m. b. H. Process for preparing arylchlorosilanes. 2,902,504, 9-1-59, Cl. 260-448.2.
- Niven, Charles F., Jr., R. H. Deibel, and G. D. Wilson, to A. W. Brickman, V. Conquest, F. J. Madden, W. Oleson, and E. T. Filbey, trustees. Production of fermented sausage. 2,907,661, 10-6-59, Cl. 99-109.
- Nix, Joe B. Apparatus for severing pipe. 2,914,891, 12-1-59, Cl. 51-241.
- Nix, Joe H.,  $\frac{1}{2}$  to E. G. Barton, and  $\frac{1}{2}$  to S. Lewinson. Multiple needle tufting machine. 2,875,714, 3-3-59, Cl. 112-79.
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Hammond, Leonard A. 2,900,160.
- Nixon, Charles E., to Adam Consolidated Industries, Inc. Apparatus for applying flexible plastic tape to conductors. 2,910,821, 11-3-59, Cl. 57-15.
- Nixon, Delbert R.: *See*—  
Krauss, John E., and Nixon. 2,906,396.
- Nixon, Edith M.: *See*—  
Nixon, Leslie R., and Stamberger. 2,906,982.
- Nixon, Ian S.: *See*—  
Borrow, Antony, Jefferys, and Nixon. 2,906,670.  
Borrow, Antony, Jefferys, and Nixon. 2,906,671.  
Borrow, Antony, Jefferys, and Nixon. 2,906,673.
- Nixon, Lawrence J. Variable pitch stairs. 2,888,182, 5-26-59, Cl. 228-48.
- Nixon, Leslie R., deceased, by E. M. Nixon, executrix, and A. Stamberger, to J. Stone & Co. (Deptford) Ltd. Electro-magnetic carbon pile regulators. 2,906,982, 9-29-59, Cl. 338-106.
- Nixon Nitration Works: *See*—  
Orsini, Camillo D. 2,897,541.
- Nixon, William O. Drill head with hydraulic thrust balancing means. 2,886,346, 5-12-59, Cl. 285-94.
- Noack, Rolf: *See*—  
Weise, Johannes, Fischer, Hahn, Kromer, and Noack. 2,893,301.
- Weise, Johannes, and Noack. 2,897,738.
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- Noakes, Thomas E., to American Radiator & Standard Sanitary Corp. Dual temperature infinitely variable thermostatic switch. 2,889,431, 6-2-59, Cl. 200-140.
- Noakes, Thomas E., to American Radiator & Standard Sanitary Corp. Dual switch actuating device. 2,901,578, 8-25-59, Cl. 200-140.
- Noakes, Thomas E., to American Radiator & Standard Sanitary Corp. Thermostatic flow control device. 2,902,222, 9-1-59, Cl. 236-93.
- Noakes, Thomas E., to American Radiator & Standard Sanitary Corp. Thermostatic valve having adjustable temperature setting. 2,915,248, 12-1-59, Cl. 236-12.
- Noall, John, to The Firestone Tire & Rubber Co. Device and method for measuring and dispensing fluids. 2,905,361, 9-22-59, Cl. 222-1.
- Nobecourt, Claude: *See*—  
Matis, Ernest, Demolon, Nobecourt, and Henri. 2,899,189.
- Nobel, Fred I.: *See*—  
Ostrow, Barnet D., and Nobel. 2,870,069.
- Nobel, Fred I., and B. D. Ostrow. Improved cyanide copper plating baths. 2,891,896, 6-23-59, Cl. 204-44.
- Nobis, John F.: *See*—  
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- Nobis, John F., and L. F. Moormeier, to National Distillers and Chemical Corp. Preparation of phenylmalonic acid. 2,881,209, 4-7-59, Cl. 260-515.
- Nobis, John F., and R. E. Robinson, to National Distillers and Chemical Corp. Process for preparing organo sodium compounds. 2,914,578, 11-24-59, Cl. 260-665.
- Noble, Carl M., and C. H. Angell, to Electric Eye Equipment Co. Protecting device for window of optical housing. 2,896,854, 7-28-59, Cl. 239-105.
- Noble, David L.: *See*—  
Mason, Harry L., and Noble. 2,908,830.
- Noble, Jack D. Portable batching plant. 2,873,036, 2-10-59, Cl. 214-2.
- Noble, John H., to Dravo Corp. Cement charger for dump truck. 2,880,035, 3-31-59, Cl. 298-8.
- Noble, Lowell A., and R. H. Chamberlin, to Eitel-McCullough, Inc. Electron tube socket. 2,901,678, 8-25-59, Cl. 317-257.
- Noble, Mark E. Extensible measuring rod. 2,879,598, 3-31-59, Cl. 33-125.
- Nobles Engineering Co.: *See*—  
Kravik, Ormund A. 2,874,615.
- Nobles, Robert G.: *See*—  
Reardon, William A., Lennox, and Nobles. 2,868,990.
- Nobuo, Yokota, to Shikoku Kasei Kogyo Co. Ltd. Furnace for extracting sulphur. 2,915,374, 12-1-59, Cl. 23-277.
- Noches, Chrespin W. Fish lure. 2,871,609, 2-3-59, Cl. 43-42.06.
- Nock, Harry. Combined sofa seat and bed. 2,871,488, 2-3-59, Cl. 5-46.
- Nock, James L., to Painter Brothers Ltd. End and like connections for galvanised structural tubes and similar elements. 2,883,216, 4-21-59, Cl. 287-20.2.
- Noda, Shozo, to Howa Kogyo Kabushiki-Kaisha. Apparatus for winding silver around bobbin. 2,898,726, 8-11-59, Cl. 57-54.
- Noddings, Charles R., W. E. Miller, and T. C. Engelder, to The Dow Chemical Co. Treatment of catalyst materials with high energy radiations. 2,905,608, 9-22-59, Cl. 204-162.
- Nodwell, William B. Overload sprocket for track laying vehicles. 2,893,787, 7-7-59, Cl. 305-1.
- Noe, Harold C., to Kidde Mfg. Co., Inc. Valve for dispensing fluid medium under pressure from a container. 2,892,574, 6-30-59, Cl. 222-394.
- Noe, Harold C., to Kidde Textile Machinery Corp. Clamp. 2,894,773, 7-14-59, Cl. 287-54.
- Noe, Oskar. Troughed belt conveyor. 2,877,887, 3-17-59, Cl. 198-191.
- Noecker, Duane S.: *See*—  
Weinrich, Walter H., Mudd, and Noecker. 2,867,995.
- Noel, Alfred E. Three dimensional picture. 2,873,545, 2-17-59, Cl. 40-160.
- Noesen, Stanley J.: *See*—  
Rossin, Peter C., Jr., and Noesen. 2,907,806.
- Noesen, Stanley J., to General Electric Co. Electric circuit for cold crucible arc melting furnaces. 2,907,807, 10-6-59, Cl. 13-12.
- Noeske, Heinz: *See*—  
Kolling, Helmut, Noeske, and Rappen. 2,892,877.
- Noeske, Heinz, to Ruhrchemie Akt. Process for the production of polyethylene chlorination products. 2,890,213, 6-9-59, Cl. 260-94.9.
- Noeske, Heinz, and H. Kolling, to Ruhrchemie Akt. Production of cyclopentene. 2,887,517, 5-19-59, Cl. 260-666.
- Noeske, Heinz, and A. Roelen, to Ruhrchemie Akt. Process for the chloro-sulfonation of polyethylene. 2,889,259, 6-2-59, Cl. 204-162.
- Noftz, Mearl E.: *See*—  
Elliott, Clifton M., Graham, and Noftz. 2,871,844.  
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- Nogier, Louis: *See*—  
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- Nogier, Paul and L. Injection syringe and piston. 2,882,899, 4-21-59, Cl. 128-218.
- Nogle, Charles C., to United Can and Glass Co. Magnetic feed hopper. 2,889,073, 6-2-59, Cl. 221-10.
- Nogrady, Andor T., Sr. Differential gear. 2,899,845, 8-19-59, Cl. 74-711.
- Noguchi, Yukio, M. Nakatomi, and C. Muto, to Mitsubishi Rayon Co., Ltd., Antistatic composition and preparation of the same. 2,917,401, 12-15-59, Cl. 106-287.
- Noguera, Joseph, to Casablancas High Draft Co. Ltd. Underclearers for textile fibre roller drafting mechanisms. 2,893,065, 7-7-59, Cl. 19-140.
- Noguera, Joseph, Casablancas High Draft Co. Ltd. Textile fibre drafting apparatus. 2,899,714, 8-18-59, Cl. 19-131.
- Nohl, Walter. Copying device for sewing-machine. 2,894,468, 7-14-59, Cl. 112-103.
- Noiles, Douglas G., to Westinghouse Electric Corp. Electron discharge device. 2,917,653, 12-15-59, Cl. 313-332.
- Nojima, Takeo, to Amagasaki Seitetsu Kabushiki Kaisha. Truck and wheel assembly. 2,878,070, 3-17-59, Cl. 301-5.
- Nojiri, Tatuo, to Canon Camera Co., Inc. Camera film rewinding knob. 2,906,469, 9-29-59, Cl. 242-71.3.
- Nojiri, Tatuo, to Canon Camera Co., Inc. Photographic flash-light apparatus. 2,911,809, 11-10-59, Cl. 67-31.
- Nojiri, Tatuo, to Canon Camera Co., Inc. Field changing means for viewfinder. 2,917,968, 12-22-59, Cl. 88-1.5.
- Nolan, Edward J. Work-holder for a machine tool. 2,902,892, 9-8-59, Cl. 77-63.
- Nolan, James P.: *See*—  
Mayo, Alfred M., Walpole, and Nolan. 2,868,959.
- Nolan, Ken, Inc.: *See*—  
Coleman, Leslie. 2,902,782.
- Nolan, William J. Sliding door. 2,880,474, 4-7-59, Cl. 20-19.
- Nolan, William J., to Board of Controls, acting for the University of Florida. Continuous pulping process. 2,904,460, 9-15-59, Cl. 162-25.
- Nolan, William J. Process for separating pith from fibers. 2,905,973, 9-29-59, Cl. 19-8.
- Noland, Jesse: *See*—  
Wagers, Beverly T. 2,872,201.
- Noland, Robert A.: *See*—  
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- Noland, Robert L., to Reinhold Engineering & Plastics Co., Inc. Plastic pipe bend and method for making same. 2,878,038, 3-17-59, Cl. 285-55.
- Noland, Robert L., to Reinhold Engineering & Plastics Co., Inc. End connector embedded in a rigid non-metallic tube. 2,882,072, 4-14-59, Cl. 285-114.
- Noland, Wayne B., to Woodford Mfg. Co. Means for multiple positioning of wheel. 2,880,431, 4-7-59, Cl. 14-72.
- Nolde, George V., and J. A. Brustman, to Radio Corp. of America. Information storage apparatus. 2,918,656, 12-22-59, Cl. 340-173.
- Nolden, William F., and C. F. Robbins, to Cutler-Hammer, Inc. Manually operated rotary selector switches. 2,878,368, 3-17-59, Cl. 200-16.
- Nolden, William F., and C. F. Robbins, to Cutler-Hammer, Inc. Mounting and operating means for electric switch mechanisms. 2,896,034, 7-21-59, Cl. 200-16.
- Nolden, William F., and E. W. Seeger, to Cutler-Hammer, Inc. Solenoid construction. 2,901,276, 8-25-59, Cl. 287-100.
- Nolden, William F., and C. F. Robbins, to Cutler-Hammer, Inc. Operating means for electric circuit controlling devices. 2,908,776, 10-13-59, Cl. 200-4.
- Noli Mfg. Co., The: *See*—  
Fernsten, Argyle L. and C. D. 2,890,642.
- Hatcher, Robert L. 2,909,113.
- Nolt, Edwin B., to Sperry Rand Corp. Adjustable wind-guard for baler pick-up. 2,872,772, 2-10-59, Cl. 56-384.
- Nolt, Edwin B. Hay baler infeed mechanism. 2,884,850, 5-5-59, Cl. 100-142.
- Nolt, Edwin B., and E. J. Haupt, to Sperry Rand Corp. Hay baler. 2,897,748, 8-4-59, Cl. 100-4.
- Nolte, Albert C.: *See*—  
Proctor, Barton. 2,884,256.
- Musgrave, Barrington L. 2,889,439.
- Nolte, Albert C., Jr. Knife for cutting English muffins. 2,907,108, 10-6-59, Cl. 30-353.
- Nolte, Albert C., Sr.: *See*—  
Kruesi, Geoffrey G. 2,910,693.
- Nolte, Arthur C.: *See*—  
Pabst, Carl F., and Nolte. 2,916,018.
- Nolte, Claude B., to Barton Instrument Corp. Vented seal. 2,917,081, 12-15-59, Cl. 137-791.
- Nolte, Henry J., to General Electric Co. Metalizing ceramics. 2,904,456, 9-15-59, Cl. 117-212.
- Noltin, Frederick, and A. J. Martino, to The Oscar C. Rixson Co. Hold-open means for automatic door closing apparatus. 2,887,194, 5-19-59, Cl. 189-49.
- Nomar Arms, Inc.: *See*—  
Nomar, Louis N. 2,900,878.
- Nomar, Louis N., to Nomar Arms, Inc. Toggle breech block locking means for a gas piston operated gun. 2,900,878, 8-25-59, Cl. 89-189.
- Nomarski, Georges, and P. Rousseau, to Centre Nationale de la Recherche Scientifique. Catadioptric objectives. 2,916,966, 12-15-59, Cl. 88-57.
- Nominé, Gérard: *See*—  
Barthelemy, Pierre, Penasse, and Nominé. 2,879,203.
- Barthelemy, Pierre, Penasse, and Nominé. 2,879,204.
- Joly, Robert, Nominé, and Bertin. 2,888,473.
- Warnant, Julien, Nominé, and Rousseau. 2,894,960.
- Nomine, Gerard T.: *See*—  
Mathieu, Jean B., and Nomine. 2,903,447.
- Nommensen, Erwin W., to Esso Research and Engineering Co. Hydrotreating hydrocarbon solvents to improve odor and color. 2,916,445, 12-8-59, Cl. 208-264.
- Nonnamaker, William M., to The Firestone Tire & Rubber Co. Valve construction. 2,905,221, 9-22-59, Cl. 152-341.
- Nonnenmacher, Helmut, W. Oettinger, and O. Reitz, to Badische Anilin- & Soda-Fabrik Akt. Catalytic pressure refining of hydrocarbons of low boiling point in the presence of a mixture of CO and hydrogen. 2,884,370, 4-28-59, Cl. 208-97.
- Nonomaque, Clyde J., to General Electric Co. Refrigerating system including a hot gas defrosting circuit. 2,895,307, 7-21-59, Cl. 62-156.
- Nonomaque, Clyde J., to General Electric Co. Hot gas defrosting refrigerating system. 2,907,181, 10-6-59, Cl. 62-156.
- Noodleman, Samuel, to The Standard Dayton Corp. Magnetic clutch. 2,890,356, 6-9-59, Cl. 310-105.
- Noonan, Charles B.: *See*—  
Leahy, James F., and Noonan. 2,890,481.
- Noorlander, Daniel O.: *See*—  
Schalm, Oscar W., and Noorlander. 2,896,573.
- Nopco Chemical Co.: *See*—  
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- Cunder, Joseph, and Licata. 2,887,457.
- De Castro, Arthur, Lighthipe, and Groll. 2,868,734.
- Ely, Charles M., and Foy. 2,899,308.
- Grassetti, Davide R., and Klein. 2,891,986.
- Grassetti, Davide R., and Klein. 2,913,487.
- Hunter, Joseph, Kelley, and Nothum. 2,918,428.
- Klein, Howard C. 2,907,796.
- Klein, Howard C., Di Salvo, and Kapp. 2,870,198.
- Lighthipe, Charles H., and Leupold. 2,876,205.
- Spiegel, Israel, and Schneider. 2,895,971.
- Norborn, Ragnar A., to Fruit Growers Express Co. Pneumatic material handling apparatus. 2,897,007, 7-28-59, Cl. 302-52.
- Norconk, William A.: *See*—  
Hostetler, Charles P., and Norconk. 2,905,344.
- Nord, Gustav J. Fabrication of products from agave lechuguilla. 2,896,267, 7-28-59, Cl. 19-8.
- Nord, Gustav J. Process for the treatment of the genus amaryllidacea liliacea and related species. 2,897,192, 7-28-59, Cl. 260-210.5.
- Norda Essential Oil and Chemical Co.: *See*—  
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- Chodroff, Saul, Saldarini, and Tracy. 2,906,663.
- Nordahl, Harold F. Heat sensitive shut-off valve. 2,893,413, 7-7-59, Cl. 137-75.
- Nordberg Mfg. Co.: *See*—  
Becker, George D. Re. 24,754.
- Becker, George D. 2,878,082.
- Beyerstedt, John M., and Erickson. 2,894,419.
- Broman, John S. 2,916,219.
- Chapman, Everett. 2,907,648.
- Froehlich, Kurt. 2,914,041.
- Gruender, Oscar C. 2,917,247.
- Talboys, Henry H. 2,887,066.
- Werner, Ewald. 2,913,189.
- Werner, Ewald. 2,916,218.
- Nordberg, Martin E., to Corning Glass Works. Aperture mask treatment to prevent cathode poisoning. 2,908,338, 10-13-59, Cl. 313-85.
- Nordby, Roger M., to Zenith Radio Corp. High voltage connector. 2,882,430, 4-14-59, Cl. 313-64.
- Nordgren, Sven-Ake, to Vibro-Plus Corp. Arrangement in pendulum vibrators. 2,881,620, 4-14-59, Cl. 74-89.
- Nordell, Carl H. Valve stem seal. 2,912,266, 11-10-59, Cl. 286-31.
- Nordell, Carl H. Transfer and comminuting device. 2,918,171, 12-22-59, Cl. 210-159.
- Norden, Alexander R.: *See*—  
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- Norden, Alexander R., to Federal Electric Products Co. Solderless lug. 2,885,654, 5-5-59, Cl. 339-272.
- Nordette, Inc.: *See*—  
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- Nordgren, Robert, to General Mills, Inc. Process for the purification of alkylamino propionate salts. 2,876,259, 3-3-59, Cl. 260-534.
- Nordin, Obert L.: *See*—  
Loeffler, John E., and Nordin. 2,887,118.
- Nordin, Obert L., to Thornhill-Craver Co., Inc. Strainers. 2,889,048, 6-2-59, Cl. 210-409.
- Nordin, Obert L., to Thornhill-Craver Co., Inc. Colorimeter apparatus. 2,896,502, 7-28-59, Cl. 88-14.
- Nordischer Maschinenbau Rhd. Baader: *See*—  
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- Schlichting, Karl F. 2,887,715.
- Schlichting, Karl F. 2,893,052.



- Nordmark, Walter E.: *See*—  
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- Nordmark, Walter E., and J. R. Shore, to American Seating Co. Furniture glide. 2,885,719, 5-12-59, Cl. 16-42.
- Nordmark-Werke Gesellschaft mit beschränkter Haftung: *See*—  
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- Nordquist, George: *See*—  
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- Nordquist, Richard A., R. C. Miller, J. R. Bukosky, and H. W. Lindgren, to Penta Inc. Casing for lighting device. 2,889,450, 6-2-59, Cl. 240-10-65.
- Nordquist, Richard A., R. C. Miller, J. R. Bukosky, and H. W. Lindgren, to Penta Inc. Set up gauge. 2,898,685, 8-11-59, Cl. 33-170.
- Nordquist, Robert G., to Patent License Corp. Multi-reflex reading light unit. 2,888,551, 5-26-59, Cl. 240-7-35.
- Nordquist, Robert G., to Patent License Corp. Decorative spotlight. 2,914,658, 11-24-59, Cl. 240-7-35.
- Nordquist, Ronald E. J., to American Can Co. Can body-maker. 2,883,956, 4-28-59, Cl. 113-8.
- Nordquist, Ronald E. J., to American Can Co. Sheet side gauging apparatus. 2,893,731, 7-7-59, Cl. 271-49.
- Nordquist, Ronald E. J., and H. T. Odquist, to American Can Co. Apparatus for detecting containers having mismatched parts. 2,880,328, 3-31-59, Cl. 250-223.
- Nordquist, Ronald E. J., to American Can Co. Can opener. 2,916,817, 12-15-59, Cl. 30-4.
- Nordrum, Richard C., and D. Walaskay, to Ford Motor Co. Crash pad speaker grille. 2,904,122, 9-15-59, Cl. 180-90.
- Nordsell, Thaddeus A.: *See*—  
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- Nordson Pharmaceutical Laboratories, Inc.: *See*—  
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- Nordstrom, Fritz G.: *See*—  
Jalar, Borje F., and Nordstrom. 2,904,044.
- Nordstrom, Gordon J., and J. W. Smith, to Collins Radio Co. Discriminator circuit. 2,901,604, 8-25-59, Cl. 250-27.
- Nordstrom, Henry A.: *See*—  
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- Nordt, Herbert: *See*—  
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- Norell, Karl T., to Aktiebolaget Bofors. Method of crystallizing nitro products. 2,874,196, 2-17-59, Cl. 260-645.
- Norell, Karl T., to Aktiebolaget Bofors. Separator for filtering out solids. 2,909,286, 10-20-59, Cl. 210-408.
- Norem, Stanley D., to The Perkin-Elmer Corp. Multiple mode recording system. 2,904,384, 9-15-59, Cl. 346-23.
- Noren, Hilmer K.: *See*—  
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- Noren, Mauritz F.: *See*—  
Haerther, William W., Jr., and Noren. 2,873,813.
- Noren, Tore H.: *See*—  
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Federighi, George J., and Noren. 2,910,075.
- Noren, Tore M. I., to Elektriska Svetsningsaktiebolaget. Weld metal deposits and arc welding electrodes for producing the same. 2,871,552, 2-3-59, Cl. 29-194.
- Noren, Tore M. I. Hard facing weld metal deposits. 2,888,344, 5-26-59, Cl. 75-128.
- Norén, Tore M. I., to Elektriska Svetsningsaktiebolaget. Arc welding electrodes. 2,888,371, 5-26-59, Cl. 117-207.
- Norfolk, Edgar A., Jr. Variable speed drive. 2,890,924, 6-9-59, Cl. 346-113.
- Norgaard, Erika C.: *See*—  
Norgaard, Jorgen H. and E. C. 2,869,338.
- Norgaard, Jorgen H. and E. C.: said E. C. Norgaard assor. to said J. H. Norgaard. Earring having two engaging spring biased parts. 2,869,338, 1-20-59, Cl. 63-12.
- Norgren, C. A., Co.: *See*—  
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Friedell, Morley V. 2,912,064.  
Friedell, Morley V. 2,915,605.  
Wilson, Jesse A., Jr. 2,918,075.
- Norland, Robert E., and J. Nasser, to Johnson & Johnson. Method of preventing distortion or change of shape in pressure sensitive adhesive tapes. 2,903,379, 9-8-59, Cl. 117-68.5.
- Norlin, Francis E., to Borg-Warner Corp. Pressure loaded pump. 2,915,981, 12-8-59, Cl. 103-126.
- Norlindh, Sven E. M.: *See*—  
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- Norlindh, Sven E. M., to Morgardshammars Mekaniska Verkstads AB. Emergency release coupling. 2,885,046, 5-5-59, Cl. 192-56.
- Norma-Hoffmann Bearings Corp.: *See*—  
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- Normacem, Societe Anonyme: *See*—  
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- Normalair Ltd.: *See*—  
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Smith, Frank R. 2,902,916.
- Norman, Clarence: *See*—  
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- Norman, Einar. Ships' bumpers. 2,874,669, 2-24-59, Cl. 114-219.
- Norman, Geoffrey B. Extrusion-consolidation die. 2,902,715, 9-8-59, Cl. 18-12.
- Norman, Glenn E. Method of producing a pre-fabricated tile receptor for shower cabinet. 2,875,475, 3-3-59, Cl. 18-61.
- Norman, Harry H.: *See*—  
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- Norman, Horace M., and H. R. A. Hansen, to The Louis Allis Co. Metadyne drive arrangement. 2,899,617, 8-11-59, Cl. 318-154.
- Norman, Joseph W., to Smith and Wesson Inc. Adjustable trigger spring. 2,871,604, 2-3-59, Cl. 42-69.
- Norman, Joseph W., to Smith and Wesson Inc. Firearm barrel latch. 2,887,810, 5-26-59, Cl. 42-75.
- Norman, Oscar L., to International Minerals & Chemical Corp. Synthesis of glutamic acid. 2,900,391, 8-18-59, Cl. 260-326.3.
- Norman, Reece G., to J. S. Crowder. Automatic braking device. 2,907,415, 10-6-59, Cl. 188-151.
- Norman, Richard M., and R. W. Powell, to National Automatic Tool Co. Inc. Molding machine ram and valve construction. 2,878,648, 3-24-59, Cl. 60-97.
- Norman, Richard M., R. W. Powell, and K. E. Sherer, to National Automatic Tool Co., Inc. Injection molding machine. 2,896,257, 7-28-59, Cl. 18-30.
- Norman, William N., to Futorian Corp. Sofa bed construction. 2,878,491, 3-24-59, Cl. 5-37.
- Normand Chemical Process Corp.: *See*—  
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- Normand, Joseph S., to Normand Chemical Process Corp. Process of treating oil and gas wells to increase production. 2,871,948, 2-3-59, Cl. 166-222.
- Normandin, William O. Manufacture of gusset type envelopes. 2,899,874, 8-18-59, Cl. 93-62.
- Normant, Henri, to Societe des Usines Chimiques Rhone-Poulenc. Production of glycol monoethers. 2,916,520, 12-8-59, Cl. 260-611.
- Normant, Henri, and P. Perrin, to Societe des Usines Chimiques Rhone-Poulenc. Process for preparing methyl magnesium compounds by reacting dimethyl sulfate with magnesium. 2,915,566, 12-1-59, Cl. 260-665.
- Normant, Robert T., to International Ferment Machinery Co., Inc. Means for safely exhausting hot gases. 2,870,862, 1-27-59, Cl. 183-25.
- Normington, James B.: *See*—  
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- Norrie, Robert C., to Kenworth Motor Truck Co., Division of Pacific. Suspension of axle in vehicles employing air-spring. 2,891,786, 6-23-59, Cl. 267-11.
- Norrie, Robert C., to Pacific Car and Foundry Co. Low-profile shift link for cab-over-engine vehicle. 2,896,469, 7-28-59, Cl. 74-473.
- Norrie, Robert C., to Pacific Car and Foundry Co. Vehicle suspension using air spring. 2,913,252, 11-17-59, Cl. 280-104.5.
- Norris, Bevitt J., to International Telephone and Telegraph Corp. Synchronous clamping. 2,870,259, 1-20-59, Cl. 179-15.
- Norris, Bevitt J., to International Telephone and Telegraph Corp. Timing circuits. 2,892,083, 6-23-59, Cl. 250-27.
- Norris, Charles E., to Westinghouse Air Brake Co. Valve device having arrangement for preventing extrusion of O-ring seals on valve element. 2,899,939, 8-18-59, Cl. 121-46.5.
- Norris, Charles R. Swab line connection with frangible element. 2,889,162, 6-2-59, Cl. 287-125.
- Norris, Clarence W. Cutting chain lug and bit. 2,890,035, 6-9-59, Cl. 262-33.
- Norris Dispensers, Inc.: *See*—  
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- Norris, Edward O. Spraying apparatus. 2,901,177, 8-25-59, Cl. 239-15.
- Norris, Edward O. Spraying apparatus. 2,901,178, 8-25-59, Cl. 239-15.
- Norris, Frank A., to Swift & Co. Color improvement of cottonweed oil. 2,915,538, 12-1-59, Cl. 260-423.
- Norris, James C., W. E. Abel, and W. C. Brown, to General Motors Corp. Ignition device. 2,913,543, 11-17-59, Cl. 200-31.
- Norris, James P. Method of finishing wood surfaces. 2,908,590, 10-13-59, Cl. 117-64.
- Norris, John B.: *See*—  
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- Norris, Richard H., to New Method Steel Stamps, Inc. End-stamping die. 2,893,309, 7-7-59, Cl. 101-7.
- Norris, Scott A., Jr.: *See*—  
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- Norris, Virgil R.: *See*—  
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- Norrish, Ronald G. W.,  $\frac{1}{2}$  to The Distillers Co. Ltd. Graft copolymers. 2,902,420, 9-1-59, Cl. 204-153.
- Norrish, Ronald G. W.,  $\frac{1}{2}$  to The Distillers Co. Ltd. Photopolymerisation process. 2,902,421, 9-1-59, Cl. 204-153.
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- North, Daniel A.: *See*—  
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- North, Edwin W., and W. B. Wilson, to National Lock Co. Key lock construction. 2,871,047, 1-27-59, Cl. 292-169.



## North Electric Co.: See—

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## North and Judd Mfg. Co.: See—

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 Alkire, Innis D. 2,875,917.  
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Alvord, Charles C. 2,894,360.  
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Ault, Neil N. 2,882,174.  
Bibbins, Gareth L. 2,906,007.  
Coes, Loring, Jr. 2,867,060.  
Coes, Loring, Jr. 2,876,072.  
Coes, Loring, Jr. 2,889,666.  
Comstock, George E., 3d. 2,867,759.  
Comstock, George E., 3d. 2,871,177.  
Comstock, George E., 3d. 2,880,407.  
Comstock, George E., 3rd. 2,882,745.  
Comstock, George E., 3d, and Kasparson. 2,915,918.  
Hill, Oiva E. 2,895,265.  
Hill, Oiva E. 2,897,639.  
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Hill, Oiva E. 2,907,315.  
Irany, Ernest P. 2,892,811.  
Martin, Dana W. 2,887,828.  
Silven, Herbert A. 2,893,171.  
Silven, Herbert A., and Mader. Re. 24,744.  
Smith, Ian B. 2,877,105.  
Webber, Charles S. 2,876,087.  
Whittemore, Osgood J., Jr. 2,876,122.
- Norton, Harry M. : *See*—  
Lauterbach, Herbert G., and Norton. 2,908,064.
- Norton, James A., to General Motors Corp. Oil filter coating. 2,875,899, 3-3-59, Cl. 210-75.
- Norton, James H. : *See*—  
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- Norton, James H., and S. B. Baker, to Esso Research and Engineering Co. High temperature lubricating greases. 2,898,300, 8-4-59, Cl. 252-49.9.
- Norton, Mahlon H., to Petcar Research Corp. Short circuit and grounding indicator for flame detector systems. 2,907,016, 9-29-59, Cl. 340-255.
- Norton, Ralph S., to McGraw-Edison Co. Apparatus and method for determining phase angles. 2,880,391, 3-31-59, Cl. 324-89.
- Norton, Robert L., to Penta Laboratories, Inc. Electron discharge device. 2,898,504, 8-4-59, Cl. 313-299.
- Norton, Samuel H., to Thompson Ramo Wooldridge Inc. Method of manufacturing connecting rod bearings. 2,904,874, 9-22-59, Cl. 29-149.5.
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- Norton, Samuel H., to Thompson Ramo Wooldridge Inc. Vehicle leveling valve. 2,913,004, 11-17-59, Cl. 137-596.



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- Norton, William H., to Thermel, Inc. Temperature controlled press. 2,874,751, 2-24-59, Cl. 154-1.
- Norton, William H., to Thermel, Inc. Heating assembly and method of production thereof. 2,875,312, 2-24-59, Cl. 219-19.
- Norton, William H. Heating surface. 2,915,613, 12-1-59, Cl. 219-44.
- Norvell, William E. Bolter drive mechanism. 2,914,176, 11-24-59, Cl. 209-366.5.
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Gever, Gabriel. 2,908,689.  
Howard, John C. 2,906,752.  
Michels, Julian G. 2,898,335.  
Natt, Michael P. 2,890,982.
- Norwood, Donald H.: *See*—  
Norwood, Donald W. 2,913,955.
- Norwood, Donald W. Exposure calculator for flashlight photography. 2,870,670, 1-27-59, Cl. 88-2.4.
- Norwood, Donald W., to D. H. Norwood, trustee. Direct reading light meter and light valve unit therefor. 2,913,955, 11-24-59, Cl. 88-23.
- Norwood, John W. Overhead traveling cranes. 2,872,050, 2-3-59, Cl. 212-12.
- Norwood, Richard T.: *See*—  
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- No-Sag Spring Co.: *See*—  
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Hopkes, Henry, Jr. 2,908,918.  
Sprang, William O. 2,902,060.
- Nosal, Paul: *See*—  
Curtis, Richard C., and Nosal. 2,917,578.
- Nosco Plastics, Inc.: *See*—  
Cloyd, Harold S., and Kufner. 2,919,055.
- Nossen, Edward J., to Minneapolis-Honeywell Regulator Co. Control apparatus with process analog. 2,874,906, 2-24-59, Cl. 236-15.
- Nossen, Ernest S., and R. E. Parks, to Alscope Explorations, Ltd. Process for the preparation of alloys. 2,919,189, 12-29-59, Cl. 75-135.
- Nostrand, Elbert D.: *See*—  
Lovett, William E., and Nostrand. 2,918,359.
- Nostrant, Robert F.: *See*—  
Bretsch, Michael A., and Nostrant. 2,891,187.
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- Nothum, William: *See*—  
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- Nottebrock, Heinrich, to J. Weber. Simplified extractor apparatus. 2,907,641, 10-6-59, Cl. 23-272.6.
- Nottelmann, John F., and P. Lebenbaum, Jr., to General Electric Co. Conduit box adapter. 2,916,177, 12-8-59, Cl. 220-3.7.
- Nottes, Guenther: *See*—  
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- Notzold, Fritz: *See*—  
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- Nourse, Robert A. Safety device for hydraulic systems. 2,889,903, 6-9-59, Cl. 192-1.
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- Nova-Cast Inc.: *See*—  
Jazwinski, Stanislaw T. 2,894,834.
- Novacel: *See*—  
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- Novak, Leo J., to The Commonwealth Engineering Co. of Ohio. Dusting powder including salts of carboxymethyl dextran. 2,876,165, 3-3-59, Cl. 167-92.
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- Novak, Warren D., to General Electric Co. Object positioning apparatus with electric sensing means. 2,878,873, 3-24-59, Cl. 164-117.
- Novak, Warren D., to General Precision Laboratory Inc. Rotary motion storage device. 2,917,928, 12-22-59, Cl. 74-1.
- Novalis, William H. Shelving clip and upright. 2,905,425, 9-22-59, Cl. 248-243.
- Novello, Frederick C., to Merck & Co., Inc. 8-methyl-5-oxyphenyl hexahydroindan compounds. 2,886,589, 5-12-59, Cl. 260-476.
- Novello, Frederick C., to Merck & Co., Inc. 6 nitro, 7 sulfamyl-benzothiadiazine-1,1-dioxides. 2,910,473, 10-27-59, Cl. 260-243.
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- Novelo, John, to Waljohn Plastics, Inc. Handle for luggage and the like. 2,915,998, 12-29-59, Cl. 190-57.
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- November, Milton H., to Breeze Corporations, Inc. Metal convolution tubing. 2,876,801, 3-10-59, Cl. 138-50.
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- Novion, Armand: *See*—  
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- Novivlas N.V.: *See*—  
Selling, Hendrik J., and Bok. 2,901,776.
- Novkov, Raymond E.: *See*—  
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Juncher, Henning O. 2,882,902.  
Petersen, Karl, Schlichtkrull, and Hallas-Möller. 2,882,202.  
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Ullman, Fred E., Klopfenstein, and Novotny. 2,894,361.
- Novotny, Milton A. Discharge control apparatus for powder fire extinguisher. 2,904,305, 9-15-59, Cl. 251-175.
- Novotny, Raymond J.: *See*—  
Benson, Ralph A. 2,870,570.  
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- Novy, Louis E., to United States of America, Air Force. Composition containing poly-1, 1-dihydroxyperfluorobutyl acrylate, silicon dioxide, carbon black and curing agent. 2,900,355, 8-18-59, Cl. 260-28.5.
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- Nowack, Rudi, and W. Bachmann, to Westinghouse-Bremsen-Gesellschaft, m.b.H. Fluid pressure operated rotation responsive control device. 2,885,171, 5-5-59, Cl. 251-13.
- Nowacki, Hans J., H. Schackmann, W. Teworte, and P. Vossel, to Duisburger Kupferhütte. Method for the separation of impurities from cobalt-containing materials. 2,879,158, 3-24-59, Cl. 75-82.



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- Noyes, Howard: See—
- Moorman, Edward W., and Noyes. 2,917,568.
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- Nugent, Charles T.: See—
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- Nyman, Alexander, and Null. 2,903,204.
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- Nunamaker, Harry G.: See—
- Dryer, Robert L., Routh, and Nunamaker. 2,907,638.
- Nunamaker, James A.: See—
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- Nussbaumer, Ernst A., to Grovar, Inc. Differential drive. 2,917,948, 12-22-59, Cl. 74-687.
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- Nutone, Inc.: *See*—  
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- Nutting, Lee, R. M. Silverstein, and C. M. Himel, to Hills Bros. Coffee, Inc. 2-benzofurfuryl isothiocyanate. 2,905,701, 9-22-59, Cl. 260-346.2.
- Nutting, Robert G., and R. F. Windstrup, to United States of America, Army. Drop lock bolt for gun. 2,868,082, 1-13-59, Cl. 89-190.
- Nuut, August, to Hymac Corp. Servo controller circuit. 2,883,618, 4-21-59, Cl. 324-62.
- Nyberg, Curt E., to Whirlpool Corp. Vacuum cleaner. 2,875,466, 3-3-59, Cl. 15-325.
- Nyberg, James J., to Thompson Ramo Wooldridge Inc. Superconductive logical circuits. 2,877,448, 3-10-59, Cl. 340-173.
- Nyberg, John C.: *See*—  
Brown, George W., Cartwright, Hutter, McCann, Nyberg, Skeirik, and Krag. 2,909,968.
- Nyberg, Magnus N., to Hydraulic Elevator & Machine Co., Inc. Automatic elevator control. 2,913,070, 11-17-59, Cl. 187-29.
- Nyborg, Meredith M. Reaction motor with liquid cooling means. 2,900,168, 8-18-59, Cl. 257-246.
- Nycander, Sven H., to Internationella Soporax AB. Ventilated facade insulation. 2,899,821, 8-18-59, Cl. 72-18.
- Nyden, Robert. Boxes having flexibly hinged covers. 2,867,371, 1-6-59, Cl. 229-44.
- Nye, Dudley D., Jr., and F. L. Maltby, to Robershaw-Fulton Controls Co. Scanning control system. 2,885,576, 5-5-59, Cl. 307-149.
- Nye, Norman H., and A. J. Ruggles; said Nye assor. to Pen-Mac-Nye Co. Rain cape. 2,911,651, 11-10-59, Cl. 2-84.
- Nye, Robert G. Protective shields for electronic devices. 2,883,446, 4-21-59, Cl. 174-35.
- Nye, Robert G. Propeller noise simulator. 2,898,587, 8-4-59, Cl. 340-384.
- Nye, Robert G., E. E. McCown, and R. H. Harwood. Repairable plug-in package unit. 2,903,626, 9-8-59, Cl. 317-101.
- Nygard, John C., to High Voltage Engineering Corp. Electron irradiation apparatus. 2,887,584, 5-19-59, Cl. 250-49.5.
- Nygard, John C., to High Voltage Engineering Corp. Corrugated waveguide. 2,892,958, 6-30-59, Cl. 315-542.
- Nygren, Ernest J.: *See*—  
Firnhaber, Miles S., and Nygren. 2,874,406.
- Nylander, Alfred F.: *See*—  
Dancy, William B., and Nylander. 2,900,227.
- Nylin, Nels E.: *See*—  
Conway, Carle C., III, and Nylin. 2,876,745.
- Nylongre Corp.: *See*—  
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- Nylund, John A., and F. J. Miebe. Combination drum and belt sanding surfacing machines. 2,895,262, 7-21-59, Cl. 51-137.
- Nyman, Alexander, to Alden Products Co. Light-transmitting apparatus. 2,888,516, 5-26-59, Cl. 178-7.6.
- Nyman, Alexander, and F. E. Null. Heat seeker with proportional control. 2,903,204, 9-8-59, Cl. 244-14.
- Nyman, Carl O., to United States of America, Air Force. Battery watering device. 2,892,473, 6-30-59, Cl. 141-94.
- Nyquist, Frederick W.: *See*—  
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- Nyrop, Johan E., to Niro Corp. Liquid atomizers. 2,902,223, 9-1-59, Cl. 239-223.
- Nys, Louis J. G.: *See*—  
Kruithof, Jakob, Nys, and Donceel. 2,892,134.
- Nysco Laboratories, Inc.: *See*—  
Smedresman, Max. 2,878,160.
- Nyselius, Gustav. Means for controlling the operation of die casting apparatus automatically and in timed relation. 2,896,279, 7-28-59, Cl. 22-68.
- Nyselius, Gustav, to Mt. Vernon Die Casting Corp. Means for control assembly for the air vent of a die cavity. 2,914,822, 12-1-59, Cl. 22-68.
- Nystrand, Ernst D., to Paper Converting Machine Co., Inc. Web winding mandrel. 2,901,192, 8-25-59, Cl. 242-75.5.
- Nystrom, Arthur W. Safety car block. 2,895,569, 7-21-59, Cl. 188-32.
- Nystrom, Carl H.: *See*—  
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- Nystrom, Carl H., to American Bosch Arma Corp. Fuel injection nozzles. 2,874,000, 2-17-59, Cl. 299-107.6.
- Nystrom, Carl H., to American Bosch Arma Corp. Fuel injection apparatus. 2,893,366, 7-7-59, Cl. 123-140.
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- O. K. Tool Co., Inc.: *See*—  
Williams, Thurston V. 2,909,955.
- O & M Machine Co., Inc.: *See*—  
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- OPW Corp.: *See*—  
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- Martin, Fred L. 2,906,302.
- O & S Bearing & Mfg. Co.: *See*—  
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- Oak Mfg. Co.: *See*—  
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- Gelzer, John R. 2,870,275.
- Gelzer, John R. 2,870,276.
- Howell, Hugh A. 2,894,094.
- Loverde, Lawrence V. 2,906,836.
- Mastney, Edward J., and Williams. 2,911,834.
- Pariso, Wilbert, and Dolosh. 2,887,889.
- Schwarzenbach, Earl E., and Streuer. 2,876,301.
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Probasco, Harold T. 2,880,906.
- Oakes, Billy D.: *See*—  
Foster, Gerald L., and Oakes. 2,880,180.
- Oakes, E. T. Corp.: *See*—  
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- Oakes, Edwin C. Covering for desk top and the like. 2,901,861, 9-1-59, Cl. 45-68.3.
- Oakes, George W. Electrical plug detacher. 2,908,968, 10-20-59, Cl. 29-268.
- Oakes, Gladys J. Beverage brewing apparatus. 2,906,192, 9-29-59, Cl. 99-282.
- Oakes, Lester C.: *See*—  
Epler, Elbert P., Hanauer, and Oakes. 2,911,344.
- Fox, Richard J., and Oakes. 2,881,619.
- Oakes, Lester C., and C. S. Walker, to United States of America, Atomic Energy Commission. Neutronic reactor control rod drive apparatus. 2,917,445, 12-15-59, Cl. 204-193.2.
- Oakes, Marvin E., and K. L. Racely, to Dover Corp. Constant force mechanism. 2,906,524, 9-29-59, Cl. 267-1.
- Oakes, Murray. Token controlled dispenser. 2,907,435, 10-6-59, Cl. 194-4.
- Oakes, William: *See*—  
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- Oakes, William E. Supply maintenance device for engines. 2,881,798, 4-14-59, Cl. 137-565.
- Oakes, William E. Engine air cut-off device. 2,884,222, 4-28-59, Cl. 251-73.
- Oakes, William G., to Imperial Chemical Industries Ltd. Mixtures of polyethylenes having different melt viscosities and process of preparing same. 2,868,762, 1-13-59, Cl. 260-45.5.
- Oakley, Charles B.: *See*—  
Rhodes, Roland N., and Oakley. 2,896,018.
- Oakley, Charles B., to Radio Corp. of America. D-C stabilized amplifiers. 2,901,534, 8-25-59, Cl. 178-5.4.
- Oakley, Charles B., and R. N. Rhodes, to Radio Corp. of America. Color television apparatus. 2,894,061, 7-7-59, Cl. 178-5.4.
- Oakley, Elmore, to Perfex Gage and Tool Co. Gaging apparatus. 2,914,859, 12-1-59, Cl. 33-174.
- Oakley, Gilbert F.: *See*—  
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- Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Anchor for lading straps and the like. 2,870,722, 1-27-59, Cl. 105-369.
- Oakley, Gilbert F., to MacLean-Fogg Lock Nut Co. Multi-directional anchor for lading straps and the like. 2,876,712, 3-10-59, Cl. 105-369.
- Oakley, Joseph A. Centering batten for drydocking ships. 2,883,752, 4-28-59, Cl. 33-74.
- Oakley Products Co.: *See*—  
Oakley, Richard C. 2,902,067.
- Oakley, Richard C., to Oakley Products Co. Reciprocating saw. 2,902,007, 9-1-59, Cl. 143-68.
- Oakley, Sterling A. Electric heater and method of making the same. 2,890,320, 6-9-59, Cl. 219-58.
- Oaks, Orion O., and H. V. Scheel. Process for extracting sulphur. 2,915,369, 12-1-59, Cl. 23-308.
- Oaktron Electric Co.: *See*—  
Brown, Maurice H. 2,874,361.
- Oakwood, Elliott F.: *See*—  
Smith, Ernest F., Barragato, Oakwood, and Sage. 2,906,122.
- Oalsavick, Anna: *See*—  
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- Oates, Charles E., and M. S. Brunner, to Northrop Aircraft, Inc. Throttle control for use in a jet engine having an afterburner. 2,871,657, 2-3-59, Cl. 60-35.6.



- Oates, William M.: *See*—  
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- Oatey, L. R., Co., The: *See*—  
Kifer, David E. 2,904,354.
- Oathout, Richard W. Witter. 2,895,615, 7-21-59, Cl. 210—439.
- Oback, Nels E., and L. G. Stanley. Educational mechanical building toy. 2,885,793, 5-12-59, Cl. 35—13.
- O'Bannon, John B., 40% to B. L. Parker. Boat hull structure including plural air tank chambers. 2,869,149, 1-20-59, Cl. 9—3.
- O'Bannon, William: *See*—  
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- Obauer, Rudolf: *See*—  
Tarmann, Bruno, and Obauer. 2,871,557.
- Obedin, Nathan. Adjustable cloth feeding assembly for cloth spreading machines. 2,908,493, 10-13-59, Cl. 270—31.
- Obellianne, Pierre M. J.: *See*—  
Lantz, Robert L., and Obellianne. 2,906,587.
- Oberbeck, Helmut, to Firma Telefonken Gesellschaft Fur Drahtlose. Line section. 2,898,558, 8-4-59, Cl. 332—2.
- Oberdorfer, Paul E., Jr., to E. I. du Pont de Nemours and Co. Resurfacing of fiber-reinforced resinous articles. 2,887,366, 5-19-59, Cl. 41—41.
- Oberg, Fred N., and I. M. Le Baron, to United States of America. Atomic Energy Commission. Method of concentrating mineral values. 2,868,618, 1-13-59, Cl. 23—14.5.
- Oberg, John L., to Ab Asbrink & Co. Suction cleaning nozzles for street cleaning apparatus. 2,916,761, 12-15-59, Cl. 15—322.
- Oberg, Lois A.: *See*—  
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- Oberg, Paul E.: *See*—  
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- Obergfell, Hermann, to Badger Tool & Mfg. Co. Window cleaner. 2,904,806, 9-22-59, Cl. 15—105.
- Obergfell, Hermann, to Badger Tool & Mfg. Co. Window cleaner. 2,904,807, 9-22-59, Cl. 15—105.
- Oberhausen, Erich: *See*—  
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- Oberholtz, Lester E., and L. E. Allen, to Allis-Chalmers Mfg. Co. Variable speed change mechanism. 2,868,027, 1-13-59, Cl. 74—230.17.
- Oberholtzer, Robert E., to James Lees and Sons Co. Pile height control apparatus. 2,884,881, 5-5-59, Cl. 112—79.
- Oberkobusch, Rudolf: *See*—  
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- Oberle, Arthur, to Aktiengesellschaft Brown, Boveri & Cie. Regulating device for burner operating with simultaneous combustion of gaseous and liquid fuel. 2,884,758, 5-5-59, Cl. 60—39.46.
- Oberley, Alton F., and A. C. Darroch, to International Harvester Co. Valve seat puller. 2,876,533, 3-10-59, Cl. 29—263.
- Oberlin, Lyman M., to Phillips Petroleum Co. Flame responsive override control system including electric servomotors. 2,874,541, 2-24-59, Cl. 60—39.28.
- Oberlin, Lyman M., to Phillips Petroleum Co. Indicating and control system. 2,876,434, 3-3-59, Cl. 340—164.
- Oberlin, Lyman M., and E. W. Pitzer, to Phillips Petroleum Co. Dehydrogenation process and iron-chromium-calcium catalyst. 2,891,956, 6-23-59, Cl. 260—290.
- Oberlin, Ralph E., Jr., to Igelstroem-Oberlin, Inc. Sign structure. 2,899,764, 8-18-59, Cl. 40—125.
- Obermaier, Alfred A., to Illinois Testing Laboratories, Inc. Heater control circuits. 2,872,556, 2-3-59, Cl. 219—20.
- Obermaier, Alfred A., to Illinois Testing Laboratories, Inc. Dew-point detecting device. 2,904,995, 9-22-59, Cl. 73—17.
- Obermaier, Frank E., to The Dole Valve Co. Thermally operated control devices. 2,876,754, 3-10-59, Cl. 123—117.
- Oberman, Roelof M. M. Arrangement for the identification of special service apparatus required for connections in a telecommunication system. 2,876,286, 3-3-59, Cl. 179—18.
- Oberman, Roelof M. M., to De Staat der Nederlanden. Ten Deze Vertegenwoordigd Door de Directeur-Generaal des Posterijen, Telegrafie en Telefonie. Relay register. 2,885,480, 5-5-59, Cl. 179—18.
- Obermann, Gunter: *See*—  
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- Obermann, Gunter, to Vereinigte Aluminium-Werke Akt. Bus bar arrangement for large electrolytic cells. 2,872,404, 2-3-59, Cl. 204—244.
- Obermann, Walter. Method for cathodic protection of ship hulls in sea water by electron concentration. 2,878,173, 3-17-59, Cl. 204—147.
- Obermayer, S., Co., The: *See*—  
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- Obernolte, Russell E. Ice fishing equipment. 2,883,784, 4-28-59, Cl. 43—4.
- Oberrach, Antonio. Adjustable table. 2,877,074, 3-10-59, Cl. 311—36.
- Oberrender, Girard F.: *See*—  
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- Oberright, Edward A.: *See*—  
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- Oberwegner, Alfred R. Body lift. 2,918,718, 12-29-59, Cl. 27—28.
- Oberwelland, Hugo. Conveying and transfer mechanism. 2,884,114, 4-28-59, Cl. 198—24.
- Obes, Andrew N. Freight transfer terminal and transfer dolly. 2,896,548, 7-28-59, Cl. 104—48.
- Obes, Andrew N. Body supporting dolly for use in the transportation of freight. 2,896,552, 7-28-59, Cl. 105—215.
- Oblad, Alex G.: *See*—  
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- Obladen, Albert J., and M. K. Deutsch. Disinfectant compositions. 2,874,087, 2-17-59, Cl. 167—31.
- Oblazney, Joseph F. Rock-away horse. 2,910,303, 10-27-59, Cl. 280—1.177.
- O'Brien, George W., to Cook Electric Co. Time-delay relay. 2,867,754, 1-6-59, Cl. 317—142.
- O'Boyle, Charles M.: *See*—  
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- Obrebski, John, and N. V. Gusching, to The Monarch Machine Tool Co. Manifold. 2,871,886, 2-3-59, Cl. 138—87.
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- O'Brian, Edward D.: *See*—  
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- O'Brian, Edward D., to Bourns Laboratories, Inc. Variable resistor. 2,870,303, 1-20-59, Cl. 201—62.
- O'Brian, Edward D., to Bourns Laboratories, Inc. Adjustable electrical resistor. 2,870,804, 1-20-59, Cl. 201—62.
- O'Brian, Edward D. Toy water guns. 2,888,172, 5-26-59, Cl. 222—79.
- O'Brian, Edward D. and R. E. Confection structures. 2,903,365, 9-8-59, Cl. 99—138.
- O'Brian, Edward D. and R. E. Pork rind cooking process. 2,907,660, 10-6-59, Cl. 99—107.
- O'Brian, Robert E.: *See*—  
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- O'Brien, Albert S.: *See*—  
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- O'Brien, Brian: *See*—  
O'Brien, Brian, Jr., and Brian O'Brien. 2,868,070.
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- O'Brien, Daniel C. Carriage oscillating device. 2,888,086, 5-26-59, Cl. 180—1.
- O'Brien, Frank M., Jr., to Tycoon Finnor Corp. Guides for the fishing lines of fishing rods. 2,878,608, 3-24-59, Cl. 43—24.
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- O'Brien, J. George: *See*—  
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- O'Brien, James: *See*—  
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- O'Brien, James H.: *See*—  
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- O'Brien, James P.: *See*—  
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- O'Brien, James P., E. F. Stacey, and E. E. Yeo, to Sylvania Electric Products Inc. Lead-in wire positioning apparatus. 2,916,056, 12-8-59, Cl. 140—71.5.
- O'Brien, Jeremiah W., to United Engineering and Foundry Co. Miscut mechanism for flying shears. 2,878,869, 3-24-59, Cl. 164—68.
- O'Brien, Jeremiah W., to United Engineering and Foundry Co. Rolling mill coupling. 2,911,804, 11-10-59, Cl. 64—7.
- O'Brien, Jeremiah W., to United Engineering and Foundry Co. Apparatus for coiling strip material. 2,918,226, 12-22-59, Cl. 242—78.4.
- O'Brien, John F.: *See*—  
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- O'Brien, Joseph F.: *See*—  
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- O'Brien, Joseph, and H. J. Schneider, to Rohm & Haas Co. Process for preparing hydroxyalkyl acrylates and methacrylates. 2,877,264, 3-10-59, Cl. 260—486.
- O'Brien, Joseph P., to Standard Oil Co. Phthalic acid separation process. 2,897,232, 7-28-59, Cl. 260—525.
- O'Brien, Lester A.: *See*—  
Bland, Thomas W., and O'Brien. 2,867,793.
- O'Brien, Michael H., and R. D. Wellington, to General Motors Corp. Engine protective device. 2,894,502, 7-14-59, Cl. 123—198.
- O'Brien, Richard C., to Harris-Intertype Corp. Pneumatic digital to analog summing device. 2,889,109, 6-2-59, Cl. 235—61.
- O'Brien, Robert F.: *See*—  
Marvin, Edgar S., and O'Brien. 2,874,624.
- Marvin, Edgar S., and O'Brien. 2,908,209.
- O'Brien, William C. Supporting stand for telephone and lamp. 2,908,466, 10-13-59, Cl. 248—194.
- O'Brien, William M. Auxiliary terminal seal. 2,897,472, 7-28-59, Cl. 339—94.
- O'Brien, William P., to W. D. Allen Mfg. Co. Fire hose nozzle. 2,871,059, 1-27-59, Cl. 299—136.
- O'Brochta, John, to Koppers Co., Inc. Purification of 3-pyridine carboxylic acid. 2,916,494, 12-8-59, Cl. 260—295.5.
- O'Bryan, Joseph A. Artificial lure for fish. 2,906,051, 9-29-59, Cl. 43—35.
- Obst, Charles J. End construction for an expansion bracelet. 2,883,727, 4-28-59, Cl. 24—265.



- Obszarny, Theodore J.: *See—*  
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- O'Byrne, Brendan, to William Bywater Ltd. Driving mechanism of needle looms. 2,915,804, 12-8-59, Cl. 28-4.
- O'Callaghan, Jerome J., to The Rauland Corp. Cathode-ray tube manufacturing apparatus. 2,872,897, 2-10-59, Cl. 118-317.
- O'Cathey, Earl R., and J. L. Doonan. Conversion unit. 2,898,980, 8-11-59, Cl. 158-109.
- Ochs, Robert E., Jr., to Minneapolis-Honeywell Regulator Co. Flapper nozzle combination with a variable nozzle restriction. 2,915,078, 12-1-59, Cl. 137-85.
- Ochs, Robert E., Jr., and R. B. Watrous, to Minneapolis-Honeywell Regulator Co. Diaphragm mechanism. 2,874,713, 2-24-59, Cl. 137-85.
- Ochs, Robert E., Jr., to Minneapolis-Honeywell Regulator Co. Force balance controller. 2,882,916, 4-21-59, Cl. 137-82.
- Ochsner, Paul: *See—*  
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- Ochtman, Leonard, to Bendix Aviation Corp. Combined clutch and brake mechanism. 2,903,108, 9-8-59, Cl. 192-18.
- O'Connell, Donald L. Corsage holder. 2,879,567, 3-31-59, Cl. 24-5.
- O'Connell, Elaine A.: *See—*  
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- O'Connell, Harry E.: *See—*  
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- O'Connell, John J.: *See—*  
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- O'Connell, Patrick W.: *See—*  
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- O'Connell, Richard A., to United States of America. Agriculture. Preparation of bulky textiles. 2,895,286, 7-21-59, Cl. 57-156.
- O'Connell, Richard A., to United States of America. Agriculture. Production of non-woven fabrics. 2,900,291, 8-18-59, Cl. 154-101.
- O'Connor, Bernard E., and A. G. French, to Houdaille Industries, Inc. Variable displacement pump and pressure responsive control means therefor. 2,878,755, 3-24-59, Cl. 103-120.
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- O'Connor, Chadwell. Pan head. 2,905,421, 9-22-59, Cl. 248-183.
- O'Connor, Donald T.: *See—*  
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- O'Connor, Francis M.: *See—*  
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- O'Connor, George K. Scraper blade for road graders. 2,887,797, 5-26-59, Cl. 37-143.
- O'Connor, Harold R. Railway car window. 2,895,184, 7-21-59, Cl. 20-56.5.
- O'Connor, John B., to Illinois Tool Works. Method for making sheet material split-ring lock washers. 2,867,824, 1-13-59, Cl. 10-86.
- O'Connor, John B., to Lyon Metal Products, Inc. Locker wardrobe. 2,868,605, 1-13-59, Cl. 312-257.
- O'Connor, Joseph J. Device for removing truck tires from rims. 2,904,106, 9-15-59, Cl. 157-12.
- O'Connor, Michael J., and W. K. Detweiler, to Union Carbide Corp. Process for producing triorgano-phosphates. 2,868,827, 1-13-59, Cl. 260-461.
- O'Connor, Neal E., to General Motors Corp. Work tool. 2,898,712, 8-11-59, Cl. 51-170.
- O'Connor, Stephen F., to Western Electric Co., Inc. Electroplating rack. 2,916,431, 12-8-59, Cl. 204-297.
- O'Connor, Walter J.: *See—*  
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- "Oculus" Optikgerate G.m.b.H.: *See—*  
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- O'Day, Charles P., H. Leidenheimer, Jr., and H. P. Guilbeau, to I. D. Pipe Cutter Co., Inc. Pipe cutter. 2,915,819, 12-8-59, Cl. 30-103.
- O'Day, Cortland N. Directional control air diffuser. 2,891,461, 6-23-59, Cl. 98-40.
- Oddo, Rocco R.: *See—*  
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- Odegaard, John C., and H. Grobert, to Lumber Fabricators, Inc. Threshold. 2,872,714, 2-10-59, Cl. 20-64.
- Odell, Alexander D., and G. I. Turner, to International Standard Electric Corp. Electrical circuits employing transistors. 2,906,890, 9-29-59, Cl. 307-88.5.
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- O'Dell, Leonard J., to American Air Filter Co., Inc. Filter apparatus. 2,909,237, 10-20-59, Cl. 183-44.
- Odell, Norman R.: *See—*  
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- Odell, Norman R., and J. F. Lyons, to Texaco Inc. Lubricating greases thickened with metal salts of sulfonated hydroxy azo compounds. 2,908,644, 10-13-59, Cl. 252-33.2.
- Odell, Robert. Spreader and hitch therefor. 2,914,995, 12-1-59, Cl. 94-46.
- O'Dell, Thomas B.: *See—*  
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- Odell, William W. Treatment at elevated temperatures and/or carbonization of carbonaceous materials. 2,898,272, 8-4-59, Cl. 202-6.
- Oden, Clifford N., to G. Miller. Sliding door assembly. 2,893,071, 7-7-59, Cl. 20-19.
- Oden, Hoeckley, to International Standard Electric Corp. Circuit arrangement for time-zone meters. 2,887,536, 5-19-59, Cl. 179-7.1.
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- Odenkirchen, William W. Reaction propulsion device. 2,875,577, 3-3-59, Cl. 60-35.6.
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- Odermann, Donald P. Drapery heading. 2,868,286, 1-13-59, Cl. 160-348.
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- Odyssey, Paul H., to Polaroid Electronics Corp. Device for cleaning pots, pans and the like. 2,904,804, 9-22-59, Cl. 15-97.
- Odgers, William O.: *See—*  
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- Odierno, Silvio J.: *See—*  
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- Odin Corp.: *See—*  
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- Odin, Eugene, and N. Urquhart, to American Bosch Arma Corp. Torpedo director. 2,911,145, 11-3-59, Cl. 235-61.5.
- Odioso, Raymond C.: *See—*  
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- Odle, Herbert A., to Holophane Co., Inc. Direct lighting fixtures. 2,916,611, 12-8-59, Cl. 240-78.
- Odlozil, Henry W. Container rack. 2,908,396, 10-13-59, Cl. 211-71.
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- Odmark, Albert L.: *See—*  
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- O'Donnell, Thomas J., to United States of America, Atomic Energy Commission. Brake device. 2,876,867, 3-10-59, Cl. 188-67.
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- Oehler Development & Mfg. Corp.: *See—*  
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- Oehler, Roman S. Book hanger supports. 2,898,920, 8-11-59, Cl. 129-38.
- Oehler, William P.: *See—*  
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- Oehler, William P., and H. V. Hansen, to Deere & Co. Hopper mounting for fertilizer distributor. 2,906,436, 9-29-59, Cl. 222-164.



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- Oehlschlager, Herman F., Jr., to Emery Industries, Inc. Manufacture of cyanuric acid. 2,872,447, 2-3-59, Cl. 260-248.
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- Oelkers, Heinrich. Conveying system for dry cleaning and dyeing installations. 2,902,138, 9-1-59, Cl. 198-19.
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- Kindler, Karl, and Oelschlager. 2,905,670.
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- Storsand, Bjarne. 2,901,717.
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- Oertling, L. Ltd.: See—
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- Oesch, Joseph C. Trap anchor. 2,918,748, 12-29-59, Cl. 43-96.
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- Franceschini, Lorenzo. 2,869,446.
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- Offner, Franklin F. Light meter. 2,897,720, 8-4-59, Cl. 88-23.
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- Ofutt, William C.: See—
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- Oganowski, Kasimir, to Armco Steel Corp. Method and apparatus for continuously coating a metal strand-like article with molten metal. 2,914,419, 11-24-59, Cl. 117-7.
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- Ogden, Charles T., to Goodman Mfg. Co. Conveyor belt training assembly. 2,892,534, 6-30-59, Cl. 198-202.
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- Ogden, William M.: See—
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- Ogle, James A.: See—
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- Ogletree, William A., to Burroughs Corp. Voltage comparator. 2,892,940, 6-30-59, Cl. 250-27.
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- Ogren, Axel E.: See—
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- Olsen, Sigurd I. Locking mechanism for vulcanizing machines. 2,878,516, 3-24-59, Cl. 18-38.
- Olsen, Sigurd I. Antiskid tread for automobile tires. 2,908,312, 10-13-59, Cl. 152-209.
- Olsen, Zenny: *See*—  
Hayner, Paul F., and Olsen. 2,896,588.
- Olshansky, Eugene. Plant protecting device. 2,889,664, 6-9-59, Cl. 47-28.
- Olson, Alfred E., and W. C. Whren, to United States Steel Corp. Clutch assembly. 2,905,291, 9-22-59, Cl. 192-12.
- Olson, Alvin O. Lever-propelled, dent-removing hand tool. 2,911,866, 11-10-59, Cl. 81-15.
- Olson, August. Template-clamps for column mold forms. 2,891,590, 6-23-59, Cl. 144-291.
- Olson, Axel V. Combined flashlight and electric circuit tester. 2,899,638, 8-11-59, Cl. 324-53.
- Olson, Carl F., to Trico Products Corp. Windshield cleaner. 2,890,472, 6-16-59, Cl. 15-255.
- Olson, Carl F. Outboard motor stand and dolly. 2,916,292, 12-8-59, Cl. 280-47.13.
- Olson, Carl M.: *See*—  
Krchma, Ignace J., and Olson. 2,883,269.
- Olson, Carl M., to United States of America, Atomic Energy Commission. Reduction of plutonium values in an acidic aqueous solution with formaldehyde. 2,890,098, 6-9-59, Cl. 23-14.5.
- Olson, Carl M., to United States of America, Atomic Energy Commission. Chemical method of treating fissionable material. 2,902,340, 9-1-59, Cl. 23-14.5.
- Olson, Carl M., to E. I. du Pont de Nemours and Co. Titanium metal production. 2,917,440, 12-15-59, Cl. 204-64.
- Olson, Carl M., and J. N. Tully, to E. I. du Pont de Nemours and Co. Metal oxide production. 2,915,367, 12-1-59, Cl. 23-202.
- Olson, David C., to Lockheed Aircraft Corp. Engine work-stand and dolly. 2,904,331, 9-15-59, Cl. 269-136.
- Olson, Delwyn L.: *See*—  
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- Olson, Don G. Protective cover. 2,905,114, 9-22-59, Cl. 108-3.
- Olson, Earl R.: *See*—  
Laver, Edwin H., and Olson. 2,902,972.
- Olson, Earl R., and R. F. Vance, to Ohmite Mfg. Co. Method and apparatus for making film resistors. 2,885,310, 5-5-59, Cl. 117-227.
- Olson, Edgar W., to Preco Inc. Servo control system. 2,905,878, 9-22-59, Cl. 318-489.
- Olson, Einar R., to Belden Mfg. Co. Apparatus for applying axially extending stripes to the surface of an insulated wire or cord. 2,880,698, 4-7-59, Cl. 118-405.
- Olson, Elmer: *See*—  
Dermond, Lawrence C., and Olson. 2,898,096.
- Olson, Elmer, to General Motors Corp. Fuel induction system. 2,873,732, 2-17-59, Cl. 123-119.
- Olson, Elmer, to General Motors Corp. Carburetor fuel nozzle construction. 2,899,184, 8-11-59, Cl. 261-41.
- Olson, Elmer, to General Motors Corp. Carburetor vent arrangement. 2,916,271, 12-8-59, Cl. 261-65.
- Olson, Elmer, and D. D. Stoltman, to General Motors Corp. Dual carburetor control system. 2,868,520, 1-13-59, Cl. 261-23.
- Olson, Elmer, E. A. Kehoe, and L. C. Dermond, to General Motors Corp. Fuel cut-off device for fuel injection system. 2,899,951, 8-18-59, Cl. 123-119.
- Olson, Floyd C.: *See*—  
Turner, Earl W., and Olson. 2,874,060.
- Olson, Floyd C., and E. W. Turner, to Oscar Mayer & Co., Inc. Sausages encased in impermeable films. 2,888,351, 5-26-59, Cl. 99-174.
- Olson, Floyd C., and E. W. Turner, to Oscar Mayer & Co., Inc. Preservation of cured meat color. 2,898,212, 8-4-59, Cl. 99-174.
- Olson, Frank R., to Carlisle Corp. Coupling for resilient tubular members. 2,911,237, 11-3-59, Cl. 285-260.
- Olson, Fritiof E. Supporting bracket. 2,892,207, 6-30-59, Cl. 15-268.
- Olson, George G.: *See*—  
Kunce, Basil H., Long, and Olson. 2,916,378.
- Olson, George O. W. Attachable and detachable car carrier. 2,888,178, 5-26-59, Cl. 224-42.1.
- Olson, George W.: *See*—  
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- Olson, Gordon A.: *See*—  
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- Olson, Gordon L. Flexible coupling construction. 2,896,430, 7-28-59, Cl. 64-7.
- Olson, Harold G. Fences. 2,872,161, 2-3-59, Cl. 256-24.
- Olson, Harold M. Vinyl resin plastisol containing plasticizer and boron ester. 2,912,400, 11-10-59, Cl. 260-29.1.
- Olson, Harry F., and J. Preston, to Radio Corp. of America. Acoustic apparatus. 2,870,856, 1-27-59, Cl. 181-5.
- Olson, Harry F., and H. Belar, to Radio Corp. of America. Signal frequency change detector. 2,918,667, 12-22-59, Cl. 340-253.
- Olson, Herbert O. Tractor seat. 2,877,825, 3-17-59, Cl. 153-50.
- Olson, Herbert R., to Swaby Mfg. Co. Submersible sump pump. 2,918,016, 12-22-59, Cl. 103-87.
- Olson, Holly M., to Sealed Power Corp. Piston ring and expander. 2,893,798, 7-7-59, Cl. 309-44.
- Olson, James M. Animal carrier for vehicles. 2,897,781, 8-4-59, Cl. 119-19.
- Olson, John B., to Rockwood & Co. Drinking cup. 2,911,946, 11-10-59, Cl. 119-75.
- Olson, John E., to Hyster Co. Free lift truck. 2,915,144, 12-1-59, Cl. 187-9.
- Olson, John H.: *See*—  
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- Olson, John J., to Brown & Bigelow. Desk pen set. 2,890,090, 6-9-59, Cl. 312-319.
- Olson, Julius L. Collapsible trailer. 2,876,036, 3-3-59, Cl. 296-27.
- Olson, Knut E.: *See*—  
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- Olson, Lawrence J.: *See*—  
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- Copp, Kenneth W., and Olson. 2,889,008.
- Olson, Le Roy H.: *See*—  
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- Olson, Leroy L. Apparatus for overcoming the discomfort produced by automotive exhaust. 2,879,562, 3-31-59, Cl. 21-108.
- Olson, Mark W., V. Fournier, and I. D. Dobbs, to United States Rubber Co. Method of making resin-lined rubber containers. 2,873,227, 2-10-59, Cl. 154-83.
- Olson, Melvin M., to Pittsburgh Plate Glass Co. Method of modifying alkyl resins with alkoxypolysiloxanes. 2,877,202, 3-10-59, Cl. 260-45.4.
- Olson, Melvin M., and R. M. Christenson, to Pittsburgh Plate Glass Co. Fatty acid esters modified by ethenically unsaturated silane compounds. 2,894,922, 7-14-59, Cl. 260-18.
- Olson, Melvin M., and R. M. Christenson, to Pittsburgh Plate Glass Co. Reacting phenylalkoxy siloxanes with higher fatty alcohols. 2,911,386, 11-3-59, Cl. 260-46.5.
- Olson, Melvin M., and R. M. Christenson, to Pittsburgh Plate Glass Co. Alkoxypolysiloxanes. 2,917,467, 12-15-59, Cl. 260-2.
- Olson, Norman L., to General Dynamics Corp. Control circuit. 2,867,724, 1-6-59, Cl. 250-27.
- Olson, Orben M. Retractable safety belts. 2,905,231, 9-22-59, Cl. 155-189.
- Olson, Ralph H., to Owens-Illinois Glass Co. Machine for press molding glassware. 2,881,564, 4-14-59, Cl. 49-38.
- Olson, Ralph H., to Owens-Illinois Glass Co. Apparatus for blanket charging glass batch in a glass furnace. 2,910,195, 10-27-59, Cl. 214-18.2.
- Olson, Ralph H., to Owens-Illinois Glass Co. Method for blanket charging glass batch in a glass furnace. 2,910,200, 10-27-59, Cl. 214-152.
- Olson, Raymond G., to Cleveland Pneumatic Industries, Inc. Indexing table. 2,871,732, 2-3-59, Cl. 77-64.
- Olson, Raymond J., and J. E. Press, to Federal Tool Corp. Method for forming thermoplastic materials. 2,917,783, 12-22-59, Cl. 18-56.
- Olson, Robert J., to Shell Development Co. Process for the preparation of hydrocarbon wax compositions comprising deoiling a blend of slack and soft waxes. 2,915,450, 12-1-59, Cl. 208-31.
- Olson, Robert P.: *See*—  
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- Olson, Robert S.: *See*—  
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- Olson, Robert V., to Wanskuck Co. Braider carrier. 2,897,715, 8-4-59, Cl. 87-56.
- Olson, Robert V., to Wanskuck Co. Braider carrier. 2,897,716, 8-4-59, Cl. 87-57.
- Olson, Robert W.: *See*—  
De Weese, Charles R., and Olson. 2,907,320.
- Perry, Edward G., Jr., and Olson. 2,917,707.
- Olson, Robert W., to Texas Instruments Inc. Signal converter. 2,870,350, 1-20-59, Cl. 310-27.
- Olson, Rudolph, to Dahلمان Mfg. Co. Vine clearing device. Re. 24,585, 1-6-59, Cl. 171-12.
- Olson Rug Co.: *See*—  
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- Olson, Verl O., to General Dynamics Corp. Turnbuckle. 2,905,491, 9-22-59, Cl. 287-61.
- Olson, Wallace F.: *See*—  
Rodgers, Otis N., and Olson. 2,903,235.
- Olson, Walter J.: *See*—  
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- Olson, Walter J., F. B. Parsons, and G. I. Schrank, to Specialties Development Corp. Control mechanism for fluid distributing systems. 2,893,208, 7-7-59, Cl. 60-62.5.
- Olson, William N., to International Harvester Co. Spring equalizer for four-row planter. 2,871,964, 2-3-59, Cl. 172-624.
- Olsson, Axel O., and J. J. Dahl, to J. Dahl & Son A B. Milling machine for cylindrical stereotype platens or the like. 2,871,766, 2-3-59, Cl. 90-20.
- Olsson, Carl O.: *See*—  
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- Olsson, Karl G.: *See*—  
Janelid, Erik I., and Olsson. 2,896,929.
- Schmidt, Bertil J. M., and Olsson. 2,905,566.
- Olsson, Karl G., to Casius Corp. Ltd. Apparatus for treating castings of lightweight concrete in open casting molds. 2,895,204, 7-21-59, Cl. 25-1.
- Olsson, Karl G., to Casius Corp. Ltd. Apparatus particularly for the removal of the upper expansion layer from open casting moulds in the manufacture of porous light-weight concrete. 2,896,298, 7-28-59, Cl. 25-104.
- Olsson, Paul: *See*—  
Frink, Russell E., and Olsson. 2,900,464.
- Olsson, Sven M. J., and V. Martinson, to Sunrod Mfg. Corp. Electrode clamp. 2,911,455, 11-3-59, Cl. 13-16.
- Olstad, Carl P., to Waxide Paper Co. Method for cooling and setting wax coatings on paper. 2,877,140, 3-10-59, Cl. 117-103.
- Olstowski, Franciszek: *See*—  
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- Olshewski, John K., to Western Electric Co., Inc. Drop bottom bins. 2,899,092, 8-11-59, Cl. 214-317.
- Olvey, Charles L., to The Wood Shovel and Tool Co. Collapsible cart. 2,901,261, 8-25-59, Cl. 280-36.
- Olympia Werke A. G.: *See*—  
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- Hense, Theo. 2,874,634.
- Hess, Hans. 2,873,016.
- Hess, Hans. 2,904,158.
- Hess, Hans, and Lüder. 2,919,006.
- Kamp, Hans. 2,868,346.
- Kernchen, Günter. 2,917,154.
- Rix, Albert. 2,918,159.
- Westinger, Karl, Altenburger, and Hirt. 2,905,381.
- O'Maley, James B., J. W. Barnes, and P. D. Hansell, to Kollsman Instrument Corp. Light tracking device. 2,905,828, 9-22-59, Cl. 250-203.
- O'Malley, Vincent J., and J. R. Murphy. Livestock feeder. 2,886,002, 5-12-59, Cl. 119-77.
- O'Mara, Edward A., to Minnesota Mining and Mfg. Co. Radiation exposure unit. 2,903,546, 9-8-59, Cl. 219-19.
- O'Mara, Joseph B., to Anaconda Wire and Cable Co. Pot-head. 2,903,501, 9-8-59, Cl. 174-19.
- Omak Industries, Inc.: *See*—  
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- Carlton, Raymond R. 2,897,857.
- Carlton, Raymond R., and Mortensen. 2,898,708.
- Cranston, Wilber J. 2,913,728.
- Scott, Lewis A. 2,879,814.
- O'Meara, John R.: *See*—  
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- O'Meara, Thomas R., and H. D. Webb, to United States of America, Navy. Apparatus for recording information from radio direction finders. 2,907,029, 9-29-59, Cl. 343-113.
- Omega Aircraft Corp.: *See*—  
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- Omega Laboratories: *See*—  
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- Omega Precision Medical Instrument Co., Inc.: *See*—  
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- Omiotanski, George M., to The Ohio State University Research Foundation. Hydrazinium hexafluorophosphate salts. 2,885,399, 5-5-59, Cl. 260-247.5.
- Omiotanski, George M., to The Ohio State University Research Foundation. Quaternized nicotinium derivatives. 2,890,222, 6-9-59, Cl. 260-291.
- Omley, Herbert A. Metal-to-ceramic seal. 2,917,140, 12-15-59, Cl. 189-36.5.
- O'Morrow, William D. Lighting fixture. 2,892,074, 6-23-59, Cl. 240-10.
- Omps, James R. Resiliently mounted bumper for vehicles. 2,873,994, 2-17-59, Cl. 293-86.
- Omwake, Warren S., to Landis Machine Co. Grinding wheel dressing mechanism. 2,891,534, 6-23-59, Cl. 125-11.
- Onak, Frank M.: *See*—  
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- Onanian, Richard A. Construction set. 2,885,822, 5-12-59, Cl. 46-26.
- Oncley, Paul B., to Gulton Industries, Inc. Valve for flow control of liquids. 2,902,251, 9-1-59, Cl. 251-129.
- Ondeck, Elmer J., to Supreme Products Corp. Chuck with ball locking means. 2,893,743, 7-7-59, Cl. 279-9.
- Ondeck, Elmer J., to Supreme Products Corp. Cam chuck. 2,910,302, 10-27-59, Cl. 279-22.
- Ondeck, Elmer J., to Supreme Products Corp. Rotary impact attachment. 2,916,117, 12-8-59, Cl. 192-3.5.
- Onder, Kerim, <sup>15100</sup> to A. L. Tirico. High fidelity push-pull amplifiers. 2,895,018, 7-14-59, Cl. 179-171.
- Onderko, Joseph J.: *See*—  
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- Ondrejka, Albert A., to United States of America, Air Force. Self-cushioning modular-form transit case. 2,885,070, 5-5-59, Cl. 206-1.
- O'Neal, Andrew. Gin roll and breastplate structure. 2,903,750, 9-15-59, Cl. 19-52.
- O'Neal, Bert W. Apparatus for lead welding of roof flashings. 2,909,137, 10-20-59, Cl. 113-99.
- O'Neal, Everett A. Dual sun visor bracket and assembly. 2,912,275, 11-10-59, Cl. 296-97.
- O'Neil, Charles S., to Hamilton Mfg. Co. Cabinet construction. 2,905,519, 9-22-59, Cl. 312-350.
- O'Neil, Edward D.: *See*—  
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- O'Neil, Eugene J.: *See*—  
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- O'Neil-Irwin Mfg. Co.: *See*—  
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- Nelson, Paul C. 2,875,808.
- O'Neil, James E., and J. Munich. Fire extinguishers. 2,877,853, 3-17-59, Cl. 169-31.
- O'Neil, John G., to Safe-Pack Container Co. Container. 2,891,713, 6-23-59, Cl. 229-51.
- O'Neil, John G. Disposable drinking cup structure. 2,915,176, 12-1-59, Cl. 206-47.
- O'Neil, John G., to Safe-Pack Container Co. Apparatus for forming containers. 2,915,952, 12-8-59, Cl. 93-82.
- O'Neil, John W. Irrigation gauge. 2,907,206, 10-6-59, Cl. 73-171.
- O'Neil, William E. Carburetor. 2,868,522, 1-13-59, Cl. 261-50.
- O'Neill, Cormac G., to Engineering Research and Application Ltd. Self adjusting tappets. 2,880,710, 4-7-59, Cl. 123-90.
- O'Neill, James C. All weather clothes line. 2,889,052, 6-2-59, Cl. 211-104.
- O'Neill, John J., Jr., to Olin Mathieson Chemical Corp. Manufacture of electric blasting caps. 2,867,147, 1-6-59, Cl. 86-1.
- O'Neill, John J., Jr., to Olin Mathieson Chemical Corp. Nitrocellulose particles. 2,885,736, 5-12-59, Cl. 18-48.
- O'Neill, John J., Jr., to Olin Mathieson Chemical Corp. Propellant powder. 2,916,775, 12-15-59, Cl. 18-55.
- O'Neill, John J., Jr., to Olin Mathieson Chemical Corp. Electric blasting caps. 2,916,994, 12-15-59, Cl. 102-28.
- O'Neill, John J., Jr., and C. E. Silk, to Olin Mathieson Chemical Corp. Rocket powder grain. 2,916,776, 12-15-59, Cl. 18-55.
- O'Neill, John P., to Radio Corp. of America. Power saving device. 2,884,518, 4-28-59, Cl. 250-20.
- O'Neill, Paul J., Jr., to Union Machine Company. Paint mixer. 2,898,094, 8-4-59, Cl. 259-116.
- O'Neill, Ralph A. Releaseable locking mechanism for telescoping members. 2,892,647, 6-30-59, Cl. 287-58.
- O'Neill, Richard J., to Thompson Ramo Wooldridge Inc. Mounting clip. 2,916,159, 12-8-59, Cl. 211-89.
- O'Neill, Richard J., and D. L. MacIntyre, to Thompson Ramo Wooldridge, Inc. Electronic plug-in unit handle. 2,893,777, 7-7-59, Cl. 294-1.
- O'Neill, Robert C., to Merck & Co., Inc. Substituted amide-1,4-diacylpiperazine complexes. 2,881,157, 4-7-59, Cl. 260-96.5.
- O'Neill, Robert C., and R. J. Tull, to Merck & Co., Inc. Method of preparing lysine. 2,877,220, 3-10-59, Cl. 260-239.3.
- O'Neill, Wilbur S. R.: *See*—  
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- O'Neill, William A., to Imperial Chemical Industries Ltd. Purification of terephthalic acid. 2,899,466, 8-11-59, Cl. 260-525.
- O'Neill, William R. Positioning apparatus for driven means. 2,913,655, 11-17-59, Cl. 318-467.
- Onisko, John, Jr. Toroidal coil winding machine. 2,894,699, 7-14-59, Cl. 242-4.
- Onisko, John, Jr., <sup>1/2</sup> to J. R. Watson. Coil winding machine. 2,916,221, 12-8-59, Cl. 242-4.
- Onken, Bert G. Adding and subtracting means. 2,917,234, 12-15-59, Cl. 235-66.
- Onksen, George W., and E. S. Reynolds, to General Motors Corp. Method for making lens mold. 2,890,627, 6-16-59, Cl. 90-11.
- Onksen, George W., R. N. Falge, and H. C. Mead, to General Motors Corp. Testing and calibrating apparatus. 2,909,724, 10-20-59, Cl. 324-24.
- On Mark Couplings, Inc.: *See*—  
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- Ono, Iwao. Processes and apparatuses for producing plastic nets and the like. 2,895,535, 7-21-59, Cl. 154-1.7.
- Onofri, Bruno. Resistance supporting plate, and process for its manufacture. 2,916,597, 12-8-59, Cl. 219-37.
- Onondaga Pottery Co.: *See*—  
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- Onsrud Cutter Mfg. Co.: *See*—  
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- Onsrud Machine Works, Inc.: *See*—  
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- Onsrud, Rudolph F., to Onsrud Machine Works, Inc. Positioning control means for universal router. 2,882,865, 4-21-59, Cl. 121-41.
- Onstott, Edward L., and G. D. Cremer, to United States of America, Atomic Energy Commission. Method for producing cemented carbide articles. 2,894,837, 7-14-59, Cl. 75-201.
- Ontario Paper Co. Ltd., The: *See—*
- Fisher, Henry T., and Moran. 2,893,241.
- Ontario Research Foundation: *See—*
- Cavanagh, Patrick E. 2,867,118.
- Cavanagh, Patrick E. 2,870,003.
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- Onyx Oil & Chemical Co.: *See—*
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- Valko, Emery I., Tesoro, and Szubin. 2,914,427.
- Oosterhof, Hendricus A.: *See—*
- Bruin, Pieter, and Oosterhof. 2,904,531.
- Opal Strumpfwerke G.m.b.H., Margaritoff & Schaffer: *See—*
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- Opalite, Inc.: *See—*
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- Opderbeck, Fritz, E. Franke, and G. Trapp, to Phrix-Werke Akt. Method for producing alcohol from waste sulphite cellulose liquors. 2,893,919, 7-7-59, Cl. 195-39.
- Opdyke, Richard E., to Allis-Chalmers Mfg. Co. Method of visualizing flow patterns. 2,910,865, 11-3-59, Cl. 73-147.
- Operball, Theodore, to D. H. Ruttenberg, trustee. Metal casting process and elements and compositions employed in same. 2,892,227, 6-30-59, Cl. 22-193.
- Opfermann, Adolf C. J. Iron-containing organic compounds. 2,890,233, 6-9-59, Cl. 260-439.
- Opheim, Milton H., and B. Franzus, to Phillips Petroleum Co. Polymerization of thiovinyl ethers and products. 2,877,214, 3-10-59, Cl. 260-79.7.
- Opie, Joseph W.: *See—*
- Lentz, Thomas H., Opie, and Terry. 2,891,012.
- Opie, Kenneth M. Wall bracket. 2,886,278, 5-12-59, Cl. 248-274.
- Opie, William R., and K. A. Svanstrom, to National Lead Co. Electrolytic method for production of refractory metal. 2,904,477, 9-15-59, Cl. 204-64.
- Opitz, Wolfgang, and W. Urbanski, to Knapsack-Griesheim Akt. Process for preparing ketones. 2,891,095, 6-16-59, Cl. 260-596.
- Oplinger, Kirk A., to Westinghouse Electric Corp. Elevator control system. 2,874,806, 2-24-59, Cl. 187-29.
- Opocensky, Willard J., to Librascope, Inc. Transfer mechanism. 2,881,630, 4-14-59, Cl. 74-435.
- Opocensky, Willard J., to Librascope, Inc. Bearing spacer. 2,911,855, 11-10-59, Cl. 74-713.
- Opp, Fred W., and W. H. Mailbox signal. 2,874,895, 2-24-59, Cl. 232-35.
- Opp, Walter H.: *See—*
- Opp, Fred W. and W. H. 2,874,895.
- Oppegard, Alfred L., to E. I. du Pont de Nemours and Co. Ruthenium-modified chromium oxide ferromagnetic compositions, their preparation and use. 2,885,365, 5-5-59, Cl. 252-62.5.
- Oppel, John A., to General Electric Co. Electric circuit breaker. 2,911,546, 11-3-59, Cl. 307-136.
- Oppelt, Jiri. Apparatus for ascertaining the anode temperature of an X-ray tube. 2,894,142, 7-7-59, Cl. 250-83.6.
- Oppenheim, Henry H., and T. W. Stevens. Electrical speed-responsive switch with time-delay. 2,872,541, 2-3-59, Cl. 200-83.
- Oppenheimer, Frank F., to United States of America, Atomic Energy Commission. Ion producing mechanism. 2,882,411, 4-14-59, Cl. 250-41.9.
- Oppenheimer, Frank F., to United States of America, Atomic Energy Commission. Calutron ion source. 2,889,462, 6-2-59, Cl. 250-41.9.
- Oppenheimer, Frank F., to United States of America, Atomic Energy Commission. Ion producing mechanism. 2,890,339, 6-9-59, Cl. 250-41.9.
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- Oppenheimer, Frank, and J. W. Bell, to United States of America, Atomic Energy Commission. Mass separators. 2,874,295, 2-17-59, 250-41.9.
- Oppenheimer, Jess. Prompting apparatus. 2,883,902, 4-28-59, Cl. 88-16.
- Oppenheimer, Leon. Process and article for tenderizing and seasoning meats. 2,906,629, 9-29-59, Cl. 99-194.
- Oppel, Lincoln L., to The Dayton Rubber Co. Variable speed belt drive. 2,916,927, 12-15-59, Cl. 74-230.17.
- Opperman, S. E., Ltd.: *See—*
- Miller, Charles H. 2,891,110.
- Opperthausen, Orval A.: *See—*
- Kay, John G., and Opperthausen. 2,885,969.
- Oppliger, Walter, E. Peyer, H. Schenkel, and K. Glenz, to Durand & Huguenin A.G. Process for the manufacture of water-soluble salts of sulphuric acid esters of leuco vat dyestuffs of the anthraquinone series. 2,918,475, 12-22-59, Cl. 260-316.
- Opsahl, Eugene G., to American Steel Foundries. Brake beam. 2,873,824, 2-17-59, Cl. 188-226.1.
- Opsitnik, William. Insulated container with pouring spout and air vent. 2,909,305, 10-20-59, Cl. 222-466.
- Opt. Werke C.A. Steinheil Sohne G.m.b.H.: *See—*
- Schiks, Albart. 2,907,257.
- Optical Gaging Products, Inc.: *See—*
- Conte, Joseph F., and Polidor. 2,887,827.
- De Boer, Willis, and Conte. 2,913,963.
- Optical Salons Ltd.: *See—*
- Levoy, Monroe B. 2,903,125.
- Optische Anstalt C.P. Goerz, Ges. m.b.H.: *See—*
- Stöckl, Franz. 2,897,415.
- Optische Werke C. A. Steinheil Sohne G.m.b.H.: *See—*
- Kukuk, Wilhelm. 2,879,705.
- Optische Werke G.m.b.H.: *See—*
- Moller, Alfred, and Klein. 2,882,791.
- Opti-Werk G.m.b.H. & Co.: *See—*
- Porepp, Hans. 2,901,803.
- OPTOMECHANISMS, Inc.: *See—*
- Brault, Andre R., and Lindberg. 2,900,740.
- Oram, John A., to Air Trainers Link Ltd. Servo motor with adjustable stiffness control means. 2,918,904, 12-29-59, Cl. 121-41.
- Oram, John A., and H. J. Sherry, to Link Aviation, Inc. Coil-winding machine. 2,912,177, 11-10-59, Cl. 242-9.
- Oram, Mary M.: *See—*
- Weller, Walter, Bloomstran, and Oram. 2,889,055.
- Oram, Norman. Machine dial control. 2,868,154, 1-13-59, Cl. 116-115.5.
- Oransky, Raymond L., and T. Doggett. Starch-coated paper-base masters for planographic printing. 2,876,134, 3-3-59, Cl. 117-65.
- Orbit Industries, Inc.: *See—*
- Gellman, Gerald. 2,896,737.
- Orchard Brothers Incorporated: *See—*
- Zarnowski, Frank J. Re. 24,675.
- Orchard, David W., to The National Key Co. Combined machine frame and motor mounting. 2,870,351, 1-20-59, Cl. 310-59.
- Orchard, David W. Work holding method and means. 2,905,339, 9-22-59, Cl. 214-1.
- Orcutt, Shirley N., trading as J. J. Cress Co. of New Jersey: *See—*
- Hankin, John H., Jr. 2,902,741.
- Ord, Lewis R. Hose clamp. 2,907,086, 10-6-59, Cl. 24-19.
- Ordinance Specialties, Inc.: *See—*
- Stupian, Joe A. 2,897,799.
- Ordorica, Miguel A., to Bank of America National Trust and Savings Assn. Brake-actuating mechanism for vehicles. 2,878,903, 3-24-59, Cl. 188-106.
- Ordorica, Miguel A., to Bank of America National Trust and Savings Association. Vehicle suspension system. 2,894,592, 7-14-59, Cl. 180-45.
- Ordorica, Vincent: *See—*
- Richter, Albert, Ordorica, and Gertz. 2,898,485.
- Ordway, Harold W., and P. A. Guercio, to Chas. Pfizer & Co., Inc. Recovery of rescinamine. 2,876,228, 3-3-59, Cl. 260-287.
- O'Rear, Jacques G., and P. D. Faurote, to United States of America. Navy. Polyfluoroalkyl p-toluenesulfonates. 2,894,971, 7-14-59, Cl. 260-456.
- Orebaugh, Lowell H. Fish lures. 2,904,922, 9-22-59, Cl. 43-42.32.
- Orechio, Frank A. Thermal time delay relay. 2,913,554, 11-17-59, Cl. 200-122.
- Oregon Metallurgical Corp.: *See—*
- Aschoff, Willis A. 2,912,476.
- Orehoski, Michael A., and R. L. Stephenson, to United States Steel Corp. Method of preventing edge cracking in the rolling of stainless steel. 2,898,667, 8-11-59, Cl. 29-18.
- O'Reilly, Edward J., to The C. E. Ward Co. Mortar board cap. 2,880,423, 4-7-59, Cl. 2-192.
- O'Reilly, Joseph A. Multi-cellular carton. 2,867,370, 1-6-59, Cl. 229-28.
- O'Reilly, Joseph A. Necktie clip. 2,907,045, 10-6-59, Cl. 2-150.
- O'Reilly, Wallace M.: *See—*
- Dublin, James R., Kennedy, and O'Reilly. 2,911,048.
- True, Martin E., and O'Reilly. 2,876,919.
- Orelli, Daniel, and R. Beauquesne. Cyclone separator. 2,906,404, 9-29-59, Cl. 210-512.
- Orenda Engines Ltd.: *See—*
- Comery, Peter D. 2,871,038.
- Heard, William L. 2,886,351.
- Klompas, Nicholas, and Purvis. 2,917,276.
- Lazarowicz, Gustaw. 2,868,339.
- Mackay, Charles G. 2,876,622.
- MacKay, John D. A. 2,918,253.
- Ruppel, Carl D. 2,918,010.
- Simcock, William H. 2,889,843.
- Whiting, James C. 2,918,941.
- Wittlake, Karl H. 2,902,662.
- Orendorff, John W., to International Harvester Co. Attachment for planters and the like. 2,869,491, 1-20-59, Cl. 111-86.
- Orendorff Mfg. Co.: *See—*
- Hill, Roy R. 2,882,983.
- Orenstein, Hyman: *See—*
- Friedman, Philip and G. J. 2,873,990.
- Orenstein-Koppel und Lubecke Maschinenbau Akt.: *See—*
- Frick, Egon. 2,892,271.
- Orenstein-Koppel und Lubecke Maschinenbau Akt.: *See—*
- Radestock, Herbert. 2,877,576.
- Oresten, Johan H. L.: *See—*
- Persson, Ponte S., Stranne, and Oresten. 2,914,878.



Organon Inc.: See—

Bouman, Jan, Homan, and Sieders. 2,902,408.  
Homan, Jan D. H. 2,881,114.  
Lens, Jan, and Wijmenga. 2,892,754.  
Lewin, Seymour Z., Schapiro, and Price. 2,880,139.  
Middelbeek, Almer, De Graaf, and Modderman. 2,898,351.  
Szpilfogel, Stefan A., and de Winter. 2,878,267.  
Van der Burg, Willem J. 2,879,279.

Orionl, Silvie M., and S. Priftis, to Bendix Aviation Corp. Limit stops for rotatable inductive electromechanical devices. 2,853,634, 4-21-59, Cl. 336-120.  
O'Riley, Thomas F. Garment hangers. 2,891,706, 6-23-59, Cl. 223-91.

Oriol, Andre: See—

Lachiche, Julien, and Oriol. 2,902,720.  
O'Riordan, John E. Automatic knife sharpener and holder. 2,893,178, 7-7-59, Cl. 51-214.  
Oritt, Florence O.,  $\frac{1}{2}$  to J. Oritt. Metallic foil food packaging and cooking envelope. 2,881,078, 4-7-59, Cl. 99-171.

Oritt, Jack: See—

Oritt, Florence O. 2,881,078.  
Orjala, Wayne W. Tool attaching device. 2,874,489, 2-24-59, Cl. 37-117.5.

Orlacio, Anthony W., to Gulton Industries, Inc. Blast gauge. 2,875,352, 2-24-59, Cl. 310-8.1.

Orlando, Carl, to United States of America, Army. Automatic repeating relay. 2,892,954, 6-30-59, Cl. 307-132.

Orlando, Vincent A., to General Electric Co. Gyroscopically stabilized compass system. 2,914,863, 12-1-59, Cl. 33-222.

Orlik, Roman. Fish bait. 2,900,754, 8-25-59, Cl. 43-44.2.

Orloff, George, and A. Cameron-Johnson, to British Messier Ltd. Hydraulic systems. 2,867,091, 1-6-59, Cl. 60-97.

Orloff, George, and B. C. Smithers, to British Messier Ltd. Seals for pistons, glands and the like. 2,876,025, 3-3-59, Cl. 286-26.

Orloff, Harold D., and F. X. Markley, to Ethyl Corp. Dimethyl-(monochlorotolyl)-phosphate. 2,870,186, 1-20-59, Cl. 260-461.

Orloff, Harold D., and F. X. Markley, to Ethyl Corp. Dimethyl-(methylphenyl)-phosphates. 2,911,431, 11-3-59, Cl. 260-461.

Ormond, Alfred N. Adjustable gating circuit. 2,872,597, 2-3-59, Cl. 307-133.

Ormond, Alfred N. Force measuring instrument. 2,918,816, 12-29-59, Cl. 73-147.

Ormsby, Edwin P., to Giddings & Lewis Machine Tool Co. Lubricant drain for machine tool lubricating system. 2,869,428, 1-20-59, Cl. 90-11.

Ormsby, George S.: See—

Bobo, Roy A., and Ormsby. 2,884,074.

Ormsby, George S., to Phillips Petroleum Co. Casing cementing back pressure valve and its operation. 2,907,392, 10-6-59, Cl. 166-224.

Ormsby, George S., and R. A. Bobo, to Phillips Petroleum Co. Pressure release lock. 2,888,990, 6-2-59, Cl. 166-225.

Orner, Allan, to The Magnavox Co. Card processing apparatus. 2,901,247, 8-25-59, Cl. 271-5.

Orner, Harry. Apparatus for screw tensioning to elongation values. 2,889,729, 6-9-59, Cl. 81-52.4.

Orner, Harry. Ball-bearing screw and nut mechanism. 2,895,343, 7-21-59, Cl. 74-459.

Orner, Harry. Reversing traverse mechanism. 2,907,219, 10-6-59, Cl. 74-58.

Ornitz, Nathaniel B., to Blaw-Knox Co. Metal casting. 2,897,557, 8-4-59, Cl. 22-216.

Oroshnik, William, to Ortho Pharmaceutical Corp. 4-methyl-4-phenyl-5-pyrazolone. 2,878,263, 3-17-59, Cl. 260-310.

Oroshnik, William, to Ortho Pharmaceutical Corp. Preparation of 1-yne,3,5-diene,4-methyl-hexane. 2,912,474, 11-10-59, Cl. 260-678.

Oroshnik, William, to Ortho Pharmaceutical Corp. Aldehyde adducts of 2-amino-5-nitrothiazole. 2,915,526, 12-1-59, Cl. 260-306.8.

Oroshnik, William, and W. H. Haffcke; said Oroshnik assor. to Ortho Pharmaceutical Corp. Ferrous citrate complex. 2,904,573, 9-15-59, Cl. 260-439.

O'Rourke, Donald J., to General Motors Corp. Mechanical movement device. 2,875,632, 3-3-59, Cl. 74-424.8.

O'Rourke, John J., to Mars, Inc. Chocolate product and process. 2,904,438, 9-15-59, Cl. 99-24.

O'Rourke, Neil, to United States of America, Navy. Simplified boundary layer control for a jet. 2,892,582, 6-30-59, Cl. 230-95.

O'Rourke, Neil W. Variable result game apparatus. 2,873,119, 2-10-59, Cl. 273-138.

O'Rourke, Neil W. Electrical game apparatus. 2,893,733, 7-7-59, Cl. 273-1.

Orr, Charles P., to Spray Products Corp. Engine priming line attachment for dashboards. 2,894,716, 7-14-59, Cl. 251-148.

Orr, Charles P., to Spray Products Corp. Dual seal closure gasket. 2,916,174, 12-8-59, Cl. 215-43.

Orr, Clifford M.: See—

Moyer, Frederick D., and Orr. 2,886,204.

Orr, Clyde, Jr., to The Georgia Tech Research Institute. Electrical resistance paint capable of forming a heating film. 2,883,307, 4-21-59, Cl. 117-216.

Orr, Clyde, Jr., and B. L. Hinkle, to Georgia Tech Research Institute. Method and apparatus for measuring electrical charge on aerosol particles. 2,909,960, 10-27-59, Cl. 88-14.

Orr, Franklin M.: See—

Roquemore, William K., and Orr. 2,886,519.

Orr, Franklin M., and W. K. Roquemore, to Esso Research and Engineering Co. Means for maintaining a dip leg seal in a fluidized catalytic reaction vessel. 2,886,419, 5-12-59, Cl. 23-288.

Orr, John R., to Radio Corp. of America. Sound IF gain regulation. 2,874,277, 2-17-59, Cl. 250-20.

Orr, Palmer, to Borg-Warner Corp. Power steering devices. 2,877,656, 3-17-59, Cl. 74-388.

Orr, Robert H., and E. Meripol,  $\frac{1}{2}$  to said R. H. Orr, and  $\frac{1}{2}$  to W. R. Kallian. Parking lot control system. 2,906,505, 9-29-59, Cl. 256-1.

Orr, Robert V., to Bendix Aviation Corp. Radiosonde transmitter. 2,883,537, 4-21-59, Cl. 250-36.

Orr, Stanley C., and D. E. Kropp, to Pfaunder Permutit Inc. Heat exchanger. 2,868,513, 1-13-59, Cl. 257-236.

Orr, Willis P., to Jersey Production Research Co. Removal of debris from well bores. 2,902,095, 9-1-59, Cl. 166-170.

Orscheln, Albert J. Scraper blade attachments for tractors having hydraulically-controlled draw bars. 2,883,776, 4-28-59, Cl. 37-155.

Orser, Lawrence D.: See—

Kiffer, Desire A., and Orser. 2,869,839.

Kiffer, Desire A., and Orser. 2,871,789.

Kiffer, Desire A., and Orser. 2,908,283.

Orser, Lawrence D., to Chamberlain Corp. Pressure accumulator. 2,895,507, 7-21-59, Cl. 138-30.

Orser, Lawrence D., to Chamberlain Corp. Shelf and supporting bracket therefor. 2,895,617, 7-21-59, Cl. 211-93.

Orser, Lawrence D., to Chamberlain Corp. Compressible stopper. 2,905,355, 9-22-59, Cl. 220-24.5.

Orshansky, Elias, Jr., to The New York Air Brake Co. Hydrodynamic apparatus using inclined plates. 2,870,721, 1-27-59, Cl. 103-162.

Orshansky, Elias, Jr., to Chicago Railway Equipment Co. Vibration damping apparatus. 2,886,142, 5-12-59, Cl. 188-96.

Orshansky, Elias, Jr., to The New York Air Brake Co. Hydraulic apparatus utilizing rotary cylinder blocks. 2,895,426, 7-21-59, Cl. 103-161.

Orsini, Camillo D., to Nixon Nitration Works. Apparatus for extruding sheets with striped pattern. 2,897,541, 8-4-59, Cl. 18-12.

Orsino, Joseph A., to National Lead Co. Method for manufacture of dry-charged battery plates. 2,900,431, 8-18-59, Cl. 138-27.

Orsten, Leo A., and G. G. Simor. Universal aspirating syringe for long and short cartridges. 2,869,542, 1-20-59, Cl. 128-218.

Orte, Sven E. W., and R. Kinberg, to Aktiebolaget Svenska Kullagerfabriken. Bearing mounting for silent running rotating machine parts. 2,874,008, 2-17-59, Cl. 308-184.

Ortega, Charlotte C. Educational device having transparent erasable surface and movable illustration strip positioned beneath said writing surface. 2,918,732, 12-29-59, Cl. 35-62.

Ortega, Isidoro. Resilient non-pneumatic safety wheels. 2,911,026, 11-3-59, Cl. 152-153.

Ortega, Mario De J., deceased (P. A. Ortega, administratrix), and P. A. Ortega. Pneumatic cleaning device. 2,889,006, 6-2-59, Cl. 183-37.

Ortega, Pauline A.: See—

Ortega, Mario De J. and P. A. 2,889,006.

Ortegren, Victor H., to United States of America, Agriculture. Vial holder. 2,873,850, 2-17-59, Cl. 206-1.

Oritel, Gerhard, to H. Kuper. Veneer joining machine. 2,896,680, 7-28-59, Cl. 144-279.

Orter, Ralph H., and M. R. Bigelow. Combination shower bath head and soap spray. 2,891,732, 6-23-59, Cl. 239-322.

Ortglas, Raymond C., to American Air Filter Co., Inc. Cupola gas receiving and cooling systems. 2,900,180, 8-18-59, Cl. 266-32.

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Reuter, Martin, Orthner, and Reuber. 2,877,248.

Rieber, Martin, and Orthner. 2,885,440.

Orthner, Ludwig, and E. G. Fuchs, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Epoxylation products of unsaturated fatty acid amides and a process of preparing them. 2,905,702, 9-22-59, Cl. 260-348.

Ortho Pharmaceutical Corp.: See—

Berliner, Victor R., and Gilardi. 2,915,438.

Berliner, Victor R., and Singher. 2,915,437.

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Karmas, George, and Mallory. 2,883,392.

Kupferberg, Alfred B., and Singher. 2,886,487.

Mende, William C., and Berliner. 2,889,250.

Mende, William C., and Seidel. 2,918,404.

Millman, Max. 2,881,113.

Oroshnik, William. 2,878,263.

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Oroshnik, William. 2,915,526.

Oroshnik, William, and Haffcke. 2,904,573.

Singher, Heron O. 2,897,123.

Ortho-Sonic Instruments, Inc.: See—

Bard, George L. 2,869,877.

Orthuber, Richard K., to International Telephone and Telegraph Corp. Phosphor screen device. 2,877,376, 3-10-59, Cl. 315-12.



- Orthuber, Richard K., to International Telephone and Telegraph Corp. Detecting apparatus. 2,892,078, 6-23-59, Cl. 246-249.
- Orthuber, Richard K., to International Telephone and Telegraph Corp. Checking systems. 2,899,132, 8-11-59, Cl. 235-61.6.
- Orthuber, Richard K., and L. R. Ullery, to International Telephone and Telegraph Corp. Radiation amplifier construction. 2,875,350, 2-24-59, Cl. 250-213.
- Orthuber, Richard K., C. C. Larson, and G. W. Bain, to International Telephone and Telegraph Corp. Information display device. 2,877,371, 3-10-59, Cl. 313-108.
- Orthuber, Richard K., and C. C. Larson, to International Telephone and Telegraph Corp. Image device. 2,892,095, 6-23-59, Cl. 250-213.
- Orthuber, Richard K., C. V. Stanley, and C. L. Day, to International Telephone and Telegraph Corp. Electron discharge devices. 2,894,163, 7-7-59, Cl. 313-149.
- Orthuber, Richard K., C. V. Stanley, and S. G. Fong, to International Telephone and Telegraph Corp. Apparatus for detecting hot journal boxes. 2,906,885, 9-29-59, Cl. 250-223.
- Orthuber, Richard K., and C. C. Larson, to International Telephone and Telegraph Corp. Image device. 2,909,667, 10-20-59, Cl. 250-213.
- Ortley Co., Ltd.: See—  
Hiering, William A. 2,884,213.
- Ortloff, John E., to Jersey Production Research Co. Blow-out closure device pressure head. 2,897,895, 8-4-59, Cl. 166-95.
- Ortloff, John E., to Jersey Production Research Co. Reservoir coring. 2,915,284, 12-1-59, Cl. 255-1.4.
- Ortloff, John E., and F. H. Deily, to Jersey Production Research Co. Retrievable reverse circulation pellet impact drill. 2,885,184, 5-5-59, Cl. 255-61.
- Ortman, Alva H. Cylinder cushioning structure. 2,897,785, 8-4-59, Cl. 121-38.
- Ortman, Curtis D., to General Motors Corp. Kiln refractory. 2,895,840, 7-21-59, Cl. 106-68.
- Ortman, Earl R. Air unloader for submergible pumps. 2,917,113, 12-15-59, Cl. 166-67.
- Ortmann, Walter: See—  
Arenhold, Karl-Heinz, and Ortmann. 2,893,415.
- Ortner, Samuel. Pocket safety knife. 2,870,537, 1-27-59, Cl. 30-162.
- Orton, Charles L. Multiple fluid coupling for relatively movable vehicle parts. 2,873,810, 2-17-59, Cl. 180-66.
- Ortusi, Antoine J., and A. Robert, to Compagnie Generale de Telegraphie Sans Fil. Radio direction finding system. 2,913,721, 11-17-59, Cl. 343-121.
- Ortusi, Jean, and A. Robert, to Compagnie Generale de Telegraphie Sans Fil. Radar systems. 2,914,761, 11-24-59, Cl. 343-5.
- Ortwig, Thomas B., to James R. Kearney Corp. By-pass switch. 2,879,348, 3-24-59, Cl. 200-50.
- Orvis, Elmer P., to The Leece-Neville Co. Generator control system. 2,874,346, 2-17-59, Cl. 321-16.
- Orvis, Elmer P., to The Leece-Neville Co. Alternator-rectifier generating system. 2,907,943, 10-6-59, Cl. 321-16.
- Osaka Machine Mfg. Co. Ltd.: See—  
Miyazawa, Shigetada. 2,870,646.
- Osaka Titanium Seizo Kabushiki Kaisha: See—  
Tomonari, Tadao, Ishimoto, Togo, and Izumi. 2,905,613.
- Osborn, William O.: See—  
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- Osbond, John M.: See—  
Cohen, Aaron, and Osbond. 2,877,227.
- Osborg, Hans, to National Distillers and Chemical Corp. Production of hydrazine. 2,917,369, 12-15-59, Cl. 23-190.
- Osborn, Alden E. Pipe joint. 2,914,345, 11-24-59, Cl. 285-110.
- Osborn, Arthur S.: See—  
Pekar, George H., and Osborn. 2,893,313.
- Osborn, Charles W.: See—  
Mahan, John E., and Osborn. 2,884,316.
- Osborn, George E., and H. C. Matthews. Sitz bath for toilet seat. 2,872,686, 2-10-59, Cl. 4-6.
- Osborn, Harry B., Jr., and W. E. Benninghoff, to The Ohio Crankshaft Co. Billet handling device. 2,910,565, 10-27-59, Cl. 219-10.41.
- Osborn, John E. Pipe tongs. 2,911,251, 11-3-59, Cl. 294-110.
- Osborn, Mabel G. Bed protector. 2,914,069, 11-24-59, Cl. 128-287.
- Osborn Mfg. Co., The: See—  
Benyak, John B. 2,871,060.  
Benyak, John B. 2,918,327.  
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Cole, Lyndon C. 2,909,015.  
Friedman, Solomon. 2,874,399.  
Miller, Leon F. 2,879,564.  
Miller, Leon F., and Hatch. 2,908,950.  
Nelson, Brooks E. 2,871,496.  
Peterson, Ruben O. 2,876,146.  
Peterson, Ruben O. 2,878,048.  
Peterson, Ruben O. 2,879,631.  
Peterson, Ruben O. 2,895,155.  
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Peterson, Ruben O., and Nelson. 2,866,989.
- Osborn, Spencer H. Hand truck. 2,916,170, 12-8-59, Cl. 214-375.
- Osborn, William M. Hydraulically operated transmission. 2,910,052, 10-27-59, Cl. 121-93.
- Osborn, William M. Hydraulically operated device. 2,915,048, 12-1-59, Cl. 121-93.
- Osborne, Alan P.: See—  
Sear, Derek W., and Osborne. 2,891,917.
- Osborne, Alec V., to Pfaunder Permutit Inc. Fractionating column. 2,896,928, 7-28-59, Cl. 261-113.
- Osborne, Fred H.: See—  
Hull, Charles J., and Osborne. 2,891,797.
- Osborne, Clyde E.: See—  
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- Osborne, Fay H., and M. F. Kilty, Jr., to C. H. Dexter & Sons, Inc. Fibrous webs and method and apparatus for making same. 2,913,365, 11-17-59, Cl. 162-201.
- Osborne, Fred H., to The Rudolph Wurlitzer Co. Organ pedal structure. 2,911,873, 11-10-59, Cl. 84-225.
- Osborne, John B.: See—  
Wickham, Henry P., and Osborne. 2,891,001.
- Osborne, John B., to The M. W. Kellogg Co. Process for emergency steam production. 2,919,244, 12-29-59, Cl. 208-164.
- Osborne, John B., and J. L. Patton, to The M. W. Kellogg Co. Movement of fluidized catalyst in a standpipe. 2,900,329, 8-18-59, Cl. 208-164.
- Osborne, Marvin J. Turnbuckle. 2,872,224, 2-3-59, Cl. 287-60.
- Osborne, Russell E., S. H. Moyer, and L. D. Coyne, to Products and Production Devices Co. Corrugating machine. 2,882,955, 4-21-59, Cl. 154-30.
- Osborne, Wesley M., D. Edge, Jr., and A. D. Johnston, to Hooker Chemical Corp. Process for production of calcium hypochlorite bleach liquor. 2,889,199, 6-2-59, Cl. 23-86.
- Osborne, William E.: See—  
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- Oscard, Martin L. Collar stiffener. 2,899,681, 8-18-59, Cl. 2-132.
- Oscosz Sanchez, Pascual J. M. Compact extension table. 2,890,089, 6-9-59, Cl. 311-44.
- Osen, Ralph T.: See—  
Myck, Edward A., Jr., and Osen. 2,902,220.
- Osenberg, Werner, to Bisterfeld & Stotling. Grinding wheels with inserted tubular abrasive elements. 2,882,655, 4-21-59, Cl. 51-209.
- Osenberg, Werner, to Bisterfeld & Stotling. Manufacture of single or multi-stage grinding rings or the like. 2,909,417, 10-20-59, Cl. 51-298.
- Osepchuk, John M., to Raytheon Mfg. Co. Electron discharge devices and cathodes therefor. 2,871,394, 1-27-59, Cl. 315-3.5.
- Osepchuk, John M., and R. A. Paananen, to Raytheon Co. Traveling wave electron discharge devices. 2,905,859, 9-22-59, Cl. 315-39.3.
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- Osgood, Harold A., Jr., and J. C. Filcher, to Sperry Rand Corp. Sheet feeding device. 2,892,629, 6-30-59, Cl. 271-39.
- Osgood, Richard E. Electric pressure pickup. 2,883,503, 4-21-59, Cl. 201-63.
- O'Shaughnessy, James M.: See—  
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- O'Shei, William E. Windshield cleaning apparatus. 2,914,256, 11-24-59, Cl. 239-305.
- O'Shei, William E. Rear viewing mirrors. 2,914,988, 12-1-59, Cl. 88-98.
- O'Shei, William E. Windscreen wiper blades. 2,918,688, 12-29-59, Cl. 15-245.
- Oshima, Motoyoshi, J. Kusama, and T. Ishii. Process for the saccharification of cellulose-containing material. 2,900,284, 8-18-59, Cl. 127-37.
- Oshima, Shintaro, and H. Enomoto, to Kokusai Denshin Denwa Co., Ltd. Device for making any desired frequency characteristic circuit. 2,883,109, 4-21-59, Cl. 235-183.
- Oshins, Ned N., to Wasco Chemical Co., Inc. Daylight dome ventilator construction. 2,885,948, 5-12-59, Cl. 98-116.
- Oshry, Howard I.: See—  
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- Oshry, Howard I., to Erie Resistor Corp. Switch. 2,877,324, 3-10-59, Cl. 200-168.
- Oshry, Howard I., to Erie Resistor Corp. Method of making titanium dioxide capacitors. 2,899,345, 8-11-59, Cl. 148-6.3.
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- Ostler, John S. Porous trays for artists' colors. 2,914,876, 12-1-59, Cl. 41-4.
- Osnabrucker Kupfer- und Drahtwerk: See—Raydt, Ulrich, and Hahne. 2,869,220.
- Osner, Clarence W. Beamless brake rigging. 2,892,515, 6-30-59, Cl. 188-52.
- Osojnak, Boris M., and R. Gray, to Heyl & Patterson, Inc. Car dumper. 2,896,935, 7-28-59, Cl. 265-71.
- Osolin, Hans: See—Hochuli, Ernst, Osolin, Schuerch, and Zumstein. 2,873,204.
- Osovski, Conrad A.: See—Baird, Joseph J., and Osovski. 2,911,018.
- Osovski, Conrad A., and R. H. Shaver, to Chesebro Whitman Mfg. Corp. Convertible ladders. 2,873,903, 2-17-59, Cl. 228-25.
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- Scheiterlein, Andreas, and Skatsche. 2,873,734.
- Opplack, Joseph J., to Vinco Corp. Grinding wheel dresser. 2,907,314, 10-6-59, Cl. 125-11.
- Orow, Harold: See—Orow, Leonard and H. 2,901,213.
- Orow, Leonard and H. Valved flow control coupling. 2,901,213, 8-25-59, Cl. 251-352.
- Ossenbrunner, Armin: See—Klockgether, Helfried, Muller, and Ossenbrunner. 2,874,046.
- Ossenbrunner, Armin, H. Klockgether, W. Starck, and W. Langbein,  $\frac{1}{2}$  to Agfa Aktiengesellschaft and  $\frac{1}{2}$  to Farbwerke Hoechst Aktiengesellschaft. Photographic filter layers. 2,913,351, 11-17-59, Cl. 117-33.3.
- Osswald, Gerhard: See—Klein, Werner, Friz, and Osswald. 2,908,843.
- Osswald, Philipp, E. Friedel, F. Arimont, and L. Hill, to Inventa A.G. fur Forschung und Patentverwertung. Process for producing substantially pure free-running urea granules. 2,919,184, 12-29-59, Cl. 71-64.
- Osten, Fred C., Sr. Automatically-locking sash balance for removable sash windows. 2,903,736, 9-15-59, Cl. 16-197.
- Osten, Fred C., Sr. Sill construction for gliding windows. 2,911,688, 11-10-59, Cl. 20-11.
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- Oster, Gerald. Photopolymerization with the formation of coherent plastic masses. 2,875,047, 2-24-59, Cl. 96-35.
- Oster, Harvey J. C., Jr., to C. M. Lovsted & Co., Inc. Elevator for use in a lumber stacker. 2,895,624, 7-21-59, Cl. 214-6.
- Oster, John, Mfg. Co.: See—Bednarski, Thaddeus E. 2,898,709.
- Neff, Gene M. 2,885,833.
- Ulke, William. 2,879,589.
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- Chasar, Anthony R., and Martin. 2,919,092.
- Oster, Stanley M.: See—Wilson, Louis D., Oster, and Ash. 2,868,340.
- Oster, Thomas H., to Ford Motor Co. Differential drive. 2,881,330, 4-7-59, Cl. 290-15.
- Osterer, David G.: See—Rudd, Wallace C., Cameron, and Osterer. 2,898,440.
- Osterhaus, Leo A., to Silver Streak Mfg. Co. Renewable plow edge. 2,884,082, 4-28-59, Cl. 172-719.
- Osterhout, Ross V., and W. C. Shrier, to Caterpillar Tractor Co. Remote control for pipeline pumping engines. 2,869,466, 1-20-59, Cl. 103-27.
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- Ostermann, W. & M.: See—Ostermann, Max, and Klein. 2,911,875.
- Ostermeyer, Norman: See—Feller, Arthur G. 2,898,606.
- Östern, Carl A., to Norsk Sprængstofindustri A/S. Method of wrapping or packaging plastic materials and a machine for carrying out the method. 2,883,811, 4-28-59, Cl. 53-123.
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- Ostertag, Otto, and E. Stähle, to Robert Bosch G.m.b.H. Tool support. 2,913,996, 11-24-59, Cl. 104-14.
- Osthoff, Robert C.: See—Hurd, Dallas T., and Osthoff. 2,867,599.
- Osthoff, Robert C., to General Electric Co. Purification of tungsten carbide. 2,913,314, 11-17-59, Cl. 23-208.
- Ostler, Josef: See—Zwick, Kurt, and Ostler. 2,891,452.
- Ostline, John E., to General Telephone Laboratories, Inc. Toll ticketing telephone systems. 2,881,259, 4-7-59, Cl. 179-18.
- Ostline, John E., to General Telephone Laboratories, Inc. Relay assembly. 2,912,542, 11-10-59, Cl. 200-104.
- Ostline, John E., and W. J. Phillips, to General Telephone Laboratories, Inc. Director hunter and selector. 2,901,545, 8-25-59, Cl. 179-18.
- Ostline, John E., and M. H. Esperseth, to General Telephone Laboratories, Inc. Toll ticketing system remote operator trunk. 2,917,582, 12-15-59, Cl. 179-7.1.
- Ostlund, Earl W. Retractable clothesline device. 2,872,047, 2-3-59, Cl. 211-119.15.
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- Ostrander, Charles W., to Allied Research Products Inc. Testing material. 2,902,348, 9-1-59, Cl. 23-230.
- Ostrander, Charles W., and N. Congiundi, to Allied Research Products, Inc. Formulation for producing a protective bright chemically polished surface on zinc and cadmium. 2,904,414, 9-15-59, Cl. 41-42.
- Ostrow, Edward D., and M. A. Meyer, to Laboratory for Electronics, Inc. Transistor counter. 2,902,609, 9-1-59, Cl. 307-88.5.
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- Ostrom, Raymond A., and J. K. Lentz, to Durakool, Inc. Shock mount assembly for electrical devices. 2,892,064, 6-23-59, Cl. 200-168.
- Ostrow, Barnet O.: See—Nobel, Fred I., and Ostrow. 2,891,896.
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- Ostrow, Henry J. Electric door mat. 2,805,159, 7-21-59, Cl. 15-311.
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- Ostrowski, Walter. Sharpening device for razor blades. 2,871,628, 2-3-59, Cl. 51-153.
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- O'Sullivan, Martin H. Fishing lure. 2,875,549, 3-3-59, Cl. 43-42.22.
- O'Sullivan, Patrick J., to Colgate-Palmolive Co. Folded pad and method of manufacture thereof. 2,900,655, 8-25-59, Cl. 15-209.
- Oswald, Anthony C. Wall ventilator. 2,905,072, 9-22-59, Cl. 98-29.
- Oswald, Harry J., to F. N. Bard. Packed swivel joint with anti-friction means to reduce packing wear. 2,907,590, 10-6-59, Cl. 285-98.
- Oswald, Jacques, to Compagnie Industrielle des Telephones. Adjustable correcting networks. 2,914,738, 11-24-59, Cl. 333-28.
- Oswald, John: See—Neely, William H., and Oswald. 2,876,826.
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- Oswald, Richard L., to D. P. Bushnell. Optional gun sight reticule enlarging device. Re. 24,692, 8-25-59, Cl. 33-50.
- Oswald, Robert L., and M. E. Cornell, to Westinghouse Air Brake Co. Railway traffic control apparatus. 2,902,594, 9-1-59, Cl. 246-219.
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- Oswalt, Andrew J. Mercury separator. 2,889,946, 6-2-59, Cl. 210-153.
- Oswalt, Burlin W., to The B. F. Goodrich Co. Hydraulic automatic adjusting mechanism. 2,918,797, 12-29-59, Cl. 60-54.5.
- Oswandel, Edward F., to Titanium Metals Corp. of America. Reclaiming scrap sheet. 2,891,286, 6-23-59, Cl. 18-59.3.
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- Oswin, Charles R.: See—Berry, William, Rose, Phillips, and Oswin. 2,910,385.
- Othmer, Donald F. Process for recovering volatile aliphatic acids. 2,867,655, 1-6-59, Cl. 260-527.
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- Ott, Arnold C.: See—  
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- Ott, Charles J.: See—  
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- Ott, Edward E., to Avco Mfg. Corp. Method and fixture for identifying conductors. 2,898,242, 8-4-59, Cl. 117—212.
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- Ott, Hermann. Follower magnifier for planimeters or similar instruments. 2,899,861, 8-18-59, Cl. 83—39.
- Ott, John B., to Monsanto Chemical Co. Process of hydrolyzing an acrylonitrile polymer in the presence of nickel ion. 2,916,477, 12-8-59, Cl. 260—88.7.
- Ott, John E., to Acme Steel Co. Punch lock forming machine. 2,913,939, 11-24-59, Cl. 81—9.3.
- Ott, John E., and C. G. Heslet, to Acme Steel Co. Grain car door. 2,871,936, 2-3-59, Cl. 160—368.
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 Frey, Julius, Ott, and Brinkmann. 2,908,369.
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- Ottawa Silica Co.: See—  
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- Ottercraft Products, Inc.: See—  
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- Ottmann, Gerhard, to Olin Mathieson Chemical Corp. 9-azabicyclo-[4.2.1]-nona-2,4-dienes. 2,900,389, 8-18-59, Cl. 260—313.
- Otto, Carl. Coke oven. 2,868,277, 1-13-59, Cl. 158—7.5.
- Otto, Carl. Method of and apparatus for producing ammonium sulphate crystals. 2,895,800, 7-21-59, Cl. 23—119.
- Otto, Carl L., and L. N. B., and J. Briton, to Caronelle, Inc. Core member of foam material for hair curlers. 2,867,222, 1-6-59, Cl. 132—39.
- Otto Construction Corp.: See—  
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- Otto, Dettmer H., to Western Electric Co., Inc. Butt welding apparatus. 2,874,262, 2-17-59, Cl. 219—57.
- Otto, Ferdinand P.: See—  
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- Otto, Fritz, to A. Stephan u. Sohne. Meat cutter. 2,894,551, 7-14-59, Cl. 146—68.
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- Otto, Harold M., deceased (by Schenectady Trust Co., executor), to United States of America, Army. Multibarrel gun with skewed bore axes. 2,872,847, 2-10-59, Cl. 89—12.
- Otto, Heinrich, and A. Mogk, to The Babcock & Wilcox Co. Steam generating unit with plural combustion chambers separated by a partition wall of steam generating tubes. 2,897,794, 8-4-59, Cl. 122—240.
- Otto, Howard K.: See—  
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- Otto, La Nelle B.: See—  
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- Otto, Stuart. Electromagnetic packaging apparatus. 2,899,783, 8-18-59, Cl. 53—59.
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- Otto, William H. Ventilator. 2,884,847, 5-5-59, Cl. 98—86.
- Ottoson, Dean C., to Ottoson Solvents Inc. Cleaning equipment. 2,896,643, 7-28-59, Cl. 134—99.
- Ottoson Solvents Inc.: See—  
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- Ouellette, Herve J.: See—  
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- Ouellette, Maxime E. Rural mail box. 2,898,066, 8-4-59, Cl. 248—145.
- Ouellette, Raymond L. Box construction for carrying bottles. 2,891,696, 6-23-59, Cl. 220—113.
- Oussani, James J. Automatic stapler. 2,877,461, 3-17-59, Cl. 1—101.
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- Soder, Edward P., Jr. 2,906,251.
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- Outtonson, Charles R., R. S. Bell, and H. W. Ellerson, Jr., to The Albermarle Paper Mfg. Co. Process for bleaching and sizing paper pulp. 2,878,119, 3-17-59, Cl. 92—21.
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- Ovens, Florence M.: See—  
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- Ovens, Robert C.: See—  
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- Overbaugh, Charles B. Golf ball tee. 2,898,110, 8-4-59, Cl. 273—210.
- Overbaugh, Sidney C., to E. I. du Pont de Nemours and Co. Polymerization of ethylene with an initiator containing tertiary alkyl perester and tertiary alkyl hydroperoxide. 2,909,513, 10-20-59, Cl. 260—94.9.
- Overdick, Fritz: See—  
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- Overeem, Hendrik: See—  
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- Overhead Door Corp.: See—  
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- Schacht, Clifford A., Jr. 2,869,637.
- Stroup, Earl L. 2,867,466.
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- Overly, Elmer G. Envelopes. 2,913,163, 11-17-59, Cl. 229—72.
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- Overman, Earl R., deceased, by M. B. Overman, executrix. Two-stage bagging machine. 2,869,296, 1-20-59, Cl. 53—24.



- Overman, Guy R., to General Motors Corp. Steering wheel. 2,892,359, 6-30-59, Cl. 74-484.
- Overman, James H.: *See—*  
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- Overman, Mary B.: *See—*  
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- Overstreet, Henry H.: *See—*  
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- Overton, Edgar R. Playground device resembling a turtle. 2,886,317, 5-12-59, Cl. 272-60.
- Overton, Glen. Atmospheric and vacuum drum dryer. 2,880,523, 4-7-59, Cl. 34-92.
- Overton, Glen. Apron for drum driers. 2,886,101, 5-12-59, Cl. 159-11.
- Overton, Harold C., to Allis-Chalmers Mfg. Co. Dusting mechanism. 2,919,157, 12-29-59, Cl. 302-51.
- Overton, William C., Jr., to Socony Mobil Oil Co., Inc. Acoustic well logging with end shielding. 2,878,886, 3-24-59, Cl. 181-5.
- Ovist, Elwin B.: *See—*  
Kundiger, Donald G., and Ovist. 2,873,293.
- Ovist, Elwin B. W.: *See—*  
Kundiger, Donald G., and Ovist. 2,881,218.  
Kundiger, Donald G., and Ovist. 2,882,318.
- Overvik, Glenn S. Means for detecting the defective element in a series connection. 2,870,377, 1-20-59, Cl. 315-92.
- Ovshinsky, Stanford R., to Tann Corp. Magnetic rectifier. 2,904,741, 9-15-59, Cl. 321-48.
- Ovshinsky, Stanford R., to Tann Corp. Signal responsive device. 2,917,599, 12-15-59, Cl. 200-87.
- Owada, Eddie T.: *See—*  
Woodward, Roy E., and Owada. 2,911,969.
- Owades, Joseph L.: *See—*  
Brenner, Mortimer W., and Owades. 2,884,352.
- Owatonna Mfg. Co., Inc.: *See—*  
Dyrdahl, Gordon H. 2,908,126.
- Owczarek, Jerzy A. Glove. 2,883,668, 4-28-59, Cl. 2-159.
- Owen, Alan E., to North American Philips Co., Inc. Photoconductive cell. 2,898,240, 8-4-59, Cl. 117-211.
- Owen, Alexander B., to Texas Instruments Inc. Seismic mud pump. 2,887,955, 5-26-59, Cl. 103-48.
- Owen Bucket Co., The: *See—*  
Takacs, Robert J. 2,894,781.
- Owen, Charles E.: *See—*  
Millership, Ronald, and Owen. 2,914,757.
- Owen, Charles J.: *See—*  
Higgs, Richard F., and Owen. 2,870,070.
- Owen, Claude M., to Chase Equipment Corp. Non-jamming vibratory hopper. 2,872,019, 2-3-59, Cl. 198-33.
- Owen, Cydwell A.: *See—*  
Troeger, Henry, and Owen. 2,883,839.
- Owen, Edwin E., to Raven Industries, Inc. Liquid containing structure using plastic film. 2,907,362, 10-6-59, Cl. 150-5.
- Owen, Edwin H. Cooling means for television receivers. 2,897,487, 7-28-59, Cl. 340-367.
- Owen, Frank M., and C. W. Pewthers, to Owen-Pewthers Mfg. Co., Inc. Bucket line. 2,915,838, 12-8-59, Cl. 37-90.
- Owen, Frederick E. Fluid valving spark plug. 2,892,112, 6-23-59, Cl. 313-11.5.
- Owen, George E., to Nuclear Corp. of America, Inc. Hydrogen content analysis. 2,872,583, 2-3-59, Cl. 250-43.5.
- Owen, Harrold D., to Welx, Inc. Open hole perforator firing means. 2,889,775, 6-9-59, Cl. 102-20.
- Owen, Harry L. Store front structure. 2,917,793, 12-22-59, Cl. 20-56.3.
- Owen, James R., to Phillips Petroleum Co. Dehydrogenation process and catalyst. 2,902,522, 9-1-59, Cl. 260-680.
- Owen, Joe D., to Phillips Petroleum Co. Core logging device. 2,875,401, 2-24-59, Cl. 324-13.
- Owen, Joe D., to Phillips Petroleum Co. Electrical well logging. 2,916,691, 12-8-59, Cl. 324-1.
- Owen, John C.: *See—*  
Noxon, Paul A., Owen, and Bennett. 2,886,760.
- Owen, John C., to Bendix Aviation Corp. Servosystem pitch control for aircraft. 2,873,418, 2-10-59, Cl. 318-489.
- Owen, John J., and J. Fedirko, to Esso Research and Engineering Co. Desulfurization of high sulfur fluid coke particles. 2,872,383, 2-3-59, Cl. 202-31.
- Owen, Lambert: *See—*  
Gelbach, Herman R., and Owen. 2,909,061.
- Owen, Manly M. Earth working implement. 2,887,168, 5-19-59, Cl. 172-67.
- Owen, Paul M.: *See—*  
Clark, Herbert, Owen, and Starr. 2,899,866.
- Owen-Pewthers Mfg. Co., Inc.: *See—*  
Owen, Frank M., and Pewthers. 2,915,838.
- Owen, Richard: *See—*  
Kuhrmeyer, Carl A., Owen, and Favorite. 2,891,165.
- Owen, Richard, to Minnesota Mining & Mfg. Co. Heat-sensitive copying-paper. 2,910,377, 10-27-59, Cl. 117-36.
- Owen, Richard, to Minnesota Mining and Mfg. Co. Heat-sensitive copy-paper. 2,916,395, 12-8-59, Cl. 117-36.
- Owen, Robert E., to General Motors Corp. Resilient bushing. 2,868,571, 1-13-59, Cl. 287-85.
- Owen, Robert R., J. F. Cykler, and R. T. Tribble, to Pineapple Research Institute of Hawaii. Moldboard plow with plastic resin covering. 2,913,060, 11-17-59, Cl. 172-747.
- Owen, Ronald V., and N. A. Hurt, to Lever Brothers Co. Method of caustic recovery in soap manufacture. 2,899,450, 8-11-59, Cl. 260-418.
- Owen, Theodore J. Scaffold support and its use. 2,876,046, 3-3-59, Cl. 304-5.
- Owen, Thomas W.: *See—*  
Dakin, Geoffrey, and Owen. 2,902,723.
- Owen, Trefor: *See—*  
Neville, Sidney, and Owen. 2,899,855.
- Owen, William, to Pittsburgh Plate Glass Co. Glass grinding and polishing apparatus. 2,882,652, 4-21-59, Cl. 51-168.
- Owen, William L., to J. U. Barr. Production of mud-laden drilling fluids. 2,868,725, 1-13-59, Cl. 252-8.5.
- Owen, William L. Treatment of starches and gums, and compositions thereof. 2,908,597, 10-13-59, Cl. 127-71.
- Owens, Austin P., to General Electric Co. Universal welding head. 2,883,515, 4-21-59, Cl. 219-86.
- Owens-Corning Fiberglas Corp.: *See—*  
Allen, Frank E. 2,877,670.  
Bauers, Barton M., Sr. 2,887,722.  
Bay, Ernest, and Kelley. 2,904,976.  
Brautigam, Richard H. 2,873,718.  
Caroselli, Remus F., and Gagnon. 2,868,668.  
Drennan, James G. 2,889,967.  
Fletcher, Ed. 2,906,470.  
Frickert, Philip J. 2,900,700.  
Frickert, Philip J., and Russell. 2,886,877.  
Frickert, Philip J., and Smock. 2,875,503.  
Grant, John A. 2,915,806.  
Horton, Richard C., Miller, and Lydic. 2,867,891.  
Kalousek, George L. 2,875,075.  
Kendall, Roy C. 2,915,795.  
Kingsbury, Ralph N., and Caroselli. 2,900,275.  
Long, Luther L., and Trout. 2,914,806.  
Machlan, George R. 2,876,120.  
Marzocchi, Alfred, Caroselli, and Rammel. 2,868,669.  
McCormick, John M. 2,890,347.  
Miller, William H., and Alexander. 2,910,383.  
Park, John K., and Marzocchi. 2,886,470.  
Pearson, Arthur J., and Tomlinson. 2,890,147.  
Roberson, Cletis L., and Tiede. 2,891,686.  
Russell, Robert G. 2,868,358.  
Russell, Robert G. 2,883,798.  
Russell, Robert G. 2,895,789.  
Russell, Robert G. 2,908,036.  
Russell, Robert G. 2,916,347.  
Russell, Robert G., and Denelsbeck. 2,910,806.  
Russell, Robert G., Smart, and Riley. 2,875,893.  
Shannon, Richard F., and Mitchell. 2,901,379.  
Simpson, Frank R. 2,884,159.  
Slayter, Games, and Drummond. 2,914,835.  
Slayter, Games, and Steitz. 2,915,170.  
Smith, Roy E. 2,891,798.  
Snow, Henry J., and York. 2,881,471.  
Stalego, Charles J., and Snow. 2,897,874.  
Taylor, William C. 2,915,409.  
Vonnegut, Bernard. 2,916,773.  
Walker, Frederick W., Cady, and Johnston. 2,881,110.  
Waugh, John A. 2,909,827.  
Welsch, William W. 2,877,124.  
Welsch, William W. 2,882,173.  
Whitehurst, Harry B. 2,880,552.  
Whitehurst, Harry B. 2,900,274.  
Woodward, Robert M. 2,900,252.
- Owens, Delmar D. Furniture for a physically handicapped person. 2,894,267, 7-14-59, Cl. 5-68.
- Owens, Donald L. Machine for setting up collapsed paper-board boxes. 2,907,252, 10-6-59, Cl. 93-49.
- Owens, Freeman H. Roll film camera. 2,890,635, 6-16-59, Cl. 95-31.
- Owens-Illinois Glass Co.: *See—*  
Allen, Russell G. 2,888,131.  
Allison, Blaine M., and Schmid. 2,894,284.  
Anderson, Norman G. 2,878,994.  
Augsburger, Herbert M. 2,919,297.  
Badger, Alfred E. 2,881,566.  
Barnby, Herbert A. 2,899,051.  
Bjering, Olav. 2,876,606.  
Bjering, Olav. 2,884,751.  
Beck, Basil D., Sr., and Swain. 2,909,005.  
Bode, Wolfe. 2,888,780.  
Bowe, George R., Schutz, and Suchocki. 2,908,598.  
Burch, Oscar G. 2,898,633.  
Celley, Albert F. 2,896,798.  
Chapman, George C., Pfander, and Holscher. 2,905,846.  
Conrad, Keith. 2,873,555.  
Dapp, Robert J., and Cozine. 2,873,854.  
Dence, Richard B., and Schaich. 2,904,810.  
Denman, Robert R., and Trudeau. 2,903,824.  
Fedorchak, William J., Early, and Johnessee. 2,868,061.  
Ferguson, Oscar, Jr. 2,909,267.  
Fillmore, William E. 2,903,159.  
Franel, Josef, and Logiudice. 2,918,757.  
Fraser, George L. 2,888,781.  
Greenamyer, William H. 2,896,784.  
Hackett, James W. 2,908,034.  
Hall, Lynn O., Jr. 2,867,544.



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- Hansen, Melvin O. 2,885,957.  
 Henry, Kenneth M., and Vincent. 2,874,017.  
 Hohl, John. 2,890,814.  
 Hohl, John. 2,917,880.  
 Hohl, John, and Bjering. 2,915,029.  
 Hohl, John, and Wheaton. 2,909,879.  
 Holler, Edward J., Jr. 2,883,690.  
 Husum, Charles W., and Flaskamp. 2,910,397.  
 Jenkins, Albert S. 2,899,349.  
 Jenkins, Albert S. 2,912,042.  
 Johnson, John R. 2,882,061.  
 Keefer, George E. 2,910,194.  
 Keefer, George E. 2,910,196.  
 Keefer, George E. 2,910,199.  
 Keefer, George E. 2,915,342.  
 Kozak, John. 2,867,551.  
 Lauck, Albert G. 2,912,093.  
 McCormick, John H. 2,873,855.  
 McCormick, John M. 2,901,865.  
 McLaughlin, John E., and Allgever. 2,913,852.  
 Miller, John D. 2,908,436.  
 Miller, John G. 2,894,285.  
 Monks, Joseph R., Jr., and Swain. 2,884,744.  
 Mumford, Eustace H. 2,867,335.  
 Mumford, Eustace H. 2,918,756.  
 Mumford, George V., and Soubier. 2,878,520.  
 Olson, Ralph H. 2,881,564.  
 Olson, Ralph H. 2,910,195.  
 Olson, Ralph H. 2,910,200.  
 Pawlicki, Clarence D. 2,894,359.  
 Pinotti, Alfred D. 2,913,509.  
 Randlett, Edward A. 2,913,134.  
 Richie, Carlton A. 2,867,589.  
 Rough, Robert R. 2,908,738.  
 Schaefer, Earl F. 2,895,846.  
 Schaich, Wilbur A. 2,912,708.  
 Schaich, Wilbur A. 2,913,746.  
 Schaich, Wilbur A., and Gasmire. 2,910,712.  
 Schmel, Irving. 2,917,219.  
 Schreiber, Carl W. 2,904,161.  
 Sherman, Orville B. 2,896,251.  
 Sherman, Orville B., and Mumford. 2,871,516.  
 Sherman, Orville B., and Soubier. 2,901,769.  
 Soubier, Leonard D. 2,890,483.  
 Soubier, Leonard D. 2,911,673.  
 Smith, Ralph H. 2,895,739.  
 Steierman, Bernard L. 2,919,210.  
 Tallent, Benjamin F. 2,882,647.  
 Thomson, John W., Jr. 2,896,647.  
 Toepfer, Walter J., and Prendergast. 2,909,004.  
 Trudeau, Urban P. 2,870,654.  
 Uhlig, Albert F. 2,886,127.  
 Van Steyn, Gerard K. 2,878,619.  
 Vincent, Harvard B. 2,878,623.  
 Vincent, Harvard B. 2,899,575.  
 Vincent, Harvard B. 2,905,845.  
 Wallace, Robert T. 2,893,456.  
 Wilson, James C. 2,875,942.  
 Wolford, Wallace W. 2,879,883.  
 Wolford, Wallace W. 2,890,786.  
 Wright, Joseph W. 2,890,548.  
 Zimmerman, George. 2,867,948.
- Owens, James B., to Westinghouse Electric Corp. Circuit interrupting device. 2,911,506, 11-3-59, Cl. 200-146.  
 Owens, Lloyd, to Horizons Inc. Protected photoconductive element and method of making same. 2,886,434, 5-12-59, Cl. 96-1.  
 Owens, Robert G., and E. Kroll, to International Latex Corp. Flexible container. 2,896,237, 7-28-59, Cl. 15-136.  
 Owens, Robert M., to The M. W. Kellogg Co. Apparatus for catalytic conversion of hydrocarbon fluids. 2,873,175, 2-10-59, Cl. 23-288.  
 Owens, Robert S. Knottable glass fiber strand. 2,903,779, 9-15-59, Cl. 28-80.  
 Owens, Sylvester. Clasp. 2,902,738, 9-8-59, Cl. 24-217.  
 Owings, Thomas. Hypodermic needles. 2,904,045, 9-15-59, Cl. 128-221.  
 Ownbey, Hector L. Well screen and drive shoe assembly. 2,905,249, 9-22-59, Cl. 166-157.  
 Owsen, Peter. Collapsible article. 2,880,902, 4-7-59, Cl. 220-8.  
 Owsley, William D., to Halliburton Oil Well Cementing Co. High pressure plug valve. 2,911,187, 11-3-59, Cl. 251-316.  
 Oxaal, Arne, to North Electric Co. Automatic telephone system. 2,872,519, 2-3-59, Cl. 179-8.5.  
 Oxberry, John W., ½ to A. K. Livingston and ½ to Longines-Wittnauer Watch Co., Inc. Film gate for combined camera and projector. 2,912,898, 11-17-59, Cl. 88-17.  
 Oxenfort, Berthold, and U. Aldinger, to Robert Bosch G. m. b. H. Injection pump assembly. 2,869,529, 1-20-59, Cl. 123-140.  
 Oxford, William F., Jr., to Sun Oil Co. Protecting ferrous metals from corrosion. 2,914,475, 11-24-59, Cl. 252-8.55.  
 Oxford, William F., Jr., to Sun Oil Co. Polyamine naphthenates. 2,914,557, 11-24-59, Cl. 260-501.  
 Oxley, LeRoy V., and C. M. Blythe, to Robotyper Corp. Method and means of simultaneously addressing letter-heads and envelopes. 2,916,128, 12-8-59, Cl. 197-5.
- Oxley, Peter, N. W. Bristow, G. A. H. Williams, G. Woolfe, and E. C. Wilmshurst, to Boots Pure Drug Co. Ltd. Acetanilide derivatives and the manufacture thereof. 2,904,590, 9-15-59, Cl. 260-562.  
 Oxley, Peter, N. W. Bristow, G. Woolfe, and G. A. H. Williams, to Boots Pure Drug Co. Ltd. New acetanilides derivatives and the manufacture thereof. 2,912,438, 11-10-59, Cl. 260-340.5.  
 Oxley, Robert F. Fittings for attachment to perforated members. 2,911,460, 11-3-59, Cl. 174-153.  
 Oxley, Thomas A., to Scottish Mechanical Light Industries Ltd. Measurement of moisture content. 2,870,404, 1-20-59, Cl. 324-65.  
 Oxy-Catalyst, Inc.: See—  
 Bratton, Alfred I. 2,873,071.  
 Hayes, Cietus T. 2,898,201.  
 Houdry, Eugene J. 2,872,906.  
 Houdry, Eugene J. 2,909,415.  
 Houdry, Eugene J., and Calvert. 2,867,497.  
 Houdry, Eugene J., Eriksson, and Coudray. 2,898,202.  
 Houdry, Eugene J., and Harrison. 2,889,288.  
 Houdry, Eugene J., and Hayes. 2,905,523.  
 Oyler, Glenn W.: See—  
 Lobosco, Roscoe R., Messina, and Oyler. 2,871,336.  
 Reed, Thomas B., Maier, and Oyler. 2,874,265.  
 Oyler, Glenn W., J. Maier, III, and T. B. Reed, to Union Carbide Corp. Constricted arc apparatus and process. 2,884,510, 4-28-59, Cl. 219-69.  
 Oyler, Glenn W., and J. Maier, III, to Union Carbide Corp. Constricted arc metal removal. 2,886,692, 5-12-59, Cl. 219-69.  
 Oyler, Glenn W., and J. Maier, III, to Union Carbide Corp. Arc torch and process. 2,890,322, 6-9-59, Cl. 219-69.  
 Oyster, Duane E., to American Brake Shoe Co. Hydraulic shock damping apparatus. 2,905,190, 9-22-59, Cl. 127-108.  
 Ozanich, Anthony R. Tail gate latch control assembly for tilting dump trucks. 2,876,038, 3-3-59, Cl. 298-23.  
 Ozinga, Peter K. Perforation clean out tool. 2,918,973, 12-29-59, Cl. 166-171.  
 Ozonair Engineering Co. Ltd.: See—  
 Field, Sydney J. 2,878,892.  
 Ozor, Louis. Bag intucking device. 2,911,778, 11-10-59, Cl. 53-371.  
 PGAC Development Co.: See—  
 Castel, Jacques H. 2,917,280.  
 Scherbatskoy, Serge A. 2,911,536.  
 Vestermark, Lyle A. 2,905,247.  
 PLM Products, Inc.: See—  
 Horrocks, Raymond G., Miller, and Brenner. 2,912,482.  
 P. O. Stokkebyes Kvarnaktiebolag: See—  
 Blomqvist, Georg H., and Malm. 2,868,648.  
 PSC Applied Research Ltd.: See—  
 Bridgman, Joseph M., and Schmidt. 2,913,975.  
 Pääbo, Max. Device for effecting equal tensile stresses in two threads. 2,918,092, 12-22-59, Cl. 139-64.  
 Paananen, Roy A.: See—  
 Osepchuk, John M., and Paananen. 2,905,859.  
 Paananen, Roy A., to Raytheon Co. Traveling wave tubes. 2,914,700, 11-24-59, Cl. 315-39.3.  
 Pabst Brewing Co.: See—  
 Deren, Pincus. 2,906,624.  
 Shakman, James G. 2,894,844.  
 Weiner, Lewis P. 2,883,046.  
 Pabst, Carl F., and A. C. Nolte, to The Lodge & Shipley Co. Control mechanism. 2,916,018, 12-8-59, Cl. 121-46.5.  
 Pabst, Otto E.: See—  
 Botti, Argentino B., and Pabst. 2,909,822.  
 Pabst, Rudolf, and W. E. Thomas, to Prism Signs Inc. Sign. 2,915,843, 12-8-59, Cl. 40-130.  
 Pabst, Rudolf, and W. E. Thomas, to Prism Signs Inc. Plural lens optical screen. 2,915,935, 12-8-59, Cl. 88-1.  
 Pacault, Pierre, to The Babcock & Wilcox Co. Reheater steam generating unit with gas recirculation for reheat control. 2,905,156, 9-22-59, Cl. 122-478.  
 Pacciari, Antonio, and U. Nuara, to Pirelli S.p.A. Auxiliary apparatus for use in the manufacture of tires. 2,878,856, 3-24-59, Cl. 154-9.  
 Pace, Canio. Motor winding. 2,894,158, 7-7-59, Cl. 310-180.  
 Pace, Ernest L.: See—  
 Umphred, Edwin F., Jr., and Pace. 2,905,232.  
 Pace, Henry A., to The Goodyear Tire & Rubber Co. Process for the preparation of foamed polyurethanes. 2,879,233, 3-24-59, Cl. 260-2.5.  
 Pace, Henry A., to The Goodyear Tire & Rubber Co. Preparation of flexible elastomeric polyurethane cellular materials. 2,888,411, 5-26-59, Cl. 260-2.5.  
 Pace, Henry A., to The Goodyear Tire & Rubber Co. Preparation of flexible elastomeric cellular polyurethane materials. 2,888,413, 5-26-59, Cl. 260-2.5.  
 Pace, Inc.: See—  
 Cassidy, Robert J. 2,904,037.  
 Pace, Robert M. Submersible pump filter-skimmer for swimming pools. 2,900,079, 8-18-59, Cl. 210-169.  
 Pacetti, Veto. Cradle car. 2,875,706, 3-3-59, Cl. 105-374.  
 Pachmayr, Frank A., to M. Hattan. Lock nut utilizing a coiled spring. 2,888,853, 6-2-59, Cl. 85-32.  
 Pachter, John J., to Acme Steel Co. Strap sealing tool. 2,868,048, 1-13-59, Cl. 81-9.1.



- Pacific Car and Foundry Co.: *See*—  
Hendrickson, Ellis C., and Kirschner. 2,916,093.  
Henrikson, Thor O. 2,909,292.  
Norrie, Robert C. 2,896,469.  
Norrie, Robert C. 2,913,252.
- Pacific Clay Products: *See*—  
Bennett, Albert L. 2,912,741.
- Pacific Foundry Co., Ltd.: *See*—  
Hartley, Henry J., and Rankin. 2,877,100.
- Pacific Industrial Mfg. Co.: *See*—  
Richardson, Rolland A. 2,906,096.
- Pacific Mercury Television Mfg. Corp.: *See*—  
Bonham, Don L. 2,913,948.
- Pacific Mills: *See*—  
Joy, Raymond D. 2,900,468.  
Wheelock, Silas M. 2,867,005.  
Wilkie, Robert C. 2,867,077.
- Pacific Pulp Molding Co.: *See*—  
Pick, Charles O. 2,891,687.
- Pacific Scientific Aeroproducts: *See*—  
Cushman, Clifford E. 2,899,732.  
Cushman, Clifford E., and Wrighton. 2,899,836.
- Pacific Semiconductors, Inc.: *See*—  
Carman, Justice N., Jr. 2,881,369.  
Harrington, Allan L., and Hall. 2,913,358.  
Millea, Michael F., and Holland. 2,908,851.  
Sabagun, Armen N. 2,908,376.
- Pacific Valves, Inc.: *See*—  
Norton, Charles G. 2,870,580.
- Pacific Wood Products Co.: *See*—  
Kneisel, Joseph P. 2,897,040.
- Pacific Coast Engineering Co.: *See*—  
Ramsden, Charles D., and Weidenbach. 2,909,899.
- Pacific Coast Foil Co.: *See*—  
Jorgenson, Ralph J. 2,878,128.
- Pacini, Humbert P., to Allen B. Du Mont Laboratories, Inc. Television synchronizing circuit. 2,887,530, 5-19-59, Cl. 178-7.3.
- Pacione, Albert J. Glass polishing equipment. 2,883,806, 4-28-59, Cl. 51-197.
- Pack Mfg. Co.: *See*—  
Shelly, Robert S. 2,871,080.  
Shelly, Robert S. 2,872,265.
- Package Enterprises, Inc.: *See*—  
Toby, Max E. 2,887,837.
- Package Machinery Co.: *See*—  
Corbett, Harold. 2,887,719.  
Cross, Cedric B. 2,882,665.  
Hoppe, William. 2,878,629.  
Hoppe, William, and Kramer. 2,900,777.  
Newell, Kenneth F. 2,879,063.  
Zwoyer, Walter R. 2,869,298.  
Zwoyer, Walter R., and Gausman. 2,904,304.
- Package Sealing Co. (Export) Ltd.: *See*—  
Van de Bilt, Pieter A. 2,893,657.
- Packaging Machinery Co.: *See*—  
Anderson, Andrew W. 2,905,341.  
Cross, Cedric B., and Melhorn. 2,912,092.  
Gross, Frank C. 2,911,942.  
Luczek, Walter, and Cross. 2,911,779.  
Morgenstern, David M. 2,904,861.  
Peptone, Vincent, and Luczek. 2,911,777.
- Packard-Bell Co.: *See*—  
Anderson, Carl F. 2,883,531.
- Packard, Charles A. Electromagnetic devices. 2,897,416, 7-28-59, Cl. 317-195.
- Packard, Clifton E., and W. J. Divine. Infant's bathing and dressing stand. 2,898,608, 8-11-59, Cl. 4-177.
- Packard Container Corp.: *See*—  
Rotwein, Irving. 2,908,109.
- Packard, Florence M. Auxiliary pressing attachment for ironing boards. 2,891,756, 6-23-59, Cl. 248-222.
- Packard, Martin E.: *See*—  
Nelson, Forrest A., and Packard. 2,888,638.
- Packer, Eric A.: *See*—  
Gee, Eric, Johnson, Packer, and Stephenson. 2,902,456.
- Packman, Gordon: *See*—  
Moore, Richard V., and Packman. 2,885,335.
- Packman, Percival J., and D. C. Morton, to Huntley & Palmers Ltd. Method of and apparatus for handling flat articles. 2,881,900, 4-14-59, Cl. 198-35.
- Padberg, Louis R., Jr.: *See*—  
Parker, Frederick D., and Padberg. 2,892,666.
- Padbury, John J.: *See*—  
Price, John A., and Padbury. 2,891,035.  
Wilson, Lucius H., Thomas, and Padbury. 2,884,057.
- Paddison, Eric, to The English Electric Co. Ltd. Time-overcurrent relays. 2,872,626, 2-3-59, Cl. 317-167.
- Paddock Pool Equipment Co.: *See*—  
Konopka, Alfred Z., and Lightfoot. 2,914,180.  
Ulanovsky, Jack M. 2,912,995.
- Paden, Dale D. Toggle wrench with slidable adjustment for movable jaw. 2,905,038, 9-22-59, Cl. 81-380.
- Pader, Morton: *See*—  
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- Pader, Morton, H. D. Hamilton, J. J. Miles, Jr., and G. J. McCrimlisk, to Lever Brothers Co. Process for preparing a protein food product. 2,874,049, 2-17-59, Cl. 99-14.
- Padgett, Clarence G. Film holder. 2,867,161, 1-6-59, Cl. 95-100.
- Padgett, Cletus A.: *See*—  
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- Padgett, Edward D. Color coded printed circuit. 2,888,336, 5-26-59, Cl. 41-43.
- Padgett, Edward D., to Radio Corp. of America. Directive diplex antenna. 2,895,127, 7-14-59, Cl. 343-7.
- Padgett, Robert E. and C. A. Automatic vehicle radio volume control in accordance with deflection of antenna caused by wind-drag. 2,875,330, 2-24-59, Cl. 250-20.
- Padrick, John R., to J. I. Case Co. Planter runner guard. 2,872,883, 2-10-59, Cl. 111-86.
- Padrick, John R. Pulley. 2,916,925, 12-15-59, Cl. 74-230.5.
- Paetz, Robert A., and H. J. Joyce, to Thompson Ramo Wooldridge Inc. Method and apparatus for forming turbine blades. 2,913,936, 11-24-59, Cl. 80-25.
- Paffrath, Hans-willi: *See*—  
Hoppe, Peter, and Paffrath. 2,903,380.
- Pagano, Joseph F.: *See*—  
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- Page, Ancel S. Adjustable leaf spring assembly for vehicle body mounting. 2,901,284, 8-25-59, Cl. 296-35.
- Page, Ancel S. Fifth wheel mounting assembly. 2,906,545, 9-29-59, Cl. 280-438.
- Page Belting Co.: *See*—  
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- Page, Clarence and G. A., to Page-Detroit, Inc. Mechanism for handling eggs. 2,886,168, 5-12-59, Cl. 198-188.
- Page, Clifford E., and J. Downing, to British Celanese Ltd. Wet spinning process and apparatus. 2,871,512, 2-3-59, Cl. 18-8.
- Page-Detroit, Inc.: *See*—  
Page, Clarence and G. A. 2,886,168.
- Page, Donald J., and W. H. Lucas. Apparatus and method for wrapping packages. 2,906,069, 9-29-59, Cl. 53-33.
- Page, Edward: *See*—  
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- Page Engineering Co.: *See*—  
Page, John W. 2,869,255.  
Page, John W. 2,869,735.
- Page, Frank R., to Scott & Williams, Inc. Yarn change end attachment for circular knitting machines. 2,913,890, 11-24-59, Cl. 66-125.
- Page, Franklin, Jr., to United States of America, Navy. Printer bar and magnet structure. 2,906,582, 9-29-59, Cl. 346-74.
- Page, Franklin H., Jr.: *See*—  
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- Page, George A.: *See*—  
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- Page, George D. Bend aligning and angle measuring device for large diameter pipe sections. 2,883,751, 4-28-59, Cl. 33-46.
- Page, George D. Rotary plug valve. 2,902,253, 9-1-59, Cl. 251-209.
- Page, George J., and J. Harrison, to The Spra-Con Co. Machine and method for coating using an effuser reciprocating about a path having curvilinear ends. 2,879,180, 3-24-59, Cl. 117-102.
- Page, Irving H., and H. Montague, III. Broadband noise source. 2,872,581, 2-3-59, Cl. 250-36.
- Page, Jack C.: *See*—  
Boettcher, Stephen A., and Page. 2,869,294.
- Page, John E., to Gibson Patent Containers, Ltd. Container construction. 2,902,198, 9-1-59, Cl. 229-5.7.
- Page, John S., Jr.: *See*—  
Page, John S. and John S. Page, Jr. 2,918,249.  
Page, John S., Sr., John S. Page, Jr., Antle, and Knickerbocker. 2,891,769.
- Page, John S., Jr., to Page Oil Tools, Inc. Hydraulically boosted anchor for wells. 2,881,841, 4-14-59, Cl. 166-212.
- Page, John S., Sr., John S. Page, Jr., W. H. Antle, and F. B. Knickerbocker, to Directional Engineering Co. Directional drilling tool. 2,891,769, 6-23-59, Cl. 255-1.6.
- Page, John S., and John S. Page, Jr. Fluid pressure actuated control valve. 2,918,249, 12-22-59, Cl. 251-31.
- Page, John W., to Page Engineering Co. Connection for an excavating bucket. 2,869,255, 1-20-59, Cl. 37-135.
- Page, John W., to Page Engineering Co. Trussing for booms. 2,869,735, 1-20-59, Cl. 212-144.
- Page, Mark. Musical squeeze blocks. 2,879,685, 3-31-59, Cl. 84-470.
- Page, Mark. Hollow object molding apparatus with moving heaters. 2,881,476, 4-14-59, Cl. 18-26.
- Page, Norman, to The B. F. Goodrich Co. Conductive article of footwear. 2,879,452, 3-24-59, Cl. 317-2.
- Page Oil Tools, Inc.: *See*—  
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- Page, Paul F.: *See*—  
Lambert, Harry L., and Page. 2,880,837.  
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- Page, Ralph E.: *See*—  
Hickerson, John E., Page, and Weidenhammer. 2,895,584.  
Palmer, Leon E., Page, and Hickerson. 2,879,876.
- Page, Richard W., to Chayes Dental Instrument Corp. Dental drill. 2,917,828, 12-22-59, Cl. 32-27.
- Page, Richard W., to Chayes Dental Instrument Corp. Drill-ing instrument. 2,917,829, 12-22-59, Cl. 32-27.
- Page, Robert G., to General Electric Co. Enclosed bus bar electric power distribution apparatus. 2,868,864, 1-13-59, Cl. 174-99.
- Page, Robert H.: *See*—  
Hale, Fred H., and Page. 2,873,090.
- Page, Robert M. Radio echo ranging and direction finding system. 2,874,379, 2-17-59, Cl. 343-11.
- Page, Robert M. Pulse delay system. 2,900,505, 8-18-59, Cl. 250-27.
- Page, Victor A. W., and J. R. Clark, to The Plessey Co. Ltd. Moulded resistors and electrical switches. 2,915,728, 12-1-59, Cl. 338-190.
- Pagenstedt, Bernd: *See*—  
Kuhlmann, Wilhelm, Pagenstedt, and Brabender. 2,880,093.
- Paget, George H. A. Shifting post loose leaf binder. 2,871,860, 2-3-59, Cl. 129-12.
- Paget, Reginald P., to United States of America, Air Force Variable resistor contact blade tension adjusting means. 2,883,501, 4-21-59, Cl. 201-56.
- Paggi, Louis, to M. Maccaferri. Filtering liner for barrels of extrusion machines. 2,895,167, 7-21-59, Cl. 18-30.
- Pagliacetti, Berardo, and D. V. Curzio. Roll-up blinds. 2,872,977, 2-10-59, Cl. 160-220.
- Pagliuso, Robert J. Mounting post. 2,895,697, 7-21-59, Cl. 248-187.
- Pagnotta, Pasquale A. Card table top. 2,887,349, 5-19-59, Cl. 311-106.
- Pagoda, Walter S. Shoelace tightener. 2,893,090, 7-7-59, Cl. 24-117.
- Pagonis, George A., to Light Metals Research Laboratory, Inc. Combined valve and molten metal sampling device. 2,869,370, 1-20-59, Cl. 73-422.
- Pahud, Jacques P., to Sperry Products, Inc. Supersonic wave transducers. 2,888,581, 5-26-59, Cl. 310-8.7.
- Paige, Richard E. Convertible receptacle for shipping and display. 2,868,365, 1-13-59, Cl. 206-45.
- Paige, Richard E. Gift boxes. 2,895,663, 7-21-59, Cl. 229-35.
- Paige, Walter G., to Sperry Rand Corp. Rotary printing means. 2,869,457, 1-20-59, Cl. 101-96.
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Ascoli, Enzo, and Schattli. 2,902,131.  
Gindre, Andre M. 2,890,902.  
Thevenaz, Jean. 2,882,046.
- Paine, Hedley R., to N. V. Appleton Pty. Ltd. Sealing means for adjustable louvers. 2,890,503, 6-16-59, Cl. 20-63.
- Paine, Joseph L., to General Electric Co. Oscillographic recorder. 2,915,359, 12-1-59, Cl. 346-109.
- Paine, Karl A., Jr., and P. B. McKain, to Duro Metal Products Co. Separable mounting for electric motors or the like. 2,913,200, 11-17-59, Cl. 248-16.
- Paine, Samuel H., Jr., to United States of America, Atomic Energy Commission. Jacketed uranium slugs and method. 2,894,889, 7-14-59, Cl. 204-193.2.
- Painter Brothers Ltd.: *See*—  
Nock, James L. 2,883,216.
- Painter, Giles W., to Lord Mfg. Co. Spring mounting. 2,906,523, 9-29-59, Cl. 267-1.
- Painter, Jack L., to Crown Zellerbach Corp. Boxes. 2,868,431, 1-13-59, Cl. 229-51.
- Painter, Rex. H. G., to General Motors Corp. Windscreen wiper drive mechanism. 2,882,749, 4-21-59, Cl. 74-625.
- Painter, Robert J.: *See*—  
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- Painton & Co. Ltd.: *See*—  
Pearce, Graham. 2,875,309.
- Pairotto Man-Nen-Hitsu Kabushiki Kaisha: *See*—  
Uchida, Ryujiro, and Kurihara. 2,871,825.
- Paivinen, John O., to Burroughs Corp. Delay circuit. 2,892,936, 6-30-59, Cl. 250-27.
- Pajdowski, Cleo C.: *See*—  
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- Pajes, Wolf S. Method and apparatus for impressing sub-titles on motion picture film. 2,915,581, 12-1-59, Cl. 178-6.7.
- Pajor, Joseph P., to Union Special Machine Co. Sewing machine adjustable eccentric mechanism. 2,894,471, 7-14-59, Cl. 112-209.
- Pakko, Walford S.: *See*—  
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- Pak-Mor Mfg. Co.: *See*—  
Anderson, Orin M., and Ferrari. 2,868,398.
- Pako Corp.: *See*—  
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Dye, Glen M., Sardeson, and Winter. 2,902,914.  
Kallenberg, Karl J., and Sardeson. 2,872,585.
- Pakosh, Peter, to Northern Royalties and Management Co. Ltd. Steering and transmission unit. 2,882,753, 4-21-59, Cl. 74-722.
- Pak-Rapid, Inc.: *See*—  
Karpowicz, Benjamin, Jr. 2,886,931.
- Pakswar, Serge: *See*—  
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- Pakswar, Serge, and C. S. Szegho, to The Rauland Corp. Photosensitive devices. 2,879,182, 3-24-59, Cl. 117-201.
- Palamara, Joseph P. Illuminated motion display sign. 2,891,338, 6-23-59, Cl. 40-132.
- Palcer, Joseph A.: *See*—  
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- Palco Chemical Co.: *See*—  
Ciaccio, Dominic P. 2,876,130.
- Palen, Peter H. Valves having resilient seals. 2,904,072, 9-15-59, Cl. 137-620.
- Palensky, William A. Toy airplane having retractable land-ing gear. 2,896,369, 7-28-59, Cl. 46-76.
- Palermo, Anthony, Jr., and E. B. Graves, to Picker X-Ray Corp., Waite Mfg. Division, Inc. High tension plug and method of making same. 2,911,683, 11-10-59, Cl. 18-59.
- Palermo, Dominic. Fish lure. 2,891,343, 6-23-59, Cl. 43-26.2.
- Palestri, Richard J.: *See*—  
Raft, Fritz, McGuire, and Palestri. 2,874,022.
- Paleveda, William J., and E. F. Schoenewaldt, to Merck & Co., Inc. Synthesis of imidazoles. 2,905,692, 9-22-59, Cl. 260-309.
- Paley, Albert A. Air conditioning apparatus. 2,899,803, 8-18-59, Cl. 62-291.
- Paley, Lewis A. Apparatus for treating cement slurry. 2,879,982, 3-31-59, Cl. 263-32.
- Palfreeman, Herbert, to Imperial Chemical Industries Ltd. Composite antioxidants and process of preparation thereof. 2,899,394, 8-11-59, Cl. 252-404.
- Palico Inc.: *See*—  
Jockers, Harry W. 2,908,926.
- Palik, Frantisek, to Zora, tovarena na cokoladu a cukrovinky, narodni podnik v Olomouci. Method and apparatus for the production of chocolate masses. 2,889,225, 6-2-59, Cl. 99-23.
- Paliz-Holding A.G.: *See*—  
Luchsinger, Ernst G. L. 2,881,605.
- Palizzio, Inc.: *See*—  
Dell, Thomas D. 2,881,439.
- Palka, Joseph F. Cable and ratchet wheel lifting jack. 2,884,226, 4-28-59, Cl. 254-146.
- Palka, Joseph F. Lifting jacks and supports therefor. 2,887,289, 5-19-59, Cl. 248-166.
- Palka, Joseph F. Lifting jack supports. 2,887,290, 5-19-59, Cl. 248-169.
- Pallas, Edith: *See*—  
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- Pallet Devices, Inc.: *See*—  
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Budd, Larry J. 2,895,661.  
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Budd, Larry J. 2,914,282.
- Pallmann, Ludwig. Process and device for producing flat wood shavings. 2,874,909, 2-24-59, Cl. 241-28.
- Palluel, Pierre, to Compagnie Generale de Telegraphie Sans Fil. Delay line for traveling wave tubes. 2,881,348, 4-7-59, Cl. 315-3.6.
- Palluel, Pierre, to Compagnie Generale de Telegraphie Sans Fil. Delay lines. 2,888,598, 5-26-59, Cl. 315-3.6.
- Palluel, Pierre C.: *See*—  
Guenard, Pierre R., and Palluel. 2,889,486.
- Palm, Bernhard A., to Dings Magnetic Separator Co. Wet separator. 2,912,107, 11-10-59, Cl. 209-232.
- Palm, George H. Woodworker's hand plane. 2,869,599, 1-20-59, Cl. 145-14.
- Palm, James W., to Borg-Warner Corp. Clutch assembly. 2,870,893, 1-27-59, Cl. 192-113.
- Palmatier, Everett P., to Carrier Corp. Evaporator control for absorption refrigeration systems. 2,894,380, 7-14-59, Cl. 62-476.
- Palmatier, Everett P., to Carrier Corp. Evaporator control for absorption refrigeration systems. 2,894,381, 7-14-59, Cl. 62-515.
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- Palmatier, Everett P., to Carrier Corp. Refrigerant flow control for a refrigeration system. 2,912,831, 11-17-59, Cl. 62-113.
- Palmatier, Francois N.: *See*—  
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- Palmenberg, Edward C., to Bendix Aviation Corp. Pneumatic turbine drive control system. 2,886,048, 5-12-59, Cl. 137-27.
- Palmer, Albert O., to Machlett Laboratories, Inc. Gas-filled thyratron. 2,877,372, 3-10-59, Cl. 313-242.
- Palmer, Ben. Cleaning tool and parts washer. 2,897,830, 8-4-59, Cl. 134-99.
- Palmer, Carl L.: *See*—  
Dunlap, John G., Palmer, and Seferian. 2,906,694.
- Palmer, Charles E. Combination electric cord plug and fuse. 2,909,630, 10-20-59, Cl. 200-115.5.
- Palmer, Douglas S.: *See*—  
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- Palmer, Elton M., to Gulf Research & Development Co. Apparatus for profile presentation of seismic information. 2,898,574, 8-4-59, Cl. 340—15.
- Palmer, Fred L. and R. L. Traction attachment for wheels. 2,903,037, 9-8-59, Cl. 152—218.
- Palmer, George V., and H. E. Pritchett. Ambulatory typewriter. 2,900,061, 8-18-59, Cl. 197—2.
- Palmer, Harold S. Material handling system. 2,883,076, 4-21-59, Cl. 214—83.32.
- Palmer, Howard R.: *See—*  
Moles, Oliver W., Gendvil, and Palmer. 2,904,491.
- Palmer, J. Neil, to Arvin Industries, Inc. Non-skid ironing table top and pad assembly. 2,874,471, 2-24-59, Cl. 38—140.
- Palmer, Jack M., to Rohr Aircraft Corp. Cantilever tilting arc support. 2,903,293, 9-8-59, Cl. 294—78.
- Palmer, John, Jr. Closure means. 2,910,312, 10-27-59, Cl. 285—365.
- Palmer, John R. Cheese forming apparatus. 2,907,109, 10-6-59, Cl. 31—14.
- Palmer, John S., and E. M. Gaul, to International Harvester Co. Hydraulic undercarriage for elevators and the like. 2,912,095, 11-10-59, Cl. 198—122.
- Palmer, Leon E., to International Business Machines Corp. Cycling device for power driven typewriters. 2,875,880, 3-3-59, Cl. 197—17.
- Palmer, Leon E., R. E. Page, and J. E. Hickerson, to International Business Machines Corp. Single element printing machine. 2,879,876, 3-31-59, Cl. 197—16.
- Palmer, Leon E., and R. A. Donnan, to International Business Machines Corp. Escapement pawl control. 2,905,303, 9-22-59, Cl. 197—84.
- Palmer, Leon E., to International Business Machines Corp. Typewriter bail structure. 2,905,305, 9-22-59, Cl. 197—138.
- Palmer, Leon E., to International Business Machines Corp. Selection mechanism for a single printing element typewriter. 2,919,002, 12-29-59, Cl. 197—16.
- Palmer, Lubin, Jr.: *See—*  
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- Palmer, Marianne C. Clothes hanger. 2,895,698, 7-21-59, Cl. 248—205.
- Palmer, Paul M.: *See—*  
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- Palmer, Per A. Air inlet means, especially in ceiling panels or wall panels. 2,898,838, 8-11-59, Cl. 98—40.
- Palmer, Ralph L., to International Business Machines Corp. Read-in circuit. 2,884,189, 4-28-59, Cl. 235—61.6.
- Palmer, Richard C., to Allen B. Du Mont Laboratories, Inc. Position sensing detector. 2,906,916, 9-29-59, Cl. 315—11.
- Palmer, Richard L.: *See—*  
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- Palmer, Robert F. Merchandise cabinet. 2,893,804, 7-7-59, Cl. 312—71.
- Palmer, Robert Q. Component for rubble-mound breakwaters. 2,909,037, 10-20-59, Cl. 61—4.
- Palmer, Sydney H.: *See—*  
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- Palmer, William E. Variable transmission. 2,878,688, 3-24-59, Cl. 74—568.
- Palmer, William E., and H. B. Keller, to Swift & Co. Bag closing device. 2,884,749, 5-5-59, Cl. 53—138.
- Palmer, Wilson, and F. P. Hyde, to United Shoe Machinery Corp. Shoes, heels and lift attachments therefor. 2,885,798, 5-12-59, Cl. 36—34.
- Palmer, Winslow, to Sperry Rand Corp. Hyperbolic navigation receiver. 2,873,445, 2-10-59, Cl. 343—103.
- Palmgren, Nils A., to SKF Industries, Inc. Roller cages for roller bearings. 2,876,529, 3-10-59, Cl. 29—148.4.
- Palmiter, Keith, and H. V. Plough, to The Air Preheater Corp. Damper for marine heater. 2,883,160, 4-21-59, Cl. 257—6.
- Palmleaf, Herbert: *See—*  
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- Palmleaf, Herbert, to A. J. Gerrard & Co. Magnetic tension release for strapping tools. 2,881,636, 4-14-59, Cl. 74—524.
- Palmquist, Philip V., to Minnesota Mining & Mfg. Co. Composite resin film sheet assemblies and method of preparing and decorating same. 2,883,315, 4-21-59, Cl. 154—46.
- Palmquist, William W.: *See—*  
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- Palmqvist, Fredrik T. E., to Aktiebolaget Separator. Method for continuous preparation of chemical products. 2,906,760, 9-29-59, Cl. 260—418.
- Palm-Roy, Inc.: *See—*  
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- Palnuc Co., The: *See—*  
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- Palo, Maurice M., to The Astatic Corp. Design of electro-mechanical transducer elements. 2,900,536, 8-18-59, Cl. 310—9.6.
- Palonen, Carl V., and E. W. Kaiser, to Peerless Cement Corp. Inorganic dust treatment process. 2,871,133, 1-27-59, Cl. 106—100.
- Palopoli, Frank P.: *See—*  
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- Palopoli, Frank P., G. L. Krueger, and C. H. Tilford, to Wm. S. Merrell Co. 3-aryl-3-(4 piperidyl) propanols. 2,886,570, 5-12-59, Cl. 260—294.7.
- Palsgrove, James L.: *See—*  
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- Paluev, Konstantin K., to General Electric Co. Turbulence promoters for fluid cooled electrical apparatus. 2,912,658, 11-10-59, Cl. 336—58.
- Palumbo, Henry J., and J. W. Axelson, to Johns-Manville Corp. Spirally wound gasket. 2,882,083, 4-14-59, Cl. 288—28.
- Palumbo, Ludovico. Faucet. 2,895,708, 7-21-59, Cl. 251—77.
- Palys, Lucien, to Societe d'Etudes et d'Applications Industrielles Commerciales et Immobilières, Inter-Technique. Electric power-supply device for automatic electromagnetic motor vehicle clutches. 2,896,757, 7-28-59, Cl. 192—3.5.
- Panacolor, Inc.: *See—*  
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- Pan American Modes, Inc.: *See—*  
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- Pan American Petroleum Corp.: *See—*  
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Silverman, Daniel, and Fearon. 2,889,000.  
Spurlock, James W. 2,896,716.  
Swearingen, John E. 2,871,253.  
Vincent, Renic P. 2,907,480.  
Vincent, Renic P., and Jennings. 2,884,861.  
Wagner, Harold H. 2,885,968.  
Widess, Moses B. 2,897,476.  
Widess, Moses B., and Dyk. 2,880,816.  
Wynn, John S. 2,897,898.
- Panasiewicz, Anton Z., to General Motors Corp. Push plate assembly. 2,868,579, 1-13-59, Cl. 293—60.
- Panavision, Inc.: *See—*  
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- Pancari, Sarah P. Garment form. 2,880,917, 4-7-59, Cl. 223—68.
- Pancheri, George J. Fish ladder. 2,910,833, 11-3-59, Cl. 61—21.
- Pande, Henry, to H. V. Hardman Co., Inc. Proportioning apparatus. 2,895,644, 7-21-59, Cl. 222—134.
- Pandia, Inc.: *See—*  
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Surino, Alphonse. 2,882,967.
- Pandjiris Weldment Co., The: *See—*  
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Wuesthoff, Paul P. 2,909,394.
- Panellit, Inc.: *See—*  
Akerlund, Oscar O. 2,883,651.  
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Bell, John M. 2,874,354.
- Panfil, Conrad J., to The Heinm Co. Loose-leaf binder. 2,878,816, 3-24-59, Cl. 129—24.
- Pangborn Corp.: *See—*  
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- Panhard, Paul, to Societe Anonyme des Anciens Etablissements Panhard et Levassor. Brake assembly. 2,868,335, 1-13-59, Cl. 188-72.
- Panhard, Paul, to Societe Anonyme des Anciens Etablissements Panhard et Levassor. Devices responsive to the speed of a rotating shaft and in particular to centrifugal governors. 2,904,326, 9-15-59, Cl. 264-18.
- Panicci, Richard L., to Hampden Specialty Products, Inc. Chair construction. 2,897,880, 8-4-59, Cl. 155-191.
- Panicci, Richard L., to Hampden Specialty Products, Inc. Spring means for chaise lounge. 2,916,085, 12-8-59, Cl. 155-159.
- Panicci, Richard L., to Hampden Specialty Products, Inc. Ratchet mechanism for swingable back-rest. 2,916,086, 12-8-59, Cl. 155-159.
- Panich, Michael, to Bailey Meter Co. Pen lifting and chart support for recording meters. 2,873,163, 2-10-59, Cl. 346-68.
- Panico, Michel A. Burglary proof lock for auto steering wheels. 2,904,987, 9-22-59, Cl. 70-185.
- Panissidi, Hugo A., to International Business Machines Corp. Hydraulic control mechanisms. 2,878,015, 3-17-59, Cl. 271-24.
- Panissidi, Hugo A., to International Business Machines Corp. Fluid motor control. 2,880,838, 4-7-59, Cl. 197-133.
- Panissidi, Hugo A., to International Business Machines Corp. Hydraulic control for intermittent starting and stopping of a hydraulic motor. 2,902,005, 9-1-59, Cl. 121-38.
- Pankonin, Earl T., to Onsrud Machine Works, Inc. Selsyn drive assembly. 2,876,652, 3-10-59, Cl. 74-395.
- Pankove, Jacques I., to Radio Corp. of America. Semiconductor photo-electric devices. 2,879,405, 3-24-59, Cl. 250-211.
- Pankove, Jacques I., to Radio Corp. of America. Semiconductor devices. 2,883,313, 4-21-59, Cl. 148-33.
- Pankove, Jacques I., to Radio Corp. of America. Semiconductor devices and systems. 2,895,058, 7-14-59, Cl. 307-88.5.
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- Pankratz, A. J.: See—
- Hill, Frank A., and Pankratz. 2,914,706.
- Pankuch, William J.: See—
- Bollenbacher, Earle P., and Pankuch. 2,905,009.
- Pankuch, William J., to Thompson Ramo Wooldridge Inc. Shaft keying means. 2,893,763, 7-7-59, Cl. 287-52.05.
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- Pannier, Louis H., and J. M. Ey. Automatic safety brake system. 2,871,066, 1-27-59, Cl. 303-63.
- Panning, Martin H., and B. R. Curry, to Blower Application Co. Shredder. 2,894,697, 7-14-59, Cl. 241-154.
- Panning, Martin H., and B. R. Curry, to Blower Application Co. Pneumatic hopper. 2,917,342, 12-15-59, Cl. 302-36.
- Pannizzo, Frank: See—
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- Panoramic Radio Products, Inc.: See—
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- Wu, William I. L. 2,892,944.
- Pansch, Karl A. Verb conjugating educational device. 2,883,766, 4-28-59, Cl. 35-35.
- Pansing, Nelson J.: See—
- Whyte, Ronald H., and Pansing. 2,886,901.
- Pantano, Frank. Fuel vaporization unit. 2,882,882, 4-21-59, Cl. 123-122.
- Pantazis, Emmanuel N.: See—
- Batlas, George X., and Pantazis. 2,886,226.
- Pantermoller, Carl: See—
- Bates, Roland H., and Pantermoller. 2,896,612.
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- Ritter, Jay S., Feiler, and Pantzer. 2,898,913.
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- Panuline, George: See—
- Bell, Leo R., and Panuline. 2,918,772.
- Panza, Joseph E., to The Powers Regulator Co. Relay for automatic control device. 2,886,006, 5-12-59, Cl. 121-38.
- Panzer, Herbert: See—
- Engel, Ludwig, and Panzer. 2,904,076.
- Panzer, Jerome, and A. T. Blomquist, to Esso Research and Engineering Co. Synthesis of dibasic compounds from an olefin and acrylic compound or the like. 2,918,493, 12-22-59, Cl. 260-485.
- Panzica, Nicholas J.: See—
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- Paolicelli, Mary B. Roll-around pillow covering. 2,884,652, 5-5-59, Cl. 5-339.
- Paolino, Charles, Jr., to Westinghouse Air Brake Co. Interlock device. 2,884,294, 4-28-59, Cl. 312-222.
- Paone, Dominick R.: See—
- Hall, Elisha W., and Paone. 2,907,145.
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- Papa, Domenick: See—
- Sherlock, Margaret, Sperber, and Papa. 2,889,328.
- Papageorges, Demetre. Speed varying device. 2,891,410, 6-23-59, Cl. 74-230.17.
- Papandrea, Margaret. Hair curler. 2,871,866, 2-3-59, Cl. 132-33.
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- Pape, August H., to H. F. Pape. Bait holding fish hook unit. 2,875,550, 3-3-59, Cl. 43-44.2.
- Pape, Harry E., and A. Fotland, to American Viscose Corp. Drum mounting. 2,881,907, 4-14-59, Cl. 203-399.
- Pape, Hilmer F.: See—
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- Papee, Denis: See—
- Tertian, Robert, and Papee. 2,876,068.
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- Hale, William F. 2,874,889.
- Manners, John V. 2,902,200.
- Paper Converting Machine Co., Inc.: See—
- Kwitck, Edwin M. 2,870,840.
- Nystrand, Ernst D. 2,901,192.
- Paper Maid, Inc.: See—
- Friday, Paul D. 2,873,057.
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- Paper Mate Mfg. Co.: See—
- Gordo, Fred L., and Widmont. 2,910,045.
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- Larson, George G. 2,916,156.
- Spatz, Walter B. 2,868,170.
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- Papierfabrik Baienfurt A.G.: See—
- Riedesser, Franz. 2,879,099.
- Papp, George, to International Telephone and Telegraph Corp. Microwave electron discharge tubes. 2,870,374, 1-20-59, Cl. 315-39.
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- Pappas, George F., to Esso Research and Engineering Co. Improved quench oil for high temperature coking of residua. 2,901,418, 8-25-59, Cl. 208-102.
- Pappas, Phillip M. Frying apparatus. 2,902,582, 9-1-59, Cl. 219-44.
- Pappas, Spilios A. Sawhorse. 2,901,057, 8-25-59, Cl. 182-155.
- Pappo, Raphael: See—
- Baran, John S., and Pappo. 2,910,470.
- Pappo, Raphael, to G. D. Searle & Co. 18,20-epoxypregnene derivatives. 2,891,948, 6-23-59, Cl. 260-239.55.
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- Pappo, Raphael, to G. D. Searle & Co. Steroidal boron compounds and alcohols produced therefrom. 2,913,467, 11-17-59, Cl. 260-397.5.
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- Paprocki, Edward J. Coaster and holder for beverage can. 2,896,812, 7-28-59, Cl. 220-85.
- Papsdorf, Robert A.: See—
- Ford, Harold H., and Papsdorf. 2,875,316.
- Papst, Hermann. Motor-generator-starter drive unit. 2,886,987, 5-19-59, Cl. 74-810.
- Papst, Hermann. Starting gear for internal combustion engines. 2,887,100, 5-19-59, Cl. 123-179.
- Papworth, Walter A. Portable power driven reciprocable cutting tool. 2,879,815, 3-31-59, Cl. 143-68.
- Papworth, Walter A. Manually portable power driven cutting tool with oval stroke. 2,917,088, 12-15-59, Cl. 143-68.
- Papy, Hugh R., W. C. Carson, and E. C. Rowley. Box-like structure. 2,896,808, 7-28-59, Cl. 217-66.
- Paquet, René O.: See—
- Leclercq, René, and Paquet. 2,867,644.
- Paquin, James H.: See—
- Foster, Jerry F., Shuler, and Paquin. 2,895,123.
- Paquin, Leon J., to The National Cash Register Co. Filled paper. 2,902,399, 9-1-59, Cl. 162-181.
- Paquin, Leopold. Scribing guide device. 2,903,919, 9-15-59, Cl. 77-62.
- Paquet, Charles, and R. Perron, to Centre National de la Recherche Scientifique. Method of recovery of nitric acid and extraction of organic compounds from mixtures resulting from nitric oxides and nitration reactions. 2,882,293, 4-14-59, Cl. 260-466.
- Paradis, Leo P.: See—
- Chapin, Earl C., and Paradis. 2,902,464.
- Paradise, Maurice E., to Hoffman Electronics Corp. Solar powered light source or the like. 2,889,490, 6-2-59, Cl. 315-157.
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- Paradise, Maurice E., to Hoffman Electronics Corp. Solar powered portable radio receiver or the like. 2,919,353, 12-29-59, Cl. 250-239.
- Paradiso, Erasmus J. Rotary jet engine. 2,914,920, 12-1-59, Cl. 60-39.35.
- Paragon Development, Inc.: See—  
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- Paragon Electric Co.: See—  
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- Parallel Products Co.: See—  
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- Meyer, Leonard S., and Shira. 2,873,929.
- Paramonoff, Elpidifor, to C. E. Howard Corp. Rotary spraying device. 2,867,475, 1-6-59, Cl. 299-69.
- Paramore, Grady B. Infant care apparatus. 2,897,518, 8-4-59, Cl. 5-109.
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- Dorr, Roger. 2,906,813.
- Hughes, Edwin L. 2,892,882.
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- Weiss, Phil H. 2,907,816.
- Paramount Products, Inc.: See—  
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- Paramount Textile Machinery Co.: See—  
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- Richter, Henry. 2,889,648.
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- Parcell, Russell W., to Otis Elevator Co. Material handling apparatus and load-engaging elements therefor. 2,890,807, 6-16-59, Cl. 214-653.
- Parcell, Russell W., to Otis Elevator Co. Industrial truck. 2,893,582, 7-7-59, Cl. 214-651.
- Pardee, William A.: See—  
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- Pardee, William A., to Gulf Research & Development Co. Catalytic cracking process using a catalyst whose carbon factor has been improved. 2,897,136, 7-28-59, Cl. 208-119.
- Pardo, Clay E., Jr., and W. Fong, to United States of America, Agriculture. Shrinkproofing of wool with chromium complexes. 2,890,926, 6-16-59, Cl. 8-128.
- Parducci, Ralph R.: See—  
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- Pardue, James A.: See—  
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- Paretta, John E. Tire recapping mold. 2,873,477, 2-17-59, Cl. 13-18.
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- Parfett, John A. Display album. 2,914,870, 12-1-59, Cl. 40-102.
- Parfitt, John W. Mold assembly for manufacturing concrete inlet tops for storm drains. 2,870,515, 1-27-59, Cl. 25-118.
- Parfrey, Francis T. Means for forming hollow articles. 2,903,740, 9-15-59, Cl. 18-5.
- Paris, August F. Base and heating unit. 2,915,229, 12-1-59, Cl. 223-70.
- Paris, Charles E., to Mead Board Sales, Inc. Lifting skid pallet. 2,913,206, 11-17-59, Cl. 248-120.
- Paris, Dave H. Lawn edger. 2,899,001, 8-11-59, Cl. 172-13.
- Paris, Francois G.: See—  
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- Paris, Francois, to Institut de Recherches de la Siderurgie. Gas producer with pulsating flow. 2,899,287, 8-11-59, Cl. 48-61.
- Paris, Francois G., B. J. M. Salmon, A. Mihail, M. J. Baraut, and J. H. Bertin, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Intermittent combustion boiler. 2,878,790, 3-24-59, Cl. 122-24.
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- Parisian Novelty Co.: See—  
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- Pariso, Pasquale P. Noiseless flush tank valve. 2,890,709, 6-16-59, Cl. 137-216.
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- Park, Alexander C. Simulated orbiting artificial satellite. 2,897,607, 8-4-59, Cl. 35-46.
- Park, Arthur, and A. W. Coulter, Jr., to The Dow Chemical Co. Fracturing liquid and method of use thereof in treating wells. 2,877,180, 3-10-59, Cl. 252-8.55.
- Park, Chester A., and H. W. Sprague, to Agricultural Products, Inc. Ensilage handling implement. 2,905,346, 9-22-59, Cl. 214-508.
- Park, John K., and A. Marzocchi, to Owens-Corning Fiberglass Corp. Treatment of fibrous glass with aqueous emulsions of metals and alloys. 2,886,470, 5-12-59, Cl. 117-126.
- Park, Orrin J., and B. U. Cotner, to The Magee Carpet Co. Apparatus for weaving loop pile fabrics. 2,896,671, 7-28-59, Cl. 139-46.
- Park, Orrin J., and B. U. Cotner, to The Magee Carpet Co. Method of weaving high pile fabric. 2,918,944, 12-29-59, Cl. 139-7.
- Park, Peter O.: See—  
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- Park Products Co.: See—  
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- Glennon, James B., Park, Maltby, and Hobbs. 2,881,702.
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- Park, Rodney F., and J. B. Welch, to Cutler-Hammer, Inc. Methods of and means for electric welding. 2,892,068, 6-23-59, Cl. 219-86.
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- Frohardt, Roger P., Haskell, Ehrlich, and Knudsen. 2,916,485.
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- Moore, Alexander M., Elslager, and Short. 2,915,523.
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- Parker, Alton N. Boat trailer. 2,907,484, 10-6-59, Cl. 214-506.
- Parker, Arnold G., to Canadair Ltd. Thrust reversing device for turbojet engines. 2,886,946, 5-19-59, Cl. 60-35.54.
- Parker, Brooks O'C. Materials handling pallet. 2,906,481, 9-29-59, Cl. 248-120.
- Parker, Bruce L.: See—  
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- Parker, Carol. Collapsible container. 2,899,110, 8-11-59, Cl. 222-215.
- Parker, Charles A., to Monroe Calculating Machine Co. Rotary sequence switch. 2,881,272, 4-7-59, Cl. 200-8.
- Parker, Charles A., to Monroe Calculating Machine Co. Form handling device for business machines. 2,916,129, 12-8-59, Cl. 197-128.
- Parker, Charles A., and C. K. Rainey, to Burroughs Corp. Tabulating mechanism for printing business machines. 2,877,881, 3-17-59, Cl. 197-176.
- Parker, Charles, Co., The: See—  
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- Parker, Charles S., and A. Melville, 1/2 to Bleachers' Assn. Ltd., and 1/2 to The Bradford Dyers' Assn. Ltd. Apparatus for ornamentation of fabrics. 2,890,515, 6-16-59, Cl. 26-69.
- Parker, Charles S., and A. Melville, 1/2 to Bleachers' Assn. Ltd., and 1/2 to The Bradford Dyers' Assn. Ltd. Ornamentation of fabrics. 2,905,999, 9-29-59, Cl. 26-69.
- Parker, Clarence D.: See—  
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- Parker, Clarence E., to The Coe Mfg. Co. Apparatus for handling veneer. 2,84,638, 4-21-59, Cl. 198-21.
- Parker, Dana C.: See—  
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- Parker, Daniel B., and H. D. Kitchen, to Kalamazoo Vegetable Parchment Co. Tear strip, and wrapper and package. 2,870,953, 1-27-59, Cl. 229-51.
- Parker, Earl E.: See—  
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- Parker, Earl E., to Pittsburgh Plate Glass Co. Method of preparing acrylate esters of epoxy resins. 2,890,202, 6-9-59, Cl. 264-47.



- Parker, Earl E., and K. H. Coultrap, to Pittsburgh Plate Glass Co. Use of alkaline materials in the preparation of polyurethane foams. 2,911,379, 11-3-59, Cl. 260-2.5.
- Parker, Edwin C. Four-in-hand necktie and holder. 2,893,086, 7-7-59, Cl. 24-49.
- Parker, Emery.: *See—*  
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- Parker, Eric, and D. L. Thomas, to The Decca Record Co. Ltd. Pulse radar receivers. 2,878,379, 3-17-59, Cl. 250-20.
- Parker, Ernest V. Fluid delivery apparatus. 2,868,131, 1-13-59, Cl. 103-41.
- Parker, Florence W. Garment hanger. 2,917,212, 12-15-59, Cl. 223-88.
- Parker, Frank H., to S. C. Peplin, trustee. Mixing valve. 2,911,009, 11-3-59, Cl. 137-625.41.
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- Parker, Fred T., to General Electric Co. Dynamic braking control for multiple unit operation. 2,879,462, 3-24-59, Cl. 318-381.
- Parker, Frederick D., and L. R. Padberg, Jr. Echo ranging recording apparatus. 2,892,666, 6-30-59, Cl. 346-17.
- Parker, Frederick W. Toggle containing jaw crusher. 2,868,464, 1-13-59, Cl. 241-285.
- Parker, George C., and P. N. Taylor. Vehicle attached wire stretching and reeling device. 2,914,270, 11-24-59, Cl. 242-86.5.
- Parker, George J.: *See—*  
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- Parker, George W.: *See—*  
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- Parker, Harold B., to Parker Refrigeration Development Co. Sealed refrigeration unit with auxiliary power pulley. 2,902,205, 9-1-59, Cl. 230-38.
- Parker, Harold N.: *See—*  
Fremont, Herbert, and Parker. 2,896,070.
- Parker, Harry L., and M. A. Michalski, to American Speed-light Corp. Light flash producing system. 2,873,408, 2-10-59, Cl. 315-183.
- Parker, Harry W., to Phillips Petroleum Co. Initiating in situ combustion in a stratum. 2,880,803, 4-7-59, Cl. 166-11.
- Parker, Harry W., to Phillips Petroleum Co. Recovery of hydrocarbons by in situ combustion. 2,888,987, 6-2-59, Cl. 166-2.
- Parker, Hugh K.: *See—*  
Marks, Henry C., Joiner, and Parker. 2,903,361.
- Parker, Irven H. Self-centering fuel control valve for carburetors and the like. 2,890,711, 6-16-59, Cl. 137-434.
- Parker, Jack R. Apparatus for designing industrial plant layout. 2,915,831, 12-8-59, Cl. 35-16.
- Parker, James C., and W. R. Horst, to The Commonwealth Engineering Co. of Ohio. Method of simultaneously counting red and white blood cells. 2,875,666, 3-3-59, Cl. 88-14.
- Parker, James S.  $\frac{1}{2}$  to J. G. Clower. Automatic tree injector. 2,870,576, 1-27-59, Cl. 47-57.5.
- Parker, Jesse E. Steam generating apparatus. 2,906,258, 9-29-59, Cl. 126-362.
- Parker, John A.: *See—*  
Dunlap, Lawrence H., and Parker. 2,873,201.  
Feigley, David A., Jr., and Parker. 2,914,494.  
Forsythe, Alan K., and Parker. 2,877,203.  
Graham, Galen E., and Parker. 2,893,969.
- Parker, John A., to Armstrong Cork Co. Curable water-miscible copolymer comprising water-soluble polyester and glycol diacrylate. 2,884,404, 4-28-59, Cl. 260-45.4.
- Parker, John A., to Armstrong Cork Co. Binder of diisocyanate modified unsaturated polyester and vinyl chloride polymer and method of preparing same. 2,888,433, 5-26-59, Cl. 260-45.4.
- Parker, John A., and J. Versnel, to Armstrong Cork Co. Composition comprising a diisocyanate modified polyester and polymerized vinyl chloride. 2,872,430, 2-3-59, Cl. 260-45.4.
- Parker, John J., and L. T. Morawski. Splined work piece holder. 2,877,021, 3-10-59, Cl. 279-1.
- Parker, John J., and L. T. Morawski. Expansible arbor with segmental sleeves. 2,877,022, 3-10-59, Cl. 279-2.
- Parker, John J., and L. T. Morawski. Clamping arbor for splines. 2,878,706, 3-24-59, Cl. 82-43.
- Parker, John J., and L. T. Morawski. Work-holder for splined articles with herringbone cams. 2,878,707, 3-24-59, Cl. 82-43.
- Parker, John J., and L. T. Morawski. Chuck for splined articles. 2,879,067, 3-24-59, Cl. 279-1.
- Parker, John J., and L. T. Morawski. Cam-operated work-holder for splined articles. 2,879,068, 3-24-59, Cl. 279-1.
- Parker, John J., and L. T. Morawski. Splined article holder using ball cams. 2,879,682, 3-31-59, Cl. 82-43.
- Parker, John J., and L. T. Morawski. Dual spline chuck. 2,880,005, 3-31-59, Cl. 279-1.
- Parker, John J., and L. T. Morawski. Ball actuated expansible arbor. 2,890,056, 6-9-59, Cl. 279-4.
- Parker, John M.: *See—*  
Wasson, Burton K., and Parker. 2,901,501.
- Parker, John P., to The American Thermos Products Co. Combination tip protector and shock absorber for vacuum bottles. 2,893,584, 7-7-59, Cl. 215-13.
- Parker, Joseph, to Diamond Alkali Co. Electrolysis of alkali metal chloride brine. 2,870,074, 1-20-59, Cl. 204-98.
- Parker, Konrad, to The Celotex Corp. Packaging of insulating blankets. 2,913,104, 11-17-59, Cl. 206-60.
- Parker, Lawrence E. Baby walker. 2,869,613, 1-20-59, Cl. 155-22.
- Parker, Louis W. Television distribution system. Re. 24,590, 1-20-59, Cl. 250-15.
- Parker, Louis W. Television receivers. 2,885,469, 5-5-59, Cl. 178-5.8.
- Parker, Louis W. High voltage generator for cathode ray tubes. 2,898,506, 8-4-59, Cl. 315-1.
- Parker, Louis W. Tuning indicator and muter for television receivers. 2,912,490, 11-10-59, Cl. 178-5.8.
- Parker, Norman S.: *See—*  
De Neergaard, Leif E. 2,882,475.  
De Neergaard, Leif E. 2,882,516.  
De Neergaard, Leif E. 2,885,256.  
De Neergaard, Leif E. 2,916,342.
- Parker, Norman W., to Motorola, Inc. Color television synchronizing apparatus with color burst exaltation. 2,880,266, 3-31-59, Cl. 178-5.4.
- Parker, Norman W., to Motorola, Inc. Color television system. 2,880,358, 3-31-59, Cl. 315-13.
- Parker, Norman W., to Motorola, Inc. Color television receiver. 2,896,013, 7-21-59, Cl. 178-5.4.
- Parker Pen Co., The: *See—*  
Baker, Marlin S. 2,871,823.  
Baker, Marlin S. 2,905,148.  
Beckwith, Wendell K. 2,904,839.  
Beckwith, Wendell K. 2,911,669.  
Beckwith, Wendell K. 2,911,949.  
Hyzer, William G. 2,917,631.  
Kersten, William H. 2,870,741.  
Kersten, William H. 2,888,907.  
Randolph, Robert W. 2,888,908.  
Randolph, Robert W. 2,889,810.  
Rhoades, Nolan K., and Baker. 2,916,013.  
Spillman, Kenneth W. 2,876,495.
- Parker Refrigeration Development Co.: *See—*  
Parker, Harold B. 2,902,205.
- Parker, Richard D. Magnetic fluid clutch with speed control therefor. 2,890,774, 6-16-59, Cl. 192-21.5.
- Parker Rust Proof Co.: *See—*  
Bell, Ernest P. 2,902,390.  
Cavanagh, Walter R., and Gibson. 2,884,351.  
Cavanagh, Walter R., and Maurer. 2,874,081.  
Dell, Gaillard W. 2,868,682.  
Rausch, Werner, and Werner. 2,891,884.  
Russell, William S., and Gibson. 2,882,189.  
Wilkinson, Cyril F., Jenkins, Lake, and Radcliffe. 2,875,111.
- Parker, Sam E. Variable transformer. 2,901,715, 8-25-59, Cl. 336-87.
- Parker, Samuel T.: *See—*  
Abberley, Maurice W., Parker, and Ellis. 2,867,885.
- Parker, Sue E.: *See—*  
Parker, Thomas J. 2,914,734.
- Parker, Sydney R., to United States of America, Navy. High gain signal amplifier circuit. 2,874,234, 2-17-59, Cl. 179-171.
- Parker, Sylvester N.: *See—*  
Hanus, John, and Parker. 2,905,375.
- Parker, Thomas J., deceased, by S. E. Parker, executrix. Pedestal modulator. 2,914,734, 11-24-59, Cl. 331-87.
- Parker, Walter L.: *See—*  
Mathis, Clyde H., Strole, and Parker. 2,918,506.
- Parker, Warren H.,  $\frac{1}{2}$  to C. W. Butler and  $\frac{1}{2}$  to C. Bork. Wheel brake adjustable anchor. 2,902,118, 9-1-59, Cl. 188-78.
- Parker, William H. Spring clips. 2,910,749, 11-3-59, Cl. 24-66.
- Parker, William M., Jr., to Union Insulating Co., Inc. Molded plastic articles such as outlet boxes. 2,867,349, 1-6-59, Cl. 220-3.3.
- Parker, Wilton E.: *See—*  
Cluff, Harold E., Parker, and Riple. 2,909,166.
- Parker, Wilton E., W. D. Whitaker, D. L. Getz, H. T. Hertzog, and E. R. Chapman, to The Garret Corp. Combination engine starter and constant speed drive. 2,908,189, 10-13-59, Cl. 74-67.5.
- Parker, Winfred C. Sleep inducing apparatus. 2,807,901, 10-6-59, Cl. 307-112.
- Parker, Wynton E. Paint roller for curved surfaces. 2,881,461, 4-14-59, Cl. 15-230.
- Parkersburg-Aetna Corp.: *See—*  
Parks, Asbury S., and O'Bannon. 2,871,072.  
Ray, Robert F. 2,870,860.  
Ray, Robert F. 2,887,174.
- Parkersburg Rig & Reel Co., The: *See—*  
Speiden, Edgar F. 2,900,841.



- Parkes, Alfred G.: *See*—  
Schramm, Henry W., Tollefsrud, and Parkes. 2,917,297.
- Parkes, Philip G., to Adamant Engineering Co. Ltd. Power assisted steering mechanism. 2,887,896, 5-26-59, Cl. 74-388.
- Parkes, Ralph C. Drying machine. 2,884,711, 5-5-59, Cl. 34-156.
- Parkes, Stanley, H. B. Merriman, and R. D. Sansum, to Gerrard Industries Ltd. Packaging machines. 2,880,667, 4-7-59, Cl. 100-29.
- Parkes, Stanley, and R. D. Sansum, to Gerrard Industries Ltd. Packaging machines. 2,883,926, 4-28-59, Cl. 100-8.
- Parkhurst, Alfred S.: *See*—  
Walker, Harold N., and Parkhurst. 2,874,702.
- Parkins, William E., to United States of America, Atomic Energy Commission. Calutron. 2,891,161, 6-16-59, Cl. 250-41.9.
- Parkinson and Cowan Ltd.: *See*—  
Sirkin, Senia, and Randle. 2,871,687.
- Parkinson, Edward J., to Goulding Mfg. Co. Automatic leveling mechanisms. 2,915,961, 12-8-59, Cl. 100-46.
- Parkinson, John S., and W. A. Jack, 3rd, to Johns-Manville Corp. Wall construction embodying heating system. 2,916,261, 12-8-59, Cl. 257-124.
- Parkinson, Martin C., D. Fraser, and C. E. Bender. Drying device. 2,907,117, 10-6-59, Cl. 34-44.
- Parkinson, Martin C., D. Fraser, and C. E. Bender. Method of dehydration of normally liquid food material. 2,907,663, 10-6-59, Cl. 99-199.
- Parkman, William C. Universal joint adjusting means. 2,898,749, 8-11-59, Cl. 64-8.
- Parkmaster Systems Inc.: *See*—  
Krieger, Richard S., and Porter. 2,891,636.
- Porter, William J. 2,873,089.
- Parks, Asbury S. Control units for pressure-actuated devices. 2,907,347, 10-6-59, Cl. 137-620.
- Parks, Asbury S., and W. O'Bannon, said O'Bannon assor. to Parkersburg-Aetna Corp. Piston sealing assemblies. 2,871,072, 1-27-59, Cl. 309-31.
- Parks, Carl R., to The Goodyear Tire & Rubber Co. Vulcanizable natural rubber composition and method of vulcanizing same. 2,909,584, 10-20-59, Cl. 260-775.
- Parks, Charles O., to Bell Telephone Laboratories, Inc. Auxiliary sender circuit. 2,867,690, 1-6-59, Cl. 179-18.
- Parks, Clarence E.: *See*—  
Jennings, Garland B., and Parks. 2,902,460.
- Parks-Cramer Co.: *See*—  
Granberry, Edgar H. 2,882,374.
- Hewitt, Woodrow W. 2,869,903.
- Hewitt, Woodrow W. 2,880,024.
- Long, John R. 2,910,719.
- Parks, Herman D., to General Electric Co. Multiplying network. 2,893,636, 7-7-59, Cl. 235-194.
- Parks, James M., Jr. Dental floss dispenser. 2,870,773, 1-27-59, Cl. 132-92.
- Parks, Jerome W.: *See*—  
Felts, Gordon P., Parks, and Seeger. 2,915,928.
- Parks, Jerome W., to Microdot Inc. Cable and wire covering cutter. 2,875,516, 3-3-59, Cl. 30-91.
- Parks, Mercer H.: *See*—  
Knap, Richard P., Moore, and Parks. 2,906,500.
- Parks, Mercer H., to Jersey Production Research Co. Stabilization of a floating platform. 2,889,795, 6-9-59, Cl. 114-5.
- Parks, Mercer H., to Jersey Production Research Co. Lubrication of bearings. 2,906,504, 9-29-59, Cl. 255-305.
- Parks, Nathan S., to Radio Corp. of America. Synchronized vibrator system. 2,875,397, 2-24-59, Cl. 321-49.
- Parks, Ross L.: *See*—  
Benninga, Noah, Johnston, Lynch, Markwood, and Parks. 2,908,944.
- Parks, Roy E.: *See*—  
Nossen, Ernest S., and Parks. 2,919,189.
- Parks, Thomas D.: *See*—  
Glassbrook, Clarence I., and Parks. 2,896,158.
- Parks, Walter, to Drum-Atic Corp. Barrel cleaning machine. 2,889,566, 6-9-59, Cl. 15-58.
- Parks, Walter J., to The W. S. Tyler Co. Screen deck structure. 2,910,180, 10-27-59, Cl. 209-395.
- Parks, Walter J., to The W. S. Tyler Co. Screen. 2,914,177, 11-24-59, Cl. 209-396.
- Parks, William W.: *See*—  
Clarkson, Alick, and Parks. 2,899,247.
- Parkton Compound Boiler Co., Inc.: *See*—  
Parkton, James E. 2,898,049.
- Parkton, James E., to Parkton Compound Boiler Co., Inc. Control for vacuum heating systems. 2,898,049, 8-4-59, Cl. 237-9.
- Parkyn, John M., to Marconi Instruments Ltd. Amplitude modulator arrangements for high frequency energy. 2,882,499, 4-14-59, Cl. 332-52.
- Parlasca, Edwin W.: *See*—  
Andersen, Raymond C., and Parlasca. 2,873,984.
- Parlin, David B., to Tufted Patterns, Inc. Machine and method of producing loop pile fabrics for use as floor covering. 2,876,183, 3-3-59, Cl. 112-79.
- Parlin, Raymond W., to Grinnell Corp. On-off humidifying systems. 2,913,184, 11-17-59, Cl. 236-44.
- Parmatic Engineering Ltd.: *See*—  
Gutkowski, Janusz. 2,890,305.
- Parmelee Plastics Co.: *See*—  
Moeller, William C. 2,877,462.
- Watkins, Willis T. 2,877,463.
- Parmenter, Charles W.: *See*—  
Herrmann, John A., Higgins, and Parmenter. 2,912,526.
- Parmenter, Raymond O., to Powers-Samas Accounting Machines Ltd. Statistical machines. 2,916,090, 12-8-59, Cl. 164-111.
- Parmerlee, James K., to The B. F. Goodrich Co. Hydraulic fluid regulating valve. 2,867,089, 1-6-59, Cl. 60-54.5.
- Parmer, Bernard S., to Motorola, Inc. Color television demodulator. 2,885,466, 5-5-59, Cl. 178-5.4.
- Parmer, Bernard S., to Motorola, Inc. Color television receiver. 2,880,362, 3-31-59, Cl. 315-13.
- Parmer, Bernard S., to Motorola, Inc. Television receiver. 2,886,633, 5-12-59, Cl. 178-5.8.
- Parmer, Bernard S., and J. J. Krakora, Jr., to Motorola, Inc. Color oscillator synchronization system. 2,885,468, 5-5-59, Cl. 178-5.4.
- Parmer, Bernard S., and F. L. Di Nardo, to Motorola, Inc. Tuning system. 2,898,400, 8-4-59, Cl. 178-5.4.
- Parnell, Edward F., to Pneumafil Corp. Yarn handling apparatus. 2,883,732, 4-28-59, Cl. 28-64.
- Parnell, John, to Minneapolis-Honeywell Regulator Co. Electrical measuring apparatus. 2,880,394, 3-31-59, Cl. 324-142.
- Parodi, Felice, to Casther S. A. Apparatus for producing an excitation applicable in electro-stimulo-therapy. 2,915,066, 12-1-59, Cl. 128-419.
- Paros, Mary,  $\frac{1}{2}$  to J. Zelepis. Combination Christmas tree cover and needle catcher. 2,911,025, 11-3-59, Cl. 150-52.
- Parr, Bernard A. Lock nut having a split plastic collar and method of assembling same. 2,900,000, 8-18-59, Cl. 151-7.
- Parr, Charles A. Rhomboidal shaped boat. 2,916,004, 12-8-59, Cl. 114-61.
- Parr, Thilburn E.: *See*—  
Denend, Lowell E., and Schroeder. 2,905,129.
- Parr, William G.: *See*—  
Cheetham, William R., and Parr. 2,899,489.
- Cheetham, William R., and Parr. 2,899,490.
- Párraga, Alfredo J. Beverage maker and dispenser. 2,879,811, 3-31-59, Cl. 141-82.
- Parrett, Dent, to Lambert Brake Corp. Automatic self-adjusting clutch. 2,876,881, 3-10-59, Cl. 192-85.
- Parris, Chester L.: *See*—  
Christenson, Roger M., Parris, and Parker. 2,874,141.
- Parris, Warren M.: *See*—  
Griest, Andrew J., Parris, and Frost. 2,892,743.
- Parris, William J., to Westinghouse Electric Corp. Ferrite switching apparatus. 2,917,679, 12-15-59, Cl. 317-123.
- Parrish, Frank W., to International Rectifier Corp. Rectifier. 2,918,612, 12-22-59, Cl. 317-234.
- Parrish, Norman C., to Northrop Aircraft, Inc. Explosively released nut. 2,871,750, 2-3-59, Cl. 85-32.
- Parrish, Ralph W.: *See*—  
Maxwell, Carl A., and Parrish. 2,886,067.
- Parrish, Stanton E.: *See*—  
Hale, Arlan B., and Parrish. 2,868,856.
- Parrish, William: *See*—  
DeWolff, Pieter M., and Parrish. 2,887,585.
- Parriss, Walter H., and T. J. Anderson, to The British Thomson-Houston Co. Ltd. Electric contact carbon brush. 2,909,452, 10-20-59, Cl. 117-218.
- Parrott, Fred G. Package support or holder for indefinite length material. 2,915,260, 12-1-59, Cl. 242-130.
- Parrott, Gordon G. Carrier for boats. 2,916,747, 12-15-59, Cl. 9-1.
- Parrott, Robert D., to The Western Union Telegraph Co. Optical scanner. 2,912,497, 11-10-59, Cl. 178-7.1.
- Parry, Frank: *See*—  
Harvey, Valentine P., and Parry. 2,887,011.
- Parry, Frank, to The Singer Mfg. Co. Blind stitch sewing machines. 2,876,722, 3-10-59, Cl. 112-260.
- Parry, Frank, to The Singer Mfg. Co. Work table height adjusting mechanism for blindstitch sewing machines. 2,895,442, 7-21-59, Cl. 112-260.
- Parry, Frank, and E. F. Dunn, to The Singer Mfg. Co. Work supporting mechanisms for blindstitch sewing machines. 2,874,661, 2-24-59, Cl. 112-178.
- Parry, Harvey L., and J. E. Carey, to Shell Development Co. Process for resinifying polyepoxides and resulting products. 2,909,494, 10-20-59, Cl. 260-18.
- Parry, Robert, to United States of America, Air Force. Slide drive assembly for bombing training device. 2,911,739, 11-10-59, Cl. 35-25.
- Parshall, Clarence M., and P. Geyer, to United States Rubber Co. Pelletizing apparatus. 2,910,726, 11-3-59, Cl. 18-12.
- Parshall, George W.: *See*—  
England, David C., and Parshall. 2,879,302.
- Parshall, George W., to E. I. du Pont de Nemours and Co. Organic compounds of silicon and phosphorus and their preparation. 2,907,785, 10-6-59, Cl. 260-448.2.
- Parshall, Millis V.: *See*—  
Schjolin, Hans O., and Parshall. 2,889,718.
- Parson, John R. Soap dish. 2,914,777, 12-1-59, Cl. 4-187.
- Parsonage, Edward E. Drilling machine. 2,915,287, 12-1-59, Cl. 255-3.



- Parsons, C. A., & Co. Ltd.: *See*—  
Hawthorne, Edward P. 2,895,212.  
Hrynyszak, Waldemar. 2,893,697.  
Hrynyszak, Waldemar. 2,895,296.  
Kolb, Paul, Arkless, and Bolter. 2,867,408.  
Zadnik, Otto E. F. 2,907,170.
- Parsons, Charles O., deceased; G. M. Parsons, executrix,  $\frac{1}{2}$  to G. M. Parsons. Printed circuit techniques. 2,907,925, 10-6-59, Cl. 317-101.
- Parsons Corp.: *See*—  
Brogren, Axel V. 2,917,033.  
Harwood, Floyd E. 2,904,729.  
Stamm, Robert H., and Ballauer. 2,884,077.  
Stamm, Robert H., Fox, and Steed. 2,884,078.
- Parsons, Edgar S., J. H. Johnson, and A. J. de Gozzaldi, to Shawmut Engineering Co. Method of and means for obtaining uniformity of tuft length in Axminster fabrics. 2,915,090, 12-1-59, Cl. 139-8.
- Parsons, Floyd B.: *See*—  
Olson, Walter J., Parsons, and Schrank. 2,893,208.
- Parsons, Frederick L. Ground traction unit. 2,900,210, 8-18-59, Cl. 305-2.
- Parsons, George B., to United States of America, Navy. Shock mounting system for packaging. 2,919,046, 12-29-59, Cl. 220-15.
- Parsons, Gertrude M.: *See*—  
Parsons, Charles O. 2,907,925.
- Parsons, Hubert J., and A. A. Peterson, to Harding Brothers, Inc. Feed chucks. 2,895,740, 7-21-59, Cl. 279-41.
- Parsons, James R., to Phillips Petroleum Co. Angular position telemetering system. 2,891,239, 6-16-59, Cl. 340-190.
- Parsons, James R., to Phillips Petroleum Co. Electrical measuring apparatus. 2,904,751, 9-15-59, Cl. 324-61.
- Parsons, James R., to Phillips Petroleum Co. Analyzer and sampling system. 2,908,820, 10-13-59, Cl. 250-43.5.
- Parsons, James S., to Computing Devices of Canada Ltd. Air miles and air speed measuring system. 2,899,823, 8-18-59, Cl. 73-181.
- Parsons, James S., to Canadian Patents and Development Ltd. Display for a navigational instrument. 2,916,825, 12-15-59, Cl. 33-1.
- Parsons, John: *See*—  
Flower, Stanley H., Parsons, and Loudon. 2,892,339.
- Parsons, John B. Switch mechanism. 2,896,036, 7-21-59, Cl. 200-44.
- Parsons, John B. Combined rudder and reverse control for marine craft. 2,916,005, 12-8-59, Cl. 114-145.
- Parsons, John B. Reverse gear operating system for marine engines. 2,916,031, 12-8-59, Cl. 123-179.
- Parsons, Joseph R., to Chicago Fire Brick Co. Radiant wall furnace. 2,895,544, 7-21-59, Cl. 158-4.5.
- Parsons and Marine Engineering Turbine Research and Development Association: *See*—  
Cleff, Peter H. 2,888,784.  
Darling, Robert F. 2,915,877.  
Terrell, Basil J. 2,895,294.  
Terrell, Basil J., and Bayley. 2,873,087.
- Parsons, Neal B. Sole for football shoes. 2,888,756, 6-2-59, Cl. 36-59.
- Parsons, Ralph M., Co., The: *See*—  
Grossman, Jack J. 2,917,728.
- Parsons, Robert C.: *See*—  
Allen, George J., and Parsons. 2,903,393.
- Parsons, Stuart L.: *See*—  
Sadowsky, Meier, and Parsons. 2,870,010.
- Parsons, Walter W. Trailer stabilizer. 2,892,639, 6-30-59, Cl. 280-460.
- Parsons, Willard J., and V. R. Anderson, to St. Regis Paper Co. Tool container. 2,880,857, 4-7-59, Cl. 206-17.
- Parstorfer, John, to I-T-E Circuit Breaker Co. Connecting link for vibrating bodies. 2,882,748, 4-21-59, Cl. 74-581.
- Partansky, Alexander M., to The Dow Chemical Co. Method of impregnating wood with paraffin wax and with polyethylene glycol to improve its cutting qualities. 2,907,684, 10-6-59, Cl. 117-149.
- Partansky, Alexander M., to The Dow Chemical Co. Synthetic drying oils. 2,918,440, 12-22-59, Cl. 260-19.
- Partansky, Alexander M., and P. G. Schrader, to The Dow Chemical Co. Method for the preparation of improved resinous polyalcohols and compositions thereby obtained. 2,897,180, 7-28-59, Cl. 260-58.
- Partchevsky, Anastasie, and E. Evieux, to Societe des Usines Chimiques Rhone-Poulenc. Hexahydrotetralic esters, their preparation and their uses. 2,891,248, 6-16-59, Cl. 260-468.
- Parten, Carl: *See*—  
Johnson, Stanley A. 2,882,952.  
Johnson, Stanley A. 2,916,073.
- Parten, Gerald: *See*—  
Johnson, Stanley A. 2,882,952.  
Johnson, Stanley A. 2,916,073.
- Parten Machinery Co.: *See*—  
Welsh, Ormonde P. 2,880,656.
- Partin, Earl E. Grass protection device. 2,899,775, 8-18-59, Cl. 47-1.
- Partin, Melvin E.: *See*—  
Moulton, Stephen W., and Partin. 2,910,615.
- Partin, Melvin E., to Philco Corp. Dual-beam cathode ray tube system. 2,896,017, 7-21-59, Cl. 178-5.4.
- Partin, Melvin E. Hand operated metal panel cutters. 2,915,821, 12-8-59, Cl. 30-249.
- Partington, Alan, and R. L. J. MacRae, to Coal Industry (Patents) Ltd. Means for attaching cutter picks to their supports. 2,890,873, 6-16-59, Cl. 262-33.
- Partridge, Donald E. Insect electrocutor. 2,912,787, 11-17-59, Cl. 43-112.
- Partridge, William R.: *See*—  
Rice, Louis F., Patton, Timson, and Partridge. 2,900,325.
- Partyka, Matthew J. Quick disconnect socket holder. 2,913,714, 11-17-59, Cl. 340-381.
- Parva Products Co.: *See*—  
White, Paul W. 2,878,540.
- Parvi, Ludovic: *See*—  
Thermet, Robert, and Parvi. 2,890,250.  
Thermet, Robert, and Parvi. 2,919,296.
- Parvin, Robert, and K. A. Wilhelm, to Lockheed Aircraft Corp. Beam forming device. 2,886,991, 5-19-59, Cl. 78-61.
- Parz, Erich O. T., to VEB Zahnschneidemaschinenfabrik Modul. Worm wheel toothing. 2,885,903, 5-12-59, Cl. 74-458.
- Pasadena Investment Co.: *See*—  
Burden, Roy B., Jr. 2,879,862.
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- Pascucci, Julio A., to The Miller Co. Structure for mounting sockets and other devices in lighting fixtures. 2,905,809, 9-22-59, Cl. 240-51.11.
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- Pasotti, Felice G., to J. & L. Associates, Inc. Fire finishing machine for glass articles. 2,906,391, 9-29-59, Cl. 198-22.
- Pasowicz, Anthony F.: *See*—  
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- Pasqua, Angelo J. Beverage cup. 2,893,376, 7-7-59, Cl. 126-261.
- Pasquale, David B. Fuse and tube testing device. 2,902,643, 9-1-59, Cl. 324-53.
- Pasquale, Michael J. Shrimp knife. 2,876,487, 3-10-59, Cl. 17-7.
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- Pass, Sam: *See*—  
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- Pass & Seymour, Inc.: *See*—  
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Hall, Flemmon P. 2,883,312.  
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- Passow, Edward B., to Zenith Radio Corp. Eyeglass hearing aid. 2,901,551, 8-25-59, Cl. 179-107.
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- Patrick, Merlyn J., 50% to F. J. Boeh. Collapsible baby stroller and walker. 2,884,046, 4-28-59, Cl. 155-22.
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- Patrick, Ted. Mail sorting. 2,890,825, 6-16-59, Cl. 229-68.
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- Patterson, Everett E. Dental floss holder. 2,872,930, 2-10-59, Cl. 132-192.
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- Patterson, Howard F. Load bearing plate and method for securing the plate and other objects to a smooth surface. 2,874,500, 2-24-59, Cl. 41-34.
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- Patterson, James A., and I. M. Abrams, to Chemical Process Co. Anion exchange resins and method of preparation thereof. 2,900,352, 8-18-59, Cl. 260-2.1.
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- Patton, James O., Jr.: *See*—  
Cooper, Jacob L., Daniel, Patton, and Vandergrift. 2,870,496.  
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- Patton, John F. Vernier height and depth gauge. 2,910,779, 11-3-59, Cl. 33-170.
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- Patton, Wade H., W. H. Patton, Jr., and A. Roth, to Lanston Monotype Machine Co. Type composing machine. 2,883,038, 4-21-59, Cl. 199-77.
- Patton, Wade H., Jr.: See—
- Patton, Wade H. and Wade H., Jr., and Roth. 2,883,038.
- Patureau, Arthur M., to Minneapolis-Honeywell Regulator Co. Liquid level measuring apparatus. 2,874,574, 2-24-59, Cl. 73-421.
- Patzner, William A., to L. W. Menzimer, trustee. Selector device. 2,888,835, 6-2-59, Cl. 74-483.
- Patzner, William A., and W. A. Tratsch, to Ideal Dispenser Co. Vending machine. 2,877,928, 3-17-59, Cl. 221-295.
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- Chastaney, Ruth G., and Paukstela. 2,886,147.
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- Deahl, Thomas J. Paul, and Steinle. 2,892,687.
- Tsang, Sien M., Lewis, and Paul. 2,893,816.
- Paul, Gunther, to Telefunken Gesellschaft für drahtlose Telegraphie m.b.H. Synchronization signal separation circuit. 2,890,279, 6-9-59, Cl. 178-69.5.
- Paul, Hal F. Load leveling cart. 2,893,578, 7-7-59, Cl. 214-378.
- Paul, Harry F., to Browning Laboratories, Inc. Apparatus for frequency-modulation reception with means for muting noise. 2,914,664, 11-24-59, Cl. 250-6.
- Paul, Israel A., and A. H. Greene, to Sperry Rand Corp. Automatic tuning systems. 2,875,329, 2-24-59, Cl. 250-20.
- Paul, Jack: See—
- Ashe, William J. 2,905,259.
- Paul, Julien, to United Merchants and Manufacturers, Inc. Textile printing emulsions. 2,894,801, 7-14-59, Cl. 8-70.
- Paul Knitting Mills, Inc.: See—
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- Paul, Mahrle F. Nut splitter. 2,879,592, 3-31-59, Cl. 30-272.
- Paul, Nathan: See—
- Reece, Clarence D., and Paul. 2,893,149.
- Paul, Robert E., to Minnesota and Ontario Paper Co. Vapor resisting roof structure. 2,872,882, 2-10-59, Cl. 108-6.
- Paul, Robert J. A.: See—
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- Paul, Talbert W., to Deere & Co. Seeding device. 2,870,940, 1-27-59, Cl. 221-233.
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- Paulding, David L., to Ref Mfg. Corp. Electric oven. 2,885,526, 5-5-59, Cl. 219-35.
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- Geier, William. 2,900,618.
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- Zechall, Richard, and Paule. 2,899,952.
- Paule, Willy, to Robert Bosch G.m.b.H. Electrical lighting arrangement. 2,910,621, 10-27-59, Cl. 315-82.
- Paullick, Joseph H., Jr. Cutter guard. 2,918,165, 12-22-59, Cl. 206-16.
- Pauling, Martin F. Conduit bender. 2,893,461, 7-7-59, Cl. 153-48.
- Paulson, William L., Jr., to Bailey Meter Co. Vapor generating and superheating operation. 2,869,520, 1-20-59, Cl. 122-479.
- Paul, Ambrose D., H. A. Kelly, and R. A. Mudge, to Wheeling Stamping Co. Hinged closure. 2,889,087, 6-2-59, Cl. 222-498.
- Paul, Peter L., to Texaco Development Corp. Carbon monoxide conversion process. 2,892,685, 6-30-59, Cl. 23-213.
- Paul, Peter L., to Texaco Development Corp. Ore beneficiation process and apparatus. 2,916,213, 12-8-59, Cl. 241-5.
- Paul, Stephen. Sequential pulse generator. 2,891,170, 6-16-59, Cl. 307-88.
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- Paul, Stephen. Magnetic core nondestructive readout circuit. 2,913,708, 11-17-59, Cl. 340-174.
- Paul, Stephen. Magnetic core binary circuit. 2,916,729, 12-8-59, Cl. 340-174.
- Paulus, James W. Bale buncher. 2,886,938, 5-19-59, Cl. 56-474.
- Paulos, George L., and D. M. Bahlatzis. Horse racing game. 2,879,998, 3-31-59, Cl. 273-86.
- Paulsen, Edwin L.: See—
- First, Vincent E., and Paulsen. 2,918,801.
- Paulsen, Gerhard A. Roller for dragger nets. 2,910,796, 11-3-59, Cl. 43-9.
- Paulsen, Hans C., to United Shoe Machinery Corp. Machines for applying heated thermoplastic adhesives. 2,868,160, 1-13-59, Cl. 118-202.
- Paulsen, Hans C., to United Shoe Machinery Corp. Cement handling apparatus. 2,872,916, 2-10-59, Cl. 126-343.5.
- Paulsen, Hans C., to B. B. Chemical Co. Handling thermoplastic cements. 2,874,084, 2-17-59, Cl. 154-53.6.
- Paulsen, Hans C., to United Shoe Machinery Corp. Cement handling apparatus. 2,877,763, 3-17-59, Cl. 126-343.5.
- Paulsen, Hans C., to United Shoe Machinery Corp. Tape coating and dispensing apparatus. 2,878,777, 3-24-59, Cl. 118-43.
- Paulsen, Hans C., to United Shoe Machinery Corp. Apparatus for handling thermoplastic cement in rod form. 2,884,922, 5-5-59, Cl. 126-343.5.
- Paulsen, Hans C., to B. B. Chemical Co. Machines for forming shoe covers. 2,891,264, 6-23-59, Cl. 12-1.
- Paulsen, Harold A. Combination hallway and disappearing dressing room. 2,884,666, 5-5-59, Cl. 20-2.
- Paulsen, Jean F., to Societe Luxembourgeoise de Brevets et de Participations Lubrepa. Resilient suspension devices. 2,893,665, 7-7-59, Cl. 248-24.
- Paulsen, Paul L., V. H. Hiers, and C. G. Kanzelberger, to Hamilton Mfg. Co. Drafting board mechanism with automatic retraction means. 2,899,772, 8-18-59, Cl. 45-131.
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- Paulsen, Robert C., to International Business Machines Corp. Digital microvolt measuring device. 2,880,392, 3-31-59, Cl. 324-99.
- Paulsen, Robert C., and A. H. Dickinson, to International Business Machines Corp. Polystable trigger circuit. 2,901,608, 8-25-59, Cl. 250-27.
- Paulsen, William F., to E. I. du Pont de Nemours and Co. Process of orienting a dense tow of polymeric ester filaments by two step hot aqueous bath treatments. 2,918,346, 12-22-59, Cl. 8-130.1.
- Paulsohn, Lester H., to Sawyer's Inc. Device for feeding discs in projectors, viewers, and the like. 2,916,964, 12-15-59, Cl. 88-27.
- Paulson, Christian, to Western Electric Co., Inc. Fixture for assembling and aligning components of a magnetron. 2,915,807, 12-8-59, Cl. 29-25.19.
- Paulson, Rueben E.: See—
- Albertson, Victor N., and Paulson. 2,916,926.
- Paulson, William A., to Barber-Colman Co. Frequency responsive receiver for remote control system. 2,889,536, 6-2-59, Cl. 340-164.
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- Pauly, Joachim W., to Westinghouse Air Brake Co. Cushioned piston assembly for cylinders. 2,884,903, 5-5-59, Cl. 121-38.
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- Paumier, Jean A., and P. E. Terrason. Apparatus for detecting leakage of gaseous halogen compounds. 2,907,639, 10-6-59, Cl. 23-254.
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- Pavey, George M., Jr., to Marine Instrument Co. Firing line for subaqueous geophysical prospecting. 2,870,708, 1-27-59, Cl. 102-16.
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- Pavian, Dorothy S.: See—
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- Pavlecka, Vladimir H. Aerostatic bearings with fluid-dynamic seals. 2,916,332, 12-8-59, Cl. 308-9.
- Pavlicek, Michael A., to Esso Research and Engineering Co. Control of isobutylene polymerization reaction rate. 2,901,471, 8-25-59, Cl. 260-94.8.
- Pavlinetz, George. Method of forming wing nuts from tubular stock. 2,889,564, 6-9-59, Cl. 10-86.
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- Pawelka, Gustav J., to Fairhawn Properties Corp. Display sign. 2,871,598, 2-3-59, Cl. 40-130.
- Pawley, Myron G., and J. M. Sacks, to Zenith Radio Corp. Subscriber television system with code reset bursts in audio channel. 2,881,244, 4-7-59, Cl. 178-5.1.
- Pawlicki, Clarence D., to Owens-Illinois Glass Co. Method of applying sealing compositions to glass parts. 2,894,359, 7-14-59, Cl. 49-82.
- Pawling, Frank, to Dowty Hydraulic Units Ltd. Shock absorbers. 2,914,195, 11-24-59, Cl. 213-43.
- Paxton, Allen D., F. S. Smith, and C. H. Johnson, to E. Paxton. Method and apparatus for making paper plant covers. 2,883,914, 4-28-59, Cl. 93-36.2.
- Paxton, Charles M. Concrete wall form. 2,895,208, 7-21-59, Cl. 25-131.
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- Pearshall, David E., to Bickford Research Laboratories Inc. Combustible composition. 2,909,418, 10-20-59, Cl. 52-2.
- Pearshall, Frank M., Jr., to Bell Telephone Laboratories, Inc. Identifier-recorder. 2,889,402, 6-2-59, Cl. 179-5.5.
- Pearshall, Frank M., Jr., and R. E. Staehler, to Bell Telephone Laboratories, Inc. Transistor circuits. 2,877,357, 3-10-59, Cl. 307-88.5.
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- Pearson, Paul A. Pulse generator. 2,916,640, 12-8-59, Cl. 307-106.
- Pearson, Raymond C. Water powered retractable showerhead. 2,898,605, 8-11-59, Cl. 4-145.
- Pearson, Raymond C. Retractable and adjustable showerhead. 2,903,710, 9-15-59, Cl. 4-145.
- Pearson, Richard K., and T. Wartik, to Callery Chemical Co. Reaction products of NABH<sub>4</sub> and CO<sub>2</sub>. 2,872,474, 2-3-59, Cl. 260-462.
- Pearson, Ronald D. Pressure exchangers. 2,904,242, 9-15-59, Cl. 230-69.
- Pearson, Ronald D. Pressure exchangers. 2,904,243, 9-15-59, Cl. 230-69.
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- Pearson, Ronald D. Pressure exchangers. 2,904,245, 9-15-59, Cl. 230-69.
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- Peart, Leland L., and J. E. Kettman, to Rheem Mfg. Co. Method of producing electroplated containers. 2,907,701, 10-6-59, Cl. 204-26.
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- Pease, F. B., Co.: *See*—  
Woodward, Bernard, Jr. 2,884,974.
- Pease, George R.: *See*—  
Petryck, Leon M., and Pease. 2,900,490.
- Pease, George W., Jr. Rotary drill bit. 2,901,222, 8-25-59, Cl. 255-61.
- Pease, Harlow H., to Clum Mfg. Co. Unit electrical switch for gang assembly. 2,874,338, 2-17-59, Cl. 317-99.
- Pease, Marshall C., III: *See*—  
Moats, Robert R., Dawson, and Pease. 2,916,656.
- Pease, Mason E. Coupler hangers for trampolines. 2,916,746, 12-15-59, Cl. 5-199.
- Pease, Robert H. Trailer brake control system. 2,870,876, 1-27-59, Cl. 188-139.
- Pease, Stephen W.: *See*—  
Hutzler, John R., and Pease. 2,890,396.
- Pease, William C., III: *See*—  
Van Doorn, Donald W., and Pease. 2,882,816.
- Peasey, Philip R.: *See*—  
Pettitt, Leslie E., and Peasey. 2,882,801.
- Peaslee, Alexander L. Tooth brush cover. 2,910,172, 10-27-59, Cl. 206-15.1.
- Peaslee, Lawrence R., and M. Rosenblatt, to General Electric Co. Selsyn exciter for position programming control system. 2,894,253, 7-7-59, Cl. 340-345.
- Peat, James, to Union Railroad Co. Canopied vehicle. 2,877,722, 3-17-59, Cl. 105-377.
- Peat, James, to Cardwell Westinghouse Co. Dust-guard assembly. 2,893,761, 7-7-59, Cl. 286-6.
- Peavey, F. H., & Co.: *See*—  
Connell, Lawrence H., and Moe. 2,898,431.
- Pebley, Verne H. Method of repairing a basement wall. 2,898,759, 8-11-59, Cl. 72-126.
- Pebley, Verne H. Apparatus for repairing basement wall. 2,898,760, 8-11-59, Cl. 72-128.
- Peburn, Frank A., to Style Footwear Co., Inc. Apparatus for applying wrappers to shoe soles. 2,896,230, 7-28-59, Cl. 12-1.
- Pech, Allison E., to Food Machinery and Chemical Corp. Method of preparing evaporated milk and like products for preservation in sealed containers. 2,892,723, 6-30-59, Cl. 99-212.
- Pechenik, Jack: *See*—  
Bakke, Laurence D., and Pechenik. 2,902,022.
- Pechiney, Compagnie de Produits Chimiques et Electro-metallurgiques: *See*—  
Cartoux, Henri. 2,899,477.
- Cartoux, Henri, and Freyssinet. 2,888,156.
- Frejacques, Jean L. M. 2,904,393.
- Hutter, Jean-Claude. 2,899,276.
- Lacroix, Seraphin. 2,919,159.
- Pingard, Lucien. 2,881,051.
- Pruvot, Emile J. B. 2,874,039.
- Pruvot, Emile J. B. 2,915,441.
- Saussol, Fernand. 2,915,365.
- Seon, Marius, Wettröf, and Lelieu. 2,871,247.
- Tertian, Robert, and Papee. 2,876,068.
- Pechmeze, Jacques: *See*—  
Bilger, Xavier, and Pechmeze. 2,904,572.
- Pechukas, Alphonse, to Columbia-Southern Chemical Corp. Production of titanium esters. 2,883,348, 4-21-59, Cl. 260-2.
- Pechukas, Alphonse, to Columbia-Southern Chemical Corp. Vulcanized rubber-silica compositions. 2,914,503, 11-24-59, Cl. 260-41.5.
- Pechy, William, to American Can Co. Machine for packing articles into carriers. 2,883,812, 4-28-59, Cl. 53-164.
- Peck, Carl M., to Gulf Oil Corp. Extreme pressure lubricant. 2,895,912, 7-21-59, Cl. 258-18.
- Peck, Cecil C., to Cecil C. Peck Co. Shoe lace. 2,914,830, 12-1-59, Cl. 24-120.
- Peck, Cecil C., to Cecil C. Peck Co. Wire feeding means. 2,915,171, 12-1-59, Cl. 203-227.
- Peck, Cecil C., Co.: *See*—  
Peck, Cecil C. 2,914,830.
- Peck, Cecil C. 2,915,171.
- Peck, David B., to Sprague Electric Co. Ferroelectric transducer. 2,872,600, 2-3-59, Cl. 310-8.7.
- Peck, David B., to Sprague Electric Co. Electrical capacitors. 2,887,649, 5-19-59, Cl. 317-260.
- Peck, David B., to Sprague Electric Co. Solder composition and method of soldering using same. 2,887,772, 5-26-59, Cl. 29-496.
- Peck, David B., and R. J. Lockhart, to Sprague Electric Co. Molded polystyrene capacitor. 2,887,634, 5-19-59, Cl. 317-258.
- Peck, David W.: *See*—  
Anderson, John R., and Peck. 2,916,496.
- Lampert, Bernard B., Murray, and Peck. 2,910,518.
- Peck, Edward. Safety razor with tiltable safety guard. 2,915,817, 12-8-59, Cl. 30-48.
- Peck, George, to Scovill Mfg. Co. Sewing machine attachment. 2,872,884, 2-10-59, Cl. 112-2.
- Peck, George R., 1/2 to L. W. Wolford, Sr., and 1/2 to D. C. Harper. Rust proofing process. 2,899,336, 8-11-59, Cl. 117-49.
- Peck, Harry: *See*—  
Edwards, Albert, and Peck. 2,909,369.
- Edwards, Albert, and Peck. 2,912,928.
- Peck, Helen M.: *See*—  
Peck, Robert L. 2,891,987.
- Peck, Maxine D., to Crescent Corset Co., Inc. Panty girdle. 2,908,277, 10-13-59, Cl. 128-525.
- Peck, Ralph. Shaving guide for trimming sideburns. 2,879,778, 3-31-59, Cl. 132-45.
- Peck, Ralph. Floating lantern support. 2,917,755, 12-22-59, Cl. 9-8.3.
- Peck, Robert L., deceased, by H. M. Peck, administratrix, to Merck & Co., Inc.  $\alpha$ -amino- $\beta$ -aminopropionic acid and derivatives thereof. 2,891,987, 6-23-59, Cl. 260-482.
- Peck, Rudolph, and M. N. Rich. Clamp with interchangeable pressure pad. 2,894,548, 7-14-59, Cl. 144-303.
- Peck, William H., to American-Marietta Co. Mechanism for straightening rods. 2,891,597, 6-23-59, Cl. 153-48.
- Peck, William H., 45/100 to W. H. Peck, Jr. Journal bearings. 2,912,264, 11-10-59, Cl. 286-7.



- Peck, William H., Jr.: *See*—  
Peck, William H. 2,912,264.
- Peckham, Arthur C. Orthopedic spinal brace. 2,871,850, 2-3-59, Cl. 128-78.
- Peckham, Vernon D.: *See*—  
Carr, Barney J., and Peckham. 2,891,155.
- Pecorara, Nat. Barber's brush. 2,903,728, 9-15-59, Cl. 15-131.1.
- Pecquet, Tesson & Cie: *See*—  
Tesson, Pierre. 2,901,591.
- Pedar Ltd.: *See*—  
Ramén, Torsten. 2,888,982.
- Peddicord, Haskell J.: *See*—  
Krumrei, William C., Strain, and Peddicord. 2,877,185.
- Peden, Douglas T., to Micromatic Hone Corp. Diagonal stone honing tool. 2,911,768, 11-10-59, Cl. 51-184.1.
- Pedersen, Charles J., to E. I. du Pont de Nemours and Co. Process for burning gaseous fuels. 2,867,516, 1-6-59, Cl. 48-197.
- Pedersen, Charles J., to E. I. du Pont de Nemours and Co. Processes for producing photographic images and elements therefor. 2,915,892, 12-1-59, Cl. 96-27.
- Pedersen, Charles J., and V. Weinmayr, to E. I. du Pont de Nemours and Co. Dicyclopentadienyliron derivatives. 2,875,223, 2-24-59, Cl. 260-439.
- Pedersen, Clarence S., to Duraplastics, Inc. Composite tie rack. 2,914,182, 11-24-59, Cl. 211-13.
- Pedersen, George H., to Curtiss-Wright Corp. Apparatus for increasing compressor pressure ratios in a gas turbine engine. 2,885,856, 5-12-59, Cl. 60-39.25.
- Pedersen, Hans: *See*—  
Dahle, Orvar and B., and Pedersen. 2,879,394.
- Pedersen, Ragnar K. Portable reciprocating power saw. 2,863,248, 1-13-59, Cl. 143-68.
- Pederson, Clarence L. Rim resizing tool. 2,871,812, 2-3-59, Cl. 113-99.
- Pederson, Helmer T., to Bill Jack Scientific Instrument Co. Electronic flasher system. 2,916,670, 12-8-59, Cl. 315-209.
- Pedersen, Raymond L.: *See*—  
Campbell, J. Allan, Pederson, Babcock, and Hogg. 2,877,240.
- Pederson, Raymond L., M. E. Herr, J. C. Babcock, J. A. Campbell, and J. A. Hogg, to The Unjohn Co. 6-fluoro androstenes. 2,867,630, 1-6-59, Cl. 260-397.3.
- Pedrick, Donald R., to Hamilton Watch Co. Gauge attachment. 2,888,751, 6-2-59, Cl. 33-178.
- Pedrick, Irene P., to Sellers Injector Corp. Jet cleaner. 2,916,268, 12-8-59, Cl. 261-18.
- Pedrick, Robert F., to General Dynamics Corp. Telephone system trunk circuit. 2,915,591, 12-1-59, Cl. 179-27.
- Pedrick Tool and Machine Co.: *See*—  
Shaw, Ralph M., Jr. 2,884,987.
- Peebles, David D., to Foremost Dairies, Inc. Coffee product and method of manufacture. 2,897,084, 7-28-59, Cl. 99-71.
- Peebles, David D., to Dairy Foods Inc. Milk manufacturing method and product. 2,911,300, 11-3-59, Cl. 99-56.
- Peebles, Edgar G. Drift indicator. 2,901,835, 9-1-59, Cl. 33-205.5.
- Peebles, Robert D. and R. E. Automatic automobile brake. 2,877,880, 3-17-59, Cl. 192-3.
- Peebles, Robert E.: *See*—  
Peebles, Robert D. and R. E. 2,877,880.
- Peek, Henry L., to Allis-Chalmers Mfg. Co. Undervoltage tripping device for circuit breakers. 2,904,730, 9-15-59, Cl. 317-199.
- Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Electromagnetic relay. 2,877,316, 3-10-59, Cl. 200-87.
- Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Circuit controlling device. 2,893,422, 8-4-59, Cl. 200-93.
- Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Laminated core dry reed relay. 2,902,558, 9-1-59, Cl. 200-87.
- Peek, Robert L., Jr., to Bell Telephone Laboratories, Inc. Electrographic transmitter. 2,907,824, 10-6-59, Cl. 178-18.
- Peek, Sanford C., Jr., to Sylvania Electric Products Inc. Incandescent lamp. 2,904,711, 9-15-59, Cl. 313-45.
- Peel, Robert, to Fidelity Machine Co., Inc. Jack selection mechanism for circular knitting machines. 2,872,796, 2-10-59, Cl. 66-50.
- Peeler, Cletus E., Jr.: *See*—  
Henda, Frank P., and Peeler. 2,905,563.
- Peeler, Cletus E., Jr., to Diamond Alkali Co. Chemical composition and process. 2,909,412, 10-20-59, Cl. 23-230.
- Peelers Co., The: *See*—  
Lapeyre, Fernand S., and J. M. 2,868,014.  
Lapeyre, Fernand S. and J. M., and Demarest. 2,886,844.  
Lapeyre, James M. 2,888,709.
- Peepas, James Z., and B. Zimmerman; said Peepas assor. to Selecto-Flash, Inc. Flasher control circuit. 2,918,607, 12-22-59, Cl. 315-163.
- Peeples, Robert M., and K. Miskinis, to Allis-Chalmers Mfg. Co. Plugging control system. 2,904,737, 9-15-59, Cl. 318-261.
- Peeps, Donald J., to The De Vilbiss Co. Coating material pump. 2,895,421, 7-21-59, Cl. 103-50.
- Peeps, Donald J., to The De Vilbiss Co. Spray nozzle. 2,895,685, 7-21-59, Cl. 239-400.
- Peeps, Donald J., to The De Vilbiss Co. Spray gun. 2,895,686, 7-21-59, Cl. 239-412.
- Peeps, Donald J., to The De Vilbiss Co. Automatic coating apparatus. 2,900,950, 8-25-59, Cl. 118-2.
- Peeps, Donald J., to The De Vilbiss Co. Spray gun. 2,904,262, 9-15-59, Cl. 239-408.
- Peeps, Donald J., and J. B. Schmitt, to The De Vilbiss Co. Air flow control valve. 2,903,198, 9-22-59, Cl. 137-627.5.
- Peerless Cement Corp.: *See*—  
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- Peerless Electric Co.: *See*—  
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- Peerless Equipment Co.: *See*—  
Dudley, Edmond R., and Quast. 2,873,018.
- Peerless Gage Co.: *See*—  
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- Peerless Mfg. Division, Dover Corp.: *See*—  
Andriot, George W., and Riester. 2,888,226.
- Peerless Oil and Gas Co.: *See*—  
Chapman, Edward P., Jr., and Wood. 2,904,424.
- Peerless Sewing Machine Co., Inc.: *See*—  
Chinnici, Michael A. 2,893,336.
- Peerman, Dwight E., to General Mills, Inc. Composition containing an alkyl resin and a polyamide resin derived from polymeric fat acids and an alkylene polyamine. 2,889,292, 6-2-59, Cl. 260-22.
- Peerman, Dwight E., and D. E. Floyd, to General Mills, Inc. Polyamide resin process and product. 2,881,194, 4-7-59, Cl. 260-404.5.
- Peerman, Dwight E., and H. Wittcoff, to General Mills, Inc. Polyamide resin. 2,886,543, 5-12-59, Cl. 260-18.
- Peerman, Dwight E., and D. E. Floyd, to General Mills, Inc. Compositions containing amino polyamides and heat reactive phenolic resins. 2,891,023, 6-16-59, Cl. 260-19.
- Peery, Norman E., to Shell Development Co. Hydrodesulfurization of hydrocarbon oils. 2,901,422, 8-25-59, Cl. 208-213.
- Peet, Charles S.: *See*—  
Shilliday, Theodore S., Peet, and Middleton. 2,887,633.
- Peet, Nick P.: *See*—  
Andrews, Jack M., Cornell, Peet, and Roquemore. 2,881,129.  
Heinrich, Raymond L., Anderson, and Peet. 2,916,366.
- Peet, Nick P., to Esso Research and Engineering Co. Removal of metal contaminants from residual oils. 2,895,902, 7-21-59, Cl. 208-73.
- Peet, Nick P., to Esso Research and Engineering Co. Production of methanol. 2,904,575, 9-15-59, Cl. 260-449.5.
- Peet, Robert B., to Chemical Construction Corp. Anhydrite process for phosphoric acid manufacture. 2,885,263, 5-5-59, Cl. 23-165.
- Peet, Robert B., to Chemical Construction Corp. Hemihydrate process for phosphoric acid manufacture. 2,885,264, 5-5-59, Cl. 23-165.
- Peffer, Alrid B., Jr., to Imperial Machine Co., Inc. Apparatus for spray-greasing baking pans. 2,912,169, 11-10-59, Cl. 239-124.
- Peglers Ltd.: *See*—  
Brown, Harry, and McPherson. 2,893,421.
- Peglow, Walter, to Waste King Corp. Dishwasher with vibration-preventing motor and impeller mount. 2,880,740, 4-7-59, Cl. 134-188.
- Peglow, Walter, to Waste King Corp. Dishrack supporting structure for dishwasher. 2,918,341, 12-22-59, Cl. 312-311.
- Peguet, Georges H., and A. Guyennon. Shaft packings. 2,877,029, 3-10-59, Cl. 286-11.15.
- Peifer, Albert G.: *See*—  
Bryant, John H., Peifer, and Wilmarth. 2,894,227.
- Peil, William: *See*—  
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- Pellet, Lester R.: *See*—  
Kaye, Philip, and Tate. 2,883,692.  
Kaye, Philip, and Tate. 2,888,698.  
Kaye, Philip, and Tate. 2,908,928.
- Pellet, Lester R., P. Kaye, and E. E. Tate; said Kaye and said Tate assors., to said Pellet. Double-acting self-cleaning retractable brush. 2,916,756, 12-15-59, Cl. 15-184.
- Pellet, Lester R., P. Kaye, and E. E. Tate; said Kaye and said Tate assors., to said Pellet. Bellows brush. 2,916,757, 12-15-59, Cl. 15-184.
- Peimer, Stanley. Folding box. 2,903,175, 9-8-59, Cl. 229-17.
- Peirce, Charles P.: *See*—  
Wehmer, Bruno F. 2,899,506.
- Peirce, George A.: *See*—  
Harbaugh, Max L., and Peirce. 2,880,064.
- Peirce, Thomas H. Motor mounting. 2,880,947, 4-7-59, Cl. 248-9.
- Peischl, Franz: *See*—  
Kaden, Willy, and Peischl. 2,880,661.
- Pekar, George H., and A. S. Osborn, to United States of America, Air Force. High speed printer. 2,893,313, 7-7-59, Cl. 101-93.
- Pekarek, Edward G., to Thompson Ramo Wooldridge, Inc. Fluid directing member. 2,888,244, 5-26-59, Cl. 253-77.
- Pekarek, Frank, to Nylonge Corp. Apparatus for producing fiber reinforced sponge sheeting. 2,899,704, 8-18-59, Cl. 18-1.
- Peklay, William P., to Electric Steel Foundry, now by change of name to Electric Steel Foundry Co. Tooth assembly. 2,896,345, 7-28-59, Cl. 37-142.



- Pelak, Andrew, to Curtiss-Wright Corp. Mixing and discharging apparatus. 2,895,645, 7-21-59, Cl. 222-162.
- Pelander, Carl E., to United States of America, Army. Tool shaping machine. 2,914,993, 12-1-59, Cl. 90-24.3.
- Pelavin, Milton H., to Technicon International Ltd. Automatic immersion apparatus. 2,869,508, 1-20-59, Cl. 118-10.
- Pelavin, Milton H., to Technicon Chromatography Corp. Drop volume measuring apparatus. 2,880,764, 4-7-59, Cl. 141-130.
- Pelcak, Emil J., and A. C. Dornbush, to American Cyanamid Co. Process water treatment. 2,906,595, 9-29-59, Cl. 21-2.7.
- Pelcin, Albert L., to The Eastern Malleable Iron Co. Latch device. 2,900,204, 8-18-59, Cl. 292-173.
- Pelenc, Yves: *See*—  
Latour, André, Pelenc, and Ramponneau. 2,875,305.
- Pelenc, Yves, to Ets. Merlin & Gerin. Electrical circuit breakers. 2,909,632, 10-20-59, Cl. 200-147.
- Peles, Joseph. Bird feeding tray. 2,891,507, 6-23-59, Cl. 119-18.
- Pelikan, Louis: *See*—  
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- Pelino, William M.: *See*—  
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- Pelizzari, Charles A.: *See*—  
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- Pell, Eric, to Cutler-Hammer, Inc. Control system for electric reel motors. 2,874,917, 2-24-59, Cl. 242-75.51.
- Pell, Eric, and C. E. Smith, to Cutler-Hammer, Inc. Alternating current control system utilizing saturable reactor for regulation. 2,885,628, 5-5-59, Cl. 323-66.
- Pelladeau, Maurice, 1/2 to Standard Research Consultants, Inc. Rotary engines. 2,879,713, 3-31-59, Cl. 103-125.
- Pelladeau, Maurice, 1/2 to Standard Research Consultants, Inc. Device usable as a torque variator, pump, compressor, meter, motor, turbine, clutch and brake. 2,901,978, 9-1-59, Cl. 103-125.
- Pelladeau, Maurice, 1/2 to Standard Research Consultants, Inc. Rotary pumps. 2,902,942, 9-8-59, Cl. 103-121.
- Pellam, John R.: *See*—  
Broida, Herbert P., and Pellam. 2,892,766.
- Pellar, Fred: *See*—  
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- Pelle, James S., to Sperry Rand Corp. Method of manufacturing a microwave attenuator for travelling wave tube. 2,880,120, 3-31-59, Cl. 117-226.
- Pellegrin, Elmer D., to Dixie Products, Inc. Fold-away cooking unit. 2,879,760, 3-31-59, Cl. 126-37.
- Pellegrini, John P., Jr.: *See*—  
Fareri, Elizabeth L., and Pellegrini. 2,899,459.
- Pellegrini, John P., Jr., and H. I. Thayer, to Gulf Research & Development Co. Motor fuel. 2,897,068, 7-28-59, Cl. 44-56.
- Peller, Henry A., to General Motors Corp. Adjustable seat. 2,893,470, 7-7-59, Cl. 155-9.
- Peller, Henry A., to General Motors Corp. Vehicle seats. 2,894,562, 7-14-59, Cl. 155-51.
- Pellerin, Norvin L., and F. X. Levy; said Levy assor. to said Pellerin. Control system. 2,874,714, 2-24-59, Cl. 137-93.
- Pelletier, Albert L. G., to Comptoir de l'Industrie Cotonniere, Etablissements Boussac. Installations particular for the winding of a sheet of textile threads. 2,898,529, 8-4-59, Cl. 318-7.
- Pelletier, Joseph A., to Allen-Crawford Ltd. Process for producing candies with inset designs. 2,874,649, 2-24-59, Cl. 107-54.
- Pellier, Christian V., to Burndy Corp. Method of making a spacer. 2,885,776, 5-12-59, Cl. 29-417.
- Pellillo, Mansueto J. Seismometers. 2,906,994, 9-29-59, Cl. 340-17.
- Pellis, Giovanni. Dobby for weaving looms with positive movement with one or two cylinders for cards. 2,904,078, 9-15-59, Cl. 139-77.
- Pellmyr, Bengt, and S. W. Wallin, to Aktiebolaget Svenska Flaktfabriken. Static pressure regulator. 2,888,948, 6-2-59, Cl. 137-505.22.
- Pelphrey, Harry, to Michigan Tool Co. Roll for forming toothed elements. 2,906,147, 9-29-59, Cl. 80-23.
- Pelto, Edward A. Power operated end thrust type rotary shaper planer. 2,915,095, 12-1-59, Cl. 144-134.
- Peltola, Veikko K., to Illinois Testing Laboratories, Inc. Magnetic restoring force suspension galvanometer. 2,871,449, 1-27-59, Cl. 324-154.
- Pelton & Crane Co., The: *See*—  
Winter, Marvin. Re. 24,755.
- Pelton, Earl L.: *See*—  
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- Pelton, Jay C., Jr.: *See*—  
Segall, Louis H., and Pelton. 2,916,672.
- Peluso, Alphonse M. Trigger lock. 2,893,152, 7-7-59, Cl. 42-70.
- Pelz, Hans. Device for weighing batches of a granular material. 2,919,099, 12-29-59, Cl. 249-15.
- Pelz, Robert A.: *See*—  
Spaulding, Charles W., and Pelz. 2,883,487.
- Pelz, Willibald, L. Burgardt, and O. Wahi, to AGFA Akt. Production of photographic colour images with heterocyclic developers. 2,895,825, 7-21-59, Cl. 96-55.
- Pelzel, Erich, to Vereinigte Osterreichische Eisen-und Stahlwerke Akt. Process for heat-treating a bearing alloy. 2,900,288, 8-18-59, Cl. 148-13.
- Pelzer, Harold H., and S. G. Thompson, said Pelzer assor. to said Thompson. Motor-operated meat block scraper. 2,885,701, 5-12-59, Cl. 15-93.
- Pelzer, Harry L., and R. M. Carr, to Sinclair Oil & Gas Co. Combustion in well with steel liner. 2,877,847, 3-17-59, Cl. 166-39.
- Pemberton, Anderson T. Fishing line guide. 2,880,546, 4-7-59, Cl. 43-24.
- Pemberton, Wilbur B. Cultivating machine. 2,905,257, 9-22-59, Cl. 172-620.
- Pemco Corp.: *See*—  
Plumer, Joseph B. 2,918,754.
- Pemco Wheel Co.: *See*—  
Black, John W. 2,914,340.
- Pen Optical & Instrument Co.: *See*—  
Thompson, Kenneth B. 2,906,161.
- Penasse, Lucien: *See*—  
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Barthelemy, Pierre, Penasse, and Nomine. 2,879,204.  
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- Penberthy Electromelt Co.: *See*—  
Penberthy, Harvey L., Hernley, and Lohman. 2,893,708.
- Penberthy, Harvey L. Method and apparatus for glass production. Re. 24,625, 3-31-59, Cl. 13-6.
- Penberthy, Harvey L. Dosimeter. 2,916,625, 12-8-59, Cl. 250-83.
- Penberthy, Harvey L., K. P. Hernley, and H. W. Lohman; said Hernley and said Lohman assors. to Penberthy Electromelt Co. Glass homogenizer. 2,893,708, 7-7-59, Cl. 259-43.
- Pence, William R. Anti-swing cleat. 2,879,018, 3-24-59, Cl. 248-28.
- Pendell, Paul R.: *See*—  
Baus, Richard E., Fisher, and Pendell. 2,911,367.
- Pendergast, Raymond F. Sanding machine. 2,876,600, 3-10-59, Cl. 51-139.
- Pendleton, Donn W.: *See*—  
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- Pendleton, Frank P.: *See*—  
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- Pendleton Tool Industries, Inc.: *See*—  
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Van Hoose, William E. 2,900,855.
- Pendley, Ralph L.: *See*—  
Hoge, Legare W., and Pendley. 2,869,423.
- Penfield, Charles S.: *See*—  
Mathewson, Arthur A., Jr., and Penfield. 2,903,240.
- Pengelley, Charles D.: *See*—  
Wilson, Leon E., and Pengelley. 2,885,891.
- Penick, Joe E., to Socony Mobil Oil Co., Inc. Method and apparatus for treating liquid hydrocarbons with moving adsorbents. 2,904,506, 9-15-59, Cl. 208-310.
- Penick, S. B., & Co., Inc.: *See*—  
Siminoff, Paul. 2,872,373.
- Starr, Donald F., and Calsetta. 2,884,356.
- Penland, Lemuel R., L. L. Best, and C. J. Peachey. Web wind-up machine. 2,903,195, 9-8-59, Cl. 242-67.2.
- Penland, William Z., Jr. Line support. 2,899,173, 8-11-59, Cl. 256-10.
- Penley, Benjamin S.: *See*—  
Mueller, Max B., and Penley. 2,888,710.
- Penley Brothers: *See*—  
Allen, John M. 2,907,159.
- Pen-Mac-Nye Co.: *See*—  
Nye, Norman H., and Ruggles. 2,911,651.
- Penman, Arthur W., to Wilson Plastic Container Corp. Card for displaying merchandise. 2,903,139, 9-8-59, Cl. 211-60.
- Penman, Montgomery B., to The Magee Carpet Co. Multiple needle tufting machines. 2,898,876, 8-11-59, Cl. 112-79.
- Penn, Alexander, to John Wilkins & Co. Ltd. Bracket or the like clamps. 2,896,898, 7-28-59, Cl. 248-245.
- Penn Controls, Inc.: *See*—  
Few, William. 2,918,932.  
Kreuter, Kenneth G. 2,870,965.  
McDonald, Lyell J. 2,878,355.  
McDonald, Lyell J. 2,894,198.
- Siri, Louis J. 2,918,931.
- Wilder, Justin E. 2,887,152.
- Penn Cork & Closures Inc.: *See*—  
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- Penn Induction Co.: *See*—  
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- Penn, Isidore: *See*—  
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- Penn Keystone Corp.: *See*—  
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- Penn-Union Electric Corp.: *See*—  
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- Pennell, John D.: *See*—  
Malley, Thomas J., Pennell, and Schindler. 2,911,374.
- Pennella, Samuel. Packing means for the tube joints in surface condensers. 2,904,315, 9-15-59, Cl. 257-43.
- Pennells, Norman E.: *See*—  
Campbell, Oliver, and Pennells. 2,898,892.
- Penney, Gaylord W. Electrostatic precipitator. 2,875,845, 3-3-59, Cl. 183-7.
- Penney, James H., and J. B. Wren, to Westinghouse Electric Corp. Motor clutch and brake mechanism. 2,878,911, 3-24-59, Cl. 192-18.
- Penning, Douglas E., to Struthers Wells Corp. Boiler. 2,904,015, 9-15-59, Cl. 122-149.
- Pennington, Edward N., to Phillips Petroleum Co. Purification of vinylpyridines. 2,879,272, 3-24-59, Cl. 260-290.
- Pennington, Edward N., L. W. Pollock, J. Q. Wood, A. J. Andrews, and L. D. Boyer, to Phillips Petroleum Co. Safety system for combustion process. 2,883,271, 4-21-59, Cl. 23-259.5.
- Pennington, Rohe V.: *See*—  
Durant, Leonard G., Irvine, Pennington, and Suring. 2,910,398.
- Pennington, William J.: *See*—  
Richmond, Francis M., Pennington, and Koffler. 2,909,426.
- Pennock, John C., to Tracerlab, Inc. Radiography source. 2,870,341, 1-20-59, Cl. 250-106.
- Pennow, Willis A., to United States of America, Navy. Gaseous electric discharge lamp. 2,900,552, 8-18-59, Cl. 313-220.
- Pennoyer, Robert T., to General Electric Co. Getter assembly. 2,913,102, 11-17-59, Cl. 206-56.
- Pennsalt Chemicals Corp.: *See*—  
Aeppli, Otto T. 2,904,597.  
Barr, John T., and Lawlor. 2,894,991.  
Bell, Thomas R., III. 2,904,475.  
Bell, Thomas R., III, and Lowdermilk. 2,874,769.  
Brown, Lewis J., and Spring. 2,918,390.  
Capron, Nicholas J. 2,878,242.  
Eaton, John L., and Hinds. 2,872,304.  
Elliott, Robert H., Jr. 2,882,135.  
Elliott, Robert H., Jr. 2,918,357.  
Gall, John F., and Inman. 2,918,434.  
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Kahler, Ernest J. 2,903,476.  
Karr, Errol H. 2,868,711.  
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Lawlor, Francis E., Braid, and Loev. 2,868,846.  
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Miller, Henry C., and Griger. 2,872,405.  
Millsaps, William A., and Staubly. 2,893,818.  
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Nevers, Ashley D., and Fettes. 2,869,994.  
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Slover, Archy F., and Harbour. 2,894,861.  
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- Pennstrom, Robert G.: *See*—  
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- Pennsylvania, The Commonwealth of: *See*—  
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- Pennsylvania Engineering Corp.: *See*—  
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- Pennsylvania Furnace and Iron Co.: *See*—  
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- Pennsylvania Industrial Chemical Corp.: *See*—  
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- Pennsylvania Railroad Co., The: *See*—  
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- Pennsylvania Transformer Co.: *See*—  
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- Pennzoil Co., The: *See*—  
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Cavanaugh, George S., and Barworth. 2,914,975.
- Penray Corp., The: *See*—  
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- Penrice, Thomas W., to Production Tool Alloy Co. Ltd. Production of shaped articles from powders using lyophilic gel molds. 2,893,062, 7-7-59, Cl. 18-59.5.
- Penrod, Kenneth E., and D. M. Clark, to United States of America, Air Force. Helmet seal. 2,888,011, 5-26-59, Cl. 128-143.
- Penrose, James R., to Pirelli-General Cable Works Ltd. Metal tubes or metal sheaths of electric cables. 2,870,792, 1-27-59, Cl. 138-50.
- Pensack, Joseph M.: *See*—  
Chornock, Francis W., and Pensack. 2,913,340.
- Pensack, Louis, to Radio Corp. of America. Photovoltaic device. 2,915,578, 12-1-59, Cl. 136-89.
- Pensak, Louis, to Radio Corp. of America. Storage tube. 2,918,600, 12-22-59, Cl. 315-8.6.
- Pensotti, Ambrogio. Apparatus for wet-treating threads, particularly viscose rayon threads. 2,892,336, 6-30-59, Cl. 68-19.
- Penta Inc.: *See*—  
Nordquist, Richard A., Miller, Bukosky, and Lindgren. 2,889,450.  
Nordquist, Richard A., Miller, Bukosky, and Lindgren. 2,898,685.
- Penta Laboratories, Inc.: *See*—  
Leonard, Radford P. 2,868,922.  
Norton, Robert L. 2,898,504.
- Pentecost, Paul S. Infant anesthetic machine. 2,891,542, 6-23-59, Cl. 128-188.
- Pentico, George W. A., and J. W. Rieke; said Pentico assor. to Western Electric Co., Inc.; and said Rieke assor. to Bell Telephone Laboratories, Inc. Pulse generator. 2,878,381, 3-17-59, Cl. 250-27.
- Pentz, Ruth M., to The Welsbach Corp. Ozone production of diphenic acid. 2,872,480, 2-3-59, Cl. 260-523.
- Peoples, Samuel R., to Boeing Airplane Co. Electrical control circuits. 2,912,634, 11-10-59, Cl. 321-5.
- Pepe, Louis. Apparatus for attaching soles to shoes. 2,874,393, 2-24-59, Cl. 12-36.
- Pepin, Phyllis M.: *See*—  
Thomson, George, Cook, and Pepin. 2,880,050.
- Peptone, Vincent, and W. Luczek, to Package Machinery Co. Mechanism for encircling an article in a wrapper. 2,911,777, 11-10-59, Cl. 53-228.
- Peplin, Stephen C.: *See*—  
Parker, Frank H. 2,911,009.
- Pepperberg, Louis E., to Motorola, Inc. Radio receiver. 2,873,361, 2-10-59, Cl. 250-20.
- Peppercorn, Howard J.: *See*—  
Neher, Eldon P., and Peppercorn. 2,903,228.
- Peppitt, Eric W.: *See*—  
Bray, Horace A., and Peppitt. 2,898,216.
- Peppler, Henry J.: *See*—  
Cooper, Elmer J., and Peppler. 2,904,439.
- Pera, John D.: *See*—  
Buckman, Stanley J., Pera, and Appling. 2,881,071.
- Pera, John D., to Buckman Laboratories, Inc. Processes for the control of slime-forming and other microorganisms and compositions for use therefor. 2,881,070, 4-7-59, Cl. 92-3.
- Pera, William. Photographic multimeter. 2,892,978, 6-30-59, Cl. 324-73.
- Péras, Lucien, to Regie Nationale des Usines Renault. Driving mechanism for auxiliary apparatuses. 2,867,080, 1-6-59, Cl. 60-13.
- Péras, Lucien, to Regie Nationale des Usines Renault. Methods of regulating power output in internal combustion engines. 2,867,198, 1-6-59, Cl. 123-139.
- Péras, Lucien, to Regie Nationale des Usines Renault, and R. Petignani. Safety seat for motor vehicles. 2,873,122, 2-10-59, Cl. 280-29.
- Péras, Lucien, to Regie Nationale des Usines Renault. Method of producing castings having high mechanical properties. 2,887,421, 5-19-59, Cl. 148-21.8.
- Péras, Lucien, to Regie Nationale des Usines Renault. Lubricated multiple stage damper. 2,888,106, 5-26-59, Cl. 188-88.
- Péras, Lucien, to Regie Nationale des Usines Renault. Torque-converter transmissions. 2,888,841, 6-2-59, Cl. 74-720.
- Péras, Lucien, to Regie Nationale des Usines Renault. Cold-hammering device. 2,888,846, 6-2-59, Cl. 78-13.
- Péras, Lucien, to Regie Nationale des Usines Renault. Packing ring. 2,889,183, 6-2-59, Cl. 309-33.
- Péras, Lucien, to Regie Nationale des Usines Renault. Transparent pillar construction for vehicle windows or doors. 2,892,658, 6-30-59, Cl. 296-44.5.
- Péras, Lucien, to Regie Nationale des Usines Renault. Heat-resistant alloys. 2,895,822, 7-21-59, Cl. 75-204.
- Péras, Lucien, to Regie Nationale des Usines Renault. Process for the manufacture of piston rings. 2,895,859, 7-21-59, Cl. 148-3.
- Péras, Lucien, to Regie Nationale des Usines Renault. Pressure chill-castings of iron. 2,895,860, 7-21-59, Cl. 148-3.
- Péras, Lucien, to Regie Nationale des Usines Renault. Cast iron heat treatment. 2,899,346, 8-11-59, Cl. 148-21.8.
- Péras, Lucien, to Regie Nationale des Usines Renault. Volumetric diaphragm pumps for gasoline injection. 2,900,916, 8-25-59, Cl. 103-38.
- Péras, Lucien, to Regie Nationale des Usines Renault. Method of coating a mould for use in a foundry. 2,903,375, 9-8-59, Cl. 117-5.3.
- Péras, Lucien, to Regie Nationale des Usines Renault. Differential pneumatic hoist. 2,906,248, 9-29-59, Cl. 121-46.
- Péras, Lucien, to Regie Nationale des Usines Renault. Shock absorber with valves in piston seal. 2,906,377, 9-29-59, Cl. 188-88.
- Péras, Lucien, to Regie Nationale des Usines Renault. Die-casting of iron in chill-moulds. 2,906,653, 9-29-59, Cl. 148-21.8.
- Péras, Lucien, to Regie Nationale des Usines Renault. Process for the manufacture of low tension sparking plugs. 2,906,907, 9-29-59, Cl. 313-131.
- Péras, Lucien, to Regie Nationale des Usines Renault. Mounting arrangement for vehicle sun shades. 2,908,517, 10-13-59, Cl. 287-20.3.



- Peras, Lucien, to Regie Nationale des Usines Renault. Process of producing sintered tungsten electrodes. 2,908,569, 10-13-59, Cl. 75-207.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic control device for gearboxes. 2,910,884, 11-3-59, Cl. 74-472.
- Peras, Lucien, to Regie Nationale des Usines Renault. Reversing device for vehicles with torque converter-transmission. 2,910,893, 11-3-59, Cl. 74-792.
- Peras, Lucien, to Regie Nationale des Usines Renault. Reciprocal suspension system with hydraulic transmission. 2,911,230, 11-3-59, Cl. 280-104.
- Peras, Lucien, to Regie Nationale des Usines Renault. Double-acting pneumatic jack. 2,911,952, 11-10-59, Cl. 121-38.
- Peras, Lucien, to Regie Nationale des Usines Renault. Safety braking apparatus for road tractors and towing lorries. 2,912,067, 11-10-59, Cl. 188-3.
- Peras, Lucien, to Regie Nationale des Usines Renault. Automatic handling device. 2,912,125, 11-10-59, Cl. 214-1.
- Peras, Lucien J., to Regie Nationale des Usines Renault. Vehicle seats. 2,903,044, 9-8-59, Cl. 155-9.
- Perrella, John: *See*—
- Angelaccio, Americo, Perrella, and Petrucci. 2,903,000.
- Percival, William C., to E. I. du Pont de Nemours and Co. Process for separating vinylidene fluoride from vinyl fluoride. 2,917,556, 12-15-59, Cl. 260-653.3.
- Percival, William S., to Electric & Musical Industries Ltd. Electron discharge valves. 2,900,567, 8-18-59, Cl. 315-39.
- Percy, Richard P.: *See*—
- Mitchell, William H., and Percy. 2,900,539.
- Percy, Sheldon C., to Rayplate Corp. Press member. 2,887,798, 5-26-59, Cl. 38-66.
- Perdew, Rodney: *See*—
- Phillips, John P., and Ebert. 2,911,519.
- Perdue, Frederick S. Sectional trailer house. 2,893,066, 7-7-59, Cl. 20-2.
- Perdue, Jack, to Electro-Hydraulics Ltd. Retractable aircraft landing gear. 2,896,884, 7-28-59, Cl. 244-102.
- Perdue, Richard R.: *See*—
- Dreyfus, Robert L., Howe, and Perdue. 2,904,943.
- Perech, Ramon. New method of producing water soluble coffee concentrate. 2,872,323, 2-3-59, Cl. 99-71.
- Pereira, Alfred R. Bulldozer blade tilting device. 2,869,256, 1-20-59, Cl. 37-144.
- Pérez, Alicia F. Multi-unit drive pulley. 2,887,891, 5-26-59, Cl. 74-230.3.
- Pérez, Guillermo: *See*—
- Dreher, Elmer H., and Pérez. 2,903,671.
- Pérez, Horacio E. Ignition brake lock. 2,869,581, 1-20-59, Cl. 137-598.
- Pérez, John B. Garbage can with bumper ring. 2,877,923, 3-17-59, Cl. 220-69.
- Pérez, John B. Industrial garbage can. 2,907,486, 10-6-59, Cl. 220-4.
- Pérez, Jose B. Cork extractor. 2,895,357, 7-21-59, Cl. 81-3.34.
- Pérez, Juan I.: *See*—
- Roura, Carmen S., and Pérez. 2,898,918.
- Pérez, William. Thermal heating device. 2,918,561, 12-22-59, Cl. 219-41.
- Perfect Circle Corp.: *See*—
- Brenneke, Arthur M. 2,871,071.
- Brenneke, Arthur M. 2,878,799.
- Brenneke, Arthur M. 2,893,797.
- Bunce, Dean S. 2,906,255.
- Foust, Eugene A. 2,895,489.
- Heid, Robert W., Jr. 2,893,801.
- Hill, Robert H. 2,881,866.
- Teetor, Ralph R. 2,916,100.
- Perfex Gage and Tool Co.: *See*—
- Oakley, Elmore. 2,914,859.
- Perfogit Società per Azioni: *See*—
- Wegener, Harry, Bruni, Notarbartolo, and Muench. 2,877,495.
- Pergande, Hermann, to E. Hofmann. Screwless electric connector. 2,906,989, 9-29-59, Cl. 339-105.
- Pergent, René C.: *See*—
- Heymes, Pierre R., and Pergent. 2,909,871.
- Perilhou, Jean R., to North American Philips Co., Inc. Device for the magnetic recording and/or reproduction of television signals. 2,907,819, 10-6-59, Cl. 178-6.6.
- Perilloux, Charles J.: *See*—
- Drushel, William H., McCall, and Perilloux. 2,874,548.
- Perlin, Gaston, to L. H. J. Van Bessel. Apparatus for hydro-cultivation. 2,896,374, 7-28-59, Cl. 47-12.
- Perini, Mario: *See*—
- Fusco, Raffaeallo, Losco, and Perini. 2,901,481.
- Perino, Dominic A., to Milprint, Inc. Meat merchandizing package. 2,912,336, 11-10-59, Cl. 99-174.
- Perkin-Elmer Corp., The: *See*—
- Atwood, John G. 2,888,623.
- Coates, Vincent J., and Scott. 2,900,866.
- Golay, Marcel J. E. 2,870,343.
- Hutchinson, Franklin B. 2,876,361.
- Kaye, Morton. 2,869,415.
- Kaye, Morton. 2,882,786.
- Norem, Stanley D. 2,904,384.
- Scott, Larkin B., and Losch. 2,903,893.
- Scott, Larkin B., and McCarthy. 2,887,935.
- Sebens, Carl R. 2,904,686.
- Sobgov, Harold, and Borden. 2,904,687.
- Perkins, Albert G., to Perkins Pipe Linings, Inc. Pipe lining apparatus. 2,897,779, 8-4-59, Cl. 118-306.
- Perkins, Alfred J., to Perkins Pipe Linings, Inc. Pipe lining apparatus. 2,892,444, 6-30-59, Cl. 118-306.
- Perkins, B. F., & Son, Inc.: *See*—
- Duprat, Athanase J. 2,869,411.
- Zimmerli, Kurt. 2,900,747.
- Perkins, Charles M.: *See*—
- Backus, Thomas, and Perkins. 2,892,358.
- Backus, Thomas, and Perkins. 2,916,118.
- Perkins, Denis G., to Electric & Musical Industries Ltd. Arrangements embodying pick-up tubes. 2,875,371, 2-24-59, Cl. 315-11.
- Perkins, Donald C.: *See*—
- Estes, Elliott M., and Perkins. 2,916,325.
- Perkins, Fred D., Jr., and R. M. Ingham, Jr., to Deering Milliken Research Corp. Continuous cutter. 2,890,751, 6-16-59, Cl. 164-60.
- Perkins, Frederick I., to Willcox & Gibbs Sewing Machine Co. Means for securing a band loop to an article. 2,885,979, 5-12-59, Cl. 112-2.
- Perkins, Frederick M., Jr.: *See*—
- Graham, John W., Perkins, Prokop, and Salathiel. 2,873,423.
- Perkins, Gerald E.: *See*—
- Klamp, Paul, and Perkins. 2,918,881.
- Perkins, Glen E., and G. W. Dale. Movable carriage for mobile vehicles. 2,869,931, 1-20-59, Cl. 305-4.
- Perkins, Gordon O., to I-T-E Circuit Breaker Co. Bus joint cover. 2,878,302, 3-17-59, Cl. 174-73.
- Perkins, Harley A., Jr.: *See*—
- Emery, Frederic P., and Perkins. 2,909,779.
- Perkins, Harley A., Jr., to Westinghouse Electric Corp. Magnetic amplifier system. 2,871,442, 1-27-59, Cl. 323-89.
- Perkins, Harley A., Jr., to Westinghouse Electric Corp. Memory elements for control systems. 2,888,577, 5-26-59, Cl. 307-88.
- Perkins, Joseph R., Jr.: *See*—
- Ely, Berten E., Jr., Grabill, and Perkins. 2,878,353.
- Perkins, Louis E., to Perkins Marine Lamp & Hardware Corp. Marine lamp. 2,908,807, 10-13-59, Cl. 240-7.5.
- Perkins, Loya B. Television antenna. 2,878,473, 3-17-59, Cl. 343-866.
- Perkins, Lyman D. Support for line trouble detecting means. 2,890,408, 6-9-59, Cl. 324-52.
- Perkins Marine Lamp & Hardware Corp.: *See*—
- Perkins, Louis E. 2,908,807.
- Perkins, Narisara E.: *See*—
- Vigna, Cesare L., Perkins, and Leygonie. 2,875,556.
- Perkins Pipe Linings, Inc.: *See*—
- Perkins, Albert G. 2,897,779.
- Perkins, Alfred J. 2,892,444.
- Perkins, Ralph W., to General Motors Corp. Independent wheel suspension with caster and camber adjustment means. 2,890,062, 6-9-59, Cl. 280-96.2.
- Perkins, Roger A., and W. O. Binder, to Union Carbide Corp. Resistance to hot-cracking of chromium-nickel steel welds. 2,871,118, 1-27-59, Cl. 75-130.5.
- Perkins, William A., S. W. Grinnell, and C. F. Schadt, to United States of America, Army. Collection of airborne material by electrostatic precipitation. 2,868,318, 1-13-59, Cl. 183-7.
- Perkins, William C., J. R. Sherwood, and H. P. Jacobson, to Collins Radio Co. Frequency generating system. 2,886,708, 5-12-59, Cl. 250-36.
- Perl, Richard L.: *See*—
- Lantz, Ray F., Scott, Perl, and Clark. 2,911,810.
- Perla, Martin R.: *See*—
- Gilman, Ernest I., and Perla. 2,903,669.
- Perla, Martin R., and S. J. Ketterer, to The Singer Mfg. Co. Feed mechanisms for sewing machines. 2,906,220, 9-29-59, Cl. 112-215.
- Perlaki, Nandor, 15% to I. Varsa. Stuffing-box assembly having a liquid seal. 2,883,214, 4-21-59, Cl. 286-19.
- Perle, Abe J., to Bendix Aviation Corp. Starter jaw release. 2,913,908, 11-24-59, Cl. 74-7.
- Perlin, Fred, to Elgen Mfg. Corp. Swivel mount and air guide device including the same. 2,884,848, 5-5-59, Cl. 98-110.
- Perlin, Fred, to Elgen Mfg. Corp. Air guide device. 2,884,956, 5-5-59, Cl. 138-39.
- Perlis, David B., to Western Precipitation Corp. Rolling wear band for filter element. 2,884,090, 4-28-59, Cl. 183-61.
- Perlman, David: *See*—
- Dutcher, James D., Donovick, Heuser, Pagano, and Perlman. 2,916,483.
- Dutcher, James D., Donovick, Heuser, Pagano, and Perlman. 2,916,484.
- Fried, Josef, Perlman, Langlykke, and Titus. 2,872,381.
- Fried, Josef, Thoma, Perlman, and Gerke. 2,879,277.
- Fried, Josef, Thoma, Perlman, and Gerke. 2,879,280.
- Perlman, David, to Olin Mathieson Chemical Corp. Preparation of new cobalamins. 2,872,443, 2-3-59, Cl. 260-211.5.
- Perlman, David, to Olin Mathieson Chemical Corp. New cobalamins. 2,872,444, 2-3-59, Cl. 260-211.5.
- Perlman, David, to Olin Mathieson Chemical Corp. Microbiological oxidation of pregnenolone to progesterone. 2,915,439, 12-1-59, Cl. 195-51.



- Perlman, David, to Olin Mathieson Chemical Corp. Preparation of 2-keto-L-gulonic acid by pseudomonas aeruginosa. 2,917,435, 12-15-59, Cl. 195-30.
- Perlman, Ely, to Mount Sinai Hospital Research Foundation, Inc. Ion-exchange purification of allergenic pollen component. 2,901,398, 8-25-59, Cl. 167-78.
- Perlman, Isadore: See—
- Seaborg, Glenn T., and Perlman. 2,873,169.
- Werner, Louis B., Perlman, and Calvin. 2,894,805.
- Perlman, Milton, to Auto-Flo Corp. Humidifiers. 2,897,815, 8-4-59, Cl. 126-113.
- Perlman, Morris L.: See—
- Weissman, Sam I., Perlman, and Lipkin. 2,908,563.
- Perlman, Morris L., D. Lipkin, and S. I. Weissman, to United States of America, Atomic Energy Commission. Method of preparing coated refractory ware. 2,895,849, 7-21-59, Cl. 117-62.
- Perlman, Robert R. Oscillators. 2,871,354, 1-27-59, Cl. 250-36.
- Perlman, Sol, to United States of America, Air Force. Control of power delivery to electrical apparatus. 2,874,339, 2-17-59, Cl. 317-148.5.
- Perlman, William: See—
- Matchett, John C. 2,913,261.
- Perlmutter, Joseph G., to Hayden Mfg. Co. Corner plate. 2,886,388, 5-12-59, Cl. 311-114.
- Perlmutter, Samuel. Drapery hook support. 2,872,696, 2-10-59, Cl. 16-87.4.
- Permac A.G.: See—
- Müller, Alois, and Gygli. 2,908,123.
- Permanent Glaze, Inc.: See—
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- Goldstein, Richard. 2,869,123.
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- Tye, Frank L. 2,881,124.
- Pernack, Frank, to National Broach & Machine Co. Helical broach. 2,898,670, 8-11-59, Cl. 29-95.1.
- Pernert, John C., to Hooker Electrochemical Co. Resins formed from bis-(hydroxymethyl)-phosphinic acid and a poly-carboxylic acid. 2,911,389, 11-3-59, Cl. 260-75.
- Pernot, Roger G., to AMIL Aliments Modernes Integraux Lactes X. Rudloff, R. Pernot, P. Berger & Cie. Sandwich spread and a process for its manufacture. 2,893,872, 7-7-59, Cl. 99-117.
- Pero, Johannes G., S. Wijnberg, and W. Honing, to North American Philips Co. Inc. Method of manufacturing a partly silvered tubular incandescent lamp. 2,901,658, 8-25-59, Cl. 313-279.
- Peroni, Carlo. Process for obtaining a velvet-like coating or covering material. 2,896,304, 7-28-59, Cl. 28-72.
- Perotte, Laurence F., to General Electric Co. Selenium cells. 2,903,631, 9-8-59, Cl. 317-241.
- Perotte, Laurence F., to General Electric Co. Selenium cells. 2,903,632, 9-8-59, Cl. 317-241.
- Perreault, George E.: See—
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- Perrelli, Joseph, to Filper Corp. Pitter for drupes. 2,880,774, 4-7-59, Cl. 146-28.
- Perrenod, Charles A., to Westinghouse Electric Corp. Masking apparatus and method. 2,916,396, 12-8-59, Cl. 117-38.
- Perret, Jean, to Motha Treuinstittut. Contactor device for a projectile with electric ignition. 2,887,056, 5-19-59, Cl. 102-70.2.
- Perri, Frank B.: See—
- Du Grenier, Francis C. 2,884,163.
- Perri, Frank B., to United Shoe Machinery Corp. Machines for forming heel reinforcing dowels. 2,880,777, 4-7-59, Cl. 153-1.
- Perrier, Robert, to Fairchild Engine and Airplane Corp. Engine fuel supply system for dirigible vehicle power plant. 2,915,030, 12-1-59, Cl. 114-16.
- Perrill, Harlan K. Double hung door mounting, latching and opening means. 2,904,823, 9-22-59, Cl. 16-147.
- Perrin, Carol H.: See—
- Barnett, Hugh W., and Perrin. 2,905,561.
- Perrin, George, to Pictorial Machinery Ltd. Photographic printing frames or copyholders. 2,897,740, 8-4-59, Cl. 95-73.
- Perrin, Patrice: See—
- Normant, Henri, and Perrin. 2,915,566.
- Perrine, Mahlon J.: See—
- Gossett, John M., Estep, and Perrine. 2,874,134.
- Perrine, Robert O.: See—
- Kuhn, Clarence W., Perrine, and Radley. 2,874,258.
- Perrine, Sterling O., to The Wean Engineering Co. Inc. Apparatus for trimming strip. 2,872,980, 2-10-59, Cl. 164-60.
- Perrine, Warren L., to Librascope, Inc. Mechanical integrating apparatus. 2,873,911, 2-17-59, Cl. 235-61.
- Perrini, Americo F., and J. L. Gretz, to The B. F. Goodrich Co. Air filter. 2,888,095, 5-26-59, Cl. 183-45.
- Perrinjaquet, Roger, to Necchi Sewing Machine Sales Corp. Drop-head machine. 2,874,014, 2-17-59, Cl. 312-30.
- Perrino, Frank A. Accelerator brake control. 2,881,879, 4-14-59, Cl. 192-3.
- Perrins, Allen R., to The Superior Electric Co. Transformer test circuit. 2,896,156, 7-21-59, Cl. 324-55.
- Perron, Roger: See—
- Paquot, Charles, and Perron. 2,882,293.
- Perron, Yvon G., to Bristol Laboratories Inc. Therapeutic agents. 2,870,145, 1-20-59, Cl. 260-247.2.
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- Perron, Yvon G., and J. Sam, to Bristol Laboratories Inc. N - pyridylethyl - 3,4,5 trimethoxybenzamide. 2,870,156, 1-20-59, Cl. 260-295.
- Perrone, Ruben O. Simultaneous control mechanism for shutter forming laths. 2,903,257, 9-8-59, Cl. 268-96.
- Perrot, Arnold. Apparatus for sealing a transparency slide. 2,870,815, 1-27-59, Cl. 153-1.
- Perrot, Arnold. Transparency slide. 2,916,840, 12-15-59, Cl. 40-152.
- Perrot, Jean J.: See—
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- Henquet, Andre J., and Perrot. 2,913,534.
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- Tebb, Bernard, and Perry. 2,895,454.
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- Perry, Edward G., to Texas Instruments Inc. Recorder. 2,888,310, 5-26-59, Cl. 346-114.
- Perry, Edward G., to Texas Instruments Inc. Methods of eliminating hysteresis effects in the magnetic clutch. 2,906,381, 9-29-59, Cl. 192-21.5.
- Perry, Edward G., Jr., and R. W. Olson, to Texas Instruments Inc. Electrical recorder movements. 2,917,707, 12-15-59, Cl. 324-76.
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- Conbere, John P., and Perry. 2,878,144.
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- Melnick, Daniel, Perry, and Akerboom. 2,910,368.
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- Perry, James A. Deep well pump. 2,897,768, 8-4-59, Cl. 103-179.
- Perry, J. H. Tape dispenser. 2,868,402, 1-13-59, Cl. 216-29.
- Perry, John A., F. B. and D. D. Automatic reversing mechanism for tractor-attached agricultural implements. 2,895,558, 7-21-59, Cl. 172-210.
- Perry, John C., Jr., to Beckman Instruments, Inc. Resistance elements and method of making same. 2,909,753, 10-20-59, Cl. 338-298.
- Perry, Keith R. C.: See—
- De Bruyne, Norman A., Newell, and Perry. 2,872,365.
- Perry, Leslie L.: See—
- Spitzer, Peni. F., Jr., and Perry. 2,883,258.
- Perry, Mark J., and S. H. Capps. Fifth wheel slide mount. 2,868,560, 1-13-59, Cl. 280-407.
- Perry, Milton A., and R. E. Debusk, to Eastman Kodak Co. Preparation of aldehydes from diols by a dehydration rearrangement reaction. 2,870,214, 1-20-59, Cl. 260-603.
- Perry, Milton A., and A. G. Robinson III, to Eastman Kodak Co. Preparation of acrylic and substituted acrylic acid esters from saturated acid esters. 2,882,300, 4-14-59, Cl. 260-486.
- Perry, Murl. Irrigator assembly. 2,902,036, 9-1-59, Cl. 128-283.



- Perry, Newell A.: *See*—  
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- Perry, Robert B. Dispensing closure for containers. 2,895,631, 7-21-59, Cl. 215-75.
- Perry, Robert O., to Sinclair Oil & Gas Co. Treatment of wells. 2,885,004, 5-5-59, Cl. 166-42.
- Perry, Robert P., to Hupp Corp. Automatic defrost control. 2,867,092, 1-6-59, Cl. 62-140.
- Perry, Stanley. Painting machine. 2,900,952, 8-25-59, Cl. 118-207.
- Perry, Sydney W. H., to Power Jets (Research and Development) Ltd. Blade mounting for compressors, turbines and like fluid flow machines. 2,873,947, 2-17-59, Cl. 253-77.
- Perry, Vernon L. Motorized surfboard control. 2,891,259, 6-23-59, Cl. 9-1.
- Perry, Willard P. Fluid jet sustained and controlled aircraft. 2,887,284, 5-19-59, Cl. 244-23.
- Perry, William H., and L. J. Olivier, to Cambridge Paper Box Co. Prewrapped box. 2,904,238, 9-15-59, Cl. 229-40.
- Perryman, George H. Apparatus and method of drying paper. 2,896,058, 7-21-59, Cl. 219-20.
- Perryn, Jennie E. Separable fastener closer. 2,898,141, 8-4-59, Cl. 294-1.
- Persak, George, Jr., to The Oiljak Mfg. Co., Inc. Electric heater. 2,892,065, 6-23-59, Cl. 219-34.
- Persak, George, Jr., to The Oiljak Mfg. Co., Inc. Spark plug tester. 2,892,149, 6-23-59, Cl. 324-15.
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- Persak, George, Jr., to The Oiljak Mfg. Co., Inc. Machine for printing and vending insurance forms. 2,915,965, 12-8-59, Cl. 101-90.
- Persch, Walther, and R. Beyerle, to Cassella Farbwerke Mainkur Akt. Diuretic xanthine derivatives containing mercury. 2,883,380, 4-21-59, Cl. 260-242.
- Persgard, Arthur. Vehicle impeding device. 2,912,229, 11-10-59, Cl. 256-1.
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- Persinger, Laverne O.: *See*—  
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- Persinger, William G. Barbecue grid. 2,908,214, 10-13-59, Cl. 99-445.
- Persky, Robert O. Display boxes for wrist watches, bracelets, and the like articles. 2,880,858, 4-7-59, Cl. 206-45.13.
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- Person, Frank R., to United States Steel Corp. Assembly for connecting parallel rope sections. 2,869,906, 1-20-59, Cl. 287-78.
- Person, Frank R., to United States Steel Corp. Two-part adapter. 2,903,768, 9-15-59, Cl. 24-123.
- Person, Frank W., to International Harvester Co. Heat exchanger. 2,877,000, 3-10-59, Cl. 257-245.
- Person, Herman R., to Dale Products Inc. Lightning arrester. 2,916,667, 12-8-59, Cl. 315-59.
- Person, Julius E. Ball cock valve with floating, inverted cup, sealing member. 2,869,572, 1-20-59, Cl. 137-218.
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- Persons, Robert C., and M. J. Walsh, to Persons-Majestic Mfg. Co. Article carrier for bicycles. 2,880,919, 4-7-59, Cl. 224-38.
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- Persson, Henry, to American Machine & Foundry Co. Corner cutter. 2,908,203, 10-13-59, Cl. 90-43.
- Persson, Karl R., to Aktiebolaget Åhlén & Åkerlund Forpackning. Partitioned packs. 2,880,921, 4-7-59, Cl. 229-28.
- Persson, Ponte S. O. W. Stranne, and J. H. L. Oresten. Trawls. 2,914,378, 12-1-59, Cl. 43-9.
- Persyn, David C., and C. E. Holderbaum. Stone chipper. 2,879,007, 3-24-59, Cl. 241-230.
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- Perzentka, Thomas R., to A. B. Dick Co. Sheet separating mechanism for duplicators. 2,893,729, 7-7-59, Cl. 271-21.
- Perzley, William, to Kaiser Metal Products, Inc. Precise digital delay generator. 2,904,752, 9-15-59, Cl. 324-68.
- Pescara, Domingos. Anti-theft device for motor vehicles. 2,887,463, 5-19-59, Cl. 200-42.
- Pesel, Henry F., to General Motors Corp. Resilient accessory mount. 2,891,746, 6-23-59, Cl. 248-15.
- Peselnick, Herman. Multipanel windows. 2,870,831, 1-27-59, Cl. 160-120.
- Pesko, Constance: *See*—  
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- Petcar Research Corp.: *See*—  
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- Peter, Charles R., to Allis-Chalmers Mfg. Co. Reverse current relay. 2,887,626, 5-19-59, Cl. 317-188.
- Peter, Charles R., to Allis-Chalmers Mfg. Co. Multiple break electric switch. 2,890,309, 6-9-59, Cl. 200-104.
- Peter, Conrad W., 35% to H. Gruenberg, and 15% to C. Rosen, II. Thread protector. 2,880,761, 4-7-59, Cl. 138-96.
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- Peter, Rolf W., to Radio Corp. of America. Electron gun. 2,909,704, 10-20-59, Cl. 315-15.
- Petering, Wilbur H., and J. R. Burger, to Detrex Chemical Industries, Inc. Purification of acetylenetetrachloride. 2,907,797, 10-6-59, Cl. 260-652.
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- Peters, Arthur C., to United-Carr Fastener Corp. Assembly apparatus. 2,906,334, 9-29-59, Cl. 164-88.
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- Peters, Beldon A., to Jersey Production Research Co. Apparatus for insulating high voltage leads through ends of connected components. 2,898,414, 8-4-59, Cl. 200-51.14.
- Peters, Chester, and F. B. Seybold. Partition assembly machine. 2,894,433, 7-14-59, Cl. 93-38.
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- Peters, Clayton, to The Dow Chemical Co. Fumigant composition and method. 2,913,371, 11-17-59, Cl. 167-39.
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- Peters, Edwin F., and B. L. Evering, to Standard Oil Co. Catalytic process. 2,880,201, 3-31-59, Cl. 260-94.9.
- Peters, Edwin F., and B. L. Evering, to Standard Oil Co. Hydrocarbon conversion. 2,892,826, 6-30-59, Cl. 260-93.7.
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- Peters, Guilford B., to Stapling Machines Co. Wirebound container. 2,893,587, 7-7-59, Cl. 217-43.
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- Peters, Herbert W., to Cory Corp. Automatically regulated liquid heater. 2,868,178, 1-13-59, Cl. 122-32.
- Peters, Herbert W. Hospital serving tray. 2,891,695, 6-23-59, Cl. 220-97.
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- Peters, Melville F. Control of torque and fluid flow in sealed drives. 2,870,617, 1-27-59, Cl. 64-32.
- Peters, Melville F. Fluid pressure systems. 2,871,870, 2-3-59, Cl. 137-207.
- Peters, Melville F. Motion transmission in sealed fluid systems. 2,875,621, 3-3-59, Cl. 74-18.2.
- Peters, Melville F. Method of and means for forming bellows. 2,912,951, 11-17-59, Cl. 113-116.
- Peters, Melville F. Energy transfer system. 2,916,052, 12-8-59, Cl. 138-30.
- Peters, Melville F. Vibration damper for fluid pressure seal. 2,916,307, 12-8-59, Cl. 285-9.
- Peters, Melville F. Fluid amplifiers. 2,919,102, 12-29-59, Cl. 251-61.
- Peters, Otto H. Cart for carrying golf equipment. 2,918,297, 12-22-59, Cl. 280-42.
- Peters, Philip H., Jr., and D. A. Wilbur, to General Electric Co. Balun-ridge circuit. 2,886,786, 5-12-59, Cl. 333-26.
- Peters, Raymond O., to United States Steel Corp. Lock for swiveled lifting hook. 2,890,905, 6-16-59, Cl. 294-78.
- Peters, Roger W., and N. F. Dow, to United States of America, Navy. Two component bearing. 2,903,307, 9-8-59, Cl. 308-177.
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- Peters, Theodore J., and A. Gathman, to Esso Research and Engineering Co. Removal of sulfur contaminants from hydrocarbon streams. 2,918,499, 12-22-59, Cl. 260-639.
- Peters, Walter V. Means for facilitating transposition of musical chords. 2,896,493, 7-28-59, Cl. 84-473.
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- Petersen, Gerald A. M. Drive lug for pilot bit and earth boring augers. 2,870,995, 1-27-59, Cl. 255-61.
- Petersen, Gerald A. M. Hard tip pilot bit. 2,877,985, 3-17-59, Cl. 255-61.
- Petersen, Gerald A. M. Conversion head. 2,877,987, 3-17-59, Cl. 255-69.
- Petersen, Gerald A. M. Screw anchor adapter. 2,883,223, 4-21-59, Cl. 287-108.
- Petersen, Gerald A. M. Heavy duty cutting head for earth boring tools. 2,886,292, 5-12-59, Cl. 255-61.
- Petersen, Gerald A. M. Transverse ellipse tapered shank and tooth for earth working implements. 2,915,290, 12-1-59, Cl. 255-70.
- Petersen, Hans. Means for starting internal combustion engines of the opposed piston type. 2,867,374, 1-6-59, Cl. 230-56.
- Petersen, Hans. Internal combustion engine-air compressor. 2,867,375, 1-6-59, Cl. 230-56.
- Petersen, John E.: *See—*
- Jones, Herbert S., Frisendaux, Petersen, and Shufin. 2,908,063.
- Petersen, John S., and R. H. Blecker, to Simmons Co. Head rest for reclining chair. 2,869,619, 1-20-59, Cl. 155-107.
- Petersen, John S., and R. H. Blecker, to Simmons Co. Adjustable head rest. 2,869,622, 1-20-59, Cl. 155-177.
- Petersen, Karl, J. Schlichtkrull, and K. Hallas-Möller, to Novo Therapeutisk Laboratorium A/S. Insulin crystal preparations and methods of producing them. 2,882,202, 4-14-59, Cl. 167-75.
- Petersen, Karl, J. Schlichtkrull, and K. Hallas-Möller, to Novo Therapeutisk Laboratorium A/S. Injectable insulin preparation with protracted effect. 2,882,203, 4-14-59, Cl. 167-75.
- Petersen, Loren N.: *See—*
- Sims, Everett E., Konyha, and Petersen. 2,900,970.
- Petersen, Louis, to F. L. Smidth & Co. Method and apparatus for cooling hot materials by gas. 2,905,395, 9-22-59, Cl. 241-23.
- Petersen, Louis, to F. L. Smidth & Co. Apparatus for cooling hot kiln gases. 2,911,061, 11-3-59, Cl. 183-13.
- Petersen, Louis, to F. L. Smidth & Co. Apparatus for cooling finely divided materials. 2,913,237, 11-17-59, Cl. 263-32.
- Petersen, Mauritz E. Satellite globe. 2,896,338, 7-28-59, Cl. 35-46.
- Petersen, Ove E., to Motorola, Inc. Burst control of color television receiver bandwidth. 2,910,528, 10-27-59, Cl. 178-5.4.
- Petersen, Ove E., to Motorola, Inc. Color television receiver with power law chroma amplifier. 2,914,605, 11-24-59, Cl. 178-5.4.
- Petersen, Paul S., to General Mills, Inc. Machine for mounting electrical component containers on circuit boards. 2,879,585, 3-31-59, Cl. 29-203.
- Petersen, Paul S., to General Mills, Inc. Component attaching machine. 2,902,689, 9-8-59, Cl. 1-2.
- Petersen, Paul S., to General Mills, Inc. Machine for attaching electrolytic condensers. 2,914,843, 12-1-59, Cl. 29-203.
- Petersen, Siegfried: *See—*
- Gauss, Walter, Petersen, and Domagk. 2,868,782.
- Wagner, Annemarie, and Petersen. 2,879,174.
- Petersen, Siegfried, W. Gauss, and G. Domagk, to Schenley Industries, Inc. N-carboxylates of amino 1,4-quinones. 2,913,453, 11-17-59, Cl. 260-239.
- Petersen, Siegfried, E. Tietze, and W. Wirth, to Schenley Industries, Inc. Certain cycloalkanotriazoles, process and intermediates. 2,913,454, 11-17-59, Cl. 260-239.
- Petersen, Thorvald K., and P. L. Smith, to Douglas Aircraft Co., Inc. Air cushion cargo handling system. 2,918,183, 12-22-59, Cl. 214-1.
- Petersen, Ulric K. Ventilator. 2,868,108, 1-13-59, Cl. 98-115.
- Peterson, A. E., Mfg. Co.: *See—*
- Peterson, Arnold E. 2,880,011.
- Peterson, Adolphe C. Dual system propulsion means. 2,867,978, 1-13-59, Cl. 60-35.6.
- Peterson, Adolphe C. Auxiliary rotor air foil means. 2,868,302, 1-13-59, Cl. 170-135.4.
- Peterson, Adolphe C. Rotary airfoil and static wing aircraft. 2,886,260, 5-12-59, Cl. 244-7.
- Peterson, Adolphe C. Automotive air spring means. 2,894,742, 7-14-59, Cl. 267-65.
- Peterson, Adolphe C. Fluid brake means for vehicles. 2,910,146, 10-27-59, Cl. 188-92.
- Peterson, Albert, to The Columbia Mills, Inc. Frameless window closure construction. 2,898,989, 8-11-59, Cl. 160-329.
- Peterson, Albin K. Oscillatable separator means. 2,874,841, 2-24-59, Cl. 209-329.
- Peterson, Albin K. and L. J. Laterally foldable sponge type mop device. 2,892,201, 6-30-59, Cl. 15-119.
- Peterson, Anders A.: *See—*
- Parsons, Hubert J., and Peterson. 2,895,740.
- Peterson, Arnold E., to A. E. Peterson Mfg. Co. Toggle member. 2,880,011, 3-31-59, Cl. 280-36.
- Peterson, Benjamin R., Jr.: *See—*
- Cummings, Thomas N., Peterson, and Shiu. 2,909,877.
- Shiu, Thomas B. 2,909,878.
- Peterson, C. Lynn: *See—*
- Peterson, Clarence J. and C. L., and Mattison. 2,899,066.
- Peterson, C. Lynn, and B. L. Derringe, to Peterson Filters & Engineering Co. Filter assembly. 2,885,083, 5-5-59, Cl. 210-396.
- Peterson, Carl O., to Marlin-Rockwell Corp. Bearing seals. 2,917,328, 12-15-59, Cl. 286-5.
- Peterson, Charles D., to Universal Controls Corp. Method of making insulated coupling nuts for pipe unions. 2,904,800, 9-22-59, Cl. 10-86.
- Peterson, Charles L., to Western Electric Co., Inc. Heat treating furnace for filamentary products. 2,890,874, 6-16-59, Cl. 263-3.
- Peterson, Charles S., Jr., to Daystrom, Inc. Case for electrical instruments. 2,902,652, 9-1-59, Cl. 324-156.
- Peterson, Clarence J. and C. L., and R. J. Mattison, Jr., to Peterson Filters and Engineering Co. Rotary vacuum filter. 2,899,066, 8-11-59, Cl. 210-383.
- Peterson, Clarence N., deceased; by M. N. and D. N. Peterson, administrators. Hog oiler. 2,900,957, 8-25-59, Cl. 119-159.
- Peterson, Clyde E. Combination grill guard and hitch. 2,880,016, 3-31-59, Cl. 280-491.
- Peterson, Cornelius: *See—*
- Koenig, Emil L. 2,875,325.
- Peterson, David: *See—*
- Wilhelm, Harley A., Peterson, and Russi. 2,872,310.



- Peterson, David G.: *See*—  
Woolard, Thomas L., and Peterson. 2,874,941.
- Peterson, Dolan N.: *See*—  
Peterson, Clarence N. 2,900,957.
- Peterson, Donald L.: *See*—  
Wall, Robert R., and Peterson. 2,904,168.
- Peterson, Donovan F., and A. C. Welch, to George Gorton Machine Co. Infinitely adjustable speed power drive units. 2,909,684, 10-20-59, Cl. 310-96.
- Peterson, Durey H.: *See*—  
Murray, Herbert C., and Peterson. 2,888,384.
- Peterson, Earl C. Duct structure for pipes. 2,906,294, 9-29-59, Cl. 133-48.
- Peterson, Edward C., to Birdsboro Steel Foundry and Machine Co. Cooling bed. 2,907,236, 10-6-59, Cl. 80-42.
- Peterson, Edward G., to Bristol Industrial Equipment Co. Apparatus for coating sheets with lubricant for draw dies. 2,884,898, 5-5-59, Cl. 118-324.
- Peterson, Edward L., Jr., to International Business Machines Corp. Electric circuits including transistors. 2,878,398, 3-17-59, Cl. 307-88.5.
- Peterson, Edward S., to General Telephone Laboratories, Inc. Universal loudspeaking telephone system. 2,870,256, 1-20-59, Cl. 179-1.
- Peterson, Edward S., to General Telephone Laboratories, Inc. Time announcing system. 2,905,769, 9-22-59, Cl. 179-100.2.
- Peterson, Edward S., to General Telephone Laboratories, Inc. Toll ticketing telephone systems. 2,908,758, 10-13-59, Cl. 179-7.1.
- Peterson, Edward S., to General Telephone Laboratories, Inc. Automatic toll ticketing telephone systems. 2,908,759, 10-13-59, Cl. 179-7.1.
- Peterson, Edward T., to Birdsboro Steel Foundry and Machine Co. Rolling mill transfer. 2,878,918, 3-24-59, Cl. 198-20.
- Peterson, Edward T., to Birdsboro Steel Foundry and Machine Co. Roller mill trough. 2,886,993, 5-19-59, Cl. 80-51.
- Peterson, Edwin F. Blind end core box blow tube. 2,899,724, 8-18-59, Cl. 22-10.
- Peterson, Edwin F. Spray head core box blow tube. 2,911,691, 11-10-59, Cl. 22-10.
- Peterson, Edwin F. Vibrator. 2,917,290, 12-15-59, Cl. 259-1.
- Peterson, Ellen J. Band for holding bank notes and similar papers. 2,892,228, 6-30-59, Cl. 24-17.
- Peterson, Elmer J.: *See*—  
Stout, Glenn M., and Peterson. 2,887,592.
- Peterson, Eric O.: *See*—  
Fink, Lyman R., and Peterson. 2,884,626.
- Peterson, Eric O., and B. A. Harvey, to General Electric Co. Lead straightening machine. 2,878,841, 3-24-59, Cl. 140-147.
- Peterson, Evald O.: *See*—  
Prah, Fred A., Jr., and Peterson. 2,914,782.
- Peterson, Evald O., and J. F. Smith, to Compo Shoe Machinery Corp. Screw inserting machines. 2,888,049, 5-26-59, Cl. 144-32.
- Peterson, Everett A. and H. W. Heat sealing electrode die. 2,895,035, 7-14-59, Cl. 219-10.55.
- Peterson Filters & Engineering Co.: *See*—  
Peterson, C. Lynn, and Derringe. 2,885,083.
- Peterson, Clarence J. and C. L., and Mattison. 2,899,066.
- Peterson, George, Jr., to Penn Keystone Corp. Instrument panel illuminator. 2,897,344, 7-28-59, Cl. 240-8.16.
- Peterson, Gerald D. Device for adjusting window to out-of-square frame with insulating strip. 2,889,587, 6-9-59, Cl. 20-52.
- Peterson, Gerald D. Device for adjusting window to out-of-square frame. 2,889,589, 6-9-59, Cl. 20-52.
- Peterson, Glen. Apparatus for connecting circuit elements. 2,872,657, 2-3-59, Cl. 339-193.
- Peterson, Glen, to Phillips Petroleum Co. Method of and apparatus for seismic prospecting. 2,874,356, 2-17-59, Cl. 333-6.
- Peterson, Gordon R.: *See*—  
Peterson, Russell M., Spencer, Peterson, and McLouth. 2,880,682.
- Peterson, Harold E. Surface abrading apparatus. 2,915,766, 12-8-59, Cl. 15-21.
- Peterson, Harold W.: *See*—  
Peterson, Everett A. and H. W. 2,895,035.
- Peterson, Hartin F., to Pullman-Standard Car Mfg. Co. Duct and lighting arrangement for vehicles. 2,902,917, 9-8-59, Cl. 98-10.
- Peterson, James A. Game carrier. 2,904,236, 9-15-59, Cl. 224-7.
- Peterson, James H., to United States of America, Atomic Energy Commission. Dissolution of aluminum jackets from uranium cores by nitric acid containing mercuric nitrate. 2,901,343, 8-25-59, Cl. 75-97.
- Peterson, Janet B.: *See*—  
Spivack, John D., Peterson, and Kroll. 2,908,648.
- Peterson, Joel D., to Bendix Aviation Corp. Control systems and apparatus for the power units of aircraft. 2,875,575, 3-3-59, Cl. 60-13.
- Peterson, John A., and G. H. Gloss, to International Minerals & Chemical Corp. Lithium values recovery process. 2,893,828, 7-7-59, Cl. 23-27.
- Peterson, John J.: *See*—  
Dann, Morris, and Peterson. 2,870,766.
- Peterson, John J., and Peterson. 2,871,858.
- Peterson, John W., to Gilbert Mfg. Co., Inc. Directly attachable electric light bulb. 2,884,555, 4-28-59, Cl. 313-318.
- Peterson, John W., and H. C. Jennings, Jr., to Everest & Jennings, Inc. Adjustable telescopic connection. 2,871,044, 1-27-59, Cl. 287-58.
- Peterson, Joseph A., and C. E. Olsen. Friction vise. 2,886,996, 5-19-59, Cl. 81-19.
- Peterson, Joseph A., and C. E. Olsen. Pipe vise having chain tightenable by torque exerted on a workpiece. 2,903,930, 9-15-59, Cl. 81-19.
- Peterson, Joseph A., and C. E. Olsen. Friction wrench. 2,905,035, 9-22-59, Cl. 81-67.
- Peterson, Joseph M., and A. C. Service. Point of operation saw guard. 2,876,810, 3-10-59, Cl. 143-159.
- Peterson, Kenneth C.: *See*—  
Coopersmith, John M., Peterson, and Sutton. 2,918,508.
- Corcoran, James T., and Peterson. 2,875,237.
- Peterson, Kenneth C., and J. T. Corcoran, to Standard Oil Co. Production of purified dimethyl terephthalate. 2,905,708, 9-22-59, Cl. 260-475.
- Peterson, Leonard F. Device for applying roofing cement. 2,913,753, 11-24-59, Cl. 15-236.
- Peterson, Lottie J.: *See*—  
Peterson, Albin K. and L. J. 2,892,201.
- Peterson, Lowell E.: *See*—  
Reyerson, Lloyd H., and Peterson. 2,876,524.
- Peterson, Lowell E., to General Mills, Inc. Epoxy resins including an imidazole curing agent. 2,878,234, 3-17-59, Cl. 260-47.
- Peterson Mfg. Co., Inc.: *See*—  
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- Peterson, Marlan N.: *See*—  
Peterson, Clarence N. 2,900,957.
- Peterson, Merlin D.: *See*—  
Overholt, Donald C., and Peterson. 2,877,131.
- Peterson, Merlin H., to Abbott Laboratories. Production of penicillin in presence of a polythionate. 2,871,164, 1-27-59, Cl. 195-36.
- Peterson, Merton W., to Massey-Ferguson, Inc. Implement adjusting mechanism. 2,886,114, 5-12-59, Cl. 172-273.
- Peterson, Norman L., to Cutler-Hammer, Inc. Control system for three phase bridge rectifier circuits. 2,899,607, 8-11-59, Cl. 315-195.
- Peterson, Norman L., to Cutler-Hammer, Inc. Apparatus for control of electric systems. 2,919,393, 12-29-59, Cl. 318-308.
- Peterson, Norman R., and I. J. Cummings, to The Dow Chemical Co. Latex-based intumescent coatings compositions containing solid plasticizers. 2,917,476, 12-15-59, Cl. 260-17.4.
- Peterson, Otto W. Collar-clamping bow-tie mounting. 2,908,957, 10-20-59, Cl. 24-81.
- Peterson, Philip A.: *See*—  
Munton, John P., and Peterson. 2,918,899.
- Peterson, Raymond A., to United Geophysical Corp. Wave transmission system. 2,916,724, 12-8-59, Cl. 340-15.
- Peterson, Raymond C., to National Lock Co. Hinge. 2,867,840, 1-13-59, Cl. 16-168.
- Peterson, Reuben. Portable protecting cover for grain in open field storage. 2,874,651, 2-24-59, Cl. 108-3.
- Peterson, Richard H. Keying means for the selective control of a tone. 2,906,157, 9-29-59, Cl. 84-1.19.
- Peterson, Richard H. Electronic organ. 2,906,959, 9-29-59, Cl. 331-48.
- Peterson, Robert J. Bagged-seed treating device. 2,914,820, 12-1-59, Cl. 21-109.
- Peterson, Robert L., to General Controls Co. Electrostatic magnetic amplifier for combustion control and other purposes. 2,884,588, 4-28-59, Cl. 323-89.
- Peterson, Robert L., to General Controls Co. System for deriving average intensity of flame and comparing instantaneous intensity therewith incorporating automatic gain control. 2,900,524, 8-18-59, Cl. 250-214.
- Peterson, Rodney E.: *See*—  
Beuther, Harold H., and Peterson. 2,917,448.
- Peterson, Roscoe F. Apparatus for forming slip-seals on opposite ends of bell-ended sewer tile. 2,892,235, 6-30-59, Cl. 25-39.
- Peterson, Ruben O., to The Osborn Mfg. Co. Surface treating rod, wire, and the like. 2,876,146, 3-3-59, Cl. 134-9.
- Peterson, Ruben O., to The Osborn Mfg. Co. Brush seal and the like. 2,878,048, 3-17-59, Cl. 288-2.
- Peterson, Ruben O., to The Osborn Mfg. Co. Brushing tool and method of manufacture. 2,879,631, 3-31-59, Cl. 51-185.
- Peterson, Ruben O., to The Osborn Mfg. Co. Wire stem brush. 2,895,155, 7-21-59, Cl. 15-192.
- Peterson, Ruben O., to The Osborn Mfg. Co. Electrically conductive brush. 2,905,924, 9-22-59, Cl. 339-273.
- Peterson, Ruben O., to The Osborn Mfg. Co. Conditioning metal sheets, strip, rod and the like. 2,907,151, 10-6-59, Cl. 51-281.
- Peterson, Ruben O., to The Osborn Mfg. Co. Rotary tool assembly. 2,908,116, 10-13-59, Cl. 51-193.
- Peterson, Ruben O., to The Osborn Mfg. Co. Hand brush. 2,908,927, 10-20-59, Cl. 15-177.



- Peterson, Ruben O., and B. E. Nelson, to The Osborn Manufacturing Co. Rotary brush. 2,866,989, 1-6-59, Cl. 15-198.
- Peterson, Russell M., P. W. Spencer, G. R. Peterson, and B. F. McLouth, to Burn-Zol Co. Incinerator. 2,880,682, 4-7-59, Cl. 110-18.
- Peterson, Russell W.: See—  
Foster, Samuel P., and Peterson. 2,875,171.
- Peterson, Stanley W.: See—  
Jensen, Arnold E., and Peterson. 2,883,165.
- Peterson, Thomas D., and A. B. Shesser, to Burroughs Corp. Indicator tube. 2,891,185, 6-16-59, Cl. 313-109.5.
- Peterson, Thomas F. Electric cable with pressure compensating means. 2,908,741, 10-13-59, Cl. 174-13.
- Peterson, Victor N. Fish line leader, hook, swivel and shot holder. 2,879,619, 3-31-59, Cl. 43-57.5.
- Peterson, Victor W.: See—  
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McDowall, Charles J., and Peterson. 2,893,525.
- Peterson, Wilbur L., to Royal McBee Corp. Manual and/or electric typewriters. 2,891,649, 6-23-59, Cl. 197-14.
- Peterson, Willard D., to American Potash & Chemical Corp. Preparation of borohydrides. 2,898,184, 8-4-59, Cl. 23-14.
- Peterson, Willard D., and M. Hein, to American Potash & Chemical Corp. Manufacture of esters of thiophosphoric acid. 2,880,226, 3-31-59, Cl. 260-461.
- Peterson, William B., Jr., to Angelus Sanitary Can Machine Co. Rotary container feed. 2,877,729, 3-17-59, Cl. 133-14.
- Peterson, William B., Jr., to Angelus Sanitary Can Machine Co. Seaming head for non-circular cans. 2,907,293, 10-6-59, Cl. 113-24.
- Peterson, William F., and W. M. Venner, to Sterling Aluminum Products, Inc. Trunk piston. 2,874,009, 2-17-59, Cl. 309-11.
- Peterson, William F., W. M. Venner, and P. L. Bowser, Jr., to Sterling Aluminum Products, Inc. Trunk piston. 2,874,010, 2-17-59, Cl. 309-13.
- Peterson, William F., and W. M. Venner, to Sterling Aluminum Products, Inc. Trunk piston. 2,874,011, 2-17-59, Cl. 309-13.
- Peterson, William F., H. A. Jubel, and J. W. Rich, to Sterling Aluminum Products, Inc. Piston molding machine. 2,886,867, 5-19-59, Cl. 22-58.
- Peterson, William H., to Pullman-Standard Car Mfg. Co. Railway car wall construction. 2,885,972, 5-12-59, Cl. 105-409.
- Peterson, William P. Milling machine arbor. 2,912,904, 11-17-59, Cl. 90-11.
- Peterson, William W., to Anderson-Bolling Mfg. Co. Fire extinguisher. 2,918,976, 12-29-59, Cl. 169-31.
- Peterson, Henry F., and E. I. Fisher, to Bostitch, Inc. Fastener applying implement. 2,888,679, 6-2-59, Cl. 1-44.4.
- Peth, Robert, to Motorola, Inc. Communication system. 2,918,571, 12-22-59, Cl. 250-6.
- Petherick, Edward J., and G. C. Rowley, to International Business Machines Corp. Parallel decimal accumulator. 2,886,242, 5-12-59, Cl. 235-173.
- Petherick, Edward J., and G. C. Rowley, to International Business Machines Corp. Digital multiplying arrangements for an electronic computer. 2,913,177, 11-17-59, Cl. 235-160.
- Petherick, Edward J., and G. C. Rowley, to International Business Machines Corp. Coded decimal multiplying arrangement for a digital computer. 2,913,178, 11-17-59, Cl. 235-160.
- Pethick, Albert E.: See—  
Lewin, Leonard, and Pethick. 2,882,500.
- Pethybridge, Charles A., to The New Britain Machine Co. Contour-following heat-treating means. 2,894,738, 7-14-59, Cl. 266-23.
- Petitcolas, Pierre, A. P. Richard, R. F. M. Sureau, R. P. V. Roe, and J. E. Develotte, to Compagnie Francaise des Matieres Colorantes. Diazoamino coloring compositions adapted for neutral steam development. 2,893,817, 7-7-59, Cl. 8-71.
- Petitt, Donald C.: See—  
Niedringhaus, Charles W., and Petitt. 2,872,271.
- Petitta, Mario: See—  
Bannister, Constance, and Petitta. 2,874,387.
- Petkowitz, Carl F.: See—  
Saunders, Orson V., and Petkowitz. 2,894,378.
- Petley, Joseph E., to General Electric Co. Stabilized organosiloxane compounds as dielectric material in capacitors. 2,899,614, 8-11-59, Cl. 317-259.
- Petracek, Francis J., and L. K. Zechmeister, to California Institute Research Foundation.  $\beta$ -carotene derivatives and method of preparing derivatives of polyenes. 2,871,267, 1-27-59, Cl. 260-586.
- Petrak, George W. Vehicle wheel suspension assembly for caster and camber adjustment. 2,882,066, 4-14-59, Cl. 280-96.2.
- Petrangelo, Amedeo D., to General Dynamics Corp. Two-step telephone hookswitch. 2,916,564, 12-8-59, Cl. 179-164.
- Petras, John F.: See—  
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Hurdiss, Everett C., and Petras. 2,891,093.  
Hurdiss, Everett C., and Petras. 2,902,518.  
Hurdiss, Everett C., Petras, and Romeyn. 2,891,985.
- Petras, John F., to United States Rubber Co. Di(acid maleates) of 2,2'-(isopropylidenebis(p-phenyleneoxy))-dialkanols. 2,891,989, 6-23-59, Cl. 260-485.
- Petre, Eric A.: See—  
Worth, Elmer R., Sr., and Petre. 2,888,047.
- Petre, John R., to The American Laundry Machinery Co. Flatwork folding means. 2,900,185, 8-18-59, Cl. 270-62.
- Petre, John R., to The American Laundry Machinery Co. Proportional folding machine and method. 2,914,320, 11-24-59, Cl. 270-68.
- Petrea, James C., to Sperry Rand Corp. Bag closer and sealer. 2,902,805, 9-8-59, Cl. 53-126.
- Petree, Harris E., to Ethyl Corp. Process for the preparation of cyclopentadienyl manganese tricarbonyl compounds. 2,868,816, 1-13-59, Cl. 260-429.
- Petrelli, Arnaldo, to M. L. Saccucci. Tray with means for automatically lifting its cover. 2,903,317, 9-8-59, Cl. 312-284.
- Petren Products Inc.: See—  
Petrenko, Alexander M. 2,874,075.
- Petrenko, Alexander M., to Petren Products Inc. Method of waterproofing paper, cloth or fur and products produced thereby. 2,874,075, 2-17-59, Cl. 117-140.
- Petri, Jan E., to American Optical Co. Sealed casings for crystal elements. 2,868,862, 1-13-59, Cl. 174-50.57.
- Petri, Jan E., and H. G. Jones, to American Optical Co. Rear view mirrors. 2,882,793, 4-21-59, Cl. 88-77.
- Petric, Bartholomew: See—  
Campbell, William M., Arnold, and Petrich. 2,901,987.
- Petric, Elso. Method for the obtention of calcium tartrate. 2,870,202, 1-20-59, Cl. 260-536.
- Petric, Edward J. Portable stand provided with latch mechanism for leg unit. 2,905,420, 9-22-59, Cl. 248-171.
- Petric, Edward J., to Bretford Mfg., Inc. Locking mechanism for an adjustable stand. 2,912,202, 11-10-59, Cl. 248-161.
- Petric, Russell E.: See—  
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- Petric, Russell E., to Knox Mfg. Co. Portable stand. 2,886,274, 5-12-59, Cl. 248-171.
- Petric, Russell E., to Knox Mfg. Co. Photographic light bar and carrying case. 2,917,619, 12-15-59, Cl. 240-1.3.
- Petric, Russell E., to Knox Mfg. Co. Leg lock for a stand. 2,919,094, 12-29-59, Cl. 248-171.
- Petric, William R.: See—  
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- Petrie, Eugene C., to Crane Co. Flush tank actuating means. 2,908,018, 10-13-59, Cl. 4-56.
- Petrie, Gordon D., to Wright Mfg. Co. Louver structure for air conditioning grille. 2,891,462, 6-23-59, Cl. 98-40.
- Petrie, James A.: See—  
Haworth, Lionel, and Petrie. 2,910,269.
- Petrie, James A., and A. B. Everett, to Rolls-Royce Ltd. Stator construction for axial-flow fluid machine. 2,903,237, 9-8-59, Cl. 253-78.
- Petrie, Paul E.: See—  
Wilson, Fred M., Sr. 2,893,374.
- Petrie, Peter S.: See—  
Horsley, Lee H., and Petrie. 2,886,600.
- Petrik, Helopharm W., & Co. KG.: See—  
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- Petrin, Frank. Vibrator. 2,876,647, 3-10-59, Cl. 74-87.
- Petrix-Union G.m.b.H.: See—  
Engert, Eugen. 2,897,303.
- Petrocelli, Edward A.: See—  
Losch, Kenneth, and Petrocelli. 2,913,601.
- Petrocelli, Edward A., to Westinghouse Electric Corp. Amplifier. 2,917,698, 12-15-59, Cl. 321-43.
- Petro-Chem Process Co., Inc.: See—  
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- Petro-Flow Corp.: See—  
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- Petroleum Chemicals, Inc.: See—  
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- Petroleum Mechanical Development Co.: See—  
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- Petrometer Corp.: *See*—  
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- Petropoulos, John C., to American Cyanamid Co. Polymeric vinyl esters plasticized with dialiphatic esters of certain alkylidene dibenzoic acids. 2,898,319, 8-4-59, Cl. 260—31.8.
- Petrov, Lionel A.: *See*—  
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- Petrovich, Anton I., to Lukens Steel Co. Method of welding clad metal plates. 2,879,375, 3-24-59, Cl. 219—137.
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- Petrow, Vladimir, O. Stephenson, and A. M. Wild, to The British Drug Houses Ltd. Organic compounds. 2,885,404, 5-5-59, Cl. 260—294.3.
- Petrucelly, Vincent J.: *See*—  
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- Petrullo, Joseph: *See*—  
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- Petry, Robert K., to Congoleum-Nairn Inc. Method for making thermoplastic particles. 2,917,780, 12-22-59, Cl. 18—48.8.
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- Petryck, Leon M., and G. R. Pease, to The International Nickel Co., Inc. Coated electrode for welding cast iron. 2,900,490, 8-18-59, Cl. 219—137.
- Petschauer, Johann: *See*—  
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- Pett, Alfred W. Thermal mixing valve. 2,911,153, 11-3-59, Cl. 236—12.
- Pettebone, Russell H.: *See*—  
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- Petter, Bruno J. Buildings with multangular rooms, the ground plan of which is combined from hexagonal elements. 2,886,855, 5-19-59, Cl. 20—1.1.
- Petter, John. Collapsible pre-fabricated building. 2,896,273, 7-28-59, Cl. 20—2.
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- Petterson, Olof H. Arrangement in calendars. 2,869,258, 1-20-59, Cl. 38—56.
- Petterson, Gustaf A., and P. Kornfeldt. Electromagnetic relay. 2,918,611, 12-22-59, Cl. 317—198.
- Pettibone Mulliken Corp.: *See*—  
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- Pettibone, Raymond B.: *See*—  
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- Pettibone, Raymond B., to Vickers Inc. Power transmission. 2,884,865, 5-5-59, Cl. 103—136.
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- Pettigrew, David D.: *See*—  
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- Pettigrew, David D., to Rockwell Mfg. Co. Micrometer stops for machine tools. 2,876,669, 3-10-59, Cl. 82—21.
- Pettigrew, David D., to Rockwell Mfg. Co. Lathe drive. 2,885,897, 5-12-59, Cl. 74—230.17.
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- Pettinato, James D. Perishable foods dispenser. 2,896,423, 7-28-59, Cl. 62—249.
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- Pettit, Frank. Airplane toys. 2,901,251, 8-25-59, Cl. 272—31.
- Pettit, Jack L., and A. J. Kelly. Liquid heater. 2,875,749, 3-3-59, Cl. 126—350.
- Pettit, Jack L., and R. M. Geisler, to Metalwash Machinery Co. Machinery for cleaning hollow cylindrical objects. 2,880,433, 4-7-59, Cl. 15—21.
- Pettit, Robert H., to Sperry Rand Corp. Control stick transducer. 2,895,086, 7-14-59, Cl. 317—99.
- Pettitt, Leslie E., and P. R. Peasey, to C. A. V. Ltd. Machine for use in the manufacture of paper filters. 2,882,801, 4-21-59, Cl. 93—1.
- Pettus, James L.: *See*—  
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- Petty, Olive S.: *See*—  
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- Petty, William O., 10% to J. J. Regan, and 20% to G. Isaac. Macro-sight adjustment. 2,913,826, 11-24-59, Cl. 33—50.
- Pettyjohn, Elmore S., and H. R. Linden, to Institute of Gas Technology. Cyclic regenerative process for making fuel gas. 2,882,138, 4-14-59, Cl. 48—213.
- Petzinger, Ambrose J., to Westinghouse Electric Corp. Watt-hour meter phase adjuster. 2,875,406, 2-24-59, Cl. 324—138.
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- Petzoldt, Werner. Knife for domestic or trade use. 2,895,218, 7-21-59, Cl. 30—355.
- Peucker, Max P., to United States of America, Navy. Double diaphragm electrical pressure gage. 2,882,731, 4-21-59, Cl. 73—398.
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- Pevere, Ernest F., to The Texas Co. Recovery and utilization of propylene from lean gas. 2,888,500, 5-26-59, Cl. 260—683.61.
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- Peyches, Ivan: *See*—  
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- Peyer, Eduard: *See*—  
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- Peyrebrune, Henri E., to Miehle-Goss-Dexter, Inc. Rotary perfecter letterpress. 2,898,851, 8-11-59, Cl. 101—136.
- Peyrebrune, Henri E., to Miehle-Goss-Dexter, Inc. Multiple sheet feeder. 2,906,528, 9-29-59, Cl. 271—10.
- Peyron, Francois A. Tubes for dispensing pastes, creams and the like. 2,880,913, 4-7-59, Cl. 222—214.
- Peyser, Leonard F., to Howdon Videx Products Corp. X-ray cone. 2,881,329, 4-7-59, Cl. 250—105.
- Peyser, William P.: *See*—  
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- Pezza, Edmund D.: *See*—  
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- Pfaender, Lawrence V.: *See*—  
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- Pfaff, G. M., A.-G.: *See*—  
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- Pfalzgraf, Lillian. Hair-curling device. 2,905,186, 9-22-59, Cl. 132-33.
- Pfalzgraf, Ross M., and C. Estelle, Jr., to American Viscose Corp. Sprinkler head corrosion protector. 2,890,758, 6-16-59, Cl. 169-37.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Zone-melting process. 2,875,108, 2-24-59, Cl. 148-1.
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- Pfann, William G., to Bell Telephone Laboratories, Inc. Electromagnetic stirring method. 2,890,940, 6-16-59, Cl. 23-295.
- Pfann, William G., to Bell Telephone Laboratories, Inc. Suspension of liquid material. 2,904,411, 9-15-59, Cl. 23-295.
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- Pfeffer, Edward C. Jr., to Cluett, Peabody & Co., Inc. Single ply collar. 2,884,641, 5-5-59, Cl. 2-132.
- Pfeifer, Edwin F.: *See*—  
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- Pfeifer, Gunther, to Bendix Aviation Corp. Power actuated bleed structure. 2,867,090, 1-6-59, Cl. 60-54.6.
- Pfeifer, Gustav, to Bayerische Motoren Werke Aktiengesellschaft. Shaft coupling. 2,913,884, 11-24-59, Cl. 64-13.
- Pfeifer, Andrew. Manipulating device. 2,891,416, 6-23-59, Cl. 74-507.
- Pfeifer, Fred B. Stabilizer means. 2,898,969, 8-11-59, Cl. 152-341.
- Pfeiffer, Fred B. Pneumatic tire valve. 2,908,313, 10-13-59, Cl. 152-429.
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- Pfeiffer, Mark A. Two stage reversible crusher. 2,919,075, 12-29-59, Cl. 241-160.
- Pfeiffer, Max, to M. Maul. Card feeding devices for record card machines. 2,913,242, 11-17-59, Cl. 271-54.
- Pfeiffer, Richard, and W. R. Lazarites. Tool gauge. 2,883,761, 4-28-59, Cl. 33-201.
- Pfeiffer, Robert W., D. S. Borey, and C. E. Jahnig, to Esso Research and Engineering Co. Fluid coking of heavy hydrocarbons. 2,881,130, 4-7-59, Cl. 208-127.
- Pfening, Fred D., Co., The: *See*—  
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- Pferd, William: *See*—  
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- Pfirschke, Theodor W., to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Proteinaceous preparations. 2,913,347, 11-17-59, Cl. 106-135.
- Pfirschke, Johannes: *See*—  
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- Pfister, Karl, III.: *See*—  
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- Pfister, Karl, III., and G. A. Stein, to Merck & Co., Inc. Alpha methyl phenylalanines. 2,868,818, 1-13-59, Cl. 260-519.
- Pfister, Marcel C. Heavy duty control with electronic accuracy. 2,915,676, 12-1-59, Cl. 315-163.
- Pfister, Rudolf: *See*—  
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- Pfister, Rudolf, and F. Häfiger, to Geigy Chemical Corp. N,N'-(phenyl-malonyl)-dihydro-benzo[c] cinnoline. 2,889,324, 6-2-59, Cl. 260-250.
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- Pfisterer, Richard. Watch crown. 2,867,079, 1-6-59, Cl. 58-90.
- Pfistershammer, Josef. Support structure constructed from hollow members, more particularly tubes of thin hard-rolled metal sheets. 2,912,075, 11-10-59, Cl. 189-26.
- Pfitzer, Christian C.: *See*—  
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- Pfützner, Helmut, and O. Kaufmann, to Badische Anilin- & Soda-Fabrik Akt. Cobalt containing azo dyestuffs. 2,871,233, 1-27-59, Cl. 260-151.
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- Pfizer, Chas., & Co., Inc.: *See*—  
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- Miskel, John J., Abbe, Sarasin, and Thulke. 2,890,913.
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- Pinson, Ellis R., Jr. 2,905,694.
- Price, Kenneth E., and Luther. 2,907,693.
- Ratajak, Edwin J., and Nubel. 2,875,136.
- Routien, John B., and Shull. 2,875,134.
- Sabyun, Melville. 2,890,984.
- Salivar, Charles J. 2,903,395.
- Sardinas, Joseph L., Routien, and Shull. 2,882,205.
- Schaeren, Sidney F., and Moreland. 2,891,087.
- Shull, Gilbert M. 2,890,153.
- Shull, Gilbert M. 2,908,616.
- Shull, Gilbert M., and Kita. 2,905,592.
- Skibicki, Stephen F., and Miskel. 2,886,253.
- Solomons, Isaiah A., III. 2,915,555.
- Stephens, Charles R., Jr. 2,895,993.
- Stier, William E., and Kardys. 2,907,696.
- Thulke, Hermann G., and Abbe. 2,886,200.
- Ursprung, Joseph J. 2,890,981.
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- Pfaffner, Arthur E. Heat stabilized vinyl plastic compositions, floor tiles made therefrom, and methods for preparing the same. 2,899,398, 8-11-59, Cl. 260-23.
- Pfeger, Frederick W., to Radio Corp. of America. Indexing device. 2,906,200, 9-29-59, Cl. 101-93.
- Pfeger, Kenneth W., to Bell Telephone Laboratories, Inc. Ultra-low pass filter. 2,874,227, 2-17-59, Cl. 179-100.2.
- Pföh, Jane A.: *See*—  
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- Pfutzner, Karl: *See*—  
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- Phalen, William E.: *See*—  
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- Phaotron Instrument and Electronic Co.: *See*—  
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- Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,699.
- Eisenberg, Irwin W., Dibble, Armstrong, Love, and Rhodes. 2,905,776.
- Pharis, William W.: *See*—  
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- Gatzert, Ernest H., and Pharis. 2,908,765.
- Gatzert, Ernest H., Pharis, and Bover. 2,913,533.
- Kaye, Robert K., and Pharis. 2,897,298.
- Pharis, William W., to General Dynamics Corp. Local first selector circuit. 2,868,885, 1-13-59, Cl. 179-18.
- Pharis, William W., to General Dynamics Corp. Reverting call circuit. 2,871,296, 1-27-59, Cl. 179-17.
- Pharis, William W., to General Dynamics Corp. Telephone trunking system. 2,871,302, 1-27-59, Cl. 179-27.
- Pharis, William W., to General Dynamics Corp. Trunk adapter circuit. 2,874,226, 2-17-59, Cl. 179-43.
- Pharis, William W., to General Dynamics Corp. Telephone test selector. 2,876,300, 3-3-59, Cl. 179-175.2.
- Pharis, William W., to General Dynamics Corp. Conference circuit. 2,880,276, 3-31-59, Cl. 179-18.
- Pharis, William W., to General Dynamics Corp. Intercept circuit. 2,892,890, 6-30-59, Cl. 179-6.
- Pharis, William W., to General Dynamics Corp. Drop-back telephone selector. 2,892,893, 6-30-59, Cl. 179-18.
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- Pharis, William W., to General Dynamics Corp. Connector circuit. 2,913,532, 11-17-59, Cl. 179-18.
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- Pharis, William W., to General Dynamics Corp. Dial telephone signaling system. 2,916,556, 12-8-59, Cl. 179-18.
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- Pharo, Merritt C., to Johnson's Co. Ltd. Asbestos fiber recovery from tailings. 2,874,838, 2-24-59, Cl. 209-18.
- Phelan, George A., and F. M. Potter, to Bendix Aviation Corp. Generator protective system. 2,912,636, 11-10-59, Cl. 322-37.
- Phelan, James M., and J. A. Wilson, to Esso Research and Engineering Co. Apparatus for determining the evaporation end point of volatile liquids. 2,897,671, 8-4-59, Cl. 73-53.
- Phelan, Louis A. M., and I. G. Brinegar; said Brinegar assor. to said Phelan. Cover and serving valve for freezers. 2,916,044, 12-8-59, Cl. 137-375.
- Phelan, Louis A. M., and H. V. Kelton; said Kelton assor. to said Phelan. Pressure cooker. 2,917,200, 12-15-59, Cl. 220-55.3.
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- Phelan, Roy L., to Burroughs Corp. Sheet stack aligning mechanism. 2,886,314, 5-12-59, Cl. 271-62.
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- Phelon, R. E., Co., Inc.: *See*—  
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- Phelon, Russell E., and Martin. 2,892,110.
- Phelon, Russell E., and J. F. Martin, to R. E. Phelon Co., Inc. Magneto mechanism. 2,892,110, 6-23-59, Cl. 310-153.
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- Phelps, Clyde H., to V. J. Getzendanner. Surface speed indicator. 2,905,890, 9-22-59, Cl. 324-70.
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- Phelps, Edward I. Oil drip collector for vehicle. 2,868,329, 1-13-59, Cl. 184-106.
- Phelps, George H., to Murray Mfg. Corp. Electrical connector. 2,872,656, 2-3-59, Cl. 339-192.
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- Phelps, Morton F. Harvester suction nozzle with anti-clogging means. 2,886,936, 5-19-59, Cl. 56-328.
- Phelps, Richard W., to The Black-Clawson Co. Paper machinery. 2,901,191, 8-25-59, Cl. 242-66.
- Phelps, Richard W., to The Black-Clawson Co. Paper machinery. 2,915,255, 12-1-59, Cl. 242-56.
- Phelps, Robert J.: *See*—  
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- Bobb, Lloyd J. 2,878,323.
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- Boothroyd, Wilson P. 2,878,316.
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- Boothroyd, Wilson P., and Creamer. 2,878,370.
- Bradley, William E. 2,871,453.
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- Brown, Lawrence R. 2,902,616.
- Bryan, James S. 2,899,600.
- Bryan, James S. 2,907,908.
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- Certa, Anthony J. 2,878,146.
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- Clapp, Richard G. Re. 2,685.
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- Phillips, Carleton A. Mountings for a portable electric motor. 2,888,965, 6-2-59, Cl. 144-1.
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- Phillips, Harold P., and S. I. Johnson, to Hastings Mfg. Co. Safety belt for automotive vehicles. 2,880,788, 4-7-59, Cl. 155-189.
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- Phillips, James F., to Ideal Industries, Inc. Semi-automatic means for assembling connector terminals on wires. 2,876,668, 3-10-59, Cl. 81-57.
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- Phillips, Nolan: *See*—  
Phillips, Clovis H. 2,917,126.
- Phillips, Oliver V., to The Star Recorder Corp. of Denver. Crank for use with recording apparatus for earth bore drilling. 2,913,195, 11-17-59, Cl. 242-107.3.
- Phillips, Orvel J. Foldable backstop game device. 2,915,314, 12-1-59, Cl. 273-102.4.
- Phillips Petroleum Co.: *See*—  
Adams, Loyd W. 2,887,850.
- Adams, Loyd W., and Cottle. 2,901,403.
- Adams, Max M. 2,879,665.
- Allen, John G. 2,908,631.
- Anderson Herbert R., Jr. 2,871,216.
- Axe, William N., and Gragson. 2,884,445.
- Ayers, Arnold L., and Scott. 2,874,535.
- Phillips Petroleum Co.: *See*—Continued  
Barton, Hugh M., Jr. 2,872,588.
- Bauer, Robert D., and Mitchell. 2,905,621.
- Beeghly, Bert E. 2,910,079.
- Begley, John W. 2,868,855.
- Begley, John W. 2,917,465.
- Benedict, Bruce C. 2,907,709.
- Benedict, Bruce C., and Sarrett. 2,879,219.
- Berger, Donald E. 2,868,701.
- Berger, Donald E. 2,885,863.
- Bethea, Charles F. 2,903,441.
- Bertuzzi, Andrew F., and Tek. 2,872,985.
- Bobo, Roy A. 2,869,475.
- Bobo, Roy A. 2,880,965.
- Bobo, Roy A. 2,895,669.
- Bobo, Roy A. 2,896,726.
- Bobo, Roy A., and Ormsby. 2,884,074.
- Bowers, Frederick A. 2,881,053.
- Boyer, Lee H. 2,881,231.
- Boyer, Lyndon D. 2,867,513.
- Brandt, Carl T. 2,879,646.
- Brandt, Carl T. 2,893,211.
- Brasch, Edgar W., Jr. 2,876,490.
- Bresee, Dick P. 2,890,937.
- Brill, Rudolf F. 2,901,419.
- Britton, Sylvester C. 2,909,159.
- Broerman, Arthur B. 2,915,701.
- Broerman, Arthur B., and Reinecke. 2,886,715.
- Brooke, Jesse M. 2,916,887.
- Brooke, Jesse M., and Gilmore. 2,917,452.
- Brunfeldt, Robert J. 2,911,678.
- Buck, William B. 2,877,822.
- Buell, Charles K. 2,881,093.
- Buell, Charles K. 2,881,230.
- Burk, Marvin C., and Fluegel. 2,884,786.
- Burton, Joe M. 2,869,320.
- Buttolph, Doyle D. 2,889,931.
- Cabbage, John T. 2,907,711.
- Cabbage, John T. 2,910,425.
- Cabbage, John T. 2,910,427.
- Cagle, Duane W., Goss, and Bowles. 2,882,714.
- Campbell, Paul E. 2,893,982.
- Canterino, Peter J. 2,877,190.
- Canterino, Peter J. 2,919,252.
- Cantwell, Kenneth R. 2,910,451.
- Carpenter, Paul G. 2,877,200.
- Carpenter, Paul G. 2,880,802.
- Carpenter, Paul G. 2,898,999.
- Carpenter, Paul G. 2,912,931.
- Carr, Donald E. 2,876,750.
- Carr, Donald E. 2,918,940.
- Carroll, James H., and Hamner. 2,872,438.
- Carroll, James H., and Runberg. 2,888,498.
- Ceresna, Ivan. 2,883,274.
- Clark, Alfred. 2,881,233.
- Claudy, Harry N. 2,873,584.
- Clay, Harris A. 2,882,693.
- Cobb, Joseph R., Jr. 2,876,865.
- Cobb, Joseph R., Jr. 2,910,521.
- Cobb, Joseph R., Jr. 2,916,838.
- Cobb, Raymond L., and Scott. 2,917,495.
- Cook, Carl V. 2,890,861.
- Cooper, Wayne E., and Eddy. 2,878,949.
- Cooper, Wayne E., and Pouppirt. 2,886,210.
- Copenhaver, William G. 2,905,537.
- Cottle, John E. 2,878,165.
- Cottle, John E. 2,890,252.
- Cottle, John E. 2,908,754.
- Cottle, John E. 2,914,518.
- Crandall, A. Ralph. 2,886,297.
- Crawford, Francis W. 2,869,825.
- Crawford, Francis W. 2,899,186.
- Crawford, Francis W. 2,913,050.
- Croley, Leo B. 2,886,287.
- Crouch, Willie W. 2,888,417.
- Dale, Glenn H. 2,882,215.
- Davison, Joseph W. 2,899,475.
- Davison, Joseph W., and Cobb. 2,880,592.
- Davison, Joseph W., Williams, and Koble. 2,905,734.
- Dean, Lloyd E. 2,897,008.
- Dean, Lloyd E., and Ivey. 2,906,784.
- De Haven, Clark G. 2,885,246.
- Dennis, William H., Jr. 2,917,454.
- Dietz, Richard E. 2,905,658.
- Dollinger, Robert E. 2,890,746.
- Dopler, John L. 2,918,925.
- Doss, Richard C., and Bost. 2,881,217.
- Draper, Homer L. 2,917,201.
- Drehman, Lewis E., and Box. 2,881,229.
- Dye, Robert F. 2,875,027.
- Dye, Robert F. 2,917,563.
- Eddy, William R., and McKay. 2,890,962.
- Edmonds, Lee O. 2,890,191.
- Edmonds, James T., Jr. 2,913,443.
- Edwards, Clyde H., and Webster. 2,878,511.
- Fauske, Sig C. 2,905,732.
- Favre, John A., Butler, and Mitacek. 2,883,343.
- Findlay, Robert A. 2,869,672.
- Findlay, Robert A. 2,881,134.
- Findlay, Robert A. 2,890,995.
- Findlay, Robert A. 2,895,835.
- Findlay, Robert A. 2,898,271.
- Findlay, Robert A. 2,899,377.
- Findlay, Robert A. 2,904,498.



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Findlay, Robert A. 2,905,596.  
 Findlay, Robert A. 2,918,419.  
 Flavin, Thomas C. 2,910,435.  
 Flavin, Thomas C., and Groebe. 2,890,251.  
 Fluegel, Dale A., and Burk. 2,886,710.  
 Forkel, Curt E., Hall, and Seyer. 2,880,983.  
 Fox, Homer M. 2,868,127.  
 Fox, Homer M. 2,874,539.  
 Fox, Homer M. 2,877,504.  
 Fox, Homer M. 2,877,749.  
 Fox, Homer M. 2,878,643.  
 Fox, Homer M. 2,902,984.  
 Fox, Homer M. 2,917,894.  
 Fox, Jack J., and White. 2,893,412.  
 Franklin, Charles E. 2,917,380.  
 Freeman, Silas D., Jr. 2,884,376.  
 Frellick, Jacob P. 2,917,455.  
 Freund, Robert R. 2,893,680.  
 Frey, Frederick E. 2,870,081.  
 Gagle, Duane W., and Defabaugh. 2,889,231.  
 Gilmore, Forrest E. 2,868,326.  
 Gilmore, Forrest E. 2,868,714.  
 Gilmore, Forrest E. 2,868,723.  
 Gilmore, Forrest E. 2,870,087.  
 Gilmore, Forrest E. 2,885,109.  
 Gilmore, Forrest E. 2,900,312.  
 Gilmore, Forrest E. 2,900,326.  
 Goins, Robert R. 2,890,876.  
 Gomory, Paul L. 2,899,374.  
 Goodhue, Lyle D. 2,868,633.  
 Goodhue, Lyle D., and Cantrel. 2,884,355.  
 Goodhue, Lyle D., and Cantrel. 2,919,227.  
 Hachmuth, Karl H. 2,894,997.  
 Hachmuth, Karl H., and Duckwall. 2,917,363.  
 Hall, Dick S., Dean, Seyer, and Forkel. 2,880,078.  
 Hall, Dick S., and Hennigan. 2,875,146.  
 Hamlin, Frank S., Holmes, Brooks, and Swanson. 2,915,298.  
 Hann, Paul D. 2,872,493.  
 Hann, Paul D. 2,907,717.  
 Harper, Kenneth A. 2,875,000.  
 Harper, Kenneth A. 2,895,906.  
 Harper, Kenneth A. 2,905,635.  
 Harper, Kenneth A. 2,906,609.  
 Harper, Kenneth A. 2,914,458.  
 Harper, Kenneth A. 2,915,456.  
 Headrick, John F. 2,899,820.  
 Hebard, Glen G. 2,901,210.  
 Hebard, Glen G., and Remke. 2,893,595.  
 Helmers, Carl J. 2,904,509.  
 Hendrix, Hurshel V., and Miles. 2,880,587.  
 Hennigan, Henry W. 2,899,283.  
 Hettick, George R. 2,905,638.  
 Hillyer, John C., and Edmonds. 2,886,556.  
 Hillyer, John C., and Edmonds. 2,898,347.  
 Hillyer, John C., and Wilson. 2,914,474.  
 Hintze, Alma J., and Klaus. 2,871,785.  
 Hitzman, Donald O. 2,880,142.  
 Hitzman, Donald O. 2,907,389.  
 Hitzman, Donald O. 2,917,428.  
 Hogan, John P., and Gardner. 2,898,360.  
 Holm, Vernon C. F., Bailey, and Clark. 2,904,608.  
 Howell, Robert C. 2,901,324.  
 Hurley, James R. 2,880,096.  
 Hurley, James R. 2,893,243.  
 Hutchinson, William M. 2,879,306.  
 Hutchinson, William M., and Bost. 2,893,885.  
 Hutson, Thomas, Jr. 2,908,726.  
 Johnson, Paul H. 2,882,219.  
 Johnston, Kenneth L., and Bishop. 2,893,950.  
 Jones, Jean P. 2,899,469.  
 Jones, Rufus V. 2,870,113.  
 Jones, Rufus V. 2,896,715.  
 Jordan, Earl W., and Pierce. 2,894,821.  
 Kansas, Charles H. 2,884,132.  
 Kansas, Charles H. 2,908,521.  
 Karasek, Francis W., and Loyd. 2,879,140.  
 Kaveler, Herman H. 2,874,778.  
 Kaveler, Herman H. 2,909,225.  
 Kelley, Carl S. 2,914,388.  
 Kennedy, Thomas J., and Holst. 2,893,971.  
 Kilpatrick, Myron O. 2,906,792.  
 Kimble, Harvey S., and McLeod. 2,897,184.  
 King, William R. 2,892,684.  
 Kindred, Raymond L. 2,872,113.  
 Kindred, Raymond L. 2,874,298.  
 King, William R., and Rushford. 2,880,819.  
 Kittredge, George D. 2,890,569.  
 Kleiss, Louis D. 2,911,361.  
 Kleiss, Louis D., and Morgan. 2,917,437.  
 Koble, Robert A. 2,907,409.  
 Koble, Robert A. 2,908,731.  
 Kolner, Samuel J. 2,886,587.  
 Kraus, Gerard. 2,901,448.  
 Kron, Carl M. 2,891,100.  
 Lanning, William C. 2,880,198.  
 Lanning, William C. 2,891,935.  
 Lanning, William C. 2,894,824.  
 Lanning, William C. 2,899,380.  
 Larsen, Olaf E. 2,877,753.  
 Larsen, Olaf E. 2,883,276.  
 Larsen, Olaf E. 2,889,213.  
 Larson, Harold A., and King. 2,889,575.

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Lawson, Shelby D. 2,876,081.  
 Lawson, Shelby D. 2,879,224.  
 Lawson, Shelby D. 2,890,163.  
 Lawson, Shelby D. 2,894,999.  
 Leatherman, Gerald T., and Dettler. 2,882,246.  
 Leatherman, Gerald T., and Dettler. 2,915,513.  
 Lee, Henry H., Berger, and Gilmore. 2,905,627.  
 Lee, Roy, Jr. 2,887,362.  
 Leslie, Robert W., and Jennings. 2,873,172.  
 Lindsey, Joe P. 2,897,477.  
 Lindsey, Joe P., and Jones. 2,878,999.  
 Little, Donald M. 2,875,139.  
 Lloyd, Neil E. 2,890,935.  
 Loring, Ralph C. 2,877,554.  
 Lortz, Russell W. 2,900,998.  
 Louthan, Rector P. 2,913,475.  
 Louthan, Rector P., and Kruse. 2,886,593.  
 Lupfer, Dale E. 2,890,707.  
 Lupfer, Dale E., and Houser. 2,880,073.  
 Lupfer, Dale E., and Tolin. 2,890,617.  
 Lupfer, Dale E., and Vesper. 2,885,885.  
 Mahan, John E. 2,877,228.  
 Mahan, John E. 2,893,995.  
 Mahan, John E., and Osborn. 2,884,316.  
 Marak, Eldon J. 2,897,247.  
 Marsee, Jack H. 2,884,068.  
 Marx, John W. 2,893,692.  
 Marx, John W. 2,908,819.  
 Mathis, Clyde H., and Polk. 2,877,866.  
 Mathis, Clyde H., Strole, and Parker. 2,918,506.  
 Matthews, Thomas A., II. 2,905,380.  
 Matyear, Charles, Jr. 2,900,308.  
 Matyear, Charles, Jr. 2,910,139.  
 McBride, John A., and Green. 2,904,412.  
 McCarthy, William A. 2,905,622.  
 McGlamery, Roger M. 2,867,848.  
 McCreary, Elmer J. 2,890,931.  
 McIntire, Robert L. 2,886,612.  
 McIntire, Robert L. 2,905,538.  
 McKay, Dwight L. 2,882,138.  
 McReynolds, Leo A. 2,875,029.  
 Meade, Leonard P. 2,896,417.  
 Meade, Leonard P. 2,903,877.  
 Mertz, Clyde W. 2,900,387.  
 Mertz, Clyde W. 2,907,770.  
 Mertz, Clyde W. 2,914,589.  
 Mertz, Clyde W., and Warner. 2,886,616.  
 Mertz, Clyde W., and Zoller. 2,893,927.  
 Miles, Elbert S. 2,883,833.  
 Miles, Elbert S., and Porter. 2,884,761.  
 Miller, Elmer C. 2,885,922.  
 Miller, Elmer C. 2,890,571.  
 Miller, Elmer C. 2,900,334.  
 Minarik, William L. 2,897,062.  
 Montgomery, Orin C. 2,900,619.  
 Moore, Vernon L. 2,914,169.  
 Morgan, Forrest C. 2,910,002.  
 Myers, John W. 2,891,013.  
 Myers, John W. 2,899,382.  
 Myers, John W., and Prange. 2,911,357.  
 Nannini, Louis G. 2,903,876.  
 Nowlin, Gene, and Lyons. 2,908,674.  
 Nowlin, Gene, and Lyons. 2,910,461.  
 Nowlin, Gene, and Lyons. 2,918,458.  
 Nowlin, Gene, and Lyons. 2,918,459.  
 Oberlin, Lyman M. 2,874,541.  
 Oberlin, Lyman M. 2,876,434.  
 Oberlin, Lyman M., and Pitzer. 2,891,956.  
 Opheim, Milton H., and Franzus. 2,877,214.  
 Ormsby, George S. 2,907,392.  
 Ormsby, George S., and Bobo. 2,888,990.  
 Owen, James R. 2,902,522.  
 Owen, Joe D. 2,875,401.  
 Owen, Joe D. 2,916,691.  
 Parker, Harry W. 2,880,803.  
 Parker, Harry W. 2,888,987.  
 Parsons, James R. 2,891,239.  
 Parsons, James R. 2,904,751.  
 Parsons, James R. 2,908,820.  
 Pennington, Edward N. 2,879,272.  
 Pennington, Edward N., Pollock, Wood, Andrews, and Boyer. 2,883,271.  
 Peterson, Glen. 2,874,356.  
 Piety, Raymond G. 2,871,444.  
 Piety, Raymond G. 2,886,108.  
 Piety, Raymond G. 2,888,089.  
 Piety, Raymond G. 2,891,166.  
 Piety, Raymond G. 2,894,201.  
 Piety, Raymond G. 2,907,953.  
 Piety, Raymond G. 2,908,889.  
 Piety, Raymond G. 2,913,170.  
 Piety, Raymond G. 2,915,246.  
 Pitchford, Armin C. 2,889,261.  
 Pitzer, Emory W. 2,870,154.  
 Pitzer, Emory W. 2,888,497.  
 Pitzer, Emory W., and Bagnetto. 2,888,499.  
 Pollock, Lyle W. 2,872,300.  
 Pollock, Lyle W. 2,880,519.  
 Pollock, Lyle W. 2,898,158.  
 Pollock, Lyle W. 2,917,564.  
 Porter, Grady T. 2,875,379.  
 Potts, Mack F., Smith, and Hudson. 2,887,490.  
 Prater, Robert T. 2,893,949.



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- Prentiss, Spencer S. 2,914,948.  
 Prentiss, Spencer S. 2,917,296.  
 Pritchard, James E. 2,875,097.  
 Pritchard, James E. 2,888,436.  
 Purre, Heino. 2,911,206.  
 Quigg, Donald J. 2,890,239.  
 Rector, Walter T. 2,877,101.  
 Ray, Gardner C., and Hepp. 2,894,049.  
 Ray, Gardner C., and Smith. 2,905,730.  
 Reed, Edwin E. 2,871,668.  
 Reed, Edwin E. 2,872,072.  
 Reed, Edwin E. 2,895,305.  
 Reed, Edwin E. 2,901,889.  
 Reid, Harvey K. 2,893,939.  
 Reinecke, Marvin E. 2,894,136.  
 Reinecke, Marvin E., and Broerman. 2,880,323.  
 Reinecke, Marvin E., and Simmons. 2,907,339.  
 Remke, Marvin A. 2,885,118.  
 Reynolds, William B. 2,899,418.  
 Reynolds, William B., and Ashe. 2,886,561.  
 Reynolds, William B., and Carpenter. 2,870,107.  
 Reynolds, William B., Wicklatz, and Kennedy. 2,908,665.  
 Reynolds, William B., Wicklatz, and Kennedy. 2,908,668.  
 Rhodes, Hubert F. 2,916,264.  
 Richardson, Joseph D. 2,872,936.  
 Roberts, Ernest E., and Shope. 2,889,578.  
 Rush, Elton E. 2,890,938.  
 Rush, Elton E. 2,910,516.  
 Rushford, Wilson H. 2,892,689.  
 Ryan, Martin A. 2,876,841.  
 Ryan, Martin A. 2,896,914.  
 Rynders, Wesley B. 2,878,507.  
 Sattler, Robert E. 2,916,889.  
 Schirmer, Robert M. 2,918,118.  
 Schleicher, Arthur R. 2,889,882.  
 Scofield, Raymond C. 2,871,979.  
 Scofield, Raymond C. 2,875,148.  
 Scofield, Raymond C. 2,900,044.  
 Scofield, Raymond C., and Weedman. 2,905,637.  
 Scott, Johnny N. 2,877,206.  
 Seed, Kenneth W. 2,905,731.  
 Shelton, Russell O. 2,886,603.  
 Short, James N. 2,871,263.  
 Simmons, Bill J. 2,885,923.  
 Skinner, Bradley. 2,868,696.  
 Skinner, Bradley. 2,891,099.  
 Smith, David R., and Hall. 2,898,315.  
 Smith, Dexter E., Mertz, and Crowell. 2,908,818.  
 Smith, James V. 2,904,846.  
 Smith, Warren L., Potts, and Hudson. 2,874,159.  
 Sneath, Loy D. 2,891,619.  
 Snow, Robert D., and Hughes. 2,912,944.  
 Solomon, Paul W. 2,909,572.  
 Spann, Edwin C., and Copenhaver. 2,881,118.  
 Sparks, Marshall S., Jr. 2,874,297.  
 Sparks, Marshall S., Jr. 2,900,510.  
 Sparks, Marshall S., Jr. 2,905,823.  
 Sparks, Marshall S., Jr., and Harp. 2,900,511.  
 Stafford, Joseph D., Jr., and Alleman. 2,905,597.  
 Stallings, Percy S., Jr. 2,913,344.  
 Starrett, Delbert. 2,908,478.  
 Steele, Earl P., and Southworth. 2,890,930.  
 Steeves, George J. 2,899,373.  
 Stratton, Charles A. 2,879,229.  
 Svetlik, Joseph F. 2,885,381.  
 Tabler, Donald C. 2,913,448.  
 Tarr, Thomas A. 2,874,109.  
 Tarr, Thomas A. 2,885,431.  
 Tek, Mehmet R., and Marwil. 2,910,424.  
 Thompson, Carl D. 2,917,706.  
 Tolin, Ernest D., and Kline. 2,882,920.  
 Trantham, Joseph C., and Dixon. 2,889,881.  
 Trantham, Joseph C., and Schleicher. 2,917,112.  
 Traue, Henry A. 2,904,410.  
 Turner, Marshall C. 2,904,115.  
 Turner, Marshall C. 2,905,099.  
 Uraneck, Carl A., and Dodgen. 2,883,351.  
 Uraneck, Carl A., and Mitchell. 2,915,507.  
 Uraneck, Carl A., and St. John. 2,888,442.  
 Uraneck, Carl A., and Sonnenfeld. 2,894,857.  
 Van Pool, Joe. 2,881,235.  
 Van Pool, Joe. 2,905,735.  
 Van Pool, Joe. 2,914,590.  
 Vautrain, Lucien H. 2,890,156.  
 Venable, Charles R., Jr. 2,899,323.  
 Vignovich, Barney. 2,893,943.  
 Waddill, Paul M. 2,897,146.  
 Waddill, Paul M. 2,901,425.  
 Waddill, Paul M., and Barr. 2,901,426.  
 Walker, Harry L. 2,874,798.  
 Warner, Paul F. 2,918,435.  
 Webster, George J., and Edwards. 2,890,942.  
 Webster, George J., and Wilson. 2,871,978.  
 Weedman, John A. 2,868,830.  
 Weedman, John A. 2,903,343.  
 Wheelock, Charles E. 2,898,259.  
 Wheelock, Charles E. 2,914,490.  
 Wheelock, Charles E. 2,919,220.  
 Wheelock, Charles E., and Franzus. 2,876,214.  
 Whitney, William B. 2,909,563.  
 Wigham, William E., Lane, and Wilson. 2,868,225.  
 Wiley, Bruce F. 2,880,613.  
 Wiley, Bruce F. 2,904,112.

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- Wiley, Bruce F., and Barton. 2,882,914.  
 Williams, Jack R., and Koble. 2,909,038.  
 Wilson, Joseph F. 2,913,330.  
 Wilson, Reagan T. 2,880,166.  
 Wood, James Q. 2,886,567.  
 Wood, James Q. 2,917,374.  
 Wood, James Q., and Andrews. 2,895,805.  
 Wood, James Q., and Pollock. 2,867,508.  
 Younk, James R. 2,905,821.  
 Ziege, Norman E. 2,917,077.  
 Phillips, Raymond P., 1½% to W. D. Morison, Jr., or O. L. Morison, and 98½% to E. V. Mitchell and B. S. Estes. Radiotelephone system featuring switching circuit for portable radio transmitter and receiver. 2,894,121, 7-7-59, Cl. 250-6.  
 Phillips, Robert A., to Allied Laboratories, Inc. Emulsified oleaginous spread containing essential fatty acids and process of making same. 2,890,959, 6-16-59, Cl. 99-123.  
 Phillips, Robert E.: See—  
   Portis, Robert B., and Phillips. 2,917,753.  
 Phillips, Robert F.: See—  
   Malzahn, Ronald C., Phillips, and Hanson. 2,876,169.  
 Phillips, Ross M. G.: See—  
   Zeletzky, Franz A., and Phillips. 2,900,843.  
 Phillips, Ross M. G., Door operator. 2,879,058, 3-24-59, Cl. 268-59.  
 Phillips, Roy. Brake adjustment mechanism. 2,873,006, 2-10-59, Cl. 188-196.  
 Phillips, Russell C.: See—  
   Boomer, Daryl R., Clapperton, and Phillips. 2,901,339.  
 Phillips, Stanley D., to United States of America, Air Force. Hydraulic position indicator. 2,868,153, 1-13-59, Cl. 116-124.  
 Phillips, Stanley L.: See—  
   Hillix, Foster F., and Phillips. 2,876,724.  
 Phillips, Valentine J. Automatic margin and paper margin equalizer. 2,883,028, 4-21-59, Cl. 197-63.  
 Phillips-Van Heusen Corp.: See—  
   Ainslie, Thomas D. 2,897,509.  
   Ainslie, Thomas D. 2,903,702.  
   Ainslie, Thomas D. 2,909,783.  
 Phillips, Wallace G., W. O. Hall, and H. H. Overstreet. Machine for applying handles to paper bags or the like. 2,911,927, 11-10-59, Cl. 112-2.  
 Phillips, Walt, to 44 Trinity Place Corp. Reduction of objectionable odors of materials. 2,893,958, 7-7-59, Cl. 252-1.  
 Phillips, Wayland: See—  
   Richards, William V., and Rosen. 2,871,673.  
 Phillips, William D.: See—  
   Muettetries, Earl L., Phillips, and Smith. 2,897,055.  
 Phillips, William F.: See—  
   Hidy, Phil H., Phillips, and Harned. 2,902,480.  
 Phillips, William J.: See—  
   Ostline, John E., and Phillips. 2,901,545.  
 Philpotts, George C., to Caribonum Ltd. Method of making transfer sheets and resulting article. 2,885,302, 5-5-59, Cl. 117-36.  
 Philofsky, Harold M.: See—  
   Foster, Newton C., and Philofsky. 2,917,420.  
 Philos, Nicholas: See—  
   Christofilos, Nicholas. 2,898,456.  
 Philpott, Peter D., to The Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Discharge nozzles for propulsive jets. 2,900,789, 8-25-59, Cl. 60-35.6.  
 Philpott, Peter G.: See—  
   Cohen, Aaron, and Philpott. 2,908,686.  
 Phin, James R., to Universal Labelling Machines Ltd. In-feed mechanism. 2,910,167, 10-27-59, Cl. 193-34.  
 Phin, Sydney R. Apparatus for heat sealing cartons. 2,874,619, 2-24-59, Cl. 93-44.  
 Phipps, John W., to Imperial Chemical Industries Ltd. Melt-spinning apparatus. 2,898,628, 8-11-59, Cl. 18-8.  
 Phoenix Mfg. Co.: See—  
   Waser, James D. 2,872,229.  
 Phoenix Metal Cap Co., Inc.: See—  
   Crabbe, Lindsay T. 2,904,837.  
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   Broedner, Ernst. 2,902,956.  
   Engel, Wolfgang, and Broedner. 2,873,707.  
   Engel, Wolfgang, and Höner. 2,895,441.  
 Phoenix-Rheinrohr Aktiengesellschaft Vereinigte Hutten-und Röhrenwerke: See—  
   Baffrey, Anton R., Hofmeier, Schmidt, and Hormann. 2,895,034.  
 Phoenix Steel Corp.: See—  
   McNabb, Arthur J. 2,896,445.  
 Photoceramics, Inc.: See—  
   Charlton, Alexander E. 2,867,749.  
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   Grinstead, Carl E. 2,896,138.  
   Charlton, Alexander E. 2,900,255.  
 Photographic Analysis, Inc.: See—  
   Barnett, John S. 2,909,096.



- Photographic Survey Corp. Ltd., The: *See*—  
Hobrough, Gilbert L. 2,901,909.
- Photo-Matic Inc.: *See*—  
Skay, Frank. 2,911,568.
- Photostat Corp.: *See*—  
Caps, Arthur W. 2,905,052.  
Taubes, Ernest P. 2,889,762.
- Phreaner, Ellis H.,  $\frac{1}{2}$  to H. C. White. Silicone-silicious pigment dispersion process and product. 2,891,875, 6-23-59, Cl. 106-308.
- Phreaner, Ellis H.,  $\frac{3}{4}$  to H. C. White. Silicone supplemented fillers and rubbers, and methods for their manufacture. 2,891,923, 6-23-59, Cl. 260-37.
- Phrix-Werke Akt.: *See*—  
Opderbeck, Fritz, Franke, and Trapp. 2,893,919.  
Torke, Erich, and König. 2,876,062.
- Pianfetti, John A., and G. M. Kosolapoff, to Food Machinery and Chemical Corp. Tris(phenyl chloroethyl)phosphite. 2,876,246, 3-3-59, Cl. 260-461.
- Pianfetti, John A., and G. M. Kosolapoff, to Food Machinery and Chemical Corp. Gasoline ignition control additives. 2,881,202, 4-7-59, Cl. 260-461.
- Pianowski, Leon J.: *See*—  
Davis, John V., and Pianowski. 2,881,711.
- Piazza, Thomas E., to Continental Can Co., Inc. Apparatus for dispensing flexible merchandise containers. 2,874,886, 2-24-59, Cl. 225-106.
- Piazza, Thomas E., to Continental Can Co., Inc. Method and machine for making a drawstring bag. 2,883,913, 4-28-59, Cl. 93-8.
- Piazza, Thomas E., and A. Blanc-Cazaux, to Continental Can Co., Inc. Receptacle filling mechanism. 2,888,046, 5-26-59, Cl. 141-117.
- Piazzolla, Giovanni, to Etablissement Matex. Shuttleless loom with continuous weft supply. 2,903,207, 9-22-59, Cl. 139-124.
- Picanol, Jaime. Adjustable unwinding means for the warp beam in weaving looms. 2,875,790, 3-3-59, Cl. 139-108.
- Picanol, Jaime. Adjusting and safety means for the hammer of the bobbin changer in weaving looms. 2,875,791, 3-3-59, Cl. 139-243.
- Picanol, Jaime. Clutching means for weaving looms. 2,888,044, 5-26-59, Cl. 139-1.
- Picanol, Jaime. Reed adjustment device for weaving looms. 2,899,986, 8-18-59, Cl. 139-192.
- Picanol, Jaime. Double acting buffer for weaving looms. 2,915,093, 12-1-59, Cl. 139-188.
- Picard, Maxime F. B., to Societe de Prospection Electrique Procesdes Schlumberger. Apparatus for sampling fluids in geological formations. 2,873,804, 2-17-59, Cl. 166-100.
- Picas International Ltd.: *See*—  
Alcover, Gabriel. 2,909,371.
- Picat, Elie: *See*—  
Poncet, Pierre. 2,893,770.
- Picatti, George G. Closure operating mechanism and automatic control system therefor. 2,871,009, 1-27-59, Cl. 268-49.
- Picha, George J., and F. C. Winkler, to Westinghouse Electric Corp. Luminaire. 2,883,519, 4-21-59, Cl. 240-51.11.
- Pichert, Jerome: *See*—  
Bavor, Gordon F., and Pichert. 2,915,669.
- Pichitino, Albert M., to E. F. Johnson Co. Multi-frequency antenna. 2,898,590, 8-4-59, Cl. 343-722.
- Pichler, Helmut R.: *See*—  
Chervenak, Michael C., Keith, and Pichler. 2,891,003.  
Chervenak, Michael C., Keith, and Pichler. 2,891,006.
- Pichler, Helmut R., to Hydrocarbon Research, Inc. Oil refining with hydrogen. 2,910,433, 10-27-59, Cl. 208-216.
- Pick, Charles O., Pacific Pulp Molding Co. Device for aiding inspection of fruit or similar articles packed in crate or cartons. 2,891,687, 6-23-59, Cl. 214-300.
- Pick, Joseph R., deceased; T. M. Lasinski, V. C. Baldwin, and Continental Illinois National Bank and Trust Co. of Chicago, executors. Luggage handle. 2,867,306, 1-6-59, Cl. 190-57.
- Pickard, Alfred E. Ground fault detector. 2,917,673, 12-15-59, Cl. 317-18.
- Pickard & Burns, Inc.: *See*—  
Burns, Harold S., and de Mars. 2,880,817.  
Woodward, Richard H., and Horwitz. 2,912,761.
- Pickard, Robert H., to United States of America, Navy. Transistorized counter. 2,881,333, 4-7-59, Cl. 307-88.5.
- Pickard, Robert M.: *See*—  
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- Pickel, Günter: *See*—  
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- Pickell, Clark A.: *See*—  
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- Pickell, Marion W.: *See*—  
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- Pickell, Marion W., to Kerr-McGee Oil Industries, Inc. Coating composition of asphaltenes and plasticizer. 2,909,441, 10-20-59, Cl. 106-123.
- Pickels, Edward G.: *See*—  
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Grindle, Eugene L., and Pickels. 2,909,800.
- Pickels, Edward G., R. C. Stallman, and P. F. Scofield, to Beckman Instruments, Inc. Centrifuge apparatus and rotor therefor. 2,878,992, 3-24-59, Cl. 233-11.
- Pickels, Edward G., and W. M. Oates, to Beckman Instruments, Inc. Centrifuge apparatus. 2,885,188, 5-5-59, Cl. 237-4.
- Pickens, Clifford J., Sr.: *See*—  
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- Pickens, David L.: *See*—  
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- Pickens, Herman E.: *See*—  
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- Picker X-ray Corp.: *See*—  
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- Picker X-Ray Corp., Waite Mfg. Div., Inc.: *See*—  
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Palermo, Anthony, Jr., and Graves. 2,911,683.  
Reininger, Walter G. 2,887,586.  
Reynolds, John A., and Slagle. 2,880,327.  
Schiring, Ralph C., and Hollstein. 2,872,584.  
Stava, Robert J., and Hollstein. 2,901,202.  
Stava, Robert J., Reininger, and Wilkens. 2,901,632.
- Pickerell, Ernest J. Door check. 2,897,534, 8-4-59, Cl. 16-70.
- Pickering Associates, Inc.: *See*—  
Kuehn, John P. 2,916,562.
- Pickering, Dorothy F.: *See*—  
Rado, Leopold. 2,918,768.
- Pickering, Harold L.: *See*—  
Eckstrom, Hartley C., Frye, Pickering, and Tollefson. 2,918,355.
- Pickersgill, Clayton L. Hand operated router attachment. 2,878,842, 3-24-59, Cl. 144-134.
- Pickersgill, Eleanor. Structure blocks. 2,880,470, 4-7-59, Cl. 20-4.
- Pickford, Allan E., to C. F. Braun & Co. Pass-rib gasket for heat exchanger. 2,900,173, 8-18-59, Cl. 257-239.
- Pickford, George, and R. Ward, to United Shoe Machinery Corp. Shoe machines. 2,900,932, 8-25-59, Cl. 112-44.
- Pickin, John H., to Colgate-Palmolive Co. Apparatus for homogeneous blending. 2,869,837, 1-20-59, Cl. 259-3.
- Pickles, Joseph, to Ferro Stamping Co. Positioning device. 2,868,271, 1-13-59, Cl. 155-14.
- Pickles, Joseph, to Ferro Stamping Co. Lock. 2,876,032, 3-3-59, Cl. 292-280.
- Pickles, Joseph, to Ferro Stamping Co. Seat adjusting mechanism. 2,886,094, 5-12-59, Cl. 155-14.
- Pickles, Joseph, to Ferro Stamping Co. Latch. 2,919,152, 12-29-59, Cl. 292-280.
- Pickles, Sidney B., to International Telephone and Telegraph Corp. Aerial navigation equipment. 2,889,551, 6-2-59, Cl. 343-106.
- Pickles, Sydney B., S. H. M. Dodginton, and G. Stavis, to International Telephone and Telegraph Corp. Radio navigation system. 2,890,449, 6-9-59, Cl. 343-6.5.
- Picklesimer, Marion L., to United States of America, Atomic Energy Commission. Method for annealing and rolling zirconium-base alloys. 2,894,866, 7-14-59, Cl. 148-11.5.
- Pickman, Edgard, to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. Expandable mandrel including jacks, for driving tubes into the ground. 2,871,666, 2-3-59, Cl. 61-79.
- Pickman, Edgard, to Compagnie Internationale des Pieux Armes Frankignoul Societe Anonyme. Machine movable and angularly displaceable on the ground. 2,889,685, 6-9-59, Cl. 61-73.
- Pickwick Co.: *See*—  
Corey, Flournoy and F. C., and Pitts. 2,869,172.  
Farchmin, Roy H. 2,884,241.  
Pitts, Robert D., and Corey. 2,896,249.
- Piccolo, Luigi. Cocking mechanism for breech loading firearm. 2,908,098, 10-13-59, Cl. 42-43.
- Picozzi, Vincent J., G. D. Spooner, and R. L. Wall, to General Electric Co. Acoustically treated motor. 2,886,721, 5-12-59, Cl. 310-51.
- Pictorial Machinery Ltd.: *See*—  
Perrin, George. 2,897,740.
- Picturepak, Inc.: *See*—  
Gauthier, Jean J. 2,881,546.
- Pidcock, Robert E.: *See*—  
Adams, Foster L., and Pidcock. 2,899,825.
- Pidgeon, Elmer F., and L. V. Carr, to Luther O. Draper Shade Co. Multiple double shade roller mounting. 2,879,965, 3-31-59, Cl. 248-269.
- Pidgeon, Luther A., to Luther O. Draper Shade Co. Picture projection screen and support. 2,868,285, 1-13-59, Cl. 160-323.
- Piekarski, Julian A., and J. A. Russell, to A. O. Smith Corp. Arc welding apparatus. 2,903,567, 9-8-59, Cl. 219-130.
- Piekarski, Leon T.: *See*—  
Wilson, Volney C., and Piekarski. 2,910,981.
- Piel, Gerard J. R., and R. R. Dussine, to Societe d'Electronique et d'Automatisme. Electrical digital multiplier devices. 2,867,380, 1-6-59, Cl. 235-61.
- Piel, Michel: *See*—  
Le Masson, Yves. 2,915,059.
- Piemont, Georges. Conveyors. 2,916,130, 12-8-59, Cl. 198-7.



- Piemonte, William J.: *See*—  
Di Benedetto, Charles, Piemonte, and S. Di Benedetto. 2,917,229.
- Pien, Hsia-Si, to Wilkening Mfg. Co. Piston-ring construction. 2,877,072, 3-10-59, Cl. 309-44.
- Pientkewic, Martin M. Mobile frame mounted tire removing device. 2,890,745, 6-16-59, Cl. 157-1.2.
- Pieper, Alphonse F. Pulley structure. 2,884,286, 4-28-59, Cl. 308-190.
- Pieper, Alphonse F. Adjusting means for tension mechanism. 2,890,221, 8-11-59, Cl. 287-20.
- Pieper, Archie H.: *See*—  
Hurt, David M., and Pieper. 2,905,707.
- Pieper, Gustav, E. Stein, and H.-F. Rickert, to Farbenfabriken Bayer Akt. Process for the polymerization of ethylene. 2,867,612, 1-6-59, Cl. 260-94.9.
- Pieper, Howard B. Bowling game apparatus. 2,884,251, 4-28-59, Cl. 273-40.
- Piepho, Edgar F. Method of reconditioning plow points. 2,906,015, 9-29-59, Cl. 29-401.
- Pier Inc.: *See*—  
Casey, Walter P., Jr., Cascadden, and Lawson. 2,895,810.
- Pier, Jerome R., to Westinghouse Air Brake Co. Pulsation dampener device. 2,875,788, 3-3-59, Cl. 138-30.
- Pier, Stanley M.: *See*—  
Patterson, John A., and Pier. 2,918,487.
- Pier, Stanley M., to Texaco Inc. Corrosion inhibitor for oil tanker water ballast. 2,892,860, 6-30-59, Cl. 260-452.
- Pierce, Bernard N., to The Merrow Machine Co. Lubrication systems. 2,879,733, 3-31-59, Cl. 112-256.
- Pierce, Donald A.: *See*—  
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- Pierce, Earl R., to General Motors Corp. Non-metallic means for bonding materials together. 2,879,115, 3-24-59, Cl. 309-3.
- Pierce, Earl R., to General Motors Corp. Automatic timing device. 2,899,810, 8-18-59, Cl. 64-25.
- Pierce, Earl R., to General Motors Corp. Friction clutch. 2,907,425, 10-6-59, Cl. 192-32.
- Pierce, Earl W., to General Motors Corp. Spark plug. 2,874,208, 2-17-59, Cl. 174-152.
- Pierce, Earl W., to General Motors Corp. Spark plug and method of manufacturing same. 2,875,365, 2-24-59, Cl. 313-145.
- Pierce, Eldridge M. Mirror frame for two vertically and horizontally adjustable mirrors. 2,876,675, 3-10-59, Cl. 88-84.
- Pierce, Eldridge M. Thermos jug holder. 2,895,702, 7-21-59, Cl. 248-293.
- Pierce, Frank M., to Frank Mossman Pierce Corp. Brake structure. 2,889,012, 6-2-59, Cl. 188-80.
- Pierce, Frank Mossman, Corp.: *See*—  
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- Pierce, Franklin W., and W. A. Woehr, to Blackhawk Instrument Co. Apparatus for temperature difference detection. 2,888,918, 6-2-59, Cl. 128-2.
- Pierce, John B.: *See*—  
Bailey, George B. 2,876,631.
- Pierce, John B., Foundation: *See*—  
Payne, Hugh F. 2,910,244.
- Pierce, John R., to Bell Telephone Laboratories, Inc. Periodic magnetic focusing system. 2,867,745, 1-6-59, Cl. 315-3.5.
- Pierce, John R., to Bell Telephone Laboratories, Inc. Multi-electrode traveling wave tube. 2,876,380, 3-3-59, Cl. 315-3.6.
- Pierce, John R., to Bell Telephone Laboratories, Inc. High frequency amplifier. 2,908,845, 10-13-59, Cl. 315-5.15.
- Pierce, John R., to Bell Telephone Laboratories, Inc. Automatic phase equalizer. 2,908,874, 10-13-59, Cl. 333-18.
- Pierce, Joseph D., to The Vulcan Radiator Co. Heating, cooling and ventilating system. 2,876,690, 3-10-59, Cl. 98-38.
- Pierce, Ogden R.: *See*—  
McBee, Earl T., and Pierce. 2,892,859.  
McBee, Earl T., Pierce, and Metz. 2,899,454.
- Pierce, Ogden R., to Dow Corning Corp. Fluorinated alkyl organosilicon compounds. 2,894,969, 7-14-59, Cl. 260-448.2.
- Pierce, Phillip E.: *See*—  
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- Pierce, R. H., Mfg. Co.: *See*—  
Johnson, Alexander J. 2,881,788.
- Pierce, Roger V.: *See*—  
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- Pierce Specialized Equipment Co.: *See*—  
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- Pierce, Wallace B.: *See*—  
Wirth, Edward C., Pierce, and Vogel. 2,871,830.
- Pierce, Weller R.: *See*—  
Jordan, Earl W., and Pierce. 2,894,821.
- Pierce, William C., to Warner Electric Brake & Clutch Co. Magnetic friction torque producing device. 2,885,048, 5-5-59, Cl. 192-84.
- Pierce, William C. Door with magnetic catch. 2,888,290, 5-26-59, Cl. 292-251.5.
- Pierce, William C., to Warner Electric Brake & Clutch Co. Electromagnetic torque device. 2,899,037, 8-11-59, Cl. 192-84.
- Pierce, William C., and C. W. Modersohn, to Warner Electric Brake & Clutch Co. Permanent magnet torque producing device. 2,914,714, 11-24-59, Cl. 317-201.
- Piercy, John P. Non-creep throttle control. 2,918,829, 12-29-59, Cl. 74-538.
- Piermarini, Gino J.: *See*—  
Angelini, Roger M., and Piermarini. 2,883,994.
- Pierotti, Gino J., to Shell Development Co. Condensation and separation process. 2,870,066, 1-20-59, Cl. 202-57.
- Pierre, Emile A.: *See*—  
Deloffre, Leon E., and Pierre. 2,895,067.
- Pierre, Emile A. Photo electric cell. 2,871,755, 2-3-59, Cl. 88-14.
- Piersol, Jay L., to Armstrong Cork Co. Method of forming a slurry of different filler particles uniformly coated with a binder. 2,887,431, 5-19-59, Cl. 162-169.
- Pierson, Charles A.: *See*—  
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- Pierson, Charles T., Jr., to Ershig Sheet Metal, Inc. Heated dish rinsing sink. 2,875,315, 2-24-59, Cl. 219-38.
- Pierson, Ennis B., and C. A. Archery bow. 2,894,503, 7-14-59, Cl. 124-23.
- Pierson, Ernest. Sashless window structure. 2,875,479, 3-3-59, Cl. 20-52.
- Pierson, George R.: *See*—  
Kiehl, Paul G., and Pierson. 2,906,170.
- Pierson, Hugh C., deceased: B. Pierson, administratrix. Closures. 2,892,497, 6-30-59, Cl. 160-368.
- Pierson, Knute H., to Montgomery Elevator Co. Elevator control circuit. 2,902,117, 9-1-59, Cl. 187-29.
- Pierson, Knute H., and W. F. Meinhardt, to Montgomery Elevator Co. Electrical control system. 2,867,291, 1-6-59, Cl. 187-29.
- Pierson, Paul R.: *See*—  
Baker, Benjamin P., and Pierson. 2,909,591.
- Pierson, Virginia F.: *See*—  
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- Pies, John R., to Texas Instruments Inc. Method of sealing resistors. 2,893,182, 7-7-59, Cl. 53-22.
- Pieters, Willem J.: *See*—  
Ten Have, Cornelis D., Buningh, Le Nobel, Pieters, and Lower. 2,893,954.
- Pieters, Willem J., and C. D. Ten Have, to Shell Development Co. Sweetening petroleum hydrocarbons and method for regenerating the treating solution. 2,893,951, 7-7-59, Cl. 208-204.
- Pieterse, Marius C. Devices for the transmission of movements. 2,869,377, 1-20-59, Cl. 74-216.3.
- Pietrowicz, Edwin J., and E. C. Williams, to General Motors Corp. Clutching and declutching means for feeding mechanism of down-feed grinders and the like. 2,917,875, 12-22-59, Cl. 51-165.
- Pietruska, Friedrich, to Schiff & Stern, Gesellschaft mit beschränkter Haftung. Moistening of tobacco. 2,900,986, 8-25-59, Cl. 131-134.
- Pietrusza, Edward W.: *See*—  
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- Pietrusza, Edward W., and R. C. Winckhofer, to Allied Chemical Corp. Dried article consisting of a polyamide and a normal metal salt of a saturated aliphatic dicarboxylic acid. 2,919,258, 12-29-59, Cl. 260-37.
- Pietsch, Helmut: *See*—  
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- Pietsch, Raymond L.: *See*—  
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Scott, Hayes O., and Pietsch. 2,888,291.
- Pietschker, Herbert E.: *See*—  
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- Piety, Raymond G., to Phillips Petroleum Co. Electrical well logging. 2,871,444, 1-27-59, Cl. 324-1.
- Piety, Raymond G., to Phillips Petroleum Co. Oil well production. 2,886,108, 5-12-59, Cl. 166-6.
- Piety, Raymond G., to Phillips Petroleum Co. Seismic exploration. 2,888,089, 5-26-59, Cl. 181-5.
- Piety, Raymond G., to Phillips Petroleum Co. Well logging. 2,891,166, 6-16-59, Cl. 250-83.3.
- Piety, Raymond G., to Phillips Petroleum Co. Core logging method and apparatus. 2,894,201, 7-7-59, Cl. 324-13.
- Piety, Raymond G., to Phillips Petroleum Co. Galvanometer. 2,907,953, 10-6-59, Cl. 324-150.
- Piety, Raymond G., to Phillips Petroleum Co. Computer. 2,908,889, 10-13-59, Cl. 340-15.
- Piety, Raymond G., to Phillips Petroleum Co. Electrolytic analogue for approximately simulating extensions in space to infinity. 2,913,170, 11-17-59, Cl. 235-61.6.
- Piety, Raymond G., to Phillips Petroleum Co. Polynomial roots computer. 2,915,246, 12-1-59, Cl. 235-180.
- Pietzsch, Frank H., to Thrall Railway Devices Co. Adjustable lading strapping anchor. 2,891,489, 6-23-59, Cl. 105-369.
- Pifer, Marion J., to Sylvania Electric Products Inc. Solder-dipped stamped wiring. 2,869,040, 1-13-59, Cl. 317-101.
- Pifer, Marion J., to Sylvania Electric Products Inc. Television apparatus. 2,898,586, 8-4-59, Cl. 340-369.
- Pifer, Marion J., to Sylvania Electric Products Inc. Electric plug. 2,915,732, 12-1-59, Cl. 339-61.
- Pigage, Robert F.: *See*—  
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- Pigliavento, Gioacchino. Combination window bracket. 2,899,166, 8-11-59, Cl. 248-263.
- Pignone, Edward H. Adjustable drafting board assembly. 2,898,702, 8-11-59, Cl. 45-131.
- Pignone, Joseph, to Daystrom, Inc. Recorder pen lift mechanism. 2,885,255, 5-5-59, Cl. 346-68.



- Pignone, Joseph, to Daystrom, Inc. Adjustable cam member. 2,903,790, 10-13-59, Cl. 200-153.
- Pignone, Joseph, to Daystrom, Inc. Servocircuit and control switch. 2,911,577, 11-3-59, Cl. 318-29.
- Piha, Arthur W., and R. G. Ehrman. Adjustable wear strips for boring bars. 2,901,929, 9-1-59, Cl. 77-58.
- Pihl, Hadley C., to Sears, Roebuck and Co. Ventilating fan with reversible pitch blade. 2,869,648, 1-20-59, Cl. 170-160.1.
- Pilp, Ants T., to Boonton Radio Corp. Induced current testing apparatus. 2,887,651, 5-19-59, Cl. 324-34.
- Pikal, Harry. Apple coating turret with swingable hood means. 2,870,736, 1-27-59, Cl. 118-13.
- Pikal, Harry. Apple coating machine. 2,889,801, 6-9-59, Cl. 118-16.
- Pike, Robert D., deceased (The Stamford Trust Co., executor), and K. B. Ray. Continuous iron ore reduction process. 2,873,183, 2-10-59, Cl. 75-35.
- Pike, Robert D., deceased; K. B. Ray and The Stamford Trust Co., executors. Process of treating ferrotitaniferous materials. 2,903,341, 9-8-59, Cl. 23-202.
- Pike, Ronald M.: See—  
Bailey, Donald L., and Pike. 2,909,548.
- Pike, Ronald M., to Union Carbide Corp. Pyrrole-containing organosilicon compounds and process for producing the same. 2,881,184, 4-7-59, Cl. 260-326.5.
- Pike, Ronald M., to Union Carbide Corp. Organosilicon ureas and processes for producing the same. 2,907,782, 10-6-59, Cl. 260-448.2.
- Pike, Winthrop S.: See—  
Flory, Leslie E., Gray, Jensen, and Pike. 2,892,056.
- Piker, Herbert M., to Hamilton-Skotch Corp. Insulated container. 2,881,936, 4-14-59, Cl. 215-13.
- Piker, Herbert M., to The Hamilton Skotch Corp. Cabinet. 2,915,352, 12-1-59, Cl. 312-257.
- Piker, Herbert M., and A. J. Schultheiss, to Hamilton-Skotch Corp. Spring lock. 2,872,066, 2-3-59, Cl. 220-55.
- Pikey, Cornelius P. Method and apparatus for portable refrigeration cycle. 2,883,835, 4-28-59, Cl. 62-161.
- Pilar, Frank L., H. N. Friedlander, O. O. Juveland, and E. Field, to Standard Oil Co. Catalytic conversion and catalysts. 2,881,156, 4-7-59, Cl. 260-94.9.
- Pilas, Frank J.: See—  
Wolke, Roy K., Chase, and Pilas. 2,884,684.  
Wolke, Roy K., Chase, and Pilas. 2,917,812.
- Pilch, Chester W. Poultry feeding apparatus or the like. 2,893,741, 7-7-59, Cl. 275-2.
- Pilch, John S. Material handling device. Re. 24,746, 12-8-59, Cl. 214-140.
- Pilch, John S. Detachable bulldozer. 2,878,598, 3-24-59, Cl. 37-117.5.
- Pilch, John S. Hydraulic brake for trencher. 2,878,784, 3-24-59, Cl. 121-40.
- Pilch, John S. Side digger. 2,878,951, 3-24-59, Cl. 214-138.
- Pilch, John S. Bucket control for loader or the like. 2,883,077, 4-21-59, Cl. 214-140.
- Pilch, John S. Fluid actuated control valve means for fluid motors. 2,890,683, 6-16-59, Cl. 121-38.
- Pilch, John S. Hydraulic system for tractor mounted apparatus. 2,890,805, 6-16-59, Cl. 214-138.
- Pilch, John S. Clam shell bucket and operating means therefor. 2,890,806, 6-16-59, Cl. 214-147.
- Pilch, John S. Hydraulic adze. 2,895,236, 7-21-59, Cl. 37-2.
- Pilcher, Joseph C.: See—  
Osgood, Harold A., Jr., and Pilcher. 2,892,629.
- Pileggi, Frank P.: See—  
McDougal, Paul A., Sr., and Pileggi. 2,882,987.
- Pileggi, Peter T., to General Electric Co. Arrangement for preventing displacement of stator end turns. 2,885,581, 5-5-59, Cl. 310-260.
- Pilkington Brothers Ltd.: See—  
Barradell-Smith, Richard. 2,911,760.  
Charnock, Stanley. 2,867,059.  
Jellyman, Philip E., Dickinson, and Macintosh. 2,895,260.  
Jellyman, Philip E., Macintosh, and Wilcock. 2,870,244.  
Pilkington, Lionel A. B., and Bickerstaff. 2,911,759.  
Wynne, Hubert C., and Cousen. 2,883,799.
- Pilkington, Lionel A. B., and K. Bickerstaff, to Pilkington Brothers Ltd. Manufacture of flat glass. 2,911,759, 11-10-59, Cl. 49-3.
- Pillion, Mary E.: See—  
Rogers, Morris R., Kaplan, and Pillion. 2,887,262.
- Pillon, Daniel: See—  
Meyer, Robert, and Pillion. 2,870,206.
- Pillote, Vernon J., to AquaMatic Inc. Valve. 2,906,281, 9-29-59, Cl. 137-119.
- Pillsbury Co., The: See—  
Barnes, John A., and Worthen. 2,912,338.  
Coyne, William R. 2,891,363.  
Easter, Ross A. 2,885,932.  
Forkner, John H. 2,878,127.  
Forkner, John H. 2,901,359.  
Gehrke, August F., Marmor, Henry, and Greenberg. 2,882,167.  
Gidlow, Rolf G. 2,896,291.  
Maxey, Hillis I., Steinert, and Clougherty. 2,902,812.  
Risdon, Harold L. 2,917,221.
- Pilny, Jiri, to Tesla, narodni podnik. Image producing devices. 2,912,646, 11-10-59, Cl. 324-71.
- Pilous, Albert J.: See—  
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Fike, Russell R., and Pilous. 2,911,708.
- Pilson, Joseph E. Double-paneled louver jalousie structure. 2,867,861, 1-13-59, Cl. 20-62.
- Piltz, Erich, to W. W. Lenkeit. Mesh-stripper for hand-operated knitting machines. 2,913,889, 11-24-59, Cl. 66-105.
- Pilzer, Charles J.: See—  
Fleischmann, Lewis W. 2,914,887.
- Pim, Richard A., and V. C. Rees, to L.O.F. Glass Fibers Co. Hydraulic winding traverse. 2,905,403, 9-22-59, Cl. 242-27.
- Pimbley, George H., to Turco Products, Inc. Process and compositions for producing aluminum surface conversion coatings. 2,868,679, 1-13-59, Cl. 148-6.2.
- Pimbley, George H., to Turco Products, Inc. Process for producing aluminum surface coatings. 2,898,250, 8-4-59, Cl. 148-6.21.
- Pimentel, George C.: See—  
Connick, Robert E., Gofman, and Pimentel. 2,912,302.
- Pinchon, Michel P. A., to Societe Anonyme Fonderies Chokier. Production of moulds for metal casting. 2,904,858, 9-22-59, Cl. 22-20.
- Pinckaers, Balthasar H.: See—  
Kompellen, Arlon D., and Pinckaers. 2,888,627.
- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Transistor control apparatus. Re. 24,678, 8-11-59, Cl. 307-88.5.
- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Transistor control apparatus. 2,872,595, 2-3-59, Cl. 307-88.5.
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- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Condition responsive apparatus. 2,879,456, 3-24-59, Cl. 317-148.5.
- Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Semiconductor apparatus. 2,911,545, 11-3-59, Cl. 307-88.5.
- Pincus, Alexis G., to American Optical Co. Glass compositions and method of making same. 2,901,362, 8-25-59, Cl. 106-47.
- Pincus, Alexis G., to American Optical Co. Glass compositions and method of making same. 2,901,363, 8-25-59, Cl. 106-47.
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- Pincus, Alexis G., to General Electric Co. Forsterite ceramic bodies. 2,912,340, 11-10-59, Cl. 106-62.
- Pindyck, Charles, to Knitmode Mills, Inc. Undershirts for infants. 2,918,677, 12-29-59, Cl. 2-111.
- Pine, Charles: See—  
Rohrbaugh, John H., Pine, and Zoellner. 2,912,643.
- Pine, Lester C.: See—  
Berman, Martin, and Pine. 2,868,879.
- Pine, Wilbur M. Building ventilating apparatus. 2,889,763, 6-9-59, Cl. 98-31.
- Pine, William S. Double-acting hydraulic jack. 2,917,277, 12-15-59, Cl. 254-93.
- Pineapple Research Institute of Hawaii: See—  
Owen, Robert R., Cykler, and Tribble. 2,913,060.
- Pines Engineering Co., Inc.: See—  
Bower, Byron F. 2,871,909.  
Bower, Byron F., and Meredith. 2,887,141.
- Pinette, Robert M. Automatic cam opener. 2,896,319, 7-28-59, Cl. 30-4.
- Pingard, Lucien, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Process for forming a stable agglomerated mass of active alumina. 2,881,051, 4-7-59, Cl. 23-143.
- Pinhasik, Sidney N.: See—  
Berenschot, Donald J., Pinhasik, and Bierman. 2,884,397.
- Pini, Henning: See—  
Siedel, Walter, Nahm, and Pini. 2,894,977.
- Pinkard, Joseph A.: See—  
Littleton, Charles W. 2,885,121.
- Pinke, August H., to H. D. Hudson Mfg. Co. Pressure regulator for compression sprayer. 2,907,343, 10-6-59, Cl. 137-505.42.
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- Pinkel, Isadore I. Crash resistant seat. 2,916,081, 12-8-59, Cl. 155-9.
- Pinkerson, Albert S., to Berkson Products, Inc. Battery carrier. Re. 24,661, 6-23-59, Cl. 294-92.
- Pinkerton, Harry E., Jr., to United States of America, Army. Fluid transfer rate control for a firing mechanism. 2,873,650, 2-17-59, Cl. 89-131.
- Pinkerton, Martin L.: See—  
Pinkerton, Milburn L. and Martin L. 2,901,858.
- Pinkerton, Milburn L. and M. L. Fish hook holder. 2,901,858, 9-1-59, Cl. 43-57.5.
- Pinkham, George A. Garment hangers and mounts therefor. 2,904,234, 9-15-59, Cl. 223-91.
- Pinkham, Jesse R., to American Machine & Foundry Co. Method and apparatus for curing tobacco. 2,882,911, 4-21-59, Cl. 131-136.
- Pinkham, William A., Jr. Dispenser for rolled tissues. 2,873,158, 2-10-59, Cl. 312-39.



- Pinkus, Lotte. Exchangeable shoe ornament. 2,888,767, 6-2-59, Cl. 41-34.
- Pinkvoss, Agnes: *See*—  
Pinkvoss, Berthold P. 2,875,716.
- Pinkvoss, Berthold P., deceased, by A. Pinkvoss, executrix, to The Singer Mfg. Co. Feed regulating mechanisms for sewing machines. 2,875,716, 3-3-59, Cl. 112-211.
- Pinney, George C.: *See*—  
Langlois, David P., and Pinney. 2,886,541.  
Langlois, David P., and Pinney. 2,890,182.
- Pinney, Harold E., to General Electric Co. Motor control system. 2,869,061, 1-13-59, Cl. 318-212.
- Pino, Piero: *See*—  
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- Pinola, Frank L.: *See*—  
Ferriss, Frederick, and Gainfort. 2,879,726.  
Ferriss, Frederick, and Gainfort. 2,882,841.
- Pinotti, Alfred D., to Owens-Illinois Glass Co. Glass conditioning apparatus. 2,913,509, 11-17-59, Cl. 13-6.
- Pinsley, Edward A., to United Aircraft Corp. Mixed blade compressor. 2,870,958, 1-27-59, Cl. 230-122.
- Pinson, Ellis R., Jr., to Chas. Pfizer & Co., Inc. Certain esters of 1,2-diaryl 3-hydroxy 4-substituted pyrazoline-5-ones. 2,905,694, 9-22-59, Cl. 260-310.
- Pinson, William L. Rocking cradle and high chair device. 2,908,917, 10-20-59, Cl. 5-109.
- Pinsuti, Giuseppe F. Smoker's filter. 2,893,402, 7-7-59, Cl. 131-188.
- Pinte, Jules, M. Coupez, and P. Rochas, to Centre Technique Industriel dit: Institut Textile de France. Method for the coating of glass threads and tissues with artificial resin. 2,893,892, 7-7-59, Cl. 117-72.
- Pinto, Salvatore. Combination vinyl plastic Venetian blind and screen. 2,914,122, 11-24-59, Cl. 160-89.
- Pintsch Bamag A.-G.: *See*—  
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Von Semel, Georg, and Lehmann. 2,901,340.
- Pioch, Robert J. Chuck for attaching pipe fittings and the like. 2,878,026, 3-17-59, Cl. 279-7.
- Plodi, Roberto. Jerk absorber for tow ropes and similar flexible members. 2,878,013, 3-17-59, Cl. 267-69.
- Pioli, Raymond: *See*—  
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- Pion, Noel W., to North American Aviation, Inc. Rocket launcher. 2,916,969, 12-15-59, Cl. 89-17.
- Pionair Products, Inc.: *See*—  
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- Pioneer Folding Box Inc.: *See*—  
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- Pioneer Gen-E-Motor Corp.: *See*—  
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Siwek, Stanley Z. 2,914,129.
- Pioneer Rubber Co. Inc.: *See*—  
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- Pioneer Specialty Co.: *See*—  
Ford, Erwin C. 2,890,520.
- Pioneers Specialties, Inc.: *See*—  
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Works, Madden T., and Slough. 2,918,336.
- Plotrowski, Lottie J., L. Rienks, and M. D. Grossnickle, to Armour and Co. Thyrotropic hormone separation. 2,871,159, 1-27-59, Cl. 187-74.
- Pipeline Coating & Engineering Co., Inc.: *See*—  
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- Pipe Line Service Corp.: *See*—  
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- Pipeliners Mfg. Co., Inc.: *See*—  
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- Piper, Carl J. Baled hay elevator and distributor. 2,885,065, 5-5-59, Cl. 198-188.
- Piper, Charles A.: *See*—  
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- Piper, Douglas E., to Eastman Kodak Co. Photographic emulsions sensitized with alkylene oxide polymers and quaternary ammonium compounds. 2,886,437, 5-12-59, Cl. 96-66.
- Piper, Richard C., Jr., and D. R. Ogden, to Markel Electric Products, Inc. Diffuser for portable electric fan. 2,900,128, 8-18-59, Cl. 230-274.
- Piper, Robert L. Apparatus for simultaneously scrubbing the roof and walls of a transit bus. 2,879,529, 3-31-59, Cl. 15-21.
- Pipes, George R., and F. H. Kramen, to Eaton Mfg. Co. Closure device. 2,918,191, 12-22-59, Cl. 220-40.
- Pipitz, Egon: *See*—  
Herz, William, and Pipitz. 2,874,065.
- Piplack, Arno E. Safety pin clasp. 2,903,773, 9-15-59, Cl. 24-156.
- Pippenger, John J., to Double A Products Co. Selector valve for controlling the direction and speed of movement of an associated fluid motor. 2,891,516, 6-23-59, Cl. 121-45.
- Piqua Machine & Mfg. Co., The: *See*—  
Slaughter, Elmer C. 2,870,286.
- Piquet, Georges, to Moteurs Electriques Segal & Cie. Electric motors. 2,900,587, 8-18-59, Cl. 318-224.
- Piquett, Price G.: *See*—  
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- Pira, Olof. Vertically adjustable shelf construction. 2,915,196, 12-1-59, Cl. 211-147.
- Pircon, Ladislav J., to A. W. Brickman, V. Conquest, F. J. Madden, W. B. Oleson, and E. T. Filbey, trustees. Method of and apparatus for thermostatic heating. 2,896,054, 7-21-59, Cl. 219-10,41.
- Pirelli-General Cable Works Ltd.: *See*—  
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- Pirelli Società per Azioni: *See*—  
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Lugli, Giuseppe. 2,895,525.  
Pacciarini, Antonio, and Nuara. 2,878,856.  
Sarracino, Marcello. 2,875,570.
- Pirot, Ernst, to J. P. Bemberg, Akt. Guide and tensioning device for processing films and foils. 2,899,201, 8-11-59, Cl. 271-45.
- Pirrone, Sylvester J.: *See*—  
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Turansky, Clement J., and Pirrone. 2,916,046.
- Pirsh, Edward A., and E. J. Wagner, Jr., to The Babcock & Wilcox Co. Vapor washing apparatus. 2,875,992, 3-3-59, Cl. 261-98.
- Pirsig, Howard C., to Belle City Malleable Iron Co. Helicoid strike-off device for variable height flasks. 2,869,189, 1-20-59, Cl. 22-9.
- Pirwitz, Wilhelm, to Schloeman Akt. Devices for the removal of the cut-off discard from presses. 2,893,551, 7-7-59, Cl. 207-1.
- Piry, Marcel, to Fairchild Engine and Airplane Corp. Submarine depth and trim control. 2,887,977, 5-26-59, Cl. 114-16.
- Pisanchyn, John, and H. A. Troutman, to Allied Chemical Corp. Wax emulsion polish containing oxidized polyethylene wax. 2,874,137, 2-17-59, Cl. 260-29.6.
- Pisani, John J. Method of assembling electronic components. 2,871,548, 2-3-59, Cl. 29-155.5.
- Pischel, Paul. Manufacture of pencils. 2,917,777, 12-22-59, Cl. 18-47.5.
- Pischke, Alvin W., to Minneapolis-Honeywell Regulator Co. Worm-gear drive stop assembly. 2,907,225, 10-6-59, Cl. 74-425.
- Pistelli, Alfio. Sliding closure. 2,897,886, 8-4-59, Cl. 160-33.
- Pistey, John M., to General Electric Co. Fluorescent lamp-holder with screwless terminals. 2,869,105, 1-13-59, Cl. 339-174.
- Pistey, John M., and P. F. Strubel, to General Electric Co. Slider switch. 2,868,930, 1-13-59, Cl. 200-153.
- Pistor, Christel: *See*—  
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- Pistor, Christel, and H. J. McDermott, to American Viscose Corp. Artificial yarn producing apparatus. 2,872,701, 2-10-59, Cl. 18-8.
- Pistor, Hans J., and W. Koelsch, to Badische Anilin- & Soda-Fabrik Akt. Process of working up water-soluble carbon-ylation products. 2,878,258, 3-17-59, Cl. 260-540.
- Pistorius, Otto: *See*—  
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- Pitchford, Armin C., to Phillips Petroleum Co. Process for improving properties of asphalts. 2,889,261, 6-2-59, Cl. 208-28.
- Pitchford, Richard L.: *See*—  
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- Pitcock, Ewing T. Printer's apron. 2,870,447, 1-27-59, Cl. 2-51.
- Pitcoff, Robert, to Epoch Products Corp. Retractable window enclosure. 2,886,103, 5-12-59, Cl. 160-269.
- Piteo, Benjamin A., Jr., and D. B. Powell, to General Electric Co. Circuit breaker with undervoltage tripping means. 2,912,544, 11-10-59, Cl. 200-106.
- Piteo, Benjamin A., Jr., and D. B. Powell, to General Electric Co. Circuit breaker. 2,912,545, 11-10-59, Cl. 200-109.
- Pitman, Duncan, D. F. Rutland, and G. J. Giel, to United States of America, Navy. Sofar alarm. 2,907,012, 9-29-59, Cl. 340-213.
- Pitman, Herbert J.: *See*—  
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- Pitman, Herbert J., W. E. Jordan, Jr., and G. S. Bright, to The Texas Co. Method of grease manufacture comprising shearing. 2,870,090, 1-20-59, Cl. 252-41.
- Pitman, J. C., & Sons, Inc.: *See*—  
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- Pitman Mfg. Co.: *See*—  
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- Pitman, Ralph W.: *See*—  
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- Pitner, John L.: *See*—  
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- Pitner, Lloyd E., deceased, by J. L. Pitner, administrator. Collocating machines. 2,879,991, 3-31-59, Cl. 270-58.
- Pitney-Bowes, Inc.: *See*—  
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- Pitometer Log Corp.: *See*—  
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- Pitrot, Adrian R.: *See*—  
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- Pitt, Harold M., to Stauffer Chemical Co. Apparatus for photochemical chlorination reactions. 2,870,335, 1-20-59, Cl. 250-43.
- Pitt, Herman V.: See—  
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- Pitt, Oas. Curb feeler. 2,902,671, 9-1-59, Cl. 340-61.
- Pittaluga, Louis. Combination see-saw and merry-go-round. 2,895,734, 7-21-59, Cl. 272-30.
- Pittman, Charles U., and J. C. Christensen, to Koppers Co., Inc. Thermal insulation material. 2,888,357, 5-26-59, Cl. 106-202.
- Pittman, George F., Jr.: See—  
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- Pittman, Paul R., Jr., to Globe Industries, Inc. Rotary speed changer. 2,884,815, 5-5-59, Cl. 74-804.
- Pittman, Paul R., Jr., to Globe Industries, Inc. Electrical measurement and control device. 2,885,625, 5-5-59, Cl. 322-32.
- Pittman, Ralph R. High-voltage arc-spinning arrester. Re. 24,605, 2-17-59, Cl. 313-231.
- Pittman, Ralph R. Lightning arrester. 2,883,572, 4-21-59, Cl. 313-231.
- Pittman, Ralph R. Excess-voltage protective device. 2,883,573, 4-21-59, Cl. 313-231.
- Pittman, Ralph R. Lightning arrester. 2,883,574, 4-21-59, Cl. 313-231.
- Pittman, Robert R.: See—  
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- Pittman, Roland, to Lear, Inc. Single axis two-gyro stabilized platform. 2,898,766, 8-11-59, Cl. 74-534.
- Pitton, Robert A. Soap dishes. 2,867,940, 1-13-59, Cl. 45-28.
- Pitts, Kennard: See—  
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- Pitts, Kennard, and E. A. Herider, to Rockwell-Standard Corp. Jointed arm rest. 2,893,473, 7-7-59, Cl. 155-112.
- Pitts, Robert D.: See—  
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- Pitts, Robert D., and F. C. Corey, to Pickwick Co. Poultry processing equipment. 2,896,249, 7-28-59, Cl. 17-45.
- Pitts, William A., to Jersey Production Research Co. Fluid sampler. 2,872,817, 2-10-59, Cl. 73-422.
- Pittsburgh Coke & Chemical Co.: See—  
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- Hoffmann, Ulrich, Hopff, and Kuhn. 2,882,269.
- Ligett, Waldo B., Wolf, and Closson. 2,885,319.
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- Pittsburgh Corning Corp.: See—  
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- Pittsburgh Plate Glass Co.: See—  
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- Bader, Alfred R., and Vogel. 2,895,844.
- Black, Lloyd V., and Moorhead. 2,876,592.
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- Christenson, Roger M., and Cummings. 2,871,208.
- Christenson, Roger M., and Cummings. 2,919,261.
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- Clever, William R. 2,900,761.
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- Pittsburgh Plate Glass Co.: See—Continued  
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- Lytle, William O. 2,894,858.
- Marini, Herman R. 2,871,623.
- Marini, Herman R. 2,915,423.
- McKelvey, Harold E., and Doeblert. 2,901,866.
- McRoberts, William C., and Black. 2,876,594.
- Middleswarth, Earl E., and Duncan. 2,912,339.
- Monroe, William J. 2,899,929.
- Neuhausen, Martin W. 2,876,593.
- Olson, Melvin M. 2,877,202.
- Olson, Melvin M., and Christenson. 2,894,922.
- Olson, Melvin M., and Christenson. 2,911,386.
- Olson, Melvin M., and Christenson. 2,917,467.
- Owen, William. 2,882,652.
- Parker, Earl E. 2,890,202.
- Parker, Earl E., and Coultrap. 2,911,379.
- Prescott, Frank R. 2,887,737.
- Prescott, Frank R. 2,894,294.
- Prescott, Frank R., and Bauer. 2,887,738.
- Richardson, Ronald E. 2,895,864.
- Richardson, Ronald E. 2,903,825.
- Richardson, Ronald E. 2,918,755.
- Rieser, Raymond G. 2,914,373.
- Rinehart, Dale W. 2,882,377.
- Risch, Thomas A. 2,910,730.
- Seymour, Samuel L., and Duncan. 2,901,365.
- Sherts, James H., and Moorman. 2,888,360.
- Shets, William M., Tatsak, and Zurney. 2,873,559.
- Shields, George B., and Stepp. 2,873,474.
- Smith, John J., and Duncan. 2,901,366.
- Smith, John J., and Middleswarth. 2,892,726.
- Stefanik, John E. 2,882,252.
- Van Clief, William C., Jr. 2,877,481.
- Vogel, Henry A. 2,910,381.
- Vogel, Henry A., and Bittle. 2,870,116.
- Vogel, Henry A., Bittle, and Christenson. 2,870,117.
- Whitmire, Le Roy S. 2,915,168.
- Pittsburgh Steel Co.: See—  
Johnson, Raymond A. 2,903,880.
- Pitzer, Edmund W., to Edcliff Instruments, Inc. Electrical transducer. 2,908,881, 10-13-59, Cl. 338-40.
- Pitzer, Edmund W., to Edcliff Instruments, Inc. Adjustable electrical resistor. 2,909,750, 10-20-59, Cl. 338-176.
- Pitzer, Emory W.: See—  
Oberlin, Lyman M., and Pitzer. 2,891,956.
- Pitzer, Emory W., to Phillips Petroleum Co. Catalyst dehydrogenation process. 2,870,154, 1-20-59, Cl. 260-290.
- Pitzer, Emory W., to Phillips Petroleum Co. Chromium oxide catalyst and method of preparing and utilizing same. 2,888,497, 5-26-59, Cl. 260-680.
- Pitzer, Emory W., and L. Bagnetto, Jr., to Phillips Petroleum Co. Dehydrogenation catalyst and process. 2,888,499, 5-26-59, Cl. 260-680.
- Pizer, Robert S.: See—  
Roberts, Aaron G., Crouse, and Pizer. 2,907,200.
- Pizzani, Valentine. Combined fish line sinker and chum dispenser. 2,906,055, 9-29-59, Cl. 43-44.99.
- Place, Charles E. S., deceased; I. Place, P. R. Trigg, Jr., and National Bank of Detroit, co-executors. Bolt having rolled grooves and recessed head to enhance uniform elongation. 2,895,368, 7-21-59, Cl. 85-1.
- Place, Clarence L. Tool rest. 2,888,786, 6-2-59, Cl. 51-220.
- Place, Daniel N. Mixing device. 2,896,925, 7-28-59, Cl. 259-134.
- Place, Isabel: See—  
Place, Charles E. S. 2,895,368.
- Place, James A., G. G. Thomas, and G. A. White, to British Nylon Spinners Ltd. Yarn and its manufacture. 2,914,906, 12-1-59, Cl. 57-157.
- Placek, Chester: See—  
Bible, Roy H., Jr., and Placek. 2,908,682.
- Plackett Closing Corp. of America: See—  
Dixon, Eric W. C., and Fowler. 2,909,136.
- Plagge, Vernon L., and W. A. Boyce, to Westinghouse Electric Corp. High pressure mercury vapor lamp and method. 2,901,646, 8-25-59, Cl. 313-17.
- Plambeck, Louis, Jr., to E. I. du Pont de Nemours and Co. Process for preparing relief images. 2,892,712, 6-30-59, Cl. 96-35.
- Plan Hold Corp.: See—  
Schneider, Oscar K. 2,869,210.
- Planchais, Georges M.: See—  
Bataille, Maurice C. B., and Planchais. 2,919,309.
- Planer, George V., and R. W. Windebank, to Sprague Electric Co. Ceramic capacitors. 2,883,290, 4-21-59, Cl. 106-39.
- Planer, George V., and R. W. Windebank, to Powers-Samas Accounting Machines Ltd. Motion transmitters. 2,916,920, 12-15-59, Cl. 74-37.
- Planfeldt, Arne: See—  
Björkman, Anders Å. V., Lindblad, and Planfeldt. 2,874,948.
- Plant, George R. G., to Speech Research For The Deaf Ltd. Frequency indicators. 2,915,589, 12-1-59, Cl. 179-1.
- Plant, John D., Jr. Method and apparatus for making wearing apparel. 2,903,704, 9-15-59, Cl. 2-169.
- Plant, Leland G., deceased; P. L. M. Plant, executrix. Means for evacuating cars of the hopper type. 2,889,943, 6-9-59, Cl. 214-64.2.



- Plant, Pattie L. M.: *See*—  
Plant, Leland G. 2,889,943.  
Plant Products Corp.: *See*—  
Martin, Warren S. 2,892,286.  
Plantas, Charles. Toolholder adapter. 2,918,291, 12-22-59, Cl. 279-102.  
Plante, Louis P., and M. Roy, to Page Belting Co. Check strap assemblies for looms. 2,884,961, 5-5-59, Cl. 139-166.  
Plante, Thomas W.: *See*—  
Bailey, William M., and Plante. 2,878,009.  
Plantinga, Oliver S.: *See*—  
Bird, William H., Plantinga, and Newsome. 2,899,337.  
Plapper, Jürgen: *See*—  
Heyden, Rudi, and Plapper. 2,913,304.  
Heyden, Rudi, Plapper, and Raab. 2,892,673.  
Heyden, Rudi, Plapper, and Schmitt. 2,890,096.  
Plas, Ralph J., to Blaw-Knox Co. Base paver. 2,888,864, 6-2-59, Cl. 94-46.  
Plaskett, Arthur F. G.: *See*—  
Armelin, Edouard R., and Plaskett. 2,881,681.  
Plasmadyne Corp.: *See*—  
Giannini, Gabriel M., and Blackman. 2,919,370.  
Plass, Curt H. G.: *See*—  
Gustafsson, Ragnar, and Plass. 2,886,246.  
Plasser, Franz, and J. Theurer. Track tamping machine. 2,872,878, 2-10-59, Cl. 104-12.  
Plasser, Franz, and J. Theurer. Track packing or tamping machine. 2,876,709, 3-10-59, Cl. 104-12.  
Plasser, Franz, and J. Theurer. Vertical adjustment means for tamping tool carrier of railroad ballast tamping machines. 2,883,941, 4-28-59, Cl. 104-12.  
Plasser, Franz, and J. Theurer. Track tamping machine. 2,915,018, 12-1-59, Cl. 104-12.  
Plastene Corp.: *See*—  
Cramer, Trevor K. 2,878,517.  
Cramer, Trevor K., and Chabotte. 2,891,283.  
Plastic Binding Corp.: *See*—  
Rowley, George A. 2,867,846.  
Plastic Wire & Cable Corp., The: *See*—  
Lilly, Joseph C. 2,869,316.  
Schaffhauser, William V. 2,910,524.  
Plastics, Inc.: *See*—  
Goldstein, Charles E. 2,918,099.  
Plastiform Co.: *See*—  
Blackmore, Fred N. 2,866,985.  
Plastomatic Corp.: *See*—  
Betner, Thomas E. 2,887,244.  
Plastray Corp.: *See*—  
Close, Robert H. 2,882,947.  
Jocelyn, Douglas L. 2,914,104.  
Platakis, Peter. Safety guard for saws. 2,880,769, 4-7-59, Cl. 143-159.  
Plati, John T.: *See*—  
Bevilacqua, Patsy F., Plati, and Wenner. 2,895,927.  
Plati, Nicholas A.: *See*—  
Hansen, Fred, and Plati. 2,914,188.  
Platow, Raymond C.: *See*—  
Doherty, William H., and Platow. 2,879,183.  
Platt, Blaine E., to Philco Corp. Mounting for electrical apparatus. 2,909,710, 10-20-59, Cl. 317-101.  
Platt, Catharine A. Sewing basket. 2,887,258, 5-19-59, Cl. 223-107.  
Platt, George J., to Paragon Electric Co. Method of motor manufacture. 2,908,965, 10-20-59, Cl. 29-155.5.  
Platt, James: *See*—  
Fisher, William T., and Platt. 2,869,910.  
Platt, John, to The Singer Mfg. Co. Driving devices for sewing and other machines. 2,874,583, 2-24-59, Cl. 74-231.  
Platt, John, to The Singer Mfg. Co. Spool holders for sewing machines. 2,900,941, 8-25-59, Cl. 112-218.  
Platt, John D.: *See*—  
La Bonia, Vincent, and Platt. 2,870,916.  
Platt, Leland H., L. H., Jr., and J. D. 2,867,066.  
Platt, John D., L. H., Jr., and L. H. Apparatus for closing flexible bags. 2,867,067, 1-6-59, Cl. 53-198.  
Platt & Labonia Co., The: *See*—  
La Bonia, Vincent, and Platt. 2,870,916.  
Platt, Leland H.: *See*—  
Platt, John D., L. H., Jr., and L. H. 2,867,067.  
Platt, Leland H., L. H., Jr., and J. D. Bag closing apparatus. 2,867,066, 1-6-59, Cl. 53-198.  
Platt, Leland H., Jr.: *See*—  
Platt, John D., L. H., Jr., and L. H. 2,867,067.  
Platt, Leland H., L. H., Jr., and J. D. 2,867,066.  
Platt, Raymond S.: *See*—  
Billings, Charles K., and Platt. 2,899,717.  
Platt, Stephen A. Wire coiling machine with rotating mandrel and coiling tools. 2,868,267, 1-13-59, Cl. 153-64.  
Platt, Stephen A. Travelling wire coil cutter. 2,869,640, 1-20-59, Cl. 164-43.  
Platt, Stephen A. Motion translating mechanism. 2,911,846, 11-10-59, Cl. 74-426.  
Platz, Elwood T., to I-T-E Circuit Breaker Co. Push-push wall switch. 2,880,290, 3-31-59, Cl. 200-152.  
Platz, Elwood T., to I-T-E Circuit Breaker Co. Interlock means for bus duct plug-in units. 2,888,529, 5-26-59, Cl. 200-50.  
Platz, Elwood T., to I-T-E Circuit Breaker Co. Indicator structure for circuit breakers. 2,905,795, 9-22-59, Cl. 200-167.  
Platz, Elwood T., and R. S. Davis, to I-T-E Circuit Breaker Co. Circuit breaker trip mechanism. 2,874,247, 2-17-59, Cl. 200-106.  
Platzer, Hans. Fluid metering device. 2,869,515, 1-20-59, Cl. 121-48.  
Platzer, Norbert: *See*—  
Barkhuff, Raymond A., Jr., and Platzer. 2,911,382.  
Plaut, Hermann F.: *See*—  
Clarke, Frederick R. M., and Plaut. 2,911,182.  
Plavén, Ola, to Maskin Aktiebolaget Plavia. Process and an apparatus for separating solids from suspensions of solids in fluids. 2,913,114, 11-17-59, Cl. 209-273.  
Plax Corp.: *See*—  
Canfield, Robert W. 2,914,799.  
Freeman, Lawrence W. 2,913,139.  
Gardner, Edward B., and Nielson. 2,892,733.  
Pleak, Horace C., to Sylvania Electric Products Inc. Electron tube lead adapter. 2,869,104, 1-13-59, Cl. 339-145.  
Pleasure, Myron, to Pitometer Log Corp. Radar signal simulator. 2,872,673, 2-3-59, Cl. 343-17.7.  
Pledger, Huey, Jr.: *See*—  
Kundiger, Donald G., and Pledger. 2,891,064.  
Tousignant, William F., and Pledger. 2,894,935.  
Plehal, Dan R.: *See*—  
Maxwell, Ira C., Langen, and Plehal. 2,913,155.  
Plehn, Henry M. Girdle. 2,893,397, 7-7-59, Cl. 128-541.  
Plehn, Henry M. Brassiere. 2,912,985, 11-17-59, Cl. 128-489.  
Plechner, Sophie L.: *See*—  
Berger, Frank M., and Plechner. 2,889,253.  
Pleitgen, Max G., and E. M. Klaus. Beam variable in length. 2,916,111, 12-8-59, Cl. 189-37.  
Plemich, John J.: *See*—  
Cafcas, Thomas H., and Plemich. 2,914,477.  
Plemich, John J., to Standard Oil Co. Non-staining aluminum rolling lubricant. 2,899,390, 8-11-59, Cl. 252-56.  
Plemmons, Howell T. Rotatable point assembly. 2,912,531, 11-10-59, Cl. 200-31.  
Plendl, Stephen J. Portable floor construction. 2,882,560, 4-21-59, Cl. 20-8.  
Plenty and Son Ltd.: *See*—  
Shoosmith, Guy T. 2,895,423.  
Pleshek, Lumir J.: *See*—  
Nul, Fay E., and Pleshek. 2,911,167.  
Pleska, Paul, to General Motors Corp. Transport dolly. 2,891,331, 6-23-59, Cl. 37-124.  
Plessner, Edgar W., to Philco Corp. Method of securing electrical connections to printed wiring panels. 2,916,805, 12-15-59, Cl. 29-155.5.  
Plessey Co. Ltd., The: *See*—  
Angold, Edward B. 2,902,565.  
Booth, Douglas G., and Wood. 2,874,764.  
Burden, James H. 2,894,238.  
Da Costa, Harry. 2,882,059.  
Da Costa, Harry. 2,903,898.  
Da Costa, Harry, and Lee. 2,896,953.  
Hilton, John L. 2,911,007.  
Huffadine, John B., and Sanders. 2,901,442.  
Kerslake, Cyril J. 2,901,720.  
Moore, Norman C., and Huffadine. 2,893,112.  
Page, Victor A. W., and Clark. 2,915,728.  
Say, Alan W. 2,887,064.  
Sharp, Leonard W. D., and Blight. 2,874,253.  
Simpson, Anthony W. 2,870,433.  
Plessner, Karl W., and R. West, to British Dielectric Research Ltd. Ceramic dielectric materials. 2,918,381, 12-22-59, Cl. 106-39.  
Pletka, Robert E. Power driving units. 2,906,357, 9-29-59, Cl. 180-15.  
Pletsch, Wilhelm: *See*—  
Schlieker, Willy H., Kunz, and Pletsch. 2,912,563.  
Pleuger & Co.: *See*—  
Pleuger, Friedrich W., and Schneider. 2,876,370.  
Pleuger, Friedrich W. Process for the exploitation of petroleum deposits. 2,871,944, 2-3-59, Cl. 166-45.  
Pleuger, Friedrich W., and J. C. Grober, to F. W. Pleuger. Diaphragm piston pump. 2,869,474, 1-20-59, Cl. 103-152.  
Pleuger, Friedrich W., and H. Schneider, to Pleuger & Co. Submersible electric motor. 2,876,370, 3-3-59, Cl. 310-87.  
Pleuger K.G.: *See*—  
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Plews Mfg. Co.: *See*—  
Liljemark, Frank H. 2,899,017.  
Pleyte, Jerry, R. E. Himelick, and J. K. Dale, to The Upjohn Co. Therapeutic composition and process. 2,888,382, 5-26-59, Cl. 167-82.  
Plice, William A.: *See*—  
Knowles, Hugh S., and Plice. 2,912,522.  
Plice, William A., and H. S. Knowles, to United States of America, Army. Capacitor charging system. 2,885,622, 5-5-59, Cl. 320-1.  
Plocki, Peter H., and G. J. Holtz, to Belvedere Space Saving Products, Inc. Collapsible shoe rack. 2,901,117, 8-25-59, Cl. 211-38.  
Ploegert, Anatol T., to The Wittemann Co., Inc. Compressor for gaseous materials. 2,880,927, 4-7-59, Cl. 230-201.  
Plotz, Theodor, to Ferdmühle Papier-Und Zellstoffwerke, A.G. Process of carrying out chemical reactions. 2,915,385, 12-1-59, Cl. 75-84.5.  
Ploger, Gustav. Reversible and continuously variable torque converter. 2,877,667, 3-17-59, Cl. 74-751.



- Plomb Tool Co., The: *See*—  
Radcliffe, Charles A. 2,868,049.
- Ploran, William J., to Globe-Union Inc. Stator unit for fly-wheel magnetos. 2,912,608, 11-10-59, Cl. 310-153.
- Plotnick, Irwin J. Artificial denture. 2,896,324, 7-28-59, Cl. 32-2.
- Plouffe, Charles F. Signaling device for ice fishing apparatus. 2,876,579, 3-10-59, Cl. 43-17.
- Plouffe, Robert L., Jr., to International Telephone and Telegraph Corp. Pulse communication system. 2,881,256, 4-7-59, Cl. 179-150.
- Plouffe, Robert L., Jr., to International Telephone and Telegraph Corp. Control circuit. 2,885,476, 5-5-59, Cl. 178-69.
- Plough, Harold. Hair cutting tool. 2,866,984, 1-6-59, Cl. 7-14.1.
- Plough, Howard V.: *See*—  
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- Ploughman, Leonard K.: *See*—  
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- Plsek, Vladimir, to Vyzkumný a zkušební letecký ústav. System for adjusting the orientation of a gyroscope. 2,886,972, 5-19-59, Cl. 74-5.44.
- Pluckebaum, Jerome J., to Montgomery Printing Co. Loose-leaf retaining device. 2,878,815, 3-24-59, Cl. 129-23.
- Plueddemann, Edwin P., to Allied Chemical Corp. Titanated alkoxy silanes. 2,888,475, 5-26-59, Cl. 260-429.5.
- Pluess-Staufner (North American) Inc.: *See*—  
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- Plumb, Harold B. Cam lock tractor hitch. 2,898,127, 8-4-59, Cl. 280-478.
- Plumer, Joseph B., to Pemco Corp. Method of and apparatus for discharging continuous smelters. 2,918,754, 12-29-59, Cl. 49-55.
- Plummer, William R. Fluid operated cylinder and piston assembly. 2,910,047, 10-27-59, Cl. 121-38.
- Plumstead, James A.: *See*—  
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- Plunkett, Gilman, to Friden, Inc. Short-cut multiplying mechanism. 2,886,238, 5-12-59, Cl. 235-63.
- Plunkett, Joseph T.: *See*—  
Hebestreet, Elmer W., and Plunkett. 2,877,599.
- Plunkett, Robert, to General Electric Co. Frictionless suspension means for rotary elements. 2,901,703, 8-25-59, Cl. 324-155.
- Plust, Heinz G., to Aktiengesellschaft Brown, Boveri & Cie. Process for the production of high-purity gallium. 2,898,278, 8-4-59, Cl. 204-157.
- Plymale, Jay L. Magnetic support. 2,876,359, 3-3-59, Cl. 250-58.
- Plymouth Cordage Co.: *See*—  
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- Plymouth Industrial Products, Inc.: *See*—  
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- Simmons, Aldred J., and Sohn. 2,909,282.
- Plywood Research Foundation: *See*—  
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- Pneumafil Corp.: *See*—  
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- Sanborn, Walter F., and MacDuff. 2,917,266.
- Pneuma-Serve Ltd.: *See*—  
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- Pneumatic Pile Corp.: *See*—  
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- Cobi, Walter H. 2,881,593.
- Pneumatic Scale Corp., Ltd.: *See*—  
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- Howard, Thomas P. 2,868,375.
- Newey, William H., and Sterling. 2,899,790.
- Newey, William H., and Sterling. 2,905,363.
- Vergobbi, John G. 2,890,047.
- Vergobbi, Robert W. 2,876,608.
- Whelan, James P. 2,869,718.
- Whelan, James P. 2,879,882.
- Whelan, James P. 2,895,598.
- Whelan, James P. 2,915,773.
- Pobog, Mathew: *See*—  
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- Poch, Alfred B., to Torit Mfg. Co. Separators. 2,905,266, 9-22-59, Cl. 183-37.
- Pochan, André: *See*—  
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- Pochan, Raymond and A. Apparatuses for measuring the density of liquids. 2,878,676, 3-24-59, Cl. 73-444.
- Pochmerski, Dennis: *See*—  
Guttwein, Gunter K., and Pochmerski. 2,919,398.
- Pochynok, Dmytro. Heel support. 2,903,802, 9-15-59, Cl. 36-8.5.
- Pockman, Lloyd A.: *See*—  
King, Dale F., and Pockman. 2,910,044.
- Podbielniak, Walter J.,  $\frac{1}{2}$  to W. G. Podbielniak. Centrifugal countercurrent contacting method and apparatus. 2,878,993, 3-24-59, Cl. 233-15.
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- Podbielniak, Wladzia G.: *See*—  
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- Podgor, Joseph E. Silk screen printing machine. 2,881,700, 4-14-59, Cl. 101-126.
- Podlesak, John A. Flush type door lock. 2,916,905, 12-15-59, Cl. 70-150.
- Podnos, Selim S.: *See*—  
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- Podolak, Edward, and M. Strasberg, to United States of America, Navy. Calibrator for underwater hydrophones. 2,918,651, 12-22-59, Cl. 340-8.
- Podolan, Edward G.: *See*—  
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- Podoloff, Richard H., to International Instruments, Inc. Electrical measuring instruments. 2,871,450, 1-27-59, Cl. 324-154.
- Podschus, Ernst, and O. Kollmann, to Farbenfabriken Bayer Akt. Alkaline-earth metal silicates. 2,888,322, 5-26-59, Cl. 23-110.
- Podufal, Peter E., to Universal Lubricating Systems, Inc. Arrow tip. 2,904,338, 9-15-59, Cl. 273-106.5.
- Poe, Harry E.: *See*—  
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- Poebler, Guenter, and O. Stichnoth, to Badische Anilin- & Soda-Fabrik Akt. Continuous production of cyclohexanol and cyclohexanone. 2,879,295, 3-24-59, Cl. 260-586.
- Poehlman, William J.: *See*—  
Af Kleen, Nils E., and Poehlman. 2,909,041.
- Poellnitz, William A., and R. V. Klint, to General Electric Co. Damping turbine buckets. 2,916,257, 12-8-59, Cl. 253-77.
- Poelman, Armand J. J. Filter device and method for making a filter device. 2,915,426, 12-1-59, Cl. 154-93.
- Poeschl, Rudolf, to Hope Rubber Co., Inc. Endless belt having connected end strips in a step arrangement. 2,883,871, 4-28-59, Cl. 74-231.
- Poethig, Robert E.: *See*—  
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- Poffenberger, Glenn L. Boom structure. 2,868,392, 1-13-59, Cl. 212-8.
- Pohatcong Hosiery Mills, Inc.: *See*—  
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- Pohl, Carl, and H. R. Doty. Control apparatus for electric typewriters. 2,914,160, 11-24-59, Cl. 197-114.
- Pohl, Franz: *See*—  
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- Sennewald, Kurt, Pohl, Vogt, Meininger, Meyer, Glaser, and Steil. 2,918,141.
- Pohl, Franz, to Knapsack-Griesheim Akt. Purification of vinyl chloride and a process relating thereto. 2,875,586, 3-3-59, Cl. 62-12.
- Pohl, Frederic. Optical system for viewing pictures. 2,884,833, 5-5-59, Cl. 88-28.93.
- Pohl, Walter J.: *See*—  
Rogers, Douglas C., and Pohl. 2,871,392.
- Pohland, Albert, to Eli Lilly and Co. 4-phenylpiperidines and their preparation. 2,904,550, 9-15-59, Cl. 260-294.3.
- Pohlemann, Heinz: *See*—  
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- Pohlemann, Heinz, H. Stummeyer, and H. Adolphi, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 0,0-dialkylphosphoric acid esters of substituted halogen-butenols. 2,919,288, 12-29-59, Cl. 260-461.
- Pohlenz, Jack B.: *See*—  
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- Kassel, Louis S., and Pohlenz. 2,902,413.
- Pohlenz, Jack B., to Universal Oil Products Co. Liquid-fluid contactor. 2,872,295, 2-3-59, Cl. 23-270.5.
- Pohlenz, Jack B., to Universal Oil Products Co. Liquid-fluid contactor. 2,895,809, 7-21-59, Cl. 23-270.5.
- Pohlman, Reimar, to Dr. Lehfeldt & Co., G.m.b.H. Ultrasonic means for changing the homogeneity of mixtures. 2,896,922, 7-28-59, Cl. 259-1.
- Pohlmann, Heinrich: *See*—  
Schlichenmaier, Hans, and Pohlmann. 2,882,272.
- Pohlmeyer, Ferdinand J.: *See*—  
Bregi, Benjamin F., and Pohlmeier. 2,882,798.
- Pohr, Jack. Cutter and trimmer blade. 2,917,826, 12-22-59, Cl. 30-347.
- Poincet, Francois-Xavier: *See*—  
Alhéritière, Louis, and Poincet. 2,878,167.
- Poindexter, Franklin E., and F. W. Lowe. Apparatus for low temperature distillation of carbonaceous materials. 2,903,400, 9-8-59, Cl. 202-109.
- Poindexter, Lawrence C.: *See*—  
Covault, Darrell W., and Poindexter. 2,919,338.
- Pointer, Robert W. Marine float. 2,879,735, 3-31-59, Cl. 114-5.
- Poirette Corsets, Inc.: *See*—  
Baer, Berta. 2,884,928.
- Poirier, Ernest A. Suction box extraction apparatus. 2,877,693, 3-17-59, Cl. 92-51.
- Poirier, Roger H. Current measuring circuit. 2,917,149, 12-15-59, Cl. 194-9.
- Poirier, Victoria. Washing machine. 2,910,855, 11-3-59, Cl. 68-22.
- Poitras, Edward J. Steam sterilization method. 2,868,616, 1-13-59, Cl. 21-56.
- Poitras, Edward J., to Millipore Filter Corp. Filtration and incubation unit. 2,879,207, 3-24-59, Cl. 195-139.
- Pokolic, Ivan. Still picture attachment for moving picture projectors. 2,869,421, 1-20-59, Cl. 88-28.
- Pokorny, Frank J.: *See*—  
Clausing, Challiss I., and Pokorny. 2,905,865.



- Pokorny, John M.: *See*—  
 Pokorny, Louis, Jr. 2,911,655.  
 Pokorny, Louis: *See*—  
 Pokorny, Louis, Jr. 2,911,655.  
 Pokorny, Louis, Jr.,  $\frac{1}{2}$  to L. Pokorny and  $\frac{1}{2}$  to J. M. Pokorny. Combination chair and folding bed. 2,911,655, 11-10-59, Cl. 5-59.  
 Pokras, Adolph, to Will Ross, Inc. Identification band. 2,911,743, 11-10-59, Cl. 40-21.  
 Pokryike, John A., to W. D. Allen Mfg. Co. Storage cabinet for fire hoses. 2,871,083, 1-27-59, Cl. 312-242.  
 Polách, Karel, to Zapadomoravské strojírný, národní podnik. Apparatus for feeding and changing of yarns in circular knitting machines. 2,885,874, 5-12-59, Cl. 66-140.  
 Polack, Joseph A.: *See*—  
 Ross, James F., Turpin, and Polack. 2,878,891.  
 Watts, Rhea N., and Polack. 2,911,353.  
 Polack, Joseph A., to Esso Research and Engineering Co. Quenching fluid coker vapors. 2,890,999, 6-16-59, Cl. 208-127.  
 Polák, Jaroslav: *See*—  
 Němčíka, Zdeněk, and Polák. 2,906,570.  
 Polanco, Jose P. Yoke-sleeve for waterproof garments. 2,880,421, 4-7-59, Cl. 2-87.  
 Poland, Donald R. Newspaper vending machine. 2,904,216, 9-15-59, Cl. 221-90.  
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 Poland, William L., to Schlumberger Well Surveying Corp. Computer. 2,912,165, 11-10-59, Cl. 235-193.  
 Polanin, Walter R.: *See*—  
 Andrzejewski, Matthew S., and Polanin. 2,911,069.  
 Tack, Carl E., and Polanin. 2,877,870.  
 Polanin, Walter R., to American Steel Foundries. Rotor brake. 2,873,004, 2-10-59, Cl. 188-59.  
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 Polansky, Raymond: *See*—  
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 Polarad Electronics Corp.: *See*—  
 Jaffe, D. Lawrence. 2,887,655.  
 Jaffe, David L. 2,874,288.  
 Jaffe, David L. 2,888,653.  
 Jaffe, David L. 2,907,962.  
 Jaffe, David L., and Ross. 2,911,564.  
 Klipper, Stanley. 2,895,017.  
 Odessy, Paul H. 2,904,804.  
 Skwarek, Frank J. 2,904,747.  
 Wheeler, Harold A. 2,907,032.  
 Polarizers (United Kingdom) Ltd.: *See*—  
 Ashby, David G. and R. M. 2,908,025.  
 Polaroid Corp.: *See*—  
 Bartlett, Philip D. 2,880,657.  
 Bartlett, Philip D., Bishop, Whittier, and Wright. 2,873,657.  
 Bing, Herbert A., and Lothrop. 2,910,573.  
 Bing, Herbert A., Wareham, and Wolff. 2,873,659.  
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 Cohler, Marilyn R., and Simon. 2,892,710.  
 Cooper, Dexter P., Jr. 2,909,696.  
 Eburn, William H., Jr.: 2,887,028.  
 Eburn, William H., Jr. 2,909,977.  
 Eloranta, Vaito K. 2,887,030.  
 Erlichman, Irving. 2,882,155.  
 Fairbank, Murry N. 2,877,699.  
 Fairbank, Murry N. 2,903,950.  
 Fairbank, Murry N. 2,915,393.  
 Grey, David S. 2,914,997.  
 Haas, Howard C. 2,898,231.  
 Hanlon, Albert J. 2,898,447.  
 Land, Edwin H. 2,873,658.  
 Land, Edwin H. 2,874,045.  
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 Land, Edwin H., and Eloranta. 2,873,660.  
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 Land, Edwin H., and McCune. 2,898,208.  
 Lothrop, John W., and Rolando. 2,871,777.  
 Rogers, Howard G. 2,909,430.  
 Rosenblum, Louis. 2,892,927.  
 Ryan, William H. 2,887,007.  
 Ryan, William H., and Walworth. 2,868,077.  
 Ryan, William H., and Walworth. 2,892,382.  
 Walworth, Vivian K., and Ryan. 2,892,383.  
 Wareham, Richard R. 2,869,444.  
 Wareham, Richard R. 2,878,736.  
 Whittier, Sidney B. 2,877,697.  
 Wolff, Otto E. 2,903,829.  
 Polasek, Karl, to Aero Material AB. Alternating current generator for constant frequency. 2,886,762, 5-12-59, Cl. 322-24.  
 Polasek, Karl, to Aero Material AB. Control system for constant frequency induction alternator. 2,887,645, 5-19-59, Cl. 322-31.  
 Polay, Harvey H. Book ends. 2,872,046, 2-3-59, Cl. 211-42.  
 Polchinski, Stanley, and G. J. Rusciano. Surface door latch. 2,899,228, 8-11-59, Cl. 292-169.  
 Polchow, Charlie J. Work-holding device. 2,880,772, 4-7-59, Cl. 144-288.  
 Polese, James P., to Eitel-McCullough, Inc. Ceramic electron tube. 2,880,349, 3-31-59, Cl. 313-244.  
 Polese, Joseph T.: *See*—  
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 Poley, George M. Tobacco container. 2,890,809, 6-16-59, Cl. 217-12.  
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 Debat, Jacques, and Polgar. 2,900,100.  
 Polglase, Burton C., Jr.: *See*—  
 Harless, Charles A., and Polglase. 2,915,008.  
 Polglase, Burton C., Jr., E. W. Worthington, and C. H. Ringe, to R. Hoe & Co., Inc. Magazine press plate cylinders. 2,909,999, 10-27-59, Cl. 101-378.  
 Polglase, William J.: *See*—  
 Darrach, Marvin, and Polglase. 2,891,091.  
 Polhemus, John K., to General Aniline & Film Corp. Adapter for photoflash lamps. 2,884,610, 4-28-59, Cl. 339-45.  
 Polhemus, John K., to General Aniline & Film Corp. Testing device for cameras and flash amps. 2,901,692, 8-25-59, Cl. 324-51.  
 Polhemus, Von D., to General Motors Corp. Interconnected torsion bar suspension. 2,906,543, 9-29-59, Cl. 280-104.  
 Polich, Anthony, to Sabre Metal Products, Inc. Gooseneck drawbar. 2,878,033, 3-17-59, Cl. 280-423.  
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 Conte, Joseph F., and Polidor. 2,887,827.  
 Polimerou, Lazarus G. Function generator employing phototubes. 2,887,587, 5-19-59, Cl. 250-217.  
 Pollak, Bernard L., to General Motors Corp. Track shoe assembly. 2,883,242, 4-21-59, Cl. 305-10.  
 Politi, Edward Y., and M. T. Williams, to Lockheed Aircraft Corp. Phase shift oscillator. 2,891,159, 6-16-59, Cl. 250-36.  
 Politis, Charles J., to United States Products Corp. Method and apparatus for forming hollow plastic articles. 2,891,280, 6-23-59, Cl. 18-19.  
 Polito, Anthony J., to General Electric Co. Method of detecting leaks and testing media therefor. 2,878,392, 3-17-59, Cl. 250-71.  
 Polits, William J.: *See*—  
 Kobbe, John R., and Polits. 2,883,619.  
 Politte, Cecil A. Emergency brake safety lock. 2,870,874, 1-27-59, Cl. 188-67.  
 Politzer, Alfred: *See*—  
 Costa, Joseph L., Glauber, Morse, Politzer, and Sixthor. 2,890,865.  
 Polk, Donald S.: *See*—  
 Carter, Leon S. 2,897,506.  
 Polk, Irving J.: *See*—  
 Christofilos, Nicholas C., and Polk. 2,874,326.  
 Polk, Louis F., and J. H. Straw, to The Sheffield Corp. Gaging apparatus. 2,878,574, 3-24-59, Cl. 33-174.  
 Polk, Walter B.: *See*—  
 Mathis, Clyde H., and Polk. 2,877,866.  
 Polkosky, Joseph J., and A. M. Splinter, to Radio Corp. of America. Electron multipliers. 2,881,343, 4-7-59, Cl. 313-104.  
 Polkosnik, Bernard L., to Ever Ready Calendar Mfg. Co. Label inserting apparatus. 2,906,425, 9-29-59, Cl. 216-9.  
 Poll, Harry F., to Union Oil Co. of California. Process for catalytic desulfurization and reforming of cracked naphthas. 2,908,626, 10-13-59, Cl. 208-54.  
 Pollack, Maxwell A. Making alpha-chloroacrylic compounds. 2,870,193, 1-20-59, Cl. 260-465.7.  
 Pollack, Maxwell A. Synthesis of amino acids. 2,870,201, 1-20-59, Cl. 260-534.  
 Pollak, Joseph, Corp.: *See*—  
 Hasselbaum, Oscar H. 2,902,646.  
 Pollak, Peter I., to Merck & Co., Inc. Chemical compounds and processes of preparing the same. 2,904,551, 9-15-59, Cl. 260-295.  
 Pollak, Philip, Jr., and E. J. Lopes, to Emerson Radio & Phonograph Corp. Time stamp changing mechanism for mail cancelling systems or the like. 2,911,279, 11-3-59, Cl. 346-141.  
 Pollard, Charles E., Jr., to Bell Telephone Laboratories, Inc. Switch. 2,868,926, 1-13-59, Cl. 200-112.  
 Pollard, Harold J., and W. A. Baker, to Bristol Aircraft Ltd. Containers for attachment to the exterior of aircraft. 2,895,635, 7-21-59, Cl. 220-5.  
 Polleck, Vincent A., and L. Wright, to Santay Corp. Stamping apparatus. 2,902,924, 9-8-59, Cl. 101-8.  
 Pollet, René M. A. J.: *See*—  
 Remane, Roger. 2,879,925.  
 Remané, Roger. 2,883,090.  
 Polley, Charles R. Chain type automatic poultry feeder. 2,918,037, 12-22-59, Cl. 119-52.  
 Polley, Eugene J., to Zenith Radio Corp. Control system. 2,903,575, 9-8-59, Cl. 250-20.



- Polleys, Owen F., to The Kaman Aircraft Corp. Mechanism for adjusting throttles of a plurality of engines. 2,910,886, 11-3-59, Cl. 74-480.
- Polleys, Richard W., to John W. Bolton & Sons, Inc. Pulping apparatus and method. 2,917,245, 12-15-59, Cl. 241-15.
- Polia, Andrew A. Axially bolted pipe coupling with keyed flanges. 2,867,454, 1-6-59, Cl. 285-368.
- Pollingue, Daniel J., Jr. : *See*—  
Tietig, Rudolph, Jr., and Pollingue. 2,872,180.
- Pollitz, Harold C., to Iowa Mfg. Co. of Cedar Rapids, Iowa. Multi-stage roll crusher. 2,879,950, 3-31-59, Cl. 241-143.
- Pollitz, Harold C., to Iowa Mfg. Co. of Cedar Rapids. Surfacing machine control means. 2,911,892, 11-10-59, Cl. 94-46.
- Pollitz, Harold C., to Iowa Mfg. Co. of Cedar Rapids, Iowa. Screed compensating and adjusting means. 2,914,994, 12-1-59, Cl. 94-45.
- Pollitz, Harold C., E. O. Spangler, and N. H. Kessler, to Iowa Mfg. Co. of Cedar Rapids, Iowa. Roll crusher for simultaneous crushing of large and small pieces of material. 2,879,952, 3-31-59, Cl. 241-235.
- Pollitzer, Ernest L., to Universal Oil Products Co. Solvent extraction of hydrocarbon mixtures. 2,906,707, 9-29-59, Cl. 208-325.
- Pollman, Andrew G. Blade guide and slice thickness gauge. 2,877,552, 3-17-59, Cl. 30-284.
- Pollmann, Max, to Kurt Korber & Co. K.G. Conveyor devices for cigarettes or the like. 2,902,140, 9-1-59, Cl. 198-25.
- Pollmann, Max, to Kurt Korber & Co. K.G. Storing and feeding apparatus for cigarette machines or the like. 2,902,186, 9-1-59, Cl. 221-10.
- Pollmann, Max, to Kurt Korber & Co. K.G. Transfer mechanism for cigarettes. 2,917,156, 12-15-59, Cl. 198-24.
- Pollock, Glenn E., Jr., H. A. Jett, T. Gerwitz, and B. L. Scallet, to Anheuser-Busch, Inc. Filtration process for starch. 2,913,359, 11-17-59, Cl. 127-71.
- Pollock, Gordon J., to The E. F. Hauserman Co. Door lock. 2,895,322, 7-21-59, Cl. 70-153.
- Pollock, Helen : *See*—  
Rachlin, Max. 2,890,664.
- Pollock, Herbert C., to General Electric Co. Logging apparatus. 2,867,728, 1-6-59, Cl. 250-83.3.
- Pollock, John S., to Eastman Kodak Co. Photographic color printer. 2,891,443, 6-23-59, Cl. 88-24.
- Pollock, John S., and W. R. Amann, to Eastman Kodak Co. Interchangeable mask arrangement for photographic printers. 2,895,396, 7-21-59, Cl. 95-79.
- Pollock, Joseph A. Snow shovel. 2,896,993, 7-28-59, Cl. 294-54.
- Pollock, Latham : *See*—  
Mittell, Frank C., Chase, Matey, Pollock, Dawson, and Bower. 2,902,696.
- Pollock, Lyle W. : *See*—  
Pennington, Edward N., Pollock, Wood, Andrews, and Boyer. 2,883,271.
- Wood, James Q., and Pollock. 2,867,508.
- Pollock, Lyle W., to Phillips Petroleum Co. Process and apparatus for simultaneously pelleting powdered materials and classifying same. 2,872,300, 2-3-59, Cl. 23-314.
- Pollock, Lyle W., to Phillips Petroleum Co. Pelleting process and apparatus. 2,880,519, 4-7-59, Cl. 34-8.
- Pollock, Lyle W., to Phillips Petroleum Co. Controlling mass flow rate of particulate material in a pneumatic system. 2,898,158, 8-4-59, Cl. 302-53.
- Pollock, Lyle W., to Phillips Petroleum Co. Hydrocarbon cracking furnace and its operation. 2,917,564, 12-15-59, Cl. 260-683.
- Pollock Paper Corp. : *See*—  
Jensen, Thormod. 2,883,819.
- Pollock, Randolph R. Pressure seal for vulcanizing pneumatic tires. 2,874,415, 2-24-59, Cl. 18-45.
- Pollock, Robert S. Cooled turbine blade. 2,888,243, 5-26-59, Cl. 253-39.15.
- Pollock, Robert T. Method and apparatus for improving diesel fuel ignition quality. 2,915,054, 12-1-59, Cl. 123-187.5.
- Pollock, Roger A., to United Shoe Machinery Corp. Solvent activatable stiffener material. 2,887,400, 5-19-59, Cl. 117-28.
- Pollock, Samuel C. : *See*—  
Lelli, Joseph L., and Pollock. 2,897,003.
- Pollock, Samuel C., to General Motors Corp. Attachment of convertible top fabric to side rail. 2,893,782, 7-7-59, Cl. 296-107.
- Pollock, William E., to Librascope, Inc. Multi-turn hunting tooth stop. 2,902,876, 9-8-59, Cl. 74-414.
- Polmanteer, Keith E. : *See*—  
Konkle, George M., McHard, and Polmanteer. 2,890,188.
- Polmanteer, Keith E., to Dow Corning Corp. Siloxane rubber tire. 2,897,869, 8-4-59, Cl. 152-330.
- Polmanteer, Keith E., to Dow Corning Corp. Adhesive composition. 2,898,224, 8-4-59, Cl. 106-287.
- Polo, Louis, to Radios S. A. Vacuum cleaners. 2,871,975, 2-3-59, Cl. 183-21.
- Polomski, John B. : *See*—  
Holdeman, John W., Masko, Polomski, and Whelpley. 2,895,344.
- Polomski, John B., to Borg-Warner Corp. Transmission. 2,882,756, 4-21-59, Cl. 74-754.
- Polomski, John B., to Borg-Warner Corp. Hydraulic controls for transmission. 2,899,834, 8-18-59, Cl. 74-472.
- Polovitch, Michael. Auxiliary safety braking attachment for motor vehicles. 2,871,986, 2-3-59, Cl. 188-5.
- Polson, Olien, and T. J. Nelson. Window construction. 2,890,501, 6-16-59, Cl. 20-42.
- Polster, Norman E., to Leeds and Northrup Co. Light sources for spectrograph systems. 2,895,078, 7-14-59, Cl. 315-11.
- Polster, William E. : *See*—  
Howe, Conrad L., and Polster. 2,888,587.
- Polstra, Charles R. Bumper attachment. 2,884,260, 4-28-59, Cl. 280-502.
- Poltorak, Emil J., to Johns-Manville Corp. Gaskets and method of making the same. 2,902,305, 9-1-59, Cl. 288-11.
- Poltorak, Emil J., and D. H. Johns, to Johns-Manville Corp. Gaskets. 2,882,082, 4-14-59, Cl. 288-11.
- Polumbus, E. A., Jr. : *See*—  
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- Poly Choke Co., Inc. The : *See*—  
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- Grahn, Arne Y. 2,888,769.
- Polychrome Corp. : *See*—  
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- Cohn, Bernard. 2,882,154.
- Poly-Cut Corp. : *See*—  
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- Polydoroff, Wladimir J. Ferromagnetic antenna systems. 2,870,442, 1-20-59, Cl. 343-787.
- Polye, William R., to Bendix Aviation Corp. Heated thermostat. 2,878,351, 3-17-59, Cl. 201-63.
- Polyfab Co. : *See*—  
Lingenfelter, Daniel J., Grover, and Forbes. 2,878,849.
- Polymer Corp. Ltd. : *See*—  
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- Finigan, Charles M., and Spehar. 2,884,474.
- Flemming, Norbert A., and Montross. 2,874,412.
- Kearns, William J. L. 2,888,333.
- Kearns, William J. L. 2,911,453.
- Lewis, Edmund P., Skelton, and Cochrane. 2,916,361.
- Nicholl, Christopher I. H. 2,916,360.
- Reilly, Park M., Lewis, and Kearns. 2,884,473.
- Rush, Ian C., and Finigan. 2,886,613.
- Sevenpiper, Ross. 2,875,566.
- Poly-Seal Corp. The : *See*—  
Robineau, Doria N. 2,913,017.
- Polytechnic Institute of Brooklyn : *See*—  
Bieber, Harold H., Bruins, and Gregor. 2,884,387.
- Carlin, Herbert J. 2,899,640.
- Carlin, Herbert J. 2,899,650.
- Polytechnic Research & Development Co., Inc. : *See*—  
Berger, Christian D. 2,912,957.
- Polyzou, James, and J. H. Brundage, to International Telephone and Telegraph Corp. Discriminator circuit. 2,906,873, 9-29-59, Cl. 250-27.
- Polyzou, James, and J. L. Jatlow, to International Telephone and Telegraph Corp. Signal control system. 2,913,711, 11-17-59, Cl. 340-253.
- Polzin, Winfred J., to Will Ross, Inc. Identification bracelet. 2,871,592, 2-3-59, Cl. 40-21.
- Pomerantz, Reuben, E. F. Degering, and T. Hasselstrom. Method of packaging and treating articles. 2,904,392, 9-15-59, Cl. 21-54.
- Pomeroy, Chester M. : *See*—  
Douglass, John J., and Pomeroy. 2,916,995.
- Pomeroy, Richard C., to Bell Telephone Laboratories, Inc. Proportional amplitude discriminator. 2,870,328, 1-20-59, Cl. 250-27.
- Pomeroy, S. H., Co., Inc. : *See*—  
Knebel, Herman C. 2,876,506.
- Knebel, Herman C. 2,892,517.
- Knebel, Herman C. 2,896,753.
- Walsh, William L. 2,912,077.
- Pomeroy, Sawyer M., to The W. S. Tyler Co. Woven structural material. 2,874,730, 2-24-59, Cl. 139-425.
- Pomeroy, Sawyer M., to The W. S. Tyler Co. Illuminated ceiling. 2,886,697, 5-12-59, Cl. 240-9.
- Pomfrett, John M., and F. Jenne, Jr., to General Electric Co. Arc tube mount. 2,918,592, 12-22-59, Cl. 313-25.
- Pommer, Dennis L. : *See*—  
Carlson, Carl A., Pommer, and Reiten. 2,900,775.
- Pommer, Dennis L., to Foley Mfg. Co. Grass catcher. 2,887,839, 5-26-59, Cl. 56-202.
- Pommer, Horst : *See*—  
Sarnecki, Wilhelm, and Pommer. 2,905,717.
- Pommer, Horst, to Badische Anilin- & Soda Fabrik Akt. Production of conjugated-unsaturated aldehyde carboxylic acid esters. 2,894,011, 7-7-59, Cl. 260-410.9.
- Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of vitamin A and vitamin A esters. 2,898,368, 8-4-59, Cl. 260-488.
- Pommer, Horst, and G. Wittig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of compounds of the vitamin A series. 2,917,523, 12-15-59, Cl. 260-410.9.
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- Pommier, Leonel J. Check valve. 2,877,793, 3-17-59, Cl. 137-514.7.
- Pomona Foundry, Inc. : *See*—  
Huisking, Joseph C. 2,897,949.
- Pompeo, George C., to American Optical Co. Ophthalmic tool device. 2,884,153, 4-28-59, Cl. 218-14.



- Pomper, Anthony W., and C. J. Waechter, to John Waldron Corp. Transverse web cutting apparatus having sheet delivery mechanism using timed vacuum belts. 2,895,552, 7-21-59, Cl. 164-68.
- Pomper, Victor, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Hydraulic control systems in particular for operating a tractor rock shaft. 2,886,948, 5-19-59, Cl. 60-52.
- Pompilio, Eugene. Escape ladders. 2,874,887, 2-24-59, Cl. 228-38.
- Pon, Lemuel. Intermittent combustion turbine engine. 2,888,803, 6-2-59, Cl. 60-39.38.
- Poncet, Pierre,  $\frac{1}{2}$  to E. Picat. Oil seals. 2,893,770, 7-7-59, Cl. 288-3.
- Ponchaud, George C., to United States Steel Corp. Method of producing natural rhombic shaped ammonium sulphate crystals. 2,874,028, 2-17-59, Cl. 23-119.
- Pond, Leander N.: See—  
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- Pond, Robert B.: See—  
Wade, Worth, Pond, and Gibbons. 2,904,859.
- Pond, Robert B., to Marvalaud, Inc. Method of forming round metal filaments. 2,879,566, 3-31-59, Cl. 22-200.1.
- Pond, Robert B., to Marvalaud, Inc. Apparatus for producing alloy and bimetallic filaments. 2,900,708, 8-25-59, Cl. 29-194.
- Pond, Robert B., to Marvalaud, Inc. Production of continuous filaments of high vapor pressure metals. 2,907,082, 10-6-59, Cl. 22-57.2.
- Pond, Robert B., to Marvalaud, Inc. Apparatus for producing metal filaments. 2,910,744, 11-3-59, Cl. 22-57.3.
- Pondexter, Edward, Jr.: See—  
Stewart, William D., Pondexter, and Wachtel. 2,915,519.
- Pondy, Pat R.: See—  
Becker, Edward J., Cleveland, Pondy, and Robinson. 2,914,402.
- D'Altroy, Frederick A., and Pondy. 2,913,077.
- Pongratz, Alfred: See—  
Zirm, Konrad L., and Pongratz. 2,878,251.  
Zirm, Konrad L., and Pongratz. 2,878,253.
- Pons, Paul H., to Etablissements Saxby. Clamp-type track brake for railway vehicles. 2,880,822, 4-7-59, Cl. 188-62.
- Pons, Paul M., to Forges et Ateliers de Constructions Electriques de Jeumont. Packing for containers made of wound sheet metal. 2,918,002, 12-22-59, Cl. 102-43.
- Ponteggi Tubolari Dalmine Innocenti S.p.a.: See—  
Micozzi, Alfredo. 2,911,243.
- Ponthus, André, and G. Comte, to Compagnie Generale d'Electricite. Device for the testing of repeaters. 2,890,296, 6-9-59, Cl. 179-175.31.
- Ponting, Leonard C., to Pratt & Whitney Co., Inc. Chuck jaw adjusting means. 2,917,314, 12-15-59, Cl. 279-123.
- Pontious, Harry L., and E. L. Caustin, to North American Aviation, Inc. Automatic inflator for life preserving apparatus. 2,904,218, 9-15-59, Cl. 222-5.
- Pontis, Paul R., and Associates, Inc.: See—  
Bradbury, James W. 2,893,245.
- Pontis, William G.: See—  
Shewmon, Ralph K., and Pontis. 2,909,333.
- Pontius, Eugene C., to E. I. du Pont de Nemours and Co. Viscose process. 2,891,836, 6-23-59, Cl. 18-54.
- Pontremoli, Pio, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Device for supplying current to the bottom of electrolytic furnaces. 2,868,710, 1-13-59, Cl. 204-243.
- Ponty, Howard D.: See—  
Monego, Constantin J., Manning, and Ponty. 2,895,327.
- Pool, Benjamin M. Excavating apparatus. 2,884,721, 5-5-59, Cl. 37-85.
- Pool, Henry L., to Fairchild Engine and Airplane Corp. Device for controlling an actuator by the translation of a shock wave. 2,873,756, 2-17-59, Cl. 137-87.
- Pool, Stuart D., to International Harvester Co. Adjustable mounting for implement on tractor. 2,909,883, 10-27-59, Cl. 56-15.
- Pool, Stuart D., and E. M. Melin, to International Harvester Co. Minimum displacement balanced control valve. 2,876,796, 3-10-59, Cl. 137-622.
- Poole, Alton B., to Koehler Mfg. Co. Separators for storage batteries and method of making them. 2,912,479, 11-10-59, Cl. 136-146.
- Poole, Arthur B., to General Time Corp. Rotation controlling device. 2,874,809, 2-24-59, Cl. 188-82.1.
- Poole, David M.: See—  
Mirza, Rio N., and Poole. 2,883,147.
- Poole, Edward M., to The Babcock & Wilcox Co. Pulverizing apparatus. 2,906,467, 9-29-59, Cl. 241-53.
- Poole, Forrest R.: See—  
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- Poole, Foster M.,  $\frac{1}{2}$  to C. Casey. Measuring instrument. 2,901,830, 9-1-59, Cl. 33-174.
- Poole Foundry & Machine Co.: See—  
Swanson, Arthur. 2,891,393.
- Poole, George J. License plate holder. 2,877,583, 3-17-59, Cl. 40-125.
- Poole, Gregory. Removable air conditioning units for automobiles. 2,887,031, 5-19-59, Cl. 98-2.5.
- Poole, James P., to Brockway Glass Co., Inc. Method and apparatus for manufacturing glassware. 2,915,638, 12-1-59, Cl. 250-83.3.
- Poole, Joseph D. and S. O. Baby supporter and exerciser. 2,868,272, 1-13-59, Cl. 155-17.
- Poole, Joseph R., to The Austin Co. Shaft position indicator. 2,901,170, 8-25-59, Cl. 233-92.
- Poole, Kenneth M.: See—  
Kompfner, Rudolf, and Poole. 2,879,442.
- Poole, Marcus W. Intravenous therapy training aid. 2,871,584, 2-3-59, Cl. 35-17.
- Poole, Myron C., to Revolver Corp. Revolvable windows for mobile home. 2,886,863, 5-19-59, Cl. 20-53.
- Poole, Robert E., Jr.: See—  
Weingart, Ben, and Poole. 2,891,107.
- Poole, Susan O.: See—  
Poole, Joseph D. and S. O. 2,868,272.
- Pooley, Robert W., to United States Rubber Co. Process of making cellular material. 2,901,774, 9-1-59, Cl. 18-53.
- Pooley, Thomas R., to Dow Corning Corp. Phenylvinyltrioxane. 2,906,766, 9-29-59, Cl. 260-448.2.
- Poon, Tom K. Portable fire-fighting equipment. 2,884,075, 4-28-59, Cl. 169-1.
- Poor & Co.: See—  
Bartley, Calvin L. 2,885,153.  
Jeremias, Bruno R. 2,902,394.  
Olsen, Norman T. 2,898,162.  
Thonger, Thurland G. 2,872,121.
- Poorman, J. E., Inc.: See—  
Poorman, John E. 2,870,662.  
Poorman, John E. 2,875,629.  
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- Poorman, John E. Knurling tool. 2,870,661, 1-27-59, Cl. 80-5.1.
- Poorman, John E., to J. E. Poorman, Inc. Cross-slide knurling or like tool. 2,870,662, 1-27-59, Cl. 80-5.1.
- Poorman, John E., to J. E. Poorman, Inc. Adjustable off-center drill holder. 2,875,629, 3-3-59, Cl. 74-384.
- Poorman, John E., to J. E. Poorman, Inc. Cross-slide form tool holder. 2,875,662, 3-3-59, Cl. 82-36.
- Poos, George I.: See—  
Arth, Glen E., Poos, and Sarett. 2,887,492.  
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- Popa, John, to General Electric Co. Starting and operating circuit for arc discharge device. 2,892,126, 6-23-59, Cl. 315-205.
- Pope, Charles M. Underwater camera case. 2,901,143, 8-25-59, Cl. 220-85.
- Pope, John T., to St. Regis Paper Co. Apparatus for felling trees and producing logs from the trunks. 2,882,941, 4-21-59, Cl. 143-43.
- Pope, Kenneth E., to United States of America, Atomic Energy Commission. Pressure sensing device. 2,917,597, 12-15-59, Cl. 200-83.
- Pope, Lyman B., J. W. Sjostrom, and A. E. Kempton, to Pope Machinery Corp. Boring machine worktable and speed control therefor. 2,880,629, 4-7-59, Cl. 77-3.
- Pope Machinery Corp.: See—  
Pope, Lyman B., Sjostrom, and Kempton. 2,880,629.
- Pope, Samuel H., and R. M. Stuntz, Jr., to Gulf Oil Corp. Liquid measurement. 2,914,546, 12-1-59, Cl. 73-219.
- Pope, Seth, and F. Zilkken, to American Home Products Corp. Production of N-acetylglucosamine. 2,910,408, 10-27-59, Cl. 195-4.
- Pope, William T., and A. Feiner, to United States of America, Air Force. Device for generating range marks. 2,892,942, 6-30-59, Cl. 250-27.
- Pope, William T., Jr., to United States of America, Air Force. Pulse time jitter measuring device. 2,877,414, 3-10-59, Cl. 324-68.
- Popeck, Stanley P., and J. R. Sottysiak, to General Aniline & Film Corp. Antifogging agents for light sensitive paper emulsions. 2,915,395, 12-1-59, Cl. 96-85.
- Popeil, Samuel J. Food chopper. 2,872,958, 2-10-59, Cl. 146-160.
- Popeil, Samuel J. Method for manufacturing artificial foliage, plant life, and similar shapes. 2,879,617, 3-31-59, Cl. 41-13.
- Popejoy, Freddie W., and J. A. Krier, to Alltronics Mfg. Co. Connector for electric wires. 2,911,615, 11-3-59, Cl. 339-198.
- Popielski, Daniel A., to Monsanto Chemical Co. Azo dye containing blends of styrene polymers and rubbery diene polymers of enhanced color stabilized with boric acid. 2,893,975, 7-7-59, Cl. 260-4.
- Popielski, Daniel A., to Monsanto Chemical Co. Color stable blends of styrene polymers and rubbery diene polymers containing azo dyes and terephthalic or isophthalic acid. 2,893,976, 7-7-59, Cl. 260-4.
- Popielski, Daniel A., to Monsanto Chemical Co. Process of dispersing pigments or resins in polystyrene using boric acid. 2,910,450, 10-27-59, Cl. 260-41.
- Popino, Robert P., and J. E. Charlebois, deceased (by H. D. Charlebois, legal representative) to American Cyanamid Co. Concentration of vitamin B<sub>12</sub> and products obtained. 2,918,410, 12-22-59, Cl. 167-81.
- Popkin, Alexander H., to Esso Research and Engineering Co. Method for color improvement of polymeric pour point depressors. 2,906,729, 9-29-59, Cl. 260-45.9.
- Popowsky, William J.: See—  
Baring, John A., and Popowsky. 2,910,585.



- Popowsky, William J., to Minneapolis-Honeywell Regulator Co. Oscillator transducer motor control. 2,915,689, 12-1-59, Cl. 318—29.
- Popp, Hermann G. Method of and device for pneumatic malting. 2,891,892, 6-23-59, Cl. 195—71.
- Popp, John D., to United States Steel Corp. Apparatus for quenching and reeling rods. 2,880,739, 4-7-59, Cl. 134—46.
- Popp, Robert G.: *See—*
- Kurek, Thaddeus M., Popp, and Jones. 2,872,890.
- Poppa, Rocco, and J. L. Hoellerich, to Admiral Corp. Remote control tuner. 2,868,967, 1-13-59, Cl. 250—20.
- Poppe, George W., to Equitable Paper Bag Co., Inc. Paper bag with locking element having concealed ends. 2,868,436, 1-13-59, Cl. 229—77.
- Porath, Jerker O., to Mo Och Domsjo Aktiebolag. Methods of making cellulose ethers. 2,891,057, 6-16-59, Cl. 260—231.
- Porcheddu, John. Inertia-operated switch for conveyances and the like. 2,871,310, 1-27-59, Cl. 200—61.45.
- Pordes, Otto, to Shell Development Co. Process of forming foamed asphalt. 2,901,369, 8-25-59, Cl. 106—122.
- Porepp, Hans, to Opti-Werk G.m.b.H. & Co. Slider for helical-wire slide fastener. 2,901,803, 9-1-59, Cl. 24—205.15.
- Porges, Frederick B., to Flexibox Ltd. Mechanical seals. 2,886,348, 5-12-59, Cl. 236—8.
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- Poritz, Nathan. Ballpoint pen with ink tube adapter. 2,882,859, 4-21-59, Cl. 120—42.03.
- Porrata, Louis R., and E. A. Porterfield, to Columbia Broadcasting System, Inc. Phonograph record plating fixture. 2,905,614, 9-22-59, Cl. 204—281.
- Porret, Daniel: *See—*
- Kohler, Paul, Porret, and Tetaz. 2,905,705.
- Sallmann, Richard, Maeder, Porret, Leumann, and Albrecht. 2,885,387.
- Sallmann, Richard, Maeder, Porret, Leumann, and Albrecht. 2,885,388.
- Porret, Daniel, and E. Leumann, to Ciba Ltd. Process for the preparation of polymerizable acrylamido methylene ureas. 2,885,438, 5-5-59, Cl. 260—553.
- Porri, Lido: *See—*
- Costabello, Dino, Porri, and Boffa. 2,885,416.
- Porsche, Ferdinand, and H. H. Hoenicke, to Firma Dr. Ing. h.c.F. Porsche KG. Drive aggregate for motor vehicles. 2,900,035, 8-18-59, Cl. 180—57.
- Porsche, Ferdinand, and R. Binder, to Firma Dr. Ing. h.c.F. Porsche KG. Two-cycle internal combustion engine. 2,902,020, 9-1-59, Cl. 123—193.
- Port, Frederick J.: *See—*
- Riggs, Harold C., and Port. 2,911,986.
- Port, Julius, to Curtiss-Wright Corp. Simulated supercharger control for aircraft engines. 2,909,853, 10-27-59, Cl. 35—12.
- Port, William S., and E. F. Jordan, Jr., to United States of America, Agriculture. Release agents for pressure-sensitive adhesives. 2,876,895, 3-10-59, Cl. 206—59.
- Port, William S., and G. R. Riser, to United States of America, Agriculture. Process for purification of pelargonic acid. 2,890,230, 6-9-59, Cl. 260—410.9.
- Porta Sorbedores Ygienic, Sociedad Anonima: *See—*
- Cepero, Filiberto G. 2,873,047.
- Portable Electric Tools, Inc.: *See—*
- Dudek, Edmund C. 2,902,773.
- Portage Hosiery Co.: *See—*
- Bronson, Howard S., and Felt. 2,902,820.
- Portail, Fernand, to Societe Anonyme: Compagnie Industrielle des Piles Electriques Cipel. Apparatus and method for enhancing the characteristics of dry cell batteries. 2,869,064, 1-13-59, Cl. 320—3.
- Portal Products Corp.: *See—*
- Moran, Joseph L., and Bopp. 2,893,079.
- Portanger, Edward. Apparatus for cleaning wool. 2,869,181, 1-20-59, Cl. 19—85.
- Portenier, Ernst, W. Spinnler, E. Bolay, and H. Riolo, to Albiswerk Zuerich A. G. Infrared image converter apparatus. 2,871,372, 1-27-59, Cl. 250—239.
- Porter, Allan W. H., to F. N. F. Machinery Mfg. Co. Ltd. Warp knitting machinery. 2,871,636, 2-3-59, Cl. 66—86.
- Porter, Allan W. H., and S. T. Sheppard, to F. N. F. Machinery Mfg. Co. Ltd. Knitting machinery. 2,872,799, 2-10-59, Cl. 66—120.
- Porter, Alvin J., and L. O. Reichelt, to Western Electric Co., Inc. Device for cutting leads of electrical components. 2,898,997, 8-11-59, Cl. 164—47.
- Porter-Cable Machine Co., The: *See—*
- Emmons, Arthur N. 2,897,902.
- Frostad, Lars. 2,884,789.
- Porter, Charles A., D. G. Samuelson, and L. W. Holm, to The Pure Oil Co. Production of higher quality lubricating oil stocks. 2,889,262, 6-2-59, Cl. 208—34.
- Porter, Charles H. Plug gauges. 2,903,797, 9-15-59, Cl. 33—178.
- Porter, Clarence W.: *See—*
- Mierendorf, Robert C., and Porter. 2,919,385.
- Porter, David J., to Food Machinery and Chemical Corp. Process for producing hydrogen sulfide and carbon bisulfide. 2,882,130, 4-14-59, Cl. 23—181.
- Porter, David S., to United States of America, Army. Connector for cartridge belt link. 2,918,846, 12-29-59, Cl. 89—35.
- Porter, Donald C., to W. E. Swarthout. Resilient connector. 2,892,326, 6-30-59, Cl. 64—7.
- Porter, Donald C., to W. E. Swarthout. Attachment fastening. 2,906,068, 9-29-59, Cl. 51—197.
- Porter, Edward W.: *See—*
- Miles, Elbert S., and Porter. 2,884,761.
- Porter, Forrest V., to Dresser Industries, Inc. Sidewall sampler. 2,879,972, 3-31-59, Cl. 255—1.4.
- Porter, Frank R., J. W. Halley, and J. E. McFarland, to Inland Steel Co. Method of producing articles for enameling. 2,872,352, 2-3-59, Cl. 117—130.
- Porter, Frederick W. B., and R. P. Northcott, to The British Petroleum Co. Ltd. Catalytic desulfurization of crude petroleum hydrocarbons. 2,892,774, 6-30-59, Cl. 208—218.
- Porter, Frederick W. B., and E. C. Housam, to The British Petroleum Co. Ltd. Hydrocatalytic desulfurization of a mixture of straight-run and catalytically cracked gas oils. 2,900,331, 8-18-59, Cl. 208—214.
- Porter, Grady T., to Phillips Petroleum Co. Gas discharge lamp power supply. 2,875,379, 2-24-59, Cl. 315—106.
- Porter, H. K., Co.: *See—*
- Carlson, Frederick O. 2,893,655.
- Carlson, Frederick O. 2,893,656.
- Johnson, Robert. 2,913,136.
- Kennedy, Frank J. 2,894,534.
- Kennedy, Frank J. 2,898,943.
- Kennedy, Frank J. 2,909,915.
- Killian, Stanley C., and Edison. 2,872,218.
- Mageoch, Harry Y. 2,896,873.
- Webster, Harry M. 2,875,520.
- Porter, H. K., Co. (Delaware): *See—*
- Freynik, Henry S. 2,918,094.
- Krase, Fred J., and Olendzki. 2,897,323.
- Porter, Harry M., to Scovill Mfg. Co. Zipper guide roll for sewing machine. 2,891,495, 6-23-59, Cl. 112—152.
- Porter, Hubert T.: *See—*
- Lester, Ronald, and Porter. 2,897,143.
- Porter, John H. Hot food package vending machine. 2,890,644, 6-16-59, Cl. 99—327.
- Porter, John L., to Kaiser Aluminum & Chemical Corp. Process of purifying caustic aluminate liquors. 2,889,982, 6-9-59, Cl. 233—18.
- Porter, John L., to Kaiser Aluminum & Chemical Corp. Process for preparing calcium aluminate and alumina from phosphate-containing ores. 2,903,338, 9-8-59, Cl. 23—52.
- Porter, Kenneth W., Jr., and H. F. Stillwell, to Collins Radio Co. Burst eliminator circuitry. 2,918,575, 12-22-59, Cl. 250—27.
- Porter, Lee M.: *See—*
- Rust, Frederick F., and Porter. 2,871,101.
- Rust, Frederick F., Porter, and Vaughan. 2,871,102.
- Porter, Leonard C., and G. J. Brule, to Raytheon Co. Induction heating apparatus. 2,914,642, 11-24-59, Cl. 219—9.5.
- Porter, Mack R. Hydrodynamic brake. 2,880,825, 4-7-59, Cl. 183—91.
- Porter, Robert D., to United Aircraft Corp. Emergency fuel control. 2,909,896, 10-27-59, Cl. 60—39.28.
- Porter, Robert E. Belt holder. 2,869,169, 1-20-59, Cl. 15—268.
- Porter, Robert L.: *See—*
- Gasche, Fred, and Porter. 2,912,992.
- Porter, Robert R.: *See—*
- Michal, Eugene J., and Porter. 2,890,933.
- Porter, Sylvan E.: *See—*
- Moy, Hammond R., Shockey, and Porter. 2,896,885.
- Porter, Vincent J., to Sperry Rand Corp. Terminations for acoustic delay lines. 2,910,656, 10-27-59, Cl. 333—30.
- Porter, Vincent J., and M. Naiman, to Sperry Rand Corp. Acoustic delay lines. 2,913,680, 11-17-59, Cl. 333—30.
- Porter, William H. Equalized fluid pump. 2,867,176, 1-6-59, Cl. 103—183.
- Porter, William I., to American Box Board Co. Compartmental box. 2,888,185, 5-26-59, Cl. 229—29.
- Porter, William J.: *See—*
- Krieger, Richard S., and Porter. 2,891,636.
- Porter, William J., to Parkmaster Systems Inc. Shuttle for carrying automotive vehicles. 2,873,089, 2-10-59, Cl. 254—5.
- Portera, Stephen. Fabric pressing and shaping machine. 2,884,168, 4-28-59, Cl. 223—38.
- Porterfield, Cecil P.: *See—*
- Williams, Everard M., and Porterfield. 2,868,947.
- Porterfield, Cecil P., to Firth Sterling Inc. Control for spark machining apparatus. 2,887,561, 5-19-59, Cl. 219—69.
- Porterfield, Cecil P., to Firth Sterling Inc. Electrode position control for spark machining apparatus. 2,903,555, 9-8-59, Cl. 219—69.
- Porterfield, Erik A.: *See—*
- Porrata, Louis R., and Porterfield. 2,905,614.
- Porterfield, Jack N., to Aluminum International, Inc. Can handling machine drive and loading mechanism. 2,909,268, 10-20-59, Cl. 198—31.
- Porterfield, Jack N., to Aluminum International, Inc. Can handling machine. 2,909,269, 10-20-59, Cl. 198—31.
- Portias, Socrates G. Fire fighting airplane. 2,895,693, 7-21-59, Cl. 244—136.
- Portinga, Alfred R. Arrow Fletcher. 2,884,034, 4-28-59, Cl. 144—289.
- Portis, Robert B., and R. E. Phillips. Device for supporting a human body. 2,917,753, 12-22-59, Cl. 5—66.



- Portman, Donald G.: *See*—  
Groves, John N., and Portman. 2,917,593.
- Portner, Albert S. Crab trap construction. 2,918,749, 12-29-59, Cl. 43-102.
- Portnoy, Joseph, to United States of America, Army. Process for preparing a serologically active fraction of virulent *treponema pallidum* and resulting product. 2,892,755, 6-30-59, Cl. 167-84.5.
- Porto Holding Corp.: *See*—  
Sulger, Harold E. 2,901,645.
- Porto Knurling Tools, Inc.: *See*—  
Bennett, Anthony, and Alfreds. Re. 24,714.
- Portolano, Salvatore W. Shower attachment. 2,875,452, 3-3-59, Cl. 4-159.
- Porush, Irving, and G. L. Maisson, to Riker Laboratories, Inc. Self-propelling compositions for inhalation therapy containing a salt of isoproterenol or epinephrine. 2,868,691, 1-13-59, Cl. 167-54.
- Porzellanfabrik Weiden Gebr. Bauscher, Zweigniederlassung der Lorenz Hutscherreuther Akt.: *See*—  
Achtziger, Christoph. 2,893,583.
- Posansky, Jacob. Bug screen bracing means. 2,870,833, 1-27-59, Cl. 160-369.
- Poschner, Hans and H. Vogelsang, to Siemens-Schuckertwerke Akt. Loop regulating systems for the speed control of roll drives. 2,877,397, 3-10-59, Cl. 318-6.
- Posen, Sam, to Beltone Hearing Aid Co. Eyeglass hearing aid construction. 2,878,322, 3-17-59, Cl. 179-107.
- Posen, Sam, to Beltone Hearing Aid Co. Eyeglass hearing aid construction. 2,894,076, 7-7-59, Cl. 179-107.
- Posey, Alice G. Spoon holder. 2,901,197, 8-25-59, Cl. 248-37.3.
- Posey, Bob, Jr.: *See*—  
Leathers, Joel F. M., and Posey. 2,905,726.
- Posey, John T. Foot support. 2,891,257, 6-23-59, Cl. 5-317.
- Posey, Joseph J., to United States Steel Corp. Dual arch. 2,869,488, 1-20-59, Cl. 110-99.
- Posey, Ken, Jr.: *See*—  
Dean, Lloyd G., Olstowski, and Posey. 2,880,151.
- Posnansky, Karl W., to Stamford Rubber Supply Co. Organic materials prepared with the polyisocyanates and their preparation. 2,882,249, 4-14-59, Cl. 260-3.
- Posner, Bernard B., to The Shannon Ltd. Support for suspended files. 2,871,861, 2-3-59, Cl. 129-16.
- Posnett, William A., and J. M. Ferguson, to Shanks & McEwan Ltd., and Colvilles Ltd. Road surfacing material. 2,875,084, 2-24-59, Cl. 106-284.
- Pospisil, Zdenek, and M. Beranek, to Tesla, narodni podnik. Device for accurate measurement and recording of a slowly increasing or decreasing voltage. 2,912,649, 11-10-59, Cl. 324-99.
- Pospiszel, Joseph T., to Mohasco Industries, Inc. Holder for carrying and displaying flat articles. 2,892,269, 6-30-59, Cl. 35-50.
- Posselt, Frederick W.: *See*—  
Stanley, Lester N., and Posselt. 2,893,815.
- Possis, Zinon C.: *See*—  
Fulera, Joseph A., and Possis. 2,884,027.
- Post, Charles R. Suture-tying instrument. 2,895,478, 7-21-59, Cl. 128-334.
- Post, Frederick L., to International Business Machines Corp. Multipath magnetic core memory devices. 2,898,581, 8-4-59, Cl. 340-174.
- Post, Howard E., to Universal Oil Products Co. Hydrocarbon conversion process in the presence of added hydrogen. 2,894,897, 7-14-59, Cl. 208-111.
- Post, Lloyd P., to Kiekhaefer Corp. Outboard motor remote steering control. 2,875,722, 3-3-59, Cl. 115-18.
- Post, Robert G.,  $\frac{1}{2}$  to R. C. Carr. Microfilm reader. 2,878,718, 3-24-59, Cl. 88-24.
- Post, Rudolf: *See*—  
Siemssen, Georg-Gustav, and Post. 2,907,039.
- Post, Wilmar R.: *See*—  
Gabrielsen, Christian, and Post. 2,877,076.
- Postelnek, William, to United States of America, Air Force. Glass fiber-thickened grease compositions. 2,900,338, 8-18-59, Cl. 252-13.
- Poster Products, Inc.: *See*—  
Cygan, Stanley J. 2,880,537.
- Postman, Martin S. Analog to digital transducer. 2,880,410, 3-31-59, Cl. 340-341.
- Postmaster General, Her Majesty's: *See*—  
Copping, Geoffrey P., Myers, and Smith. 2,895,610.  
Harris, Lionel R. F. 2,876,284.  
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Harris, Lionel R. F. 2,910,542.
- Potash Co. of America: *See*—  
Haworth, Russell G., Fleming, Priesnitz, and McLaughlin. 2,916,274.
- Potash, Norman. Fastening of rigid plates to sheet material. 2,910,062, 10-27-59, Cl. 128-141.
- Potchen, Joseph A.: *See*—  
Kloote, George E., Potchen, and Meier. 2,887,732.  
Kloote, George E., Potchen, and Meier. 2,907,383.
- Potchen, Joseph A., to Haskelite Mfg. Corp. Means for providing moisture tight openings through panels. 2,887,740, 5-26-59, Cl. 20-92.
- Potchen, Joseph A., to Haskelite Mfg. Co. Mixing head. 2,890,868, 6-16-59, Cl. 259-4.
- Potchen, Joseph A., G. E. Kloote, and G. D. Meier, to Haskelite Mfg. Corp. Multilaminar panel. 2,875,117, 2-24-59, Cl. 154-128.
- Potchen, Joseph A., and G. E. Kloote, to Haskelite Mfg. Corp. Method of erecting enclosures. 2,893,075, 7-7-59, Cl. 20-74.
- Potdevin, Adolph, and R. P. Bechle, to Potdevin Machine Co. Apparatus for separating predetermined lengths of material from a continuous tube of the same. 2,902,197, 9-1-59, Cl. 225-105.
- Potdevin Machine Co.: *See*—  
Eccher, Oreste B. 2,894,559.  
Potdevin, Adolph, and Bechle. 2,902,197.
- Poth, George H. Fruit slice juice extractor. 2,881,696, 4-14-59, Cl. 100-234.
- Potlatch Forest Inc.: *See*—  
Brown, John H., and Johnson. 2,872,712.
- Potocnik, Rudolph, to General Motors Corp. Automobile rear end construction. 2,873,998, 2-17-59, Cl. 296-28.
- Potosky, Maurice, J. H. Davis, and M. Hansburg. Orientation system for magnetometers. 2,886,773, 5-12-59, Cl. 324-43.
- Potratz, Herbert A., to United States of America, Atomic Energy Commission. Plutonium-cupferron complex and method of removing plutonium from solution. 2,868,817, 1-13-59, Cl. 260-429.1.
- Pottash, Edward. Retrieving device. 2,872,142, 2-3-59, Cl. 248-80.
- Potter & Blomfield, Inc.: *See*—  
Harrison, William J. 2,905,788.
- Potter, Charles, to Engelhard Industries, Inc. Treatment of sand. 2,911,286, 11-3-59, Cl. 23-182.
- Potter, David M. Specific gravity meter. 2,891,403, 6-23-59, Cl. 73-453.
- Potter, David S., to United States of America, Navy. Ceramic barium titanate electro-mechanical filter. 2,867,780, 1-6-59, Cl. 333-72.
- Potter, Donald A.: *See*—  
Fairbanks, Gordon J., Potter, and Mellett. 2,895,678.
- Potter, Frederick M.: *See*—  
Phelan, George A., and Potter. 2,912,636.
- Potter, John: *See*—  
Duvivier, Charles. 2,907,671.
- Potter, John J., to Hayden-Nilos Ltd. Machines for securing hooked belt-fasteners. 2,879,511, 3-31-59, Cl. 1-49.4.
- Potter, John J., to Hayden-Nilos Ltd. Belt-fastening machines. 2,899,680, 8-18-59, Cl. 1-49.4.
- Potter, John J., to Hayden-Nilos Ltd. Belt-fastening machines. 2,908,008, 10-13-59, Cl. 1-49.4.
- Potter, John J., to Hayden-Nilos Ltd. Belt-fastening machines. 2,908,009, 10-13-59, Cl. 1-49.4.
- Potter, Leon M., and W. M. Willett, to James Mfg. Co. Feed trough and distributing system. 2,878,925, 3-24-59, Cl. 198-218.
- Potter, Norman M.: *See*—  
Fritz, William H., Potter, and Cox. 2,913,892.
- Potter, Ralph E. Superregenerative receiver with antenna and open-circuited diode connected to input. 2,885,545, 5-5-59, Cl. 250-20.
- Potter, Ralph E. Antenna and audio connector cable unit. 2,899,549, 8-11-59, Cl. 250-16.
- Potter, Ralph K., to Bell Telephone Laboratories, Inc. Magnetic printer. 2,894,798, 7-14-59, Cl. 346-74.
- Potter, Richard P., to Maurice and Misha Ravdel, and M. Stanton. Rotary impact, ratchet-type wrench. 2,882,772, 4-21-59, Cl. 81-52.3.
- Potter, Robert, to E. W. Bliss Co. Upcoiler with rolls independently driven at surface speed of material being coiled. 2,877,821, 3-17-59, Cl. 153-54.
- Potter, Sidney D. Apparatus for filling milk bottles. 2,901,009, 8-25-59, Cl. 141-286.
- Potter, Thomas W., to Journal Box Servicing Corp. Journal box axle stop. 2,897,018, 7-28-59, Cl. 308-38.
- Potter, Thomas W., to Journal Box Servicing Corp. Journal lubricator. 2,897,028, 7-28-59, Cl. 308-243.
- Potter, Van R., to Wisconsin Alumni Research Foundation. Acoustical device. 2,878,887, 3-24-59, Cl. 181-31.
- Potthoff, William C.: *See*—  
Jones, James B., and Potthoff. 2,895,845.
- Pottle, Ralph K.: *See*—  
Fredette, Joseph H., Pottle, and Swartz. 2,892,572.
- Pottmeyer, Edward W., to Blaw-Knox Co. Reversing valve mechanism. 2,891,567, 6-23-59, Cl. 137-310.
- Potts, Donald M. Electric double boiler. 2,867,420, 1-6-59, Cl. 259-108.
- Potts, Ernest L., to C. C. Brown. Apparatus for performing well operations. 2,880,807, 4-7-59, Cl. 166-146.
- Potts, Ernest L., to C. C. Brown. Well packer. 2,884,070, 4-28-59, Cl. 166-121.
- Potts, Ernest L., to C. C. Brown. Hydraulic pulling tool. 2,915,126, 12-1-59, Cl. 166-98.
- Potts, George G.: *See*—  
Moss, Ennis E. Re. 24,624.
- Potts, Horace T., Co.: *See*—  
Armstrong, David E., and Dunn. 2,907,102.  
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- Potts, John, to Wilson-Jones Co. Spring action desk pad holder. 2,876,021, 3-3-59, Cl. 281-15.
- Potts, Lawrence D.: *See*—  
First, Vincent E., Potts, Rice, and Yendall. 2,908,144.



- Potts, Lawrence D., and E. F. Yendall, to Union Carbide Corp. Dual pressure cycle for air separation. 2,873,583, 2-17-59, Cl. 62—14.
- Potts, Mack F.: *See—*  
Smith, Warren L., Potts, and Hudson. 2,874,159.
- Potts, Mack F., W. L. Smith, and P. S. Hudson, to Phillips Petroleum Co. Color stabilization of polymerizable heterocyclic nitrogen compounds. 2,887,490, 5-19-59, Cl. 260—290.
- Potts, Melvin W. Athletic equipment carrier rack. 2,904,383, 9-15-59, Cl. 312—293.
- Potvin, Roger J. A., M. J. Lavigne, and J. J. E. Laberge, to Atomic Energy of Canada Ltd. Protective coating of uranium and thorium. 2,915,417, 12-1-59, Cl. 117—130.
- Pouchot, Walter D., to Westinghouse Electric Corp. Rotating flame spreader for stationary flameholder. 2,914,921, 12-1-59, Cl. 60—39.72.
- Poudrieres Reunies de Belgique S. A.: *See—*  
Diels, Albert, and Orth. 2,874,604.
- Pougnand, Clement, to Normacem, Societe Anonyme. Rotary casting apparatus. 2,917,797, 12-22-59, Cl. 22—65.
- Pouit, Robert. Jet propelled aircraft with jet flaps. 2,912,189, 11-10-59, Cl. 244—15.
- Poulin, Peter. Chair with liftable arm rests. 2,869,623, 1-20-59, Cl. 155—198.
- Poulos, Ernest A. Combined garbage can handle and latch. 2,873,880, 2-17-59, Cl. 220—55.7.
- Poulos, Nicholas M.: *See—*  
Dolin, Martin, Scandurra, and Poulos. 2,891,223.
- Pouls, Francis. Training device for children. 2,885,854, 5-12-59, Cl. 58—1.
- Poulsom, Edmund: *See—*  
Elce, Alec, Poulsom, and Craven. 2,916,422.
- Poulsen, Wilhelm E. Automatic wild bird feeder. 2,918,901, 12-29-59, Cl. 119—51.
- Poulsen, Clair C., to Western Electric Co., Inc. Fluid applying and drying apparatus for treating coils. 2,890,679, 6-16-59, Cl. 118—64.2.
- Pound, Robert V., to Chemetron Corp. Suppression of radiation from dielectric heating applicators. 2,868,939, 1-13-59, Cl. 219—10.55.
- Pound, Robert V., to Levinthal Electronics Products, Inc. Microwave pulse generator. 2,873,370, 2-10-59, Cl. 250—36.
- Pounds, Hoyle, J. H., and R. S., to Pounds Motor Co., Inc. Combined tree cultivator and fertilizer distributor. 2,871,804, 2-3-59, Cl. 111—11.
- Pounds, James H.: *See—*  
Pounds, Hoyle, J. H., and R. S. 2,871,804.
- Pounds Motor Co., Inc.: *See—*  
Pounds, Hoyle, J. H., and R. S. 2,871,804.
- Pounds, Russell S.: *See—*  
Pounds, Hoyle, J. H., and R. S. 2,871,804.
- Poundstone, William N., to Consolidation Coal Co. Adjustable arm for a rotary cutting head. 2,879,049, 3-24-59, Cl. 262—7.
- Poundstone, William N., to Consolidation Coal Co. Hydraulic powered mining machine. 2,905,441, 9-22-59, Cl. 255—47.
- Poupert, Bernard. Skinning method and apparatus. 2,871,509, 2-3-59, Cl. 17—45.
- Poupitch, Ougljesa J., to Illinois Tool Works. Helically formed resilient lock washer with inner nut engaging and outer work engaging teeth. 2,868,256, 1-13-59, Cl. 151—35.
- Poupitch, Ougljesa J., to Illinois Tool Works. Sheet metal clip. 2,868,486, 1-13-59, Cl. 248—68.
- Poupitch, Ougljesa J., to Illinois Tool Works. Container carrier and package. 2,874,835, 2-24-59, Cl. 206—65.
- Poupitch, Ougljesa J., to Illinois Tool Works. Mattress handle. 2,876,465, 3-10-59, Cl. 5—34.5.
- Poupitch, Ougljesa J., to Illinois Tool Works. Means for securing ceiling panels in automobiles. 2,876,971, 3-10-59, Cl. 248—22.5.
- Poupitch, Ougljesa J., to Illinois Tool Works. Moulding clip. 2,879,569, 3-31-59, Cl. 24—73.
- Poupitch, Ougljesa J., to Illinois Tool Works. Can carrier clip. 2,894,622, 7-14-59, Cl. 206—65.
- Poupitch, Ougljesa J., to Illinois Tool Works. Method of assembling a washer and rod to make a headed fastener. 2,914,780, 12-1-59, Cl. 10—27.
- Poupitch, Ougljesa J., to Illinois Tool Works. Blind fastener formed of plastic and containing longitudinal slots which permit rosette type of distortion of shank. 2,918,841, 12-29-59, Cl. 85—40.
- Poupirt, Walter C.: *See—*  
Cooper, Wayne E., and Poupirt. 2,886,210.
- Pourciau, Louis L., to General Precision Laboratory Inc. Video resolution control. 2,911,468, 11-3-59, Cl. 178—7.1.
- Pouré, Emile E. Mixers. 2,905,450, 9-22-59, Cl. 259—84.
- Poux, Noel J., to Talon, Inc. Slider for slide fasteners. 2,870,507, 1-27-59, Cl. 24—205.15.
- Pouzet, Daniel, to Compagnie des Freins et Signaux Westinghouse. Reversible counting apparatus. 2,902,216, 9-1-59, Cl. 235—92.
- Povinelli, Angelo A. and T. J. Fishing aid. 2,908,989, 10-20-59, Cl. 43—42.74.
- Povinelli, Theodore J.: *See—*  
Povinelli, Angelo A. and T. J. 2,908,989.
- Povse, Vincent A., and G. A. Zerby, to Bar Products Co. Molding press. 2,894,281, 7-14-59, Cl. 18—16.
- Powell, William S., to Adams Powell Equipment Ltd. Packing. 2,873,039, 2-10-59, Cl. 216—02.5.
- Powell, Albert E., to Byford Labs., Inc. Frequency discriminator for frequency-modulated pulses. 2,914,672, 11-24-59, Cl. 250—27.
- Powell, Allan F.: *See—*  
Powell, Walter N. and A. F., and Anderton. 2,909,115.
- Powell, Alric H., to General Electric Co. Electric circuit interrupter. 2,886,663, 5-12-59, Cl. 200—48.
- Powell, Bruce E.: *See—*  
De Bolt, Richard R., and Powell. 2,884,365.
- Powell, Burnet J., to The Bingham-Herbrand Corp. Foot operated parking brake. 2,875,641, 3-3-59, Cl. 74—539.
- Powell, Burnet J., to The Bingham-Herbrand Corp. Parking brake for vehicles. 2,903,907, 9-15-59, Cl. 74—539.
- Powell, Charles W. Mosaic tile and method. 2,876,574, 3-10-59, Cl. 41—23.
- Powell, Clinton O. Toothbrush. 2,900,651, 8-25-59, Cl. 15—138.
- Powell, Dan, and W. J. Allsopp, to The Metal Box Co. Ltd. Reshaping of can bodies. 2,895,527, 7-21-59, Cl. 153—2.
- Powell, Daniel R. Rotary checking fixture. 2,896,330, 7-28-59, Cl. 33—174.
- Powell, David B.: *See—*  
Piteo, Benjamin A., Jr., and Powell. 2,912,544.
- Piteo, Benjamin A., Jr., and Powell. 2,912,545.
- Powell, David R., to The National Acme Co. Threading implement. 2,909,087, 10-20-59, Cl. 80—6.
- Powell, Donald C., to Gadget-Of-The-Month Club, Inc. Convertible suitcase. 2,875,868, 3-3-59, Cl. 190—44.
- Powell, Edward R., to Johns-Manville Corp. Method and apparatus for producing fibers. 2,884,659, 5-5-59, Cl. 18—25.
- Powell, Edward V. Fipple flute. 2,883,898, 4-28-59, Cl. 84—384.
- Powell, Elno M.: *See—*  
Schroedter, Willburt W., and Powell. 2,869,519.
- Powell, Ernest F., and H. J. Lawton, to Dunlop Tire and Rubber Corp. Method and apparatus for testing tires, belts or the like. 2,869,361, 1-20-59, Cl. 73—146.
- Powell, Ernest P., to E. G. Staude Mfg. Co., Inc. Decurling apparatus. 2,893,053, 7-7-59, Cl. 18—1.
- Powell, Eugene L.: *See—*  
Diamond, Holton W., and Powell. 2,868,653.
- Powell, George H.: *See—*  
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- Powell, Gerald E., to Ricardo & Co., Engineers (1927) Ltd. Combustion apparatus. 2,882,843, 4-21-59, Cl. 110—28.
- Powell, Gerry: *See—*  
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- Powell, Gordon F. W.: *See—*  
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- Powell, Gordon F. W., to Molins Machine Co. Ltd. Device for detecting workpieces such as card blanks for packets. 2,881,275, 4-7-59, Cl. 200—61.41.
- Powell, Gordon F. W., and R. G. Crosland, to Molins Machine Co. Ltd. Detector device suitable for use with cigarette-making machines. 2,896,636, 7-28-59, Cl. 131—21.
- Powell, Harold W., to Kango Electric Hammers Ltd. Armature winding connectors. 2,897,385, 7-28-59, Cl. 310—234.
- Powell, Jack E.: *See—*  
Spedding, Frank H., and Powell. 2,889,205.
- Powell, James E. Combination egg holder and condiment dispenser. 2,909,304, 10-20-59, Cl. 222—130.
- Powell, Jonathan S., Jr., and D. A. Stromsoe. Golf tee dispenser. 2,901,146, 8-25-59, Cl. 221—190.
- Powell, Manly J.: *See—*  
Schilling, Karl F., Powell, and Brice. 2,898,207.
- Powell, Manly J., and T. A. Cecil, to Minerals & Chemicals Corp. of America. Preparation of spherical contact masses. 2,898,304, 8-4-59, Cl. 252—450.
- Powell, Ralph C. Method and machine for knitting seamless gloves. 2,877,635, 3-17-59, Cl. 66—65.
- Powell, Richard H., to The Dole Valve Co. Thermostatically controlled hot and cold water by-pass valve. 2,905,387, 9-22-59, Cl. 236—12.
- Powell, Robert D.: *See—*  
Wall James R., and Powell. 2,904,063.
- Powell, Robert D., to Allis-Chalmers Mfg. Co. Disk grease seals. 2,908,177, 10-13-59, Cl. 74—230.17.
- Powell, Robert D., C. B. Hilgeman, and R. H. Sporing, to Allis-Chalmers Mfg. Co. Variable pitch diameter sheave. 2,889,161, 6-2-59, Cl. 287—52.06.
- Powell, Robert J., and J. E. Champion, to Continental Motors Corp. Fuel metering valve. 2,895,463, 7-21-59, Cl. 123—139.
- Powell, Robert J., and J. E. Champion, to Continental Motors Corp. Fuel system. 2,901,031, 8-25-59, Cl. 158—36.4.
- Powell, Robert J., and J. E. Champion, to Continental Motors Corp. Fuel injection system. 2,902,016, 9-1-59, Cl. 123—139.
- Powell, Robert J., and J. E. Champion, to Continental Motors Corp. Fuel manifold. 2,913,231, 11-17-59, Cl. 261—23.
- Powell, Robert J., and J. E. Champion, to Continental Motors Corp. Fuel injector. 2,913,233, 11-17-59, Cl. 261—64.
- Powell, Robert M. High frequency oscillator for proximity fuze. 2,913,716, 11-17-59, Cl. 343—7.
- Powell, Robert W.: *See—*  
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- Powell, Russell A., to Koppers Co., Inc. Sintering machine apparatus. 2,890,038, 6-9-59, Cl. 266—21.



- Powell, Russell W.: *See*—  
 Norman, Richard M., and Powell. 2,878,648.  
 Norman, Richard M., Powell, and Sherer. 2,896,257.
- Powell, Truman W. Signal monitoring apparatus. 2,879,383, 3-24-59, Cl. 250-20.
- Powell, Walter G., to Band-Ti Mfg. Co. Band cutting and grouping machine. 2,908,329, 10-13-59, Cl. 164-49.
- Powell, Walter N. and A. F. and H. Anderton. Baling machines. 2,909,115, 10-20-59, Cl. 100-20.
- Powelson, Roger V. N., to Sun Oil Co. Polymerization of olefins. 2,893,985, 7-7-59, Cl. 260-94.9.
- Power, Basil D., to Edwards High Vacuum Ltd. Vapour vacuum pumps. 2,899,127, 8-11-59, Cl. 230-101.
- Power, Basil D., to Edwards High Vacuum Ltd. Vapour vacuum pumps. 2,902,206, 9-1-59, Cl. 230-45.
- Power, Basil D., to Edwards High Vacuum Ltd. Multi-stage mechanical vacuum pumps. 2,902,210, 9-1-59, Cl. 230-205.
- Power, Basil D., to Edwards High Vacuum Ltd. Vapour vacuum pumps. 2,919,061, 12-29-59, Cl. 230-101.
- Power Brake Equipment Co.: *See*—  
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- Power Condenser & Electronics Corp.: *See*—  
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 Myers, Henry S. 2,886,528.
- Power Equipment Co.: *See*—  
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- Power Grip, Inc.: *See*—  
 Manchester, William J. 2,886,007.
- Power, James R., to Bell Telephone Laboratories, Inc. Party line lock-out circuit. 2,873,316, 2-10-59, Cl. 179-17.
- Power Jets (Research and Development) Ltd.: *See*—  
 Ashworth, Peter F. 2,885,159.  
 Barr, John C. 2,898,731.  
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 Chamberlin, Reginald H. D., Mallinson, and Probert. 2,871,659.  
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 Fletcher, Philip J. 2,886,262.  
 Gardiner, John A. 2,895,297.  
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 Johnson, William E. P. 2,871,656.  
 Johnstone, Alexander P. 2,876,619.  
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 Perry, Sydney W. H. 2,873,947.
- Power Steering Co.: *See*—  
 Hayse, Paul F. 2,917,027.
- Powers, Cecilio C., to General Electric Co. Method of producing an electrode structure. 2,917,811, 12-22-59, Cl. 29-25.18.
- Powers Chemco, Inc.: *See*—  
 Anander, Andrew K. 2,878,717.  
 Anander, Andrew K. 2,910,265.  
 Bjelland, John L., and Flynn. 2,900,869.  
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 Schwarz, George. 2,890,943.
- Powers, Dean A.: *See*—  
 Von Hippel, Arthur R., Powers, and Green. 2,909,662.
- Powers, Forrest M., to General Controls Co. Flame detection system. 2,911,540, 11-3-59, Cl. 250-217.
- Powers, Glenn L.: *See*—  
 Vance, Glenn, Powers, Stokesberry, Colman, and Klipstein. 2,877,286.
- Powers, Howard A., to American Radiator & Standard Sanitary Corp. Coriolis mass flowmeter. 2,877,649, 3-17-59, Cl. 73-194.
- Powers, James D.: *See*—  
 Sakata, George, and Powers. 2,887,277.
- Powers, James H., to General Electric Co. Fan arrangement for domestic appliances. 2,873,908, 2-17-59, Cl. 230-119.
- Powers, James H., to General Electric Co. Electrostatic gas filter. 2,888,092, 5-26-59, Cl. 183-7.
- Powers, James H., to General Electric Co. Room air conditioning apparatus having filter arrangement for independent operation. 2,908,147, 10-13-59, Cl. 62-186.
- Powers, James H., to General Electric Co. Electrostatic gas filter having arrangement for cancelling captured charge. 2,917,130, 12-15-59, Cl. 183-7.
- Powers, Max L., to Peerless Gage Co. Jet blade testing machine. 2,879,602, 3-31-59, Cl. 33-174.
- Powers, Myron J.: *See*—  
 Lazar, Melvin E., and Powers. 2,895,836.
- Powers, Myron J., and M. E. Lazar, to United States of America, Agriculture. Method of preserving apples. 2,874,059, 2-17-59, Cl. 99-186.
- Powers, Myron J., and N. J. Downes, to United States of America, Agriculture. Dehydration of cherries. 2,899,319, 8-11-59, Cl. 99-204.
- Powers Regulator Co., The: *See*—  
 Panza, Joseph E. 2,886,006.
- Powers, Richard E., and C. W. Weis, to Powers Wire Products Co., Inc. Air operated tool and control therefor. 2,914,032, 11-24-59, Cl. 121-13.
- Powers, Richard E., and C. W. Weis, to Powers Wire Products Co., Inc. Air operated tool and valve therefor. 2,914,033, 11-24-59, Cl. 121-21.
- Powers, Richard M.: *See*—  
 Holden, Robert B., Powers, and Blaber. 2,905,552.
- Powers, Robert A.: *See*—  
 Zimmerman, Herman M., and Powers. 2,900,434.
- Powers, Robert B., to L. W. Nash Co. Electromagnet controls for sheet handlers. 2,895,733, 7-21-59, Cl. 271-18.
- Powers, Robert P., to The Firestone Tire & Rubber Co. Tubeless tire and rim therefor. 2,868,258, 1-13-59, Cl. 152-362.
- Powers, Robert P., to The Firestone Tire & Rubber Co. Rim. 2,868,259, 1-13-59, Cl. 152-381.
- Powers, Robert P., to The Firestone Tire & Rubber Co. Tubeless tire and rim therefor. 2,868,261, 1-13-59, Cl. 152-396.
- Powers, Robert P., to The Firestone Tire & Rubber Co. Tubeless tire and rim. 2,874,748, 2-24-59, Cl. 152-406.
- Powers, Robert P., H. Mulder, and D. Fordyce, Jr., to The Firestone Tire & Rubber Co. Wheel construction. 2,868,260, 1-13-59, Cl. 152-396.
- Powers-Samas Accounting Machines Ltd.: *See*—  
 Auliffe, Frank C., and Burtal. 2,876,888.  
 Davy, John C. 2,867,437.  
 Johnson, William E., and Davy. 2,884,271.  
 Lambert, Donald R. 2,873,116.  
 Lambert, Donald R. 2,895,410.  
 Lucas, John H., and Smith. 2,900,572.  
 Marples, Bernard P., and Foster. 2,917,681.  
 Parmenter, Raymond O. 2,916,090.  
 Planer, George V., and Windebank. 2,916,920.  
 Yandell, Ronald P. B. 2,892,997.
- Powers, Walter H., to Walker Mfg. Co. of Wisconsin. Tail pipe spout. 2,891,580, 6-23-59, Cl. 138-46.5.
- Powers, Walter P., to C. Todd, trustee. Self-centering coiled stock reel. 2,877,962, 3-17-59, Cl. 242-110.2.
- Powers, Walter P., to C. Todd. Fast feeding metal working machine. 2,884,119, 4-28-59, Cl. 203-150.
- Powers, William K.: *See*—  
 Passafaro, Anthony L., Braun, and Powers. 2,876,598.
- Powers, William R. and R. A. Volz, to Scott Paper Co. Cellular product and method of making the same. 2,900,278, 8-18-59, Cl. 117-98.
- Powers Wire Products Co.: *See*—  
 Young, Charles L. 2,886,815.
- Powers Wire Products Co., Inc.: *See*—  
 Powers, Richard E., and Weis. 2,914,032.  
 Powers, Richard E., and Weis. 2,914,033.
- Powischill, John W., E. W. Hine, II, and G. R. Howard, to Proctor & Schwartz, Inc. Method for feeding bulk material to plural supply locations. 2,868,400, 1-13-59, Cl. 214-152.
- Powischill, John W., and E. M. Hyde, to Proctor & Schwartz, Inc. Reversing transmission for cross lappers. 2,902,888, 9-8-59, Cl. 74-761.
- Powley, Rex H., to Skinner Corp. Packaged and sterilized milk-like product and process. 2,910,364, 10-27-59, Cl. 99-125.
- Poynter, Cyril E., to Weatherley Oilgear Ltd. Broaching machines. 2,876,682, 3-10-59, Cl. 90-33.
- Poynter, Cyril E., to Weatherley Oilgear Ltd. Broaching machines. 2,893,293, 7-7-59, Cl. 90-33.
- Poythress, James W., to R. H. Bouligny, Inc. Universal tobacco tier. 2,904,193, 9-15-59, Cl. 214-5.5.
- Pracht, Paul, to The Babcock & Wilcox Co. Dual circulation vapor generating and superheating unit. 2,881,742, 4-14-59, Cl. 122-459.
- Praeg, Walter F., to Maxim Electronics Ltd. Electric circuit for high-speed spot or spilt-seam welding. 2,881,334, 4-7-59, Cl. 307-112.
- Praeg, Walter F., to Maxim Electronics Ltd. Current switching device for electromagnetic hammers. 2,892,140, 6-23-59, Cl. 318-128.
- Praeg, Walter S., to National Broach & Machine Co. Machine for producing blended curved surfaces on the longitudinally tapered, curved leading edges of blades used in jet engines and the like. 2,905,062, 9-22-59, Cl. 90-24.3.
- Praeg, Walter S., to National Broach & Machine Co. Internal gear shaving machine. 2,917,973, 12-22-59, Cl. 90-1.6.
- Praeg, Walter S., and A. B. Bassoff, to National Broach & Machine Co. Gear finishing machine. 2,887,014, 5-19-59, Cl. 90-1.6.
- Praeg, Walter S., and J. J. Sigman, Jr., to National Broach & Machine Co. Gear honing tool. 2,913,858, 11-24-59, Cl. 51-206.
- Praemeta Praezisionsmetall- und Kunststoffzeugnisse G. Baumann & Co.: *See*—  
 Ramien, Wolfgang. 2,882,903.
- Prag, Jerome J. Outboard motor supports for automobiles. 2,907,483, 10-6-59, Cl. 214-450.
- Prager, Irwin A., and R. H. Sprague, to Sperry Rand Corp. Photographic sensitizing dyes derived from 2-alkyl-5,6-dihydro-4-H-pyran (3,2c)thiazole. 2,886,565, 5-12-59, Cl. 260-240.4.
- Prager, William M.: *See*—  
 Bartlett, Francis J. W. 2,867,263.
- Prähauser, Heinrich, and J. Petschauer, to Maschinenfabrik Heid Akt. Electromagnetic clutch for use on a shaft. 2,875,875, 3-3-59, Cl. 192-84.
- Prahl, Fred A., Jr., and E. O. Peterson, to Compo Shoe Machinery Corp. Shoe pad boxes. 2,914,782, 12-1-59, Cl. 12-38.
- Prakla Gesellschaft für Praktische Lagerstättenforschung G.m.b.H.: *See*—  
 Wachholz, Helmut. 2,913,701.



- Pralle, William F.: *See*—  
Sondie, Henry P., and Pralle. 2,900,781.
- Pramaggiore, Luigi. Electric cigarette lighter. 2,918,559, 12-22-59, Cl. 219-32.
- Prance, Stanley R., to General Motors Corp. Electrostatic method and apparatus using non-conductive discharge means. 2,911,323, 11-3-59, Cl. 117-93.
- Prance, Stanley R., and H. O. Waag, to General Motors Corp. Refrigerating apparatus. 2,878,659, 3-24-59, Cl. 62-357.
- Prange, Charles J., to Flexible Sewertool Corp. Power bucket machine. 2,892,557, 6-30-59, Cl. 214-103.
- Prange, Frederick A.: *See*—  
Myers, John W., and Prange. 2,911,357.
- Pranter, Lawrence A. Phonograph record player speed selector. 2,885,208, 5-5-59, Cl. 274-10.
- Prapas, Aristotle G.: *See*—  
Rudner, Bernard, and Prapas. 2,893,996.
- Prapst, Matthias J.: *See*—  
Pearl, Daniel M. 2,917,725.
- Prasse, Herbert F., to Thompson Products, Inc. Implement pump. 2,870,718, 1-27-59, Cl. 103-126.
- Prater, John D.: *See*—  
Zimmerley, Stuart R., and Prater. 2,876,065.
- Prater, Merle P.: *See*—  
Johnson, Reynold B., Moneagle, Koranye, Jurgens, and Prater. 2,889,110.
- Prater, Robert T., to Phillips Petroleum Co. Minimizing catalyst fines carryover in a hydrocarbon conversion unit. 2,893,949, 7-7-59, Cl. 208-150.
- Prath, Frank. Spring stretchers. 2,883,742, 4-28-59, Cl. 29-227.
- Prather, Edwin E.: *See*—  
Long, Richard H., and Prather. 2,906,833.
- Schock, Walter E., Prather, and Price. 2,911,264.
- Prather, Edwin E., to Bendix Aviation Corp. Vehicle anti-creep mechanism including motion responsive switch. 2,875,863, 3-3-59, Cl. 188-152.
- Prather, Edwin E., to Bendix Aviation Corp. Switch mechanism. 2,894,088, 7-7-59, Cl. 200-61.45.
- Prather, Edwin E., to Bendix Aviation Corp. Automatic parking device. 2,910,326, 10-27-59, Cl. 303-63.
- Prather, John B. Water power heater or cooler for nursing bottles. 2,895,718, 7-21-59, Cl. 257-74.
- Pratt, Amasa: *See*—  
Pritchard, Wilbur L., and Pratt. 2,869,085.
- Pratt, Amasa, and H. W. Royce, to The Martin Co. Water borne inflatable radar reflector unit. 2,888,675, 5-26-59, Cl. 343-18.
- Pratt, Arthur J. Stylus control motor. 2,886,279, 5-12-59, Cl. 251-3.
- Pratt, Burt C., and O. W. Webster, to E. I. du Pont de Nemours and Co. 2-fluorotropones and their preparation. 2,894,989, 7-14-59, Cl. 260-586.
- Pratt, Charles M.: *See*—  
Murdock, Paul F., and Pratt. 2,877,537.
- Pratt, Edmond O. Ether volatilizer. 2,872,167, 2-3-59, Cl. 261-14.
- Pratt, Francis L., to International Business Machines Corp. Tare correction apparatus. 2,869,853, 1-20-59, Cl. 265-27.
- Pratt, George S. Holder for nuts and bolts. 2,883,066, 4-21-59, Cl. 211-133.
- Pratt, George W., to Philco Corp. Method of minimizing heat induced stress in glass-walled articles provided with metal inserts. 2,868,533, 1-13-59, Cl. 263-2.
- Pratt, Haraden, to Bell & Gossett Co. Rotary solenoid. 2,873,412, 2-10-59, Cl. 317-192.
- Pratt, Henry, Co.: *See*—  
Fawkes, Donald G. 2,884,224.
- Fawkes, Donald G. 2,909,079.
- Killian, Henry R. 2,911,953.
- Pratt, Howard G. Concrete form. 2,918,716, 12-29-59, Cl. 25-131.
- Pratt, Inga. Scarf. 2,883,670, 4-28-59, Cl. 2-207.
- Pratt, James A. Spotlight projector. 2,909,652, 10-20-59, Cl. 240-3.
- Pratt, James D. Dial indicator stand. 2,909,351, 10-20-59, Cl. 248-160.
- Pratt, John W.: *See*—  
Badger, Henry R., Pratt, and Walter. 2,876,277.
- Pratt, Leonard C.: *See*—  
Moretti, Whitfield, and Pratt. 2,867,251.
- Pratt, M. Marguerite: *See*—  
Pratt, Ward E., and Farr. 2,873,127.
- Pratt, R. C.: *See*—  
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- Pratt, Raymond C. Window structure. 2,889,591, 6-9-59, Cl. 20-53.
- Pratt, Read & Co., Inc.: *See*—  
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- Pratt, Robert H., and R. H. Bailey, to Celanese Corp. of America. Bating material and process for producing same. 2,914,422, 11-24-59, Cl. 117-68.
- Pratt, Russell G.: *See*—  
Goodbar, Mayo A., Pratt, and Bacher. 2,889,769.
- Pratt, Ward E., deceased (by M. M. Pratt, executrix), and C. L. Farr, deceased (by C. L. Farr, Jr., executor), to Worthington Corp. Mechanical seal. 2,873,127, 2-10-59, Cl. 286-11.15.
- Pratt & Whitney Co., Inc.: *See*—  
Bernstein, Stanley. 2,905,898.
- Dexter, Albert M., Jr. 2,877,643.
- Jaeger, Jacob J. 2,876,661.
- Lavieri, Daniel C., and Hawley. 2,879,695.
- Ponting, Leonard C. 2,917,314.
- Whitney, Charles A. 2,875,611.
- Pratt, William B., to General Motors Corp. Steering wheel. 2,913,924, 11-24-59, Cl. 74-552.
- Pratt, William D. Golf swing training aid. 2,908,504, 10-13-59, Cl. 273-186.
- Praturion, Joseph. Rotary press comprising a plurality of tool groups. 2,872,887, 2-10-59, Cl. 113-42.
- Pray, George E., to Electronic Assistance Corp. Apparatus for foaming beer. 2,916,266, 12-8-59, Cl. 259-54.
- Pray, Lester W., to Saco-Lowell Shops. Top rolls. 2,867,006, 1-6-59, Cl. 19-142.
- Praeus, Charles M., to Life-Long Aluminum Awning Co., Inc. Awning construction. 2,895,185, 7-21-59, Cl. 20-57.5.
- Preble, Harry, Jr.: *See*—  
Green, Xan B. K., and Preble. 2,882,946.
- Preciado, Alfred: *See*—  
Marcus, Richard D., Zones, and Preciado. 2,896,555.
- Precise Vac-U-Tronic, Inc.: *See*—  
Scanlan, Warren F., and McGuire. 2,914,789.
- Precision Building System, Inc.: *See*—  
Zagray, Harold F. 2,882,715.
- Precision Development Co., Inc.: *See*—  
De Simone, Benjamin J., and Crozat. 2,876,040.
- Precision Grinding Ltd.: *See*—  
Clarke, Frederick R. M., and Plaut. 2,911,182.
- Dwyer, James H., and Andrews. 2,891,315.
- Precision Metal Smiths, Inc.: *See*—  
Erndt, Edmund E. 2,884,963.
- Mika, Daniel F., and Daugherty. 2,868,902.
- Precision Metal Workers: *See*—  
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- Precision Research and Development Co.: *See*—  
Smith, Fred T. 2,890,860.
- Precision Valve Corp.: *See*—  
Focht, John R. 2,906,011.
- Focht, John R. 2,906,440.
- Precision Welder & Machine Co.: *See*—  
Mecklenborg, Lawrence W. 2,892,921.
- Preco Inc.: *See*—  
Beemer, Paul K. 2,893,253.
- Beemer, Paul K., Anderson, and Burney. 2,903,864.
- Cole, Donald D. 2,904,911.
- Olson, Edgar W. 2,905,878.
- Shea, Reeford P., and Raudenbush. 2,893,134.
- Preccio, Frank M., to General Electric Co. Curing organopolysiloxanes with sulphur dichloride. 2,867,553, 1-6-59, Cl. 117-232.
- Preccio, Frank M., and A. R. Gilbert, to General Electric Co. Curable polyethylene composition comprising a peroxide containing tertiary carbon atoms, and a filler, and process of curing same. 2,888,424, 5-26-59, Cl. 260-41.
- Précoul, Michel, to Societe Technique de Recherches Industrielles et Mecaniques. Method of and device for charging explosive projectiles. 2,897,714, 8-4-59, Cl. 86-20.
- Preece, George E.: *See*—  
Halford, Frank B., Cleaver, and Preece. 2,887,456.
- Prehninger, Milos. Building or construction blocks. 2,881,614, 4-14-59, Cl. 72-42.
- Preis, Carl G., and L. K. Kuhl, to Eversharp, Inc. Safety razor with blade locking means for receiving blades from a magazine. 2,911,714, 11-10-59, Cl. 30-64.
- Preis, Georg. Device for finishing rolling of cylinders. 2,916,800, 12-15-59, Cl. 29-33.
- Preiser, Herman S.: *See*—  
Hood, James C., Jr., and Preiser. 2,892,503.
- Preiser, Herman S. Cathodic protection system and electrode holder. 2,910,420, 10-27-59, Cl. 204-196.
- Preiser, Herman S., F. E. Cook, and B. H. Tytell. Energized anode holder assembly. 2,910,419, 10-27-59, Cl. 204-196.
- Preisig, Joseph O., to Radio Corp. of America. Phase controlled oscillator. 2,879,390, 3-24-59, Cl. 250-36.
- Preisig, Joseph O., to Radio Corp. of America. Adjustable voltage supplies. 2,879,447, 3-24-59, Cl. 315-22.
- Preisig, Joseph O., and R. N. Rhodes, to Radio Corp. of America. High voltage supplies. 2,905,853, 9-22-59, Cl. 315-15.
- Preisig, Richard W. Valve having alternative closing positions and a reversible, double faced valve element. 2,911,995, 11-10-59, Cl. 137-329.02.
- Preiss, Donald M.: *See*—  
Armstrong, Jack W., and Preiss. 2,886,524.
- Preiss, Donald M., to Shell Development Co. Lubricating grease containing an inorganic gelling agent and a polylactam. 2,917,457, 12-15-59, Cl. 252-28.
- Preissler, Karl. Electrical switchgear for use in three-phase A.C. systems. 2,882,372, 4-14-59, Cl. 200-145.
- Preist, Donald H., to Eitel-McCullough, Inc. Radio frequency generator. 2,867,726, 1-6-59, Cl. 250-36.
- Preist, Donald H., to Eitel-McCullough, Inc. Electron tube apparatus. 2,867,746, 1-6-59, Cl. 315-5.35.
- Preist, Donald H., and C. E. Murdock, to Eitel-McCullough, Inc. Electron tube of the klystron type. 2,871,397, 1-27-59, Cl. 315-5.46.



- Preist, Donald H., P. D. Williams, and J. L. Hall, to Eitel-McCullough, Inc. Envelope structures for electron tubes. 2,903,614, 9-8-59, Cl. 315-5.52.
- Preli, Francis R., and J. S. Sims, Jr., to United Aircraft Corp. Signal limiting means for synchronizer. 2,878,426, 3-17-59, Cl. 317-6.
- Preload Co., Inc., The: *See*—  
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Dobell, Curzon. 2,887,762.
- Premier Furnace Co.: *See*—  
Wallerstedt, Richard J. 2,909,982.
- Premier Materials Co.: *See*—  
Stone, Peter. 2,871,075.
- Premier Research Laboratories, Inc.: *See*—  
Font, Ramo. 2,915,612.
- Premo, Ellis J., to General Motors Corp. Automotive fender air duct structures. 2,888,274, 5-26-59, Cl. 280-152.
- Premo, Marvin C.: *See*—  
Jahn, Earl W., and Premo. 2,893,078.
- Premoshis, Robert T. Electrical outlet. 2,908,743, 10-13-59, Cl. 174-53.
- Prendergast, Frank L., and N. Krasney, to Northrop Aircraft, Inc. Bi-directional incremental motion stepper motor. 2,881,621, 4-14-59, Cl. 74-126.
- Prendergast, John R.: *See*—  
Toepfer, Walter J., and Prendergast. 2,909,004.
- Prendergast, William L.: *See*—  
Gilbert, Geoffrey, and Prendergast. 2,905,969.
- Prenk, Joseph. Power operated lifter. 2,873,772, 2-17-59, Cl. 141-147.
- Prentice, Allan L., to American Brake Shoe Co. Brake shoe keys. 2,873,825, 2-17-59, Cl. 188-243.
- Prentice, G. E., Mfg. Co., The: *See*—  
Legat, Robert C. 2,916,786.
- Prentice, Thomas H. Apparatus for applying adhesive to wood veneer. 2,899,927, 8-18-59, Cl. 118-102.
- Prentiss, Kenneth R.: *See*—  
Geisler, Henry A., and Prentiss. 2,876,069.
- Prentiss, Spencer S., to Phillips Petroleum Co. Apparatus for measuring low pressure. 2,914,948, 12-1-59, Cl. 73-398.
- Prentiss, Spencer S., to Phillips Petroleum Co. Recovery of hydrocarbon from oil shale adjoining a permeable oil-bearing stratum. 2,917,296, 12-15-59, Cl. 262-3.
- Prenville, Donald E. Retractable garment hanger for sliding door closets. 2,915,197, 12-1-59, Cl. 211-170.
- Presby, Edward P.: *See*—  
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- Prescolite Mfg. Corp.: *See*—  
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- Prescon Corp., The: *See*—  
Middendorf, Karl H. 2,881,647.
- Prescott, Charles H., Jr., and F. L. Reynolds, to United States of America, Atomic Energy Commission. Process of preparing uranium metal. 2,868,636, 1-13-59, Cl. 75-84.1.
- Prescott, David B., to Cleveland Pneumatic Industries, Inc. Shock absorber and pressure sensitive metering device therefor. 2,919,127, 12-29-59, Cl. 267-64.
- Prescott, Ford L., and E. A. Hulbert, to Continental Aviation & Engineering Corp. Internal combustion engines. 2,911,964, 11-10-59, Cl. 123-41.65.
- Prescott, Frank R., to Pittsburgh Plate Glass Co. Sealing means for glazing unit. 2,887,737, 5-26-59, Cl. 20-56.5.
- Prescott, Frank R., to Pittsburgh Plate Glass Co. Pore closure structure for multiple glazed unit. 2,894,294, 7-14-59, Cl. 20-56.5.
- Prescott, Frank R., and W. R. Bauer, to Pittsburgh Plate Glass Co. Sealing means for glazing unit. 2,887,738, 5-26-59, Cl. 20-56.5.
- Prescott, Henry J. Filter heads. 2,886,177, 5-12-59, Cl. 210-292.
- Prescott, Herbert L.: *See*—  
Daly, Thomas A., and Prescott. 2,899,923.
- Prescott, Merton W. Printing attachment for paper dispenser. 2,915,971, 12-8-59, Cl. 101-213.
- Preskitt, Stanley V.: *See*—  
Parish, Charles W., and Preskitt. 2,889,713.
- Preskitt, Stanley V., to American Meter Co., Inc. Force amplifier. 2,912,868, 11-17-59, Cl. 74-25.
- Presler, James L., to Corson Brothers, Inc. Rotary scatterer. 2,886,334, 5-12-59, Cl. 275-8.
- Presnal, Allister L.: *See*—  
Greenwood, Marvin H., and Presnal. 2,888,025.
- Presnick, Michael C. Trellis construction. 2,917,868, 12-22-59, Cl. 47-47.
- Presray Corp., The: *See*—  
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- Press, John E.: *See*—  
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- Press, Meyer, to Hazeltine Research, Inc. High-frequency wave-signal tuning device. 2,910,658, 10-27-59, Cl. 333-82.
- Pressau, Jean P.: *See*—  
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- Pressau, Jean P., to Callery Chemical Co. Radiation dosimeter color standard. 2,882,415, 4-14-59, Cl. 250-83.
- Pressed Steel Co. Ltd.: *See*—  
Jones, Stanley O. 2,895,224.
- Pressed Steel Tank Co.: *See*—  
Johnson, Roy R. 2,872,068.
- Presser, Leiser. Automatic window cleaner. 2,885,708, 5-12-59, Cl. 15-250.4.
- Pressley, Frederick W., to United States of America, Atomic Energy Commission. Tapered defining slot. 2,903,586, 9-8-59, Cl. 250-41.9.
- Pressler, Harry B. Garment hangers. 2,877,940, 3-17-59, Cl. 223-88.
- Pressley, Vivienne M. Diaper holder. 2,893,393, 7-7-59, Cl. 128-287.
- Pressly, Roscoe S., to United States of America, Atomic Energy Commission. Separation of americium from promethium. 2,893,827, 7-7-59, Cl. 23-14.5.
- Pressman, Donald: *See*—  
Pressman, Hyman I., and D. 2,902,758.  
Pressman, Hyman I., and D. 2,902,758, 9-8-59, Cl. 30-60.5.
- Pressman, Joel J. Combined dry shaver and oral instrument. 2,878,499, 3-24-59, Cl. 15-22.
- Pressman, Ralph: *See*—  
Spaulding, Spencer W., and Pressman. 2,886,241.
- Pressner, Samuel. Brightening compositions. 2,915,472, 12-1-59, Cl. 252-153.
- Presson, David, to Century Sportswear Co., Inc. Reversible, knife-pleated skirt of the wrap-around type. 2,898,601, 8-11-59, Cl. 2-211.
- Pressure Dispensers, Inc.: *See*—  
Collins, Leonard M. 2,869,764.  
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Collins, Leonard M. 2,919,056.
- Pressure Products Industries, Inc.: *See*—  
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- Pressure Services, Inc.: *See*—  
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- Prest, Robert J., to Technical Operations, Inc. Radiographic device. 2,916,628, 12-8-59, Cl. 250-106.
- Presto Lock Co.: *See*—  
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- Prestole Corp.: *See*—  
Garman, Donald F. 2,899,729.  
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Garman, Donald F. 2,908,470.
- Preston, Albert E.: *See*—  
Gardner, Roland M., Yeo, and Preston. 2,880,494.
- Preston, Grace D. Keycase for retractable keys. 2,908,156, 10-13-59, Cl. 70-456.
- Preston, Iris W.: *See*—  
Lloyd, Arthur J., and Preston. 2,897,111.
- Preston, John: *See*—  
Olson, Harry F., and Preston. 2,870,856.
- Preston, John M., to General Mills, Inc. Bleaching and color stabilization of fatty acids and related materials. 2,876,174, 3-3-59, Cl. 202-57.
- Preston, Martin S. Remote control actuating devices. 2,901,914, 9-1-59, Cl. 74-216.3.
- Preston, Neil D., to General Railway Signal Co. Check-in and check-out block signaling system using regular track circuits. 2,895,043, 7-14-59, Cl. 246-41.
- Preston, Neil D., to General Railway Signal Co. Multiple station code communication system. 2,907,980, 10-6-59, Cl. 340-163.
- Preston, Neil D., and F. B. Hitchcock, to General Railway Signal Co. Switch and signal control system for railroads. 2,914,662, 11-24-59, Cl. 246-5.
- Preston Street Comb Co. Ltd.: *See*—  
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- Prestressing, Inc.: *See*—  
Brandt, Fred H. 2,867,884.
- Prete, Ernest Jr.: *See*—  
Elsner, Edwin C., and Prete. 2,867,876.
- Prete, Ernest, Jr., to G. D. Brown. Strap fastening and tensioning device. 2,889,136, 6-2-59, Cl. 254-164.
- Prete, Ernest, Jr., to Gordon D. Brown. Quick release buckle. 2,901,794, 9-1-59, Cl. 24-75.
- Pretka, Frank: *See*—  
Cunningham, George L., and Pretka. 2,894,975.
- Pretka, John E.: *See*—  
Katz, Leon, Hein, Pretka, and Long. 2,913,450.  
Long, Robert S., and Pretka. 2,915,534.
- Pretorius, Yarl. Fishing lure. 2,869,279, 1-20-59, Cl. 43-42.6.
- Preuss, Albert F., Jr.: *See*—  
Frisch, Norman W., and Preuss. 2,906,714.
- Preusser, Henry M.: *See*—  
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- Previc, Edward P.: *See*—  
Hotelling, Eric B., Neuworth, and Previc. 2,882,319.
- Previte, Matilde. Sanitary replaceable toilet seat cover. 2,903,713, 9-15-59, Cl. 4-242.
- Prevost, Bruno E., to John W. Bolton & Sons, Inc. Jordan plug body. 2,871,769, 2-3-59, Cl. 92-27.
- Prevost, Bruno E., to John W. Bolton & Sons, Inc. Suction box cover. 2,896,711, 7-28-59, Cl. 162-374.
- Preway, Inc.: *See*—  
Jenson, Kenneth S., and Roth. 2,893,305.  
Nelson, Averd G. 2,918,916.  
Nelson, Willis N., and Pavlak. 2,883,978.
- Prial, Gerard. Envelopes. 2,872,099, 2-3-59, Cl. 229-73.
- Pribble, Noble F., to Bendix Aviation Corp. Acceleration control for fuel injector. 2,911,966, 11-10-59, Cl. 123-119.



- Pribis, Herman K. Stand for pistols. 2,877,689, 3-17-59, Cl. 89-37.
- Pribonic, John F.: See—  
Jackson, George W., and Pribonic. 2,904,330.  
Jackson, George W., and Pribonic. 2,918,304.
- Pribyl, Frank V. Semi-automatic boat bailer. 2,888,897, 6-2-59, Cl. 114-185.
- Price, Alice L. Rain bonnet. 2,903,705, 9-15-59, Cl. 2-207.
- Price, Berry G., to Tuboscope Co. Means for handling pipe protectors. 2,880,499, 4-7-59, Cl. 29-236.
- Price, Berry G., to Tuboscope Co. Tubing caliper. 2,915,830, 12-8-59, Cl. 33-178.
- Price, Berry G., J. H. Unger, and F. M. Wood, to Tuboscope Co. Methods and apparatus for inspecting ferromagnetic members. 2,878,446, 3-17-59, Cl. 324-37.
- Price, Berry G., J. H. Unger, and F. M. Wood, to Tuboscope Co. Apparatus for inspecting ferromagnetic members. 2,878,447, 3-17-59, Cl. 324-37.
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- Price, Berry G., F. M. Wood, and J. H. Unger, to Tuboscope Co. Pipe inspection apparatus. 2,882,488, 4-14-59, Cl. 324-37.
- Price, Berry G., F. M. Wood, and J. H. Unger, to Tuboscope Co. Measuring instruments. 2,908,085, 10-13-59, Cl. 33-178.
- Price, Berry G., F. M. Wood, and J. H. Unger, to Tuboscope Co. Pipe inspection apparatus. 2,909,393, 10-20-59, Cl. 308-4.
- Price Brothers Co.: See—  
Wysong, Donald G. 2,875,988.
- Price, Carl E.: See—  
McEwen, Robert L., Raleigh, and Price. 2,875,102.  
McEwen, Robert L., Raleigh, and Price. 2,912,297.
- Price, Carl R. Beam clip and suspension device. 2,868,490, 1-13-59, Cl. 248-228.
- Price, Charles C.: See—  
Brennan, James A., and Price. 2,881,061.
- Price, Charles C., to Hercules Powder Co. Preparation of oxetane polymers. 2,895,921, 7-21-59, Cl. 260-2.
- Price, Clarence A., and W. L. Rupp, to Hoover Ball & Bearing Co. Ball cock. 2,869,571, 1-20-59, Cl. 137-215.
- Price, Clarence A., E. Fischer, and R. J. Schultz, to Bradson Mfg. Corp. Valve assembly. 2,901,186, 8-25-59, Cl. 239-538.
- Price, Donald A., Sr., to American Brake Shoe Co. Conveyor flights. 2,889,916, 6-9-59, Cl. 198-176.
- Price, Earl R.: See—  
Schock, Walter E., Prather, and Price. 2,911,264.
- Price, Earl R., to Bendix Aviation Corp. Automatic braking system. 2,871,064, 1-27-59, Cl. 303-31.
- Price, Earl R., to Bendix Aviation Corp. Power-assisted actuator. 2,871,828, 2-3-59, Cl. 121-41.
- Price, Earl R., to Bendix Aviation Corp. Combined hydraulic system for power steering and power brakes. 2,875,843, 3-3-59, Cl. 180-79.2.
- Price, Earl R., to Bendix Aviation Corp. Power booster valve construction. 2,880,704, 4-7-59, Cl. 121-41.
- Price, Earl R., to Bendix Aviation Corp. Servo-motor having chatter eliminating means. 2,880,706, 4-7-59, Cl. 121-41.
- Price, Earl R., to Bendix Aviation Corp. Trailer synchronizing valve. 2,897,653, 8-4-59, Cl. 60-97.
- Price, Earl R., to Bendix Aviation Corp. Fluid pressure servo-motor. 2,902,006, 9-1-59, Cl. 121-38.
- Price, Earl R., and E. E. Hupp, to Bendix Aviation Corp. Power-assisted actuator. 2,902,008, 9-1-59, Cl. 121-41.
- Price, Earl R., and R. H. Long, to Bendix Aviation Corp. Automatic braking system. 2,910,325, 10-27-59, Cl. 303-30.
- Price, Edgar D.: See—  
Fink, Israel J., and Price. 2,883,890.
- Price, Edgar E.,  $\frac{1}{10}$  to J. R. Forman and  $\frac{1}{10}$  to D. C. Glassie. Stereo-optical system. 2,895,374, 7-21-59, Cl. 88-16.6.
- Price, Frank B.: See—  
Bruniche-Olsen, Henning A., Wright, Price, Steele, and Silver. 2,885,311.
- Price, George A. Combined air conditioner and fuel systems for automotive vehicles. 2,908,143, 10-13-59, Cl. 62-7.
- Price, George E., to Westinghouse Electric Corp. Oven heating apparatus. 2,872,558, 2-3-59, Cl. 219-35.
- Price, Harold E.: See—  
Earnshaw, Frederick M., and Price. 2,885,541.
- Price, James H., and J. E. Clayton. Brick cleaning machine. 2,901,868, 9-1-59, Cl. 51-80.
- Price, Joel S. Telescoping irrigation apparatus. 2,896,858, 7-28-59, Cl. 239-212.
- Price, Joel S. Irrigation apparatus. 2,896,859, 7-28-59, Cl. 239-213.
- Price, John A., to American Cyanamid Co. Copolymers of a dialkyl amine oxide and a monovinylidene compound and oriented fiber thereof. 2,871,229, 1-27-59, Cl. 260-85.5.
- Price, John A., to American Cyanamid Co. Copolymer of acrylonitrile, a quaternary ammonium compound and at least one additional comonomer. 2,883,370, 4-21-59, Cl. 260-80.3.
- Price, John A., to American Cyanamid Co. Copolymer of acrylonitrile and a quaternary imidazolium compound, method of making same, and a spinning solution thereof. 2,891,023, 6-16-59, Cl. 260-29.6.
- Price, John A., and J. J. Padbury, to American Cyanamid Co. Preparation of an acrylonitrile-methyl acrylate-methyl vinylpyridine ternary polymer. 2,891,035, 6-16-59, Cl. 260-45.5.
- Price, Joseph C. Lubricator for slideways. 2,891,271, 6-23-59, Cl. 15-131.05.
- Price, Kenneth E., and H. G. Luther, to Chas. Pfizer & Co., Inc. Antibacterial compositions comprising a tetracycline-type antibiotic and an alkyl phenoxyethoxyethyl dialkylbenzyl ammonium salt. 2,907,693, 10-6-59, Cl. 167-65.
- Price, Peter R.,  $\frac{1}{2}$  to G. E. B. Abell, and  $\frac{1}{2}$  to D. W. Tilley. Display apparatus to allow examination of a fast-moving continuous web. 2,871,012, 1-27-59, Cl. 271-2.3.
- Price, Ralph E., to Gardner Machine Co. Surface grinding machine. 2,871,625, 2-3-59, Cl. 51-118.
- Price, Ralph E., to Gardner Machine Co. Positioning abrasive discs for dressing. 2,882,651, 4-21-59, Cl. 51-118.
- Price, Ralph E., to Gardner Machine Co. Rotary work carriers for disc grinders. 2,899,779, 8-18-59, Cl. 51-118.
- Price, Ralph E., and C. F. Hurr, to Gardner Machine Co. Size and alignment control means. 2,882,650, 4-21-59, Cl. 51-112.
- Price, Richard T.: See—  
Lewin, Seymour S., Schapiro, and Price. 2,880,139.
- Price, Robert J. Transistor-saturable reactor relay with over-frequency cutout. 2,894,180, 7-7-59, Cl. 317-148.
- Price, Robert J. Blocking oscillator. 2,896,080, 7-21-59, Cl. 250-27.
- Price, Russell W. Hospital drain bag. 2,886,036, 5-12-59, Cl. 128-275.
- Price, Thomas D., and A. V. Henrickson, to United States of America, Atomic Energy Commission. Improved processes for recovering and purifying uranium. 2,886,409, 5-12-59, Cl. 23-14.5.
- Price, William G. Method and apparatus for measuring magnetic fields. 2,914,727, 11-24-59, Cl. 324-43.
- Price, William H., to Parke, Davis & Co. Process for the production of alkali metal estrone sulfate salts. 2,917,522, 12-15-59, Cl. 260-397.4.
- Prichard, John H.: See—  
Kinney, Paul W., and Prichard. 2,883,299.
- Prichard, John H., F. J. Rielly, and F. Brown, to Celanese Corp. of America. Magnetic recording tape. 2,883,301, 4-21-59, Cl. 117-7.
- Prichard, John S., to United States of America, Navy. Stepped R-F tuner. 2,918,637, 12-22-59, Cl. 333-82.
- Prichard, William K. Reversible ratchet wrench with handle extension means. 2,869,410, 1-20-59, Cl. 81-177.
- Prichard, William W., to E. I. du Pont de Nemours & Co. Butadiene-cobalt carbonyl hydride adduct. Re. 24,653, 5-26-59, Cl. 260-439.
- Prickett, Alfred D., to Joseph Lucas (Industries) Ltd. Electromagnetic switches. 2,911,497, 11-3-59, Cl. 200-95.
- Pride, George H., to Acme Steel Co. Container for granular materials. 2,907,508, 10-6-59, Cl. 229-4.5.
- Priddy, Whetstone B. Combination potato digger and sorter. 2,896,728, 7-28-59, Cl. 171-130.
- Priem, Martin E. Grill. 2,884,849, 5-5-59, Cl. 99-444.
- Prier, William A. Dual outboard motor steering rig. 2,899,833, 8-18-59, Cl. 74-471.
- Pries, Rinehard, and H. J. Moors, to The Gene Olsen Corp. Rack unloader. 2,917,191, 12-15-59, Cl. 214-16.4.
- Priesmeyer, Charles, to Meyer & Wenthe, Inc. Seal press support and die and method for forming the latter. 2,906,197, 9-29-59, Cl. 101-28.
- Priesmeyer, Charles, to Meyer-Wenthe, Inc. Die stamp. 2,909,817, 10-27-59, Cl. 22-67.
- Priesnitz, Frederick J.: See—  
Haworth, Russell G., Fleming, Priesnitz, and McLaughlin. 2,916,274.
- Priest, Dwight E.: See—  
La Pointe, Gabriel M., and Priest. 2,902,071.
- Priest, Gerald G.: See—  
Birdwell, Bertie F., Priest, and Morgan. 2,894,584.
- Priest, Gerald G., B. E. Morgan, M. L. Lytle, J. A. Caldwell, and B. F. Birdwell, to Jersey Production Research Co. Well completion fluids. 2,898,294, 8-4-59, Cl. 252-8.55.
- Priester, Amos U., Jr., to Callaway Mills Co. Tufted fabric with bias fabric backing and process for producing the same. 2,910,762, 11-3-59, Cl. 28-72.
- Priestly, Frank P. Heated wire-cutting device. 2,916,595, 12-8-59, Cl. 219-29.
- Priestman, Bewley D.: See—  
Cockburn, Stanley D., Leslie, Priestman, and Ragsdale. 2,871,049.
- Priestman Brothers Ltd.: See—  
Richardson, Bert, and Brocklebank. 2,908,069.
- Prieti, Franz. Process of producing crystals from particles of crystallizable substance distributed in a liquid. 2,876,083, 3-3-59, Cl. 23-295.
- Prieto, Fernando G. Guns. 2,907,250, 10-6-59, Cl. 89-8.
- Prietzschk, Artur: See—  
Linsert, Friedrich, and Prietzschk. 2,889,463.
- Priftis, Sidaire: See—  
Orioni, Silvie M., and Priftis. 2,883,634.
- Prigg, William B., Jr. Evaporation fish feeder. 2,905,144, 9-22-59, Cl. 119-5.
- Prill, Erhard J., to Monsanto Chemical Co. Chlorinated ketone synthesis. 2,879,296, 3-24-59, Cl. 260-591.



- Prill, Erhard J., to Monsanto Chemical Co. Process for producing monochloroacetyl chloride by chlorinating ketene in sulfur dioxide. 2,889,365, 6-2-59, Cl. 260-544.
- Prill, Erhard J., to Monsanto Chemical Co. Preparation of vinylidene chlorofluoride. 2,894,043, 7-7-59, Cl. 260-653.5.
- Prill, Erhard J., to Monsanto Chemical Co. Preparation of 1,1-dichloro-1-fluoroethane. 2,894,044, 7-7-59, Cl. 260-653.7.
- Prill, Erhard J., to Monsanto Chemical Co. Oxatricyclo-decenes. 2,904,558, 9-15-59, Cl. 260-346.2.
- Prill, Erhard J., and M. Kosmin, to Monsanto Chemical Co. Preparation of diaryl ketones. 2,879,297, 3-24-59, Cl. 260-591.
- Prime Mfg. Co., The: *See*—  
Antell, Joseph C. 2,875,455.  
Hanson, Einar H., and Strom. 2,903,723.  
Lucas, John A. 2,914,351.
- Primich, Theodore. Metal builder's construction material. 2,897,930, 8-4-59, Cl. 189-86.
- Prince, Arthur E., and D. C. Larson, to Otis Elevator Co. Overload protective device for motor control systems. 2,890,402, 6-9-59, Cl. 318-434.
- Prince, David C. Recording and translating of intelligence. 2,897,267, 7-28-59, Cl. 178-17.
- Prince, Earl L. Display cabinet. 2,904,381, 9-15-59, Cl. 312-126.
- Prince, George W.: *See*—  
Bass, Helen L. 2,881,441.
- Prince, Richard. Closure means for cylinder units. 2,890,917, 6-16-59, Cl. 309-2.
- Prince, Sidney S.: *See*—  
Atkin, Sydney, and Prince. 2,905,535.
- Prince-Smith & Stells Ltd.: *See*—  
Feather, Edmund E. 2,912,815.
- Pring, Robert T., to Wheelabrator Corp. Method and apparatus for the removal or recovery of vapors from air. 2,875,844, 3-3-59, Cl. 183-4.3.
- Pring, Robert T., to Wheelabrator Corp. Method for adsorbing contaminating vapors from gaseous medium. 2,875,847, 3-3-59, Cl. 183-114.2.
- Pring, Robert T., to Wheelabrator Corp. Method for removal of halides from gases. 2,919,174, 12-29-59, Cl. 23-2.
- Pringham, Henry E. J., to Studebaker-Packard Corp. Combination accumulator and starting pump for fuel injection system. 2,881,749, 4-14-59, Cl. 123-187.5.
- Pringle, Robert W.: *See*—  
Lundberg, Hans T. F., Pringle, Roulston, and Brownell. 2,897,368.
- Prins, Gerhard: *See*—  
Goldbohm, Erich, Prins, and Schimmel. 2,915,749.
- Prins, Gerhard, to North American Phillips Co., Inc. Radar relay for transmitting radar images. 2,915,746, 12-1-59, Cl. 343-6.
- Printing Industries Equipment Inc.: *See*—  
Robbins, Leo, and Bendror. 2,911,659.
- Printon Corp.: *See*—  
Goland, Marc and L., and Bernstein. 2,872,347.
- Printon, Jane M.: *See*—  
Mueller, Charles W., and Printon. 2,870,050.
- Printy, Helen C.: *See*—  
Julian, Percy L., Georgian, and Printy. 2,910,487.  
Julian, Percy L., and Printy. 2,885,398.  
Julian, Percy L., and Printy. 2,891,974.  
Julian, Percy L., and Printy. 2,891,975.  
Julian, Percy L., and Printy. 2,900,399.
- Printz, Warren F., to The Manchester Machine Co. Antotension felt stretcher. 2,918,970, 12-29-59, Cl. 162-273.
- Prinz, Eberhard: *See*—  
Bestian, Herbert, and Prinz. 2,907,805.
- Prior, Allan E. Cam and jack arrangements for flat-bed transfer knitting machines. 2,877,634, 3-17-59, Cl. 66-63.
- Prior, Edmond: *See*—  
Higgins, Clifford, and Prior. 2,881,345.
- Prism Signs Inc.: *See*—  
Pabst, Rudolf, and Thomas. 2,915,843.  
Pabst, Rudolf, and Thomas. 2,915,935.  
Thomas, William E. 2,915,844.
- Prismo Safety Corp.: *See*—  
Rockwell, Donald M., Keeley, and Joseph. 2,882,632.
- Pristo, Ervin R., to Western Electric Co., Inc. Indicating device for simultaneously checking a plurality of dimensions of articles. 2,908,084, 10-13-59, Cl. 33-174.
- Pritchard, Clarence L., to Malsbary Mfg. Co. Diaphragm pump. 2,873,687, 2-17-59, Cl. 103-150.
- Pritchard, Dalton H., to Radio Corp. of America. Color television. 2,884,482, 4-28-59, Cl. 178-5.4.
- Pritchard, Dalton H., to Radio Corp. of America. Color television. 2,888,514, 5-26-59, Cl. 178-5.4.
- Pritchard, Dalton H., and A. C. Schroeder, to Radio Corp. of America. Color television synchronous detectors. 2,884,480, 4-28-59, Cl. 178-5.4.
- Pritchard, Dalton H., and A. C. Schroeder, to Radio Corp. of America. Automatic white level limit control. 2,892,028, 6-23-59, Cl. 178-7.3.
- Pritchard, J. F., & Co.: *See*—  
Swenson, Leonard K. 2,916,355.
- Pritchard, Jack D., and S. R. Blackwell. Rock-drilling machine. 2,913,226, 11-17-59, Cl. 255-51.
- Pritchard, James E., to Phillips Petroleum Co. Polyfunctional polymeric products. 2,888,436, 5-26-59, Cl. 260-73.
- Pritchard, James E., to Phillips Petroleum Co. Parasiticides, their preparation and use. 2,875,097, 2-24-59, Cl. 117-138.5.
- Pritchard, John E., and W. H. Stokes, to United States Steel Corp. Bundling apparatus. 2,883,925, 4-28-59, Cl. 100-1.
- Pritchard, Robert L., to General Electric Co. Junction transistors and circuits therefor. 2,910,653, 10-27-59, Cl. 331-108.
- Pritchard, Wilbur L., and A. Pratt, to Raytheon Mfg. Co. Selective absorbers. 2,869,085, 1-13-59, Cl. 333-98.
- Pritchett, Ervin G.: *See*—  
Robinson, Robert E., and Pritchett. 2,915,542.  
Rowland, Stanley P., and Pritchett. 2,916,480.
- Pritchett, Harley E.: *See*—  
Palmer, George V., and Pritchett. 2,900,061.
- Pritchett, Wilson S., to Knopp, Inc. Apparatus for testing instrument transformers. 2,911,591, 11-3-59, Cl. 324-55.
- Pritikin, Nathan. Method of producing an electrical component. 2,910,766, 11-3-59, Cl. 29-155.5.
- Pritzert, Abe. Seal for window having air conditioner. 2,909,812, 10-27-59, Cl. 20-52.4.
- Pritzert, Abe. Window seal with magnetic fastener. 2,914,818, 12-1-59, Cl. 20-52.4.
- Privett, Roy F., to The General Electric Co. Ltd. Directional aerial systems. 2,881,434, 4-7-59, Cl. 343-779.
- Probasco, Harold T., to Oak Mfg. Co., Inc. Agitating dispenser for encapsulated articles. 2,880,906, 4-7-59, Cl. 221-203.
- Prober, Maurice, to General Electric Co. Grignard reaction of cyanoalkylsilanes in the presence of tertiary amines. 2,913,472, 11-17-59, Cl. 260-448.2.
- Probert, Rhys P.: *See*—  
Chamberlin, Reginald H. D., Mallinson, and Probert. 2,871,659.
- Probescope Co.: *See*—  
Hoffmann, Richard R. 2,915,897.
- Probst, Delbert C., to General Motors Corp. Latch for pivoting seat. 2,874,993, 2-24-59, Cl. 296-65.
- Probst, Delbert C., to General Motors Corp. Window regulator. 2,876,003, 3-3-59, Cl. 268-126.
- Probst, Delbert C., to General Motors Corp. Cleaning and silencing means. 2,897,916, 8-4-59, Cl. 183-62.
- Probus, James H., to United States of America, Navy. Vector locus plotters. 2,886,774, 5-12-59, Cl. 324-57.
- Probus, James H., to United States of America, Navy. Piezo-electric sandwich transducer. 2,895,061, 7-14-59, Cl. 310-9.7.
- Proc, John: *See*—  
Sottysiak, Joseph, and Proc. 2,913,339.
- Procedo G.m.b.H.: *See*—  
Dillenburger, Albert. 2,912,069.
- Process Engineers Inc.: *See*—  
Kivari, Arthur M. 2,876,863.  
Kelly, Earl M. 2,881,922.
- Process Evaluation and Development Corp.: *See*—  
Birdseye, Clarence. 2,899,350.
- Prochazka, Miroslav: *See*—  
Navratil, Miroslav, and Prochazka. 2,871,693.
- Procido, Richard M.: *See*—  
Birmingham, Arthur T., Jr., and Procido. 2,910,222.
- Procopio, Vincent F., and J. W. Roy, to United States of America, Army. Method for electrical etching of metal foils. 2,909,639, 10-20-59, Cl. 219-69.
- Proco-Sol Chemical Co.: *See*—  
Korner, John. 2,890,979.
- Procosol Chemical Co., Inc.: *See*—  
Korner, John. 2,890,979.
- Procter, Edward C., to Sperry Rand Corp. Idler mounting. 2,910,880, 11-3-59, Cl. 74-242.15.
- Procter & Gamble Co., The: *See*—  
Bedenk, William T. 2,874,052.  
Bedenk, William T., and Phenix. 2,874,051.  
Broge, Robert W., and Grabenstetter. 2,876,168.  
Brown, Arthur G., Lee, and Sancier. 2,913,460.  
Burt, Robert V. 2,889,966.  
Holman, George W. 2,871,130.  
Holman, George W., and Going. 2,875,066.  
Holman, George W., and Going. 2,875,067.  
Holman, George W., and Mills. 2,886,578.  
Hurley, Richard H., and Rowe. 2,918,377.  
Krumrei, William C. 2,877,186.  
Krumrei, William C., Strain, and Peddicord. 2,877,185.  
Macneale, Neil. 2,913,861.  
McCune, Homer W. 2,892,796.  
Milenkevich, Joseph A., and Henjum. 2,895,916.  
Mills, Victor. 2,874,053.  
Moore, Robert S. 2,869,559.  
Strain, Bruce, Eaton, and Ericson. 2,876,200.  
Tecklenburg, Harry. 2,889,283.  
Vuilleminot, Robert P. 2,913,140.
- Procter, Samuel A. Energy-transfer circuit. 2,879,330, 3-24-59, Cl. 178-7.3.
- Proctor, Barton A.,  $\frac{1}{2}$  to S. E. Proctor,  $\frac{1}{2}$  to R. C. Proctor,  $\frac{1}{2}$  to B. A. Proctor, Jr., and  $\frac{1}{2}$  to A. C. Nolte. Tone arm control. 2,884,256, 4-28-59, Cl. 274-23.
- Proctor, Barton A., to Proctor Dictating Machine Corp. Sound recording and reproducing apparatus. 2,911,161, 11-3-59, Cl. 242-55.12.
- Proctor, Barton A., Jr.: *See*—  
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- Proctor Chemical Co., Inc.: *See*—  
Beaumont, Warren L., and House. 2,884,301.
- Proctor Counter Co., The: *See*—  
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- Proctor Dictating Machine Corp.: *See*—  
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- Proctor Electric Co.: *See*—  
Hortman, Harvey E., Jr. 2,896,347.  
Turner, Charles R. 2,877,702.  
Turner, Charles R. 2,906,845.
- Proctor Mfg. Corp.: *See*—  
Clapp, Daniel E. 2,908,092.
- Proctor, Robert C.: *See*—  
Proctor, Barton. 2,884,256.
- Proctor, Sarah E.: *See*—  
Proctor, Barton A. 2,884,256.
- Proctor & Schwartz, Inc.: *See*—  
Clelland, William M., Wilson, and Glassford. 2,915,892.  
Marshall, William R., Jr. 2,880,794.  
Powischill, John W., Hine, and Howard. 2,868,400.  
Powischill, John W., and Hyde. 2,902,888.  
Thygeson, John R., Sr. 2,894,334.  
Wilson, Jack P. 2,881,472.
- Proctor, Sidney E., to Austin Hoy and Co. Ltd. Tool-carrying chains. 2,872,826, 2-10-59, Cl. 74—246.
- Proctor, Sidney E., to Austin Hoy and Co. Ltd. Coal-cutter chains. 2,877,006, 3-10-59, Cl. 262—28.
- Proctor, Sidney E., to Austin Hoy and Co. Ltd. Cutter bit holder. 2,893,714, 7-7-59, Cl. 262—33.
- Production and Marketing Co.: *See*—  
Crawford, Warren M., Jr. 2,873,938.  
Rosti, Arpad, and Brunot. 2,896,950.
- Production Metal Stamping Co.: *See*—  
Hamann, Harry L. 2,895,370.
- Production Pattern & Foundry Co.: *See*—  
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- Production Tool Alloy Co. Ltd.: *See*—  
Penrice, Thomas W. 2,893,062.
- Production Tool Die Co., Inc.: *See*—  
Gaudreau, Richard J. 2,869,755.
- Productive Equipment Co.: *See*—  
Ferrara, Achille K. 2,902,868.  
Lehman, Lewis H. 2,884,790.
- Products and Production Devices Co.: *See*—  
Osborne, Russell E., Moyer, and Coyne. 2,882,955.
- Products for Industry: *See*—  
Johnston, David B., Johnson, Cristy, and Trautmann. 2,909,400.
- Products Tank Line of Canada Ltd.: *See*—  
Gram, Anker. 2,912,074.
- Proefke, Lawrence. Rack gear with improved method of making. 2,869,389, 1-20-59, Cl. 74—462.
- Professional Golf Co.: *See*—  
Harkins, Jack. 2,914,328.
- Profos, Paul, to Sulzer Freres, Societe Anonyme. Method of generating steam in a forced flow steam generator. 2,907,305, 10-6-59, Cl. 122—379.
- Progressive Machinery Corp.: *See*—  
Burman, Joseph O. 2,876,820.
- Prohaczka, Caroline (Karla) and S. Portable fans. 2,909,316, 10-20-59, Cl. 230—249.5.
- Prohaczka, Stefan: *See*—  
Prohaczka, Caroline (Karla) and S. 2,909,316.
- Projectile & Engineering Co. Ltd., The: *See*—  
Gaspar, Emeric, and Munns. 2,914,804.  
Gaspar, Emeric, Munns, and Harrison. 2,880,461.  
Gaspar, Emeric, Munns, and Harrison. 2,894,286.
- Prokop, Charles L.: *See*—  
Graham, John W., Perkins, Prokop, and Salathiel. 2,873,423.
- Prokop, Charles L., to Jersey Production Research Co. Drilling fluid for wells. 2,890,169, 6-9-59, Cl. 252—8.5.
- Proksa, John R., to Everede Tool Co. Tool bit holder. 2,912,744, 11-17-59, Cl. 29—96.
- Proll, Gustave. Molded plastic reed plate. 2,879,623, 3-31-59, Cl. 46—66.
- Pronio, Harry A. Portable lectern. 2,868,878, 1-13-59, Cl. 179—1.
- Prono, Edward: *See*—  
Hintzman, John L., Hoagland, and Prono. 2,893,682.
- Pro-Phy-Lac-Tic Brush Co.: *See*—  
May, John K., and Maynard. 2,874,419.
- Proplastec: *See*—  
Riffet, Marcel, and Damidot. 2,918,187.
- Propper Mfg. Co., Inc.: *See*—  
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Speelman, Irving A. 2,896,610.  
Speelman, Irving A. 2,896,628.
- Props Establishment: *See*—  
D'Haveloose, Marnix F. 2,903,226.
- Propst, Robert L., to Beauty Products, Ltd. Detachable joint connection for use with knockdown units. 2,877,519, 3-17-59, Cl. 20—92.
- Propster, Charles H., Jr.: *See*—  
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Chien, Kun L., and Propster. 2,907,005.
- Prosen, Stanley P., and H. B. McLelland, Jr., to United States of America, Navy. Plastics winding machine. 2,910,251, 10-27-59, Cl. 242—43.
- Proskauer, Richard, to Sperry Rand Corp. Magnetic-type signal generator device. 2,905,914, 9-22-59, Cl. 336—117.
- Prosser, Herbert G.: *See*—  
Leney, Eric N., and Prosser. 2,919,311.
- Prosser, Thomas W., and B. M. Burchfiel; said Burchfiel assor. to said Prosser. Soil moisture indicating instrument. 2,878,671, 3-24-59, Cl. 73—73.
- Prosthetic & Orthopedic Supply Co.: *See*—  
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- Protect-O-Matic Corp.: *See*—  
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- Protectoseal Co., The: *See*—  
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- Protein Foundation Inc.: *See*—  
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Lang, Richard E., and Rohrer. 2,906,450.  
Tullis, James L. 2,906,452.  
Tullis, James L., and Tinch. 2,906,451.
- Proto, International Hygienic Food Co.: *See*—  
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- Protana Produktionsgesellschaft fur elektro-akustische Gerate G.m.b.H.: *See*—  
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- Protar Mfg. Corp.: *See*—  
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- Protze, Curt, to Telefunken G. m. b. H. Heat exchanger for electric discharge tube. 2,873,954, 2-17-59, Cl. 257—250.
- Protze, Curt, to Telefunken G.m.b.H. Inverse feedback in transmitters. 2,905,813, 9-22-59, Cl. 250—17.
- Proulx, Donald J.: *See*—  
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- Proulx, Leonard E.: *See*—  
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- Proulx, Romeo T.: *See*—  
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- Prout, Leslie R., to Oldham & Son Ltd. Portable electric battery lamps. 2,907,871, 10-6-59, Cl. 240—11.3.
- Provaz, Josef, to Tesla, narodni podnik. Device for selective reception of electromagnetic waves. 2,872,568, 2-3-59, Cl. 250—20.
- Provi, Mike A., to The Bearley Co. Built-in battery container for illuminated bathroom scale. 2,892,010, 6-23-59, Cl. 174—58.
- Provi, Mike A., and H. L. Mattson, to The Bearley Co. Bathroom scale. 2,875,999, 3-3-59, Cl. 265—68.
- Provincial Engineering Ltd.: *See*—  
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- Provoost, Marguerite E. M. J., to Société Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey. Process of making thiourea dioxide. 2,872,482, 2-3-59, Cl. 260—552.
- Prowse, Donald W., and R. G. Rayden, to The British Thomson-Houston Co. Ltd. Control of mechanical feeding means. 2,917,207, 12-15-59, Cl. 222—55.
- Pruckner, Ernest G., to Pullman-Standard Car Mfg. Co. Draft gear compressor. 2,892,252, 6-30-59, Cl. 29—225.
- Prudential Insurance Co. of America, The: *See*—  
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- Prudhon, Clark. Metal building frame truss unit. 2,904,139, 9-15-59, Cl. 189—1.
- Pruett, Dale H. Combination windshield washer and wiper blade. 2,918,689, 12-29-59, Cl. 15—250.4.
- Pruitt, Malcolm E.: *See*—  
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- Pruneau, Pierre M. Magnetic circuits for stationary electrical induction apparatus. 2,896,182, 7-21-59, Cl. 336—234.
- Prutton, Daniel H. Movable die mounting. 2,899,853, 8-18-59, Cl. 80—7.
- Prutton, Howard D. Screw and washer assembling apparatus. 2,914,781, 12-1-59, Cl. 10—155.
- Pruvot, Emile J. B., to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Extraction of scandium from its ores. 2,874,039, 2-17-59, Cl. 75—84.5.
- Pruvot, Emile J. B., to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Baths used in igneous electrolysis. 2,915,441, 12-1-59, Cl. 204—64.
- Prybyla, Frank A.: *See*—  
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- Pryne & Co., Inc.: *See*—  
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- Pryne, Ralph, to Emerson-Pryne Co. Removable ventilating hood construction. 2,874,628, 2-24-59, Cl. 98—115.
- Pryor, Charles J.: *See*—  
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- Pryor, Dean E., and J. C. Baker. Temperature indicating devices. 2,896,568, 7-28-59, Cl. 116—114.5.
- Pryor, Harry H., to National Vendors, Inc. Vending machine. 2,868,414, 1-13-59, Cl. 221—188.
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- Pryor, Michael J., to Kaiser Aluminum & Chemical Corp. Method of improving chemical coating on aluminum. 2,894,865, 7-14-59, Cl. 148—6.16.
- Pryslak, Nicholas E., to Radio Corp. of America. Method and material for metallizing ceramics. 2,903,783, 9-15-59, Cl. 29—473.1.
- Przedpelski, Andrzej B.: *See*—  
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- Psaar, Hubertus: *See*—  
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- Psaty, Leon A., R. E. Hunt, and V. B. Blurton. Article of manufacture. 2,917,215, 12-15-59, Cl. 229-1.5.
- Pschick, Theodore: *See*—  
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- Pschorr, Frank E.: *See*—  
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- Puccinelli, Sylvio, S. H. Creed, and M. E. C. Freeman, to Food Machinery and Chemical Corp. Fruit transfer device. 2,883,070, 4-21-59, Cl. 214-1.
- Pucher, Leo E., W. A. Cunningham, and J. F. Szabo, to The Electric Storage Battery Co. Method of making negative electrodes for electric batteries. 2,880,258, 3-31-59, Cl. 136-30.
- Puckett, Junius O.: *See*—  
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- Puckett, Ralph Q., and L. E. Ashlock. Log handling tongs. 2,894,782, 7-14-59, Cl. 294-110.
- Puddington, Ira E.: *See*—  
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- Puddington, Ira E., to National Research Council. Apparatus for settling fluid suspensions. 2,868,384, 1-13-59, Cl. 210-521.
- Puddington, Ira E., A. E. McIlhinney, and A. Lorenzo, to National Research Council. Settling device. 2,883,059, 4-21-59, Cl. 210-519.
- Puderbaugh, George, and E. F. Mittenzwei, to Curtiss-Wright Corp. Method of forming plastic aerodynamic cuffs. 2,877,503, 3-17-59, Cl. 18-59.
- Pudvin, John F., to Bell Telephone Laboratories, Inc. Plating method. 2,916,806, 12-15-59, Cl. 29-155.55.
- Puett Electrical Starting Gate Corp.: *See*—  
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- Pugh, John W. Dispensing closure. 2,878,977, 3-24-59, Cl. 222-557.
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- Puglia, Savatore. Tonsorial lather dispensers. 2,871,058, 1-27-59, Cl. 299-83.
- Pugsley, Donald J. D., to Pye Ltd. Waveform generators. 2,896,092, 7-21-59, Cl. 307-88.5.
- Pugsley, Donald W., to General Electric Co. Transmission screen. 2,909,770, 10-20-59, Cl. 340-369.
- Pugsley, Edwin, Jr., and O. K. Reinhardt, to Olin Mathieson Chemical Corp. Apparatus for introducing depolarizer into dry cell cans. 2,880,765, 4-7-59, Cl. 141-193.
- Pugsley, Lawrence E. Camping assembly. 2,907,077, 10-6-59, Cl. 20-2.
- Puim, Manuel E. Vehicle-mounted loading apparatus. 2,877,915, 3-17-59, Cl. 214-671.
- Pujol, Howard W. Scupper flap valve. 2,884,888, 5-5-59, Cl. 114-185.
- Pulaski, Edward L.: *See*—  
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- Puliafico, Frank V., to Silmar Foundations, Inc. Shoulder strap-type garments. 2,882,907, 4-21-59, Cl. 128-492.
- Pulkin, Matthew W., to M. W. P. Appliances, Inc. Ladder construction. 2,889,099, 6-2-59, Cl. 228-31.
- Pullen, Joe W.: *See*—  
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- Pullen, Orrin V., to Minneapolis-Honeywell Regulator Co. Flush mounting for a control device. 2,916,541, 12-8-59, Cl. 174-52.
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- Pullum, Charles B., to Pullum Window Corp. Spring loaded sash balance connect-disconnect means. 2,879,537, 3-31-59, Cl. 16-202.
- Pullum Window Corp.: *See*—  
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- Puls, Erich F. Rotary slide valve device. 2,880,756, 4-7-59, Cl. 137-624.
- Puls, Lawrence V., and W. R. Vincent, to General Motors Corp. Chemical reduction nickel plating bath. 2,916,401, 12-8-59, Cl. 117-130.
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- Pulsifer, Verne, and A. H. Murphy, to United States of America, Air Force. Sealing and conducting gasket material. 2,885,459, 5-5-59, Cl. 174-35.
- Pulvari, Charles F. Methods and apparatus for recording and reproducing intelligence. 2,884,617, 4-28-59, Cl. 340-173.
- Pulvari, Charles F. Apparatus for recording and reproducing data. 2,918,655, 12-22-59, Cl. 240-173.
- Pulver, Harry E.: *See*—  
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- Pulver, Robert, to Geigy Chemical Corp. Process for the production of high molecular earth alkali metal complex compounds. 2,901,474, 8-25-59, Cl. 260-209.5.
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- Pundyk, Bernard, and F. Meer. Prefabricated garment construction. 2,892,196, 6-30-59, Cl. 2-243.
- Punt, Neal. Storage unit for phonograph records. 2,916,841, 12-8-59, Cl. 312-11.
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- Puppolo, Henry F., to Sprague Electric Co. Polytetrafluoroethylene suspensions and method of coating wire with same. 2,919,213, 12-29-59, Cl. 117-224.
- Purcell, Howard M., to Koehring Co. Fluid pump having pump pistons and means for collapsing the pump pistons. 2,913,994, 11-24-59, Cl. 103-162.
- Purcell, John C., to Puett Electrical Starting Gate Corp. Starting brace for starting gates. 2,888,904, 6-2-59, Cl. 119-15.5.
- Purcell, Joseph J., to International Business Machines Corp. Packaging means for an endless tape. 2,885,072, 5-5-59, Cl. 206-59.
- Purcell, William F. H.: *See*—  
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- Purdy, Bruce B. Wet looping means for loom. 2,882,932, 4-21-59, Cl. 139-195.
- Purdy, Frederick A. Control systems. 2,876,002, 3-3-59, Cl. 268-59.
- Purdy, Frederick A. Door-operators and controls. 2,902,276, 9-1-59, Cl. 268-1.
- Purdy, James A.: *See*—  
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 Putkovich, Rudy P., and G. J. Thompson, to Westinghouse Electric Corp. Direct current voltage regulator. 2,897,433, 7-28-59, Cl. 323-100.  
 Putman, John S., and N. R. Babajoff; said Putman assor. to said Babajoff. Outboard motor lock. 2,912,847, 11-17-59, Cl. 70-232.  
 Putman, Maurice W., to United States of America, Interior. Process for destructive distillation of hydrocarbonaceous materials. 2,901,402, 8-25-59, Cl. 202-6.  
 Putman, Stearns T., to Hercules Powder Co. Methylolated rosins in emulsion polymerization. 2,891,024, 6-16-59, Cl. 260-27.  
 Putnam, Nelson E.: See—  
 Bogater, John P., Loria, and Putnam. 2,908,415.  
 Putnam, Paul R.,  $\frac{1}{2}$  to Gadget-Of-The-Month Club, Inc. Extension belt buckle. 2,867,023, 1-6-59, Cl. 24-163.  
 Putnam, Robert C., and S. I. Hayes, Jr., to United Shoe Machinery Corp. Synthetic tannins from sulfomethylated yacca gum and process of tanning therewith. 2,872,278, 2-3-59, Cl. 8-94.32.  
 Putnam, Robert E.: See—  
 Martin, Elmore L., and Putnam. 2,888,447.  
 Putnam Rolling Ladder Co., Inc.: See—  
 Campbell, Thaddeus C. 2,885,132.  
 Putney, David H., to Stratford Engineering Corp. Combination process of effluent refrigeration and closed cycle refrigeration. 2,906,796, 9-29-59, Cl. 260-683.48.  
 Putnocky, Joseph G., Jr. Magnetic governor-controlled constant-speed motor. 2,900,589, 8-18-59, Cl. 318-254.  
 Putnum, Nelson E., to General Motors Corp. Spring clip. 2,894,771, 7-14-59, Cl. 287-20.5.  
 Putscher, Richard E.: See—  
 Schwoegler, Edward J., and Putscher. 2,874,097.  
 Putt, Joseph W., and L. E. Chamberlain. Anti-skid device for vehicles. 2,897,868, 8-4-59, Cl. 152-216.  
 Putt, Roy R.: See—  
 Riley, Floyd E. 2,873,796.  
 Putter, Rolf: See—  
 Exner, Herbert-Joachim, and Putter. 2,891,049.  
 Suckfull, Fritz, Putter, and Nickel. 2,891,047.  
 Putters, Robert L.: See—  
 Gislou, André, and Putters. 2,911,413.  
 Puttfarcken, Heinrich, and R. Schork, to Junkers & Co. G.m.b.H. Valve arrangement. 2,901,034, 8-25-59, Cl. 158-131.  
 Putz, Frank. Speed responsive clutch. 2,909,073, 10-20-59, Cl. 74-230.17.



- Putz, Frank A., to McGraw-Edison Co. Seal of bushing to casing of electrical apparatus. 2,896,008, 7-21-59, Cl. 174-50.56.
- Putzer, Hans: *See*—  
Gunkel, Heinrich. 2,878,910.
- Putzrath, Franz L., to Radio Corp. of America. Television display sweep linearization. 2,879,448, 3-24-59, Cl. 315-27.
- Putzrath, Franz L., to Radio Corp. of America. Electrical delay line. 2,916,709, 12-8-59, Cl. 333-29.
- Pycoppe Inc.: *See*—  
Rosenthal, Murray W. 2,888,008.
- Pyde, Albert F.: *See*—  
Fiore, Hannibal S., Geary, and Pyde. 2,902,059.
- Pye, David J.: *See*—  
Crane, Robert A., and Pye. 2,895,055.
- Pye, Harold C., to General Telephone Laboratories, Inc. Anti-sidetone and line balancing telephone circuit. 2,912,512, 11-10-59, Cl. 179-81.
- Pye Ltd.: *See*—  
Bach, Ashley S. M. 2,911,565.  
Cheetham, William R., and Parr. 2,899,489.  
Cheetham, William R., and Parr. 2,899,490.  
Cope, John E., Segrave, and Fisher. 2,875,277.  
Elliott, Llewellyn J. 2,917,127.  
Fisher, Donald H. 2,910,533.  
Fuller, Dennis Q. 2,875,385.  
Fuller, Dennis Q. 2,876,279.  
Fuller, Dennis Q. 2,876,401.  
Jackson, Donald. 2,916,968.  
Kirkham, Peter, and Robinson. 2,899,578.  
Pugsley, Donald J. D. 2,896,092.  
Theile, Richard. 2,878,416.  
Theile, Richard. 2,880,338.
- Pyka, John P. Garage door latch. 2,917,335, 12-15-59, Cl. 292-1.
- Pyle, Edwin C., and S. S. Northington, to Halliburton Oil Well Cementing Co. Pneumatic blender. 2,884,230, 4-28-59, Cl. 259-4.
- Pyle, Edwin C., S. S. Northington, and G. V. Copland, to Halliburton Oil Well Cementing Co. Pneumatic blender. 2,884,231, 4-28-59, Cl. 259-4.
- Pyle-National Co., The: *See*—  
Archer, Lee A., and Keegan. 2,882,509.  
Dupee, Kenneth J., Voelkner, and Raymond. 2,877,436.  
Steber, Clarence L. 2,878,361.  
Steber, Clarence L. 2,918,568.  
Steber, Clarence L., and Sleichert. 2,878,374.  
Wulle, William A. Re. 24,637.
- Pyles Industries, Inc.: *See*—  
Standlick, Ronald B., and Trumbull. 2,917,133.
- Pyles, James I., to The Standard Metals Co., Inc. Crusher for engine blocks and the like. 2,907,530, 10-6-59, Cl. 241-262.
- Pylon Co., Inc.: *See*—  
Cooney, James S. 2,896,981.
- Pyne, Roger S., and A. H. Tompkins, to Van Norman Industries, Inc. Work rest for a centerless grinder. 2,897,636, 8-4-59, Cl. 51-103.
- Pyne, William J., and H. Bluestone, to Diamond Alkali Co. Method of killing plants. 2,898,205, 8-4-59, Cl. 71-2.5.
- Pyral, Societe Anonyme: *See*—  
Saint-Hilaire, Albert B. 2,891,506.
- Pyrene Co. Ltd., The: *See*—  
Bedford, Howard E. 2,871,951.
- Pyror Ltd.: *See*—  
Aannerud, Sigurd A., and Mostad. 2,868,635.
- Pyzel-Fitzpatrick, Inc.: *See*—  
Pyzel, Robert. 2,874,950.
- Pyzel, Robert, to Pyzel-Fitzpatrick, Inc. Hydraulic cement process. 2,874,950, 2-24-59, Cl. 263-53.
- Q-Tee Inc.: *See*—  
Rosenberg, Charles B. 2,891,646.
- Quackenbush, Claude F., to United States of America, Atomic Energy Commission. Reactor cooling. 2,906,683, 9-29-59, Cl. 204-193.2.
- Quackenbush, Edward C., to Whitney Blake Co. Electrical connector and process of manufacture. 2,881,479, 4-14-59, Cl. 18-59.
- Quackenbush, Robert C. Clutch with overload release. 2,882,704, 4-21-59, Cl. 64-29.
- Quackenbush, Robert C. Automatic tool feeding device. 2,893,276, 7-7-59, Cl. 77-34.4.
- Quackenbush, Robert C. Tool feeding device with means for limiting stroke of tool. 2,913,934, 11-24-59, Cl. 77-33.1.
- Quade, Edward A., to International Business Machines Corp. Phase sensitive magnetic head. 2,875,429, 2-24-59, Cl. 340-174.
- Quade, Edward A., and F. B. Wood, to International Business Machines Corp. Multiple path coherer. 2,899,657, 8-11-59, Cl. 338-1.
- Quaedvlieg, Mathieu: *See*—  
Hagge, Walter, Quaedvlieg, and Seifert. 2,906,715.
- Quaker Chemical Products Corp.: *See*—  
Green, Harold A. 2,900,262.  
Kress, Bernard H. 2,868,773.  
Kress, Bernard H. 2,878,294.  
Kress, Bernard H. 2,885,443.  
Kress, Bernard H. 2,890,242.  
Kress, Bernard H. 2,895,923.  
Kress, Bernard H. 2,902,470.  
Kress, Bernard H. 2,903,328.  
Kress, Bernard H. 2,917,411.
- Quaker Oats Co., The: *See*—  
Brown, Lloyd H. 2,874,148.  
Dale, Walter G., and Lilly. 2,898,210.  
Grosmaire, Leon A. 2,904,559.  
Van Arsdell, Fred C. 2,899,914.  
Wamsley, Harry C., and Wells. 2,884,428.  
Wilkinson, George, and Eaton. 2,873,194.
- Quaker Stretcher Co.: *See*—  
Block, Walter W. 2,875,806.  
Block, Walter W. 2,903,313.
- Quaker City Metal Weatherstrip Co.: *See*—  
Ricci, Anthony J. 2,885,744.
- Quaker State Metals Division of Howe Sound Co.: *See*—  
Zittle, John H. 2,913,075.
- Quality Components, Inc.: *See*—  
Cowles, Robert J. 2,899,665.
- Qualley, Ray W.: *See*—  
Lyon, Luther L., Jr., and Qualley. 2,917,778.
- Quandt, Hans H.,  $\frac{1}{2}$  to R. Mohr. Lighter with electric ignition. 2,867,753, 1-6-59, Cl. 317-91.
- Quarles, Charles S.: *See*—  
Fox, David A. 2,881,744.
- Quarles, Richard W., and W. H. McKnight, to Union Carbide Corp. Aqueous dispersion of vinyl chloride polymer containing substituted polyacrylamide. 2,914,498, 11-24-59, Cl. 260-29.6.
- Quarmby, Robert C.: *See*—  
Choice, Frank C., and Quarmby. 2,889,554.
- Quarnstrom, Ivar T., to Detroit Mold Engineering Co. Plastic mold base. 2,874,409, 2-24-59, Cl. 18-42.
- Quartz & Slice S.A.: *See*—  
George, Henri. 2,897,126.  
George, Henri J. C. 2,895,839.
- Quast, Hans-Friedrich: *See*—  
Rummel, Theodor, Keller, and Quast. 2,913,561.
- Quast, John H.: *See*—  
Dudley, Edmond R., and Quast. 2,873,018.
- Quastad, Omer M. Tractor hitch. 2,904,348, 9-15-59, Cl. 280-477.
- Quate, Calvin F., to Bell Telephone Laboratories, Inc. Low noise traveling wave tubes. 2,908,844, 10-13-59, Cl. 315-3.6.
- Quattrociochi, Dominick A.: *See*—  
Nastasi, Salvatore J., and Quattrociochi. 2,897,591.
- Quayle, George F., to The Yale & Towne Mfg. Co. Load manipulating device for lift truck. 2,870,929, 1-27-59, Cl. 214-652.
- Quayle, George F., to The Yale & Towne Mfg. Co. Hydraulic drive for industrial truck. 2,904,957, 9-22-59, Cl. 60-19.
- Quayle, George F., to The Yale & Towne Mfg. Co. Tire rim assembly. 2,905,223, 9-22-59, Cl. 152-404.
- Quayle, George F., to The Yale & Towne Mfg. Co. Load support shifting mechanism for industrial truck. 2,909,299, 10-20-59, Cl. 214-652.
- Quayle, George F., to The Yale & Towne Mfg. Co. Wide angle steering mechanism for industrial trucks. 2,916,294, 12-8-59, Cl. 280-93.
- Quayle, Robert. Buckle. 2,890,534, 6-16-59, Cl. 40-17.
- Quebec Metallurgical Industries Ltd.: *See*—  
Bailey, Richard P. 2,899,300.
- Queen, Alan, to Beecham Research Laboratories Ltd. Thiopropylene sulphide derivatives. 2,918,476, 12-22-59, Cl. 260-327.
- Queen City Tulatex Corp.: *See*—  
Unsworth, Raymond R. 2,890,146.
- Queen's University: *See*—  
Campbell, James S. 2,912,965.  
Colborne, William G., and Braun. 2,914,955.
- Quenouille, Georges, to Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz. Vibrating-blade relays with electro-mechanical resonance. 2,918,589, 12-22-59, Cl. 310-22.
- Quéré, Hendrik K., and B. J. Helden, to N.V. "Industrie" V.H.v. Lohuizen & Co. Locking device for injection molding machines. 2,916,768, 12-15-59, Cl. 18-30.
- Quetin, Emmanuel. Lighting apparatus for dental surgeries. 2,896,066, 7-21-59, Cl. 240-1.4.
- Quick, Carl F.: *See*—  
Billman, Gerald C., and Quick. 2,883,912.
- Quick, Carl F., and L. B. Rice, to Rohr Aircraft Corp. Drill jig. 2,898,785, 8-11-59, Cl. 77-62.
- Quick, Lester K. Liquid level control in refrigeration system. 2,892,320, 6-30-59, Cl. 62-196.
- Quick, Lester K. Refrigeration system with heat reclaiming means. 2,892,324, 6-30-59, Cl. 62-455.
- Quick Manufacturing, Inc.: *See*—  
Kaeser, Arthur L. 2,894,412.
- Quick, Thomas E. Fluid moving means. 2,900,125, 8-18-59, Cl. 230-117.
- Quick, Thomas E. Propulsion device. 2,913,055, 11-17-59, Cl. 170-135.
- Quick-Mount Mfg. Co., Inc., The: *See*—  
Grashow, Joseph. 2,917,743.
- Quick-N-Easy Products, Ltd.: *See*—  
Ellingson, La Verne O. 2,887,237.  
Ellingson, La Verne O. 2,896,831.
- Quick Point Pencil Co., Inc.: *See*—  
Scobel, Ben. 2,882,172.
- Quick-Set, Inc.: *See*—  
Mooney, Raymond. 2,919,093.
- Quigg, Donald J., to Phillips Petroleum Co. Separation by crystallization. 2,890,239, 6-9-59, Cl. 260-475.



- Quigley, Fred K., Jr., and H. A. Walters, to The Dow Chemical Co. Coated iron and method and compositions for preparing the same. 2,873,215, 2-10-59, Cl. 117-132.
- Quigley, Fred K., Jr., and H. A. Walters, to The Dow Chemical Co. Tank lining. 2,918,194, 12-22-59, Cl. 220-64.
- Quigley, Henry C., and D. W. Smith, to E. I. du Pont de Nemours and Co. Furnace seal. 2,879,314, 3-24-59, Cl. 13-33.
- Quill, Laurence L.: *See*—
- Birdwhistell, Ralph K., Ulmer, and Quill. 2,876,179.
- Quilter, John R. C. Quick-release device for body harness. 2,892,232, 6-30-59, Cl. 24-205.17.
- Quinby, Charles E., to Holley Carburetor Co. Automotive vapor fuel control. 2,884,917, 5-5-59, Cl. 123-133.
- Quincey, Edward: *See*—
- Carlsen, Leonard O., Krastel, and Quincey. 2,882,685.
- Quinche, Albert: *See*—
- Lecluyse, Edouard, Dewey, and Quinche. 2,913,768.
- Quinche, Albert, to American Can Co. Device for adapting a tubular blank to a shaping mandrel. 2,890,482, 6-16-59, Cl. 18-1.
- Quinche, Albert, and E. Lecluyse, to Bradley Container Corp. Rotary injection molding machine for plastic collapsible tubes. 2,883,706, 4-28-59, Cl. 18-30.
- Quinche, Albert, and E. Lecluyse, to American Can Co. Syringe. 2,911,971, 11-10-59, Cl. 128-216.
- Quine, John P., to United States of America, Air Force. Measuring device for coaxial cables. 2,881,389, 4-7-59, Cl. 324-58.
- Quinlan, Amos L.: *See*—
- Johnson, Kenneth F., and Quinlan. 2,871,337.
- Quinlan, Amos L., to Western Electric Co., Inc. Percussion welding gun for welding wires to articles. 2,874,264, 2-17-59, Cl. 219-95.
- Quinlan, Amos L., to Western Electric Co., Inc. Low voltage percussion welding gun. 2,878,362, 3-17-59, Cl. 219-78.
- Quinlan, Amos L., to Western Electric Co., Inc. Safety devices for electrical apparatus. 2,895,083, 7-14-59, Cl. 317-9.
- Quinlan, Donald E., to Allen B. Du Mont Laboratories, Inc. Gamma correction circuit. 2,904,642, 9-15-59, Cl. 179-171.
- Quinlan, Joseph A., to Westinghouse Air Brake Co. Detector track circuit apparatus. 2,881,308, 4-7-59, Cl. 246-41.
- Quinn, Bernard J.: *See*—
- Brennan, Edward L., Quinn, Sellers, and Wagner. 2,899,467.
- Quinn, Bert A., to Ideal Brass Works, Inc. Method of making hinges having locked-in bushings. 2,869,219, 1-20-59, Cl. 29-149.5.
- Quinn, Bert A. Pneumatic door closer device. 2,913,757, 11-24-59, Cl. 16-66.
- Quinn, Clark E.: *See*—
- Habsburg-Lothringen, Stefan, and Quinn. 2,912,675.
- Quinn, Edward: *See*—
- MacKenzie, Fred T., and Quinn. 2,910,787.
- Quinn, Edward, to United Shoe Machinery Corp. Shoe counter handling mechanisms. 2,868,164, 1-13-59, Cl. 118-421.
- Quinn, Edward, to United Shoe Machinery Corp. Tack supplying mechanisms. 2,878,474, 3-24-59, Cl. 1-6.
- Quinn, Edward, to United Shoe Machinery Corp. Methods of making platform shoes, the parts of which are united by a reinforced seam. 2,900,649, 8-25-59, Cl. 12-142.
- Quinn, Edward, to United Shoe Machinery Corp. Chain stitch sewing machines. 2,905,118, 9-22-59, Cl. 112-34.
- Quinn, Edward, to United Shoe Machinery Corp. Methods of sewing slip-lasted shoes. 2,905,122, 9-22-59, Cl. 112-262.
- Quinn, Edward, to United Shoe Machinery Corp. Clutch control mechanisms. 2,907,424, 10-6-59, Cl. 192-24.
- Quinn, Edward, to United Shoe Machinery Corp. Machines and methods for inserting cement bonded seams. 2,914,007, 11-24-59, Cl. 112-43.
- Quinn, Frank P., to American Steel Foundries. Snubbed truck. 2,880,680, 4-7-59, Cl. 105-224.
- Quinn, Frederic R., to Quinn & Kerns, Inc. Liquid sight gauge. 2,904,999, 9-22-59, Cl. 73-325.
- Quinn, Frederic R. Electric switch. 2,905,785, 9-22-59, Cl. 200-87.
- Quinn, James A. and J.; said J. A. Quinn assor. to said J. Quinn. Picker drive. 2,900,670, 8-25-59, Cl. 19-70.
- Quinn, James L., and J. K. Duncan, to Cummins-Chicago Corp. Electrical control system for business machine card apparatus. 2,903,133, 9-8-59, Cl. 209-88.
- Quinn, James L., and J. K. Duncan, to Cummins-Chicago Corp. Coin dispensing apparatus. 2,910,991, 11-3-59, Cl. 133-2.
- Quinn, Johnny: *See*—
- Quinn, James A. and J. 2,900,670.
- Quinn, Joseph G., to General Electric Co. Lamination stacking machine. 2,889,058, 6-2-59, Cl. 214-6.
- Quinn & Kerns, Inc.: *See*—
- Quinn, Frederic R. 2,904,999.
- Quinn, Patrick D.: *See*—
- Depew, Harlan A., Quinn, and Watkins. 2,868,673.
- Quint, David. Secured cap for toothpaste tubes and the like. 2,915,227, 12-1-59, Cl. 222-519.
- Quint, Sam. Car wallet for automobile drivers. 2,878,850, 3-24-59, Cl. 150-39.
- Quintas, Gladys P. Germicidal device for phones. 2,911,488, 11-3-59, Cl. 179-185.
- Quintilian, Bartholomew F., to Gerotor May Corp. of Maryland. Hydraulic pump or motor. 2,872,872, 2-10-59, Cl. 103-126.
- Quiquerez, Joseph: *See*—
- Gislou, Andre, Quiquerez, and Maurin. 2,886,521.
- Quiquerez, Joseph, and E. Weisang, to Societe Anonyme dite: Compagnie Francaise de Raffinage. Sweetening of hydrocarbons containing mercaptans and/or mercaptides with a chelate and oxygen. 2,918,426, 12-22-59, Cl. 208-206.
- Quirico, Joseph S.: *See*—
- Lethern, Albert A., and Quirico. 2,888,729.
- Quirk, Justin P., and M. Babunovic. Feeding mechanism for rotary cutting machines to profile articles from blanks. 2,906,305, 9-29-59, Cl. 144-143.
- Quirk, Thomas J., Jr. Portable indoor charcoal broiler. 2,904,030, 9-15-59, Cl. 126-25.
- Quiroz, Francisco A. Torque device for liquid control. 2,867,124, 1-6-59, Cl. 74-18.1.
- Quisenberry, Carter E., to American Machine & Foundry Co. Folding carriage or stroller. 2,886,337, 5-12-59, Cl. 280-36.
- Quisenberry, Carter E., to American Machine and Foundry Co. Electrically powered juvenile vehicle. 2,917,122, 12-15-59, Cl. 180-25.
- Quist, Harold A., to Sun Oil Co. Sampler for foam blanket covered liquids. 2,894,394, 7-14-59, Cl. 73-425.4.
- Quist, Harold A., to Sun Oil Co. Temperature corrected float gauge. 2,902,859, 9-8-59, Cl. 73-321.
- Quistgaard, Erik V.: *See*—
- Karlsson, Sven-Olof, and Quistgaard. 2,905,025.
- Quistgaard, Erik V., and S. O. Karlsson, to Aktiebolaget Volvo. Controlling means for hydraulic change speed gearings. 2,912,874, 11-17-59, Cl. 74-472.
- Quitter, Gerhard, to Durkopwerke Akt. Multiple-needle sewing machine. 2,871,810, 2-3-59, Cl. 112-221.
- Quoss, Henry N. Combined threshold and sealing strip. 2,913,782, 11-24-59, Cl. 20-64.
- R. C. Can Co.: *See*—
- Biedenstein, Vincent G. 2,887,253.
- R-E-B, Inc.: *See*—
- Bowers, Robert E. 2,895,044.
- RED-Gesellschaft m.b.H., Technik und Produkte: Cellulose, Chemie und Chemie der Kunststoffe: *See*—
- Eldö, Egon, Dörr, Braun, Elian, and Lepingle. 2,918,455.
- R J S Products Co., Inc.: *See*—
- Slezak, Raymond J. 2,898,445.
- RMR Corp.: *See*—
- Ramer, Lyle A. 2,900,588.
- R-N Corp.: *See*—
- Smith, Rollin P., and Babcock. 2,877,108.
- Wienert, Fritz O. 2,880,083.
- R and R Metal Products, Inc.: *See*—
- Brand, Joseph J. 2,890,505.
- RS Electronics Corp.: *See*—
- Hebert, Eugene J., Jr. 2,913,669.
- R T & E Corp.: *See*—
- Link, Edwin A. 2,918,557.
- R. and W. Construction Co., Inc.: *See*—
- Roland, Frank E. 2,918,258.
- R-W Mfg. Co., The: *See*—
- Cotman, Val, Jr. 2,903,017.
- Raab, Andrew F., to Carter Parts Co. Switch. 2,901,574, 8-25-59, Cl. 200-114.
- Raab, Hans: *See*—
- Funke, Albert, and Raab. 2,899,420.
- Raab, Hans, and E. Hörnle, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of finely dispersed water insoluble dyestuff pastes. 2,902,385, 9-1-59, Cl. 106-308.
- Raab, Karl: *See*—
- Brill, Fritz, and Raab. 2,881,713.
- Heyden, Rudi, Plapper, and Raab. 2,892,673.
- Raab, William J.: *See*—
- Whetstone, Richard R., Raab, and Hall. 2,867,646.
- Raabe, Carl W. Control mechanism for children's automobiles. 2,915,155, 12-1-59, Cl. 192-3.
- Raach, Francis A., Sr. Filing separator with classification card holding means. 2,886,040, 5-12-59, Cl. 129-16.8.
- Raasch, Maynard S., to E. I. du Pont de Nemours & Co. Difluorobutenedioic acids, their alkali metal salts, their alkyl esters and anhydride, and process for preparing them. 2,891,968, 6-23-59, Cl. 260-346.8.
- Raasch, Maynard S., to E. I. du Pont de Nemours and Co. 1,2-Bis (alkylsulfoxy)-1,2-dihaloethylenes and fungicidal compositions comprising them. 2,893,911, 7-7-59, Cl. 167-22.
- Rabalt, Willy: *See*—
- Angst, Paul, and Rabalt. 2,870,534.
- Rabb, David D.: *See*—
- Kesler, Robert D., and Rabb. 2,897,045.
- Rabben, Ellis L., 10% to H. L. Gordon. Magnifying stereoscope. 2,889,743, 6-9-59, Cl. 88-29.
- Rabchuk, Alexander, to Kerr Mfg. Co. Dental impression material. 2,878,129, 3-17-59, Cl. 106-38.4.
- Rabe, Karl, and E. Forstner, to Dr. Ing. h. c. F. Porsche K-G. Tractor engine cooling and exhaust system. 2,901,052, 8-25-59, Cl. 180-54.
- Rabe, Rudolf. Centrifugally actuated friction drive device. 2,891,641, 6-23-59, Cl. 192-4.
- Rabe, Rudolf. Centrifugal clutch structure. 2,918,824, 12-29-59, Cl. 74-230.17.



- Rabelos, Nicholas A., 25% to J. L. Crawford. Convertible ladder. 2,909,236, 10-20-59, Cl. 182-26.
- Rabelow, Harold H., to Diagraph-Bradley Industries Inc. Fountain type applicator for link or the like. 2,904,811, 9-22-59, Cl. 15-136.
- Raber, Anna S.: *See*—  
Raber, Christopher. 2,896,791.
- Raber, Christopher, deceased; A. S. Raber, executrix. Portable supports. 2,896,791, 7-28-59, Cl. 211-86.
- Raber, Peter W. Traction device. 2,904,094, 9-15-59, Cl. 152-216.
- Rabeux, Jean, and B. Masson, to Societe d'Applications Generales d'Electricite & de Mecanique. Loom. 2,893,439, 7-7-59, Cl. 139-13.
- Rabeux, Jean, and R. Jacob, to Societe d'Applications Generales d'Electricite & de Mecanique. Woven, lined tubular fabric and method and means for manufacturing same. 2,913,799, 11-24-59, Cl. 28-1.
- Rabier, Jean C., to Marquardt Aircraft Co. High speed multi-channel voltage indicator. 2,878,450, 3-17-59, Cl. 324-121.
- Rabier, Jean C., to Marquardt Aircraft Co. Regulated high voltage power supply. 2,886,761, 5-12-59, Cl. 321-19.
- Rabin, Charles. Trap net. 2,911,755, 11-10-59, Cl. 43-105.
- Rabin, Richard, and K. Merl, to Sperry Rand Corp. Ford Instrument Co. Division. High speed redundancy check generator. 2,906,997, 9-29-59, Cl. 340-149.
- Rabin, Stanley F.: *See*—  
Menkin, Benjamin D., Rabin, and Scisorek. 2,891,364.
- Rabinow, Jacob: *See*—  
Leitner, Richard G., and Rabinow. 2,914,610.
- Rabinow, Jacob, to United States of America. Army. Electrical arming mechanism for fuses. 2,889,777, 6-9-59, Cl. 102-70.2.
- Rabinow, Jacob. Noise discriminating, high gain automatic headlight dimmer. 2,892,124, 6-23-59, Cl. 315-83.
- Rabinow, Jacob, 15% to Max L. Libman. Differential pressure envelope printer. 2,901,969, 9-1-59, Cl. 101-93.
- Rabinow, Jacob. Stackers for mail sorters and the like. 2,904,335, 9-15-59, Cl. 271-88.
- Rabinow, Jacob, 15% to M. L. Libman. Code printing and sorting station for mail. 2,912,925, 11-17-59, Cl. 101-2.
- Rabinow, Jacob, to United States of America. Navy. Safety device. 2,912,933, 11-17-59, Cl. 102-70.2.
- Rabinow, Jacob, 15% to M. L. Libman. Photoelectrically actuated garage door opener. 2,914,709, 11-24-59, Cl. 317-124.
- Rabinow, Jacob, 15% to M. L. Libman. Servo arm for phonograph pickups. 2,915,315, 12-1-59, Cl. 274-13.
- Rabinow, Jacob. Automatic headlight dimmer with anti-oscillation circuit. 2,917,664, 12-15-59, Cl. 315-83.
- Rabinow, Jacob, and M. L. Libman. Single-track scanning type dimmer. 2,899,564, 8-11-59, Cl. 250-235.
- Rabinow, Jacob, and L. J. Kamm; said Rabinow assor. of 15% to M. L. Libman. Mechanical coding and sorting device. 2,901,089, 8-25-59, Cl. 198-38.
- Rabinow, Jacob, and W. B. McLean, to United States of America. Navy. Multiple point altimeter for use with fess bombing integrators. 2,911,573, 11-3-59, Cl. 317-149.
- Rabinow, Jacob, and L. M. Andrews, to United States of America. Navy. Inertia operated switch. 2,915,604, 12-1-59, Cl. 200-61.45.
- Rabinowitz, Albert. Foot protector. 2,896,339, 7-28-59, Cl. 36-10.
- Rabjon, Rodney R. Intermittent traction device. 2,910,061, 10-27-59, Cl. 128-70.
- Rabow, Gerald: *See*—  
Nashman, Alvin E., and Rabow. 2,875,334.
- Raboy, Bernard, to The Martin Co. Radar system. 2,873,443, 2-10-59, Cl. 343-16.
- Rabus, Willy. Protective device for high tension transmission lines. 2,881,357, 4-7-59, Cl. 315-36.
- Rabut, Eugene W., to The Udyllite Corp. Transfer apparatus. 2,874,820, 2-24-59, Cl. 198-25.
- Raby, Bruce A.: *See*—  
Hyde, Earl K., and Raby. 2,873,170.
- Raby, Claude H. Attachment for bulldozer moldboards. 2,896,343, 7-28-59, Cl. 37-98.
- Racca, Romolo H.: *See*—  
Bligard, Erling J., and Racca. 2,891,743.
- Race, Clarence F., to Motorola, Inc. Electrical connector. 2,874,265, 2-17-59, Cl. 174-52.
- Race, William J., to Motorola, Inc. Antenna. 2,880,265, 3-31-59, Cl. 174-152.
- Racek, Alfred, and J. Raganitsch. Pyrophoric igniting device. 2,912,841, 11-17-59, Cl. 67-20.1.
- Racely, Kermit L.: *See*—  
Oakes, Marvin E., and Racely. 2,906,524.
- Racheter, George R., and L. Alberts, to Rheem Mfg. Co. Adjustable broiler grill assembly. 2,876,695, 3-10-59, Cl. 99-423.
- Rachfal, Stanley J., to Carrier Corp. Gas compression apparatus. 2,888,809, 6-2-59, Cl. 62-196.
- Rachlin, Albert I.: *See*—  
Goldberg, Moses W., and Rachlin. 2,867,660.
- Rachlin, Albert I., to Allied Chemical Corp. Surface-active sulfonated product. 2,898,370, 8-4-59, Cl. 260-505.
- Rachlin, Eva: *See*—  
Rachlin, Max. 2,890,664.
- Rachlin, Max, deceased; H. Pollock, and E. Rachlin, executrices. Gutter and gutter support. 2,890,664, 6-16-59, Cl. 108-28.
- Racine, Armand J., to L. L. and W. L. Shorette. Combination cleaning device. 2,896,240, 7-28-59, Cl. 15-148.
- Racine Confectioners' Machinery Co.: *See*—  
Genich, William H. 2,910,210.
- Racine Hydraulics and Machinery, Inc.: *See*—  
Miller, Harold G. 2,887,908.  
Miller, Harold G. 2,887,909.
- Racine Industrial Plant, Inc.: *See*—  
Harris, Herbert W. 2,906,005.
- Racine, Roger R., to Protect-O-Matic Corp. Safety vehicle seat. 2,883,206, 4-21-59, Cl. 280-29.
- Rack, Alois J., to Bell Telephone Laboratories, Inc. Vocoder absorption modulation system. 2,892,892, 6-30-59, Cl. 179-15.55.
- Rack, George D.: *See*—  
Evans, Clifford, and Rack. 2,917,399.
- Rack Specialists, Inc.: *See*—  
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- Racz, John P.: *See*—  
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- Raczynski, Andrew T., to Westinghouse Electric Corp. Cathode ray tube. 2,884,551, 4-28-59, Cl. 313-76.
- Raczynski, Walter J., and J. C. Worst, to General Electric Co. Drain pump system for laundry machines. 2,873,598, 2-17-59, Cl. 68-20.
- Raczynski, Walter J., and J. C. Worst, to General Electric Co. Drain means for clothes washer. 2,900,080, 8-18-59, Cl. 210-171.
- Rada, Frank J., and K. R. Fowman, to General Motors Corp. Conveyor belt structure. 2,870,902, 1-27-59, Cl. 198-181.
- Rada Products Co.: *See*—  
Nelson, Kenneth W. 2,904,379.
- Radar Relay, Inc.: *See*—  
Arrasmith, William C. 2,887,677.  
Arrasmith, William C., and Kuhn. 2,880,370.
- Radcliffe, Arthur J., Jr., to International Telephone and Telegraph Corp. Multichannel telephone carrier system. 2,871,293, 1-27-59, Cl. 179-15.
- Radcliffe, Arthur J., Jr., to International Telephone and Telegraph Corp. Negative-impedance repeater using a transistor amplifier. 2,904,641, 9-15-59, Cl. 179-170.
- Radcliffe, Arthur J., Jr., to International Telephone and Telegraph Corp. Transistor test set. 2,907,954, 10-6-59, Cl. 324-158.
- Radcliffe, Arthur J., Jr., and A. R. Denz, to International Telephone and Telegraph Corp. Transistor limiter amplifier. 2,874,312, 2-17-59, Cl. 307-88.5.
- Radcliffe, Charles A., to The Plomb Tool Co. Wire stripper. 2,868,049, 1-13-59, Cl. 81-9.5.
- Radcliffe, Charlie. Sign having movable letters. 2,912,777, 11-17-59, Cl. 40-140.
- Radcliffe, Frederick E., to Bell Telephone Laboratories, Inc. Momentary contact switch. 2,883,565, 4-21-59, Cl. 307-132.
- Radcliffe, Frederick E., to Bell Telephone Laboratories, Inc. Automatic gain control using voltage drop in biasing circuit common to plural transistor stages. 2,885,544, 5-5-59, Cl. 250-20.
- Radcliffe, Gilbert B. Indoor television antenna. 2,881,429, 4-7-59, Cl. 343-744.
- Radcliffe, John R. Playing instruction device for pianos. 2,909,956, 10-27-59, Cl. 84-478.
- Radcliffe, Remington S.: *See*—  
Koch, Gustav H., and Radcliffe. 2,872,988.
- Radcliffe, Richard J., to The O. A. Sutton Corp. Automotive air conditioning system with heat exchanger. 2,885,868, 5-12-59, Cl. 62-511.
- Radcliffe, Stanley V.: *See*—  
Wilkinson, Cyril F., Jenkins, Lake, and Radcliffe. 2,875,111.
- Radde, Erich M. H.: *See*—  
Klette, Hermann. 2,895,875.
- Raddin, Franklin M.: *See*—  
Gernert, Lawrence H., and Raddin. 2,880,280.
- Radel, Aaron A., to Globe Venetian Blind Corp. Head bracket for Venetian blinds. 2,916,246, 12-8-59, Cl. 248-264.
- Radel, John M.: *See*—  
Jones, Harry W., and Radel. 2,883,075.
- Rademacher, Gustav F., to General Motors Corp. Thermocouple. 2,888,508, 5-26-59, Cl. 136-4.
- Rademakers, Adriaan: *See*—  
Smit, Jan, and Rademakers. 2,869,047.
- Rader, Earl L. Food product preparing and dispensing machine. 2,896,421, 7-28-59, Cl. 62-135.
- Rader, Merrill E.: *See*—  
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- Rader, William H., and H. L. Wilson, to National Petrochemicals Corp. Stabilization of polyethylene during shutdown of molding apparatus. 2,906,733, 9-29-59, Cl. 260-45.95.
- Radermacher, Karl, to L. & C. Steinmuller G.m.b.H. Fuel feed regulation for vibratory combustion grates. 2,913,912, 11-24-59, Cl. 74-61.
- Radestock, Herbert, to Orenstein-Koppel und Lubeckes Maschinenbau Akt. Scoop wheel. 2,877,576, 3-17-59, Cl. 37-190.



- Radey, Kendrick: *See*—  
   Beach, Laurence R., Jr., Radey, Gildea, and Strohmeier. 2,876,640.  
 Radford, Lawrence T. Synchronizing device for internal combustion engines. 2,886,011, 5-12-59, Cl. 121—46.5.  
 Radhuber, William, Sr. Knitting machines. 2,902,846, 9-8-59, Cl. 66—63.  
 Radian Corp., The: *See*—  
   De Millar, Floyd O. 2,869,682.  
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   Nicholas, William. 2,888,072.  
   Nicholas, William, and Kozel. 2,899,164.  
 Radiation Dynamics, Inc.: *See*—  
   Cleland, Marshall R. 2,875,394.  
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   Hurvitz, Hyman. 2,912,666.  
 Radin, Arthur, M. R. Raiken, and L. C. Shapiro, to Victory Container Corp. Folding machine. 2,904,789, 9-22-59, Cl. 1—106.  
 Radin, Bernard G., to Ford Motor Co. Light actuated circuits. 2,915,642, 12-1-59, Cl. 250—214.  
 Radino, Hugo L., 50% to Companhia Mercantil e Industrial Inga. Process of zinc extraction from ores formed by or containing zinc silicate or other soluble silicates, by means of hydrometallurgy. 2,874,041, 2-17-59, Cl. 75—120.  
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   Birx, Donald L. 2,876,356.  
   Heselwood, James C. 2,875,620.  
   Jackson, Russell K. 2,876,314.  
   Teaf, John H. 2,898,767.  
   Wright, John R. 2,876,403.  
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   Abbett, Roy C., and Solomon. 2,888,515.  
   Ackermann, Walter. 2,891,433.  
   Albee, Arthur C., and Pettus. 2,870,975.  
   Ammenwerth, Martin F., and Caprarola. 2,913,616.  
   Anderson, Lannes E. 2,911,518.  
   Anderson, Robert H. 2,868,994.  
   Anderson, Robert H. 2,908,840.  
   Andres, Roy K. 2,899,497.  
   Andres, Roy K. 2,912,483.  
   Andrews, Dallas R. 2,885,488.  
   Andrews, Dallas R., and Bird. 2,908,495.  
   Armstrong, Lorne D. 2,906,931.  
   Armstrong, Lorne D. 2,918,719.  
   Armstrong, Lorne D., Harmon, and Meisel. 2,878,432.  
   Armstrong, Lorne D., and Sherwood. 2,877,396.  
   Arnold, Walter L., and Pearce. 2,890,971.  
   Aron, Samuel. 2,905,881.  
   Aronson, Albert I. 2,887,540.  
   Aronson, Albert I. 2,892,045.  
   Aronson, Albert I. 2,883,479.  
   Artzt, Maurice. 2,876,412.  
   Artzt, Maurice. 2,901,538.  
   Avins, Jack. 2,873,314.  
   Avins, Jack. 2,907,960.  
   Avins, Jack. 2,913,579.  
   Avins, Jack, and Kronenberg. 2,898,398.  
   Ayres, Jay J., Cohen, and Brauer. 2,914,739.  
   Ayres, Jay J., and Cole. 2,905,069.  
   Ayres, William R., and Smith. 2,911,622.  
   Baer, John S., and Damerau. 2,903,687.  
   Baer, John S., and Grapes. 2,917,331.  
   Ball, Henry. 2,895,027.  
   Ballard, Randall C. 2,880,268.  
   Barkow, William H. 2,900,564.  
   Barkow, William H., and Matthews. 2,901,650.  
   Barkow, William H., and Matthews. 2,901,665.  
   Barton, Loy E. 2,886,748.  
   Batzle, William K. 2,900,553.  
   Beam, Walter R. 2,888,606.  
   Beam, Walter R., and Knechtli. 2,883,568.  
   Beam, Walter R., and Knechtli. 2,907,916.  
   Bechley, Fred L. 2,874,212.  
   Beers, George L. 2,874,213.  
   Behrend, William L. 2,881,388.  
   Bensky, Lowell S., and Fillebrown. 2,880,934.  
   Benway, Robert E. 2,887,598.  
   Berge, Raymond G., and Bradley. 2,874,278.  
   Bernard, Francois R. C., Wentworth, and Luther. 2,877,291.  
   Bieganski, Wladyslaw J., and Glickman. 2,873,438.  
   Black, Otis D., and Cutler. 2,908,557.  
   Blaney, Arthur C. 2,885,491.  
   Bleazey, John C. 2,913,644.  
   Blust, Henry L., Strych, and Vivian. 2,902,149.  
   Booth, Grant W., Hobbs, and Fillebrown. 2,911,624.  
   Briggs, George R. 2,886,801.  
   Briggs, George R., and Lo. 2,911,628.  
   Briggs, George R., and Rajchman. 2,897,405.  
   Briggs, George S. 2,908,594.  
   Briggs, Joseph A. 2,885,832.  
   Brooks, Forrest E. 2,870,373.  
   Bube, Richard H., and Thomsen. 2,916,678.  
   Burger, Gustav F. 2,885,227.  
   Burns, Leslie L., Jr. 2,900,562.  
   Burns, Leslie L., Jr., and Keizer. 2,915,594.  
   Busanovich, Charles J. 2,902,529.  
   Busanovich, Charles J., and Thomsen. 2,876,202.  
   Canto, Louis, Mohr, and Neumann. 2,912,676.  
   Carlson, David J. 2,880,282.  
   Cavanaugh, Daniel J. 2,902,756.  
   Celmer, Philip R., and Jensen. 2,872,299.  
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   Chase, John A. 2,877,065.  
   Cheilik, Philip. 2,877,445.  
   Cherry, William H. 2,870,247.  
   Chien, Kun L. 2,911,625.  
   Chien, Kun L., and Propster. 2,907,004.  
   Chien, Kun L., and Propster. 2,907,005.  
   Chin, Te N. 2,914,694.  
   Clay, Burton R. 2,890,330.  
   Clay, Burton R., and Carmen. 2,898,509.  
   Cohen, Robert M., and Bist. 2,903,630.  
   Colvin, Alex D. 2,891,304.  
   Comminos, Donald A. 2,901,537.  
   Concreeff-Yeates, Alexander J. 2,904,431.  
   Cooke, Harry L. 2,919,308.  
   Cooper, John C., and Hagmann. 2,875,374.  
   Cooperman, Michael, and Grundmann. 2,899,492.  
   Cope, Appleton D. 2,875,359.  
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   Covely, Frank D., 3rd. 2,907,519.  
   Crane, Hewitt D. 2,896,194.  
   Crooks, Horatio N. 2,886,799.  
   Crooks, Horatio N. 2,911,621.  
   Crooks, Horatio N., and Bitting. 2,912,493.  
   Crosby, Gilmore E., Smith, and Whitmer. 2,919,363.  
   Cuccia, Carmen L. 2,870,368.  
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   Damerau, Edward A. 2,884,111.  
   Davidson, James J. 2,900,456.  
   Dennison, Robert C., and Luther. 2,877,296.  
   De Philippo, William J., and Chien. 2,902,679.  
   Deranian, Minas, and Venderschmitt. 2,869,030.  
   Dietch, Leonard. 2,869,029.  
   Dietch, Leonard. 2,906,814.  
   Dinowitz, Edward E. 2,911,630.  
   Di Santi, Nicholas, Canfora, and Liguori. 2,868,875.  
   Dischert, Robert A., and Thomas. 2,906,947.  
   Dodds, Wellesley J. 2,887,609.  
   Donahue, Daniel J., and Hoshowsky. 2,867,587.  
   Donal, John S., Jr., and Cuccia. 2,912,613.  
   Duke, Vernon J. 2,890,277.  
   Eaton, Thomas T. 2,885,668.  
   Eichenbaum, Arie L., and Knechtli. 2,881,349.  
   Endres, Richard O., and Deutch. 2,889,467.  
   Epstein, David W., Kaus, and Van Ormer. 2,885,935.  
   Evans, Louis L., and Sprengeler. 2,903,638.  
   Fenton, Andrew F., and Kelly. 2,881,245.  
   Fillebrown, Stephen M., and Booth. 2,884,616.  
   Finkelstein, Morris B. 2,886,740.  
   Finkelstein, Morris B. 2,913,625.  
   Flory, Leslie E., Gray, Jensen, and Pike. 2,892,056.  
   Forbes, Edmond J. 2,897,274.  
   Fredendall, Gordon L. 2,895,004.  
   Freedman, Larry A. 2,913,523.  
   Fricke, Roger H., and Liggett. 2,875,386.  
   Funnell, William F. 2,898,995.  
   Gallup, John L. 2,877,143.  
   Garner, Lloyd P. 2,909,698.  
   Gensel, William L. 2,912,574.  
   George, Ralph W. 2,876,599.  
   Giacoletto, Lawrence J. 2,878,298.  
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   Gialmo, Edward C., Jr. 2,890,968.  
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   Gibson, John J. 2,872,648.  
   Gibson, Walter G. 2,892,884.  
   Gibson, Walter G., and Schroeder. 2,882,335.  
   Gibson, Walter G., and Schroeder. 2,899,495.  
   Gibson, Walter G., and Schroeder. 2,916,544.  
   Gihring, Herman E. 2,867,804.  
   Glazar, Walter S. 2,901,559.  
   Glicksman, Richard, and Morehouse. 2,897,249.  
   Goldstein, Bernard. 2,900,286.  
   Goodrich, Hunter C. 2,870,421.  
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   Goodrich, Hunter C. 2,891,192.  
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   Grange, Alban J. 2,902,687.  
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   Green, Milton W. 2,889,469.  
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   Haining, Lester E. 2,907,018.  
   Hall, James R. 2,881,255.  
   Hammand, Russell E., and Geduldig. 2,887,527.  
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   Hansell, Grant E. 2,888,554.  
   Hansen, Harry A., Paterson, and Peters. 2,913,645.  
   Hanson, Eugene O. 2,877,370.  
   Hanson, Eugene O., and Shrontz. 2,871,621.  
   Hanthorn, Horace F. 2,903,529.  
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 Herold, Edward W. 2,873,637.  
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 Hinsdale, Edwin M., Jr. 2,877,294.  
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 Hobbs, Linder C. 2,907,003.  
 Hogg, Aaron G. 2,901,712.  
 Holmes, David D. 2,878,380.  
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 Horowitz, Leopold A., and Hermeling. 2,902,546.  
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 Hoshowsky, Stanley A. 2,877,605.  
 Houghton, William D. 2,892,017.  
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 Hower, Richard W. 2,880,397.  
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 Hymas, Donald G., and McDermody. 2,898,455.  
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 Kessler, Sebastian W., Jr. 2,876,596.  
 Kidd, Marshall C. 2,873,387.  
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 Kihn, Harry. 2,872,579.  
 Kjellsen, Arvid G., and Blust. 2,918,198.  
 Knechtli, Ronald C. 2,902,623.  
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- Raifsnider, Philip J., to Shell Development Co. Perfluoroalkylimidazolines and compositions containing the same. 2,915,376, 12-1-59, Cl. 44—63.
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- Raines, Fred H., to All-American Mfg. Co. Firelighter. 2,917,615, 12-15-59, Cl. 219—32.
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- Rains, Jesse W. Pivoted jaw pliers. 2,910,903, 11-3-59, Cl. 81—381.
- Rainwater, Grover C., Jr. Pocket writing instrument holder. 2,890,507, 6-16-59, Cl. 24—3.
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- Raithel, Kurt E., to International Standard Electric Corp. Crystal rectifier or crystal amplifier. 2,906,930, 9-29-59, Cl. 317—234.
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- Romano, Sam S., and Rak. 2,893,346.
- Rak, George: See—
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- Rakebrandt, August: See—
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- Rakes, Lee L. Display. 2,874,496, 2-24-59, Cl. 40-28.3.
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- Rakowsky, Victor. Centrifugal method and apparatus for separating solids. 2,917,173, 12-15-59, Cl. 209-172.5.
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- Raleigh, Charles W.: See—
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- Raley, Howard F., to General Electric Co. Control system for clothes dryers. 2,887,785, 5-26-59, Cl. 34-45.
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- Ralls, Harry C., Jr. String conditioning and preserving. 2,892,374, 6-30-59, Cl. 84-297.
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- Ralston Mfg. Co.: See—
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- Ralston, Paul H.: See—
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- Beckett, Joseph E. 2,895,259.
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- Ramacher, Rudolph H.: See—
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- Ramirez, Tomas C. Wall of interlocked blocks. 2,884,780, 5-5-59, Cl. 72-38.
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- Rampe, John F. Shock absorbing drive for tumbling drums and the like. 2,894,406, 7-14-59, Cl. 74-230.17.
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- Ramsay, Marcus, to Olin Mathieson Chemical Corp. Rifling device. 2,872,720, 2-10-59, Cl. 29-1.1.
- Ramsdell, Paul A.: See—
- Gernert, William B., Phillippe, and Ramsdell. 2,909,121.
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- Ramsden, Hugh E., to Metal & Thermit Corp. Process for preparing vinyl tin compounds. 2,873,287, 2-10-59, Cl. 260-429.7.
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- Ramsden, Hugh E., to Metal & Thermit Corp. Hydrocarbon-tin derivatives of monomercapto-borate esters. 2,904,569, 9-15-59, Cl. 260-429.7.
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- Marien, Melvin W. 2,882,108.
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- Ramseyer, William F., Jr.: See—
- Young, Harland H., and Ramseyer. 2,912,332.
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- Ramsing, Robert E. V., to Ekco Products Co. Swivel canopy for lighting fixtures. 2,882,005, 4-14-59, Cl. 248-343.
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- Martin, Tellis A., and Randall. 2,908,684.
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- Randolph, Alan E., to Allied Products Corp. Bicycle transmission control. 2,905,017, 9-22-59, Cl. 74-489.
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- Rankin, Edward C., to Brock and Rankin, Inc. Loose-leaf binder with floating rings. 2,907,332, 10-6-59, Cl. 129-17.
- Rankin, Edward E., Jr., to Welx, Inc. System for radioactive logging. 2,879,403, 3-24-59, Cl. 250-83.6.
- Rankin, John C., and C. L. Mehlretter, to United States of America, Agriculture. Process for preparing hydroxyalkylated cereal flour. 2,900,268, 8-18-59, Cl. 106-150.
- Rankin, Walter J.: See—
- Reed, Ralph W., Rankin, and Tungseth. 2,913,857.
- Rankin, Walter J., and B. F. Tungseth, to Minnesota Mining & Mfg. Co. Reinforced abrasive articles and intermediate products. 2,880,080, 3-31-59, Cl. 51-297.
- Rankin, Walter J., and R. G. Riedesel, to Minnesota Mining & Mfg. Co. Fill-resistant abrasive articles. 2,881,064, 4-7-59, Cl. 51-295.
- Ranky, Bela: See—
- Neuhaus, Jean, Kemeny, and Ranky. 2,919,215.
- Ranky, William O.: See—
- Huett, George, and Ranky. 2,900,418.
- Ranous, Jack W., to Mitts and Merrill. Key seating machines. 2,909,967, 10-27-59, Cl. 90-43.
- Ransburg, Edwin M., to Ransburg Electro-Coating Corp. Electrostatic coating method and apparatus. 2,883,302, 4-21-59, Cl. 117-93.
- Ransburg, Edwin M., to Ransburg Electro-Coating Corp. Method and apparatus for electrostatically atomizing liquids. 2,893,894, 7-7-59, Cl. 117-93.
- Ransburg Electro-Coating Corp.: See—
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- Gauthier, William D., and Williams. 2,878,058.
- Juvinall, James W. 2,884,341.
- Juvinall, Robert C. 2,878,143.
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- Simmons, Charles C. Re. 24,602.
- Starkey, William A. 2,888,362.
- Ransburg, Harper J., Co., Inc.: See—
- Hartley, Robert L., and Houck. 2,916,184.
- Ransom, James A.: See—
- Kennedy, Jack W., and Ransom. 2,869,949.
- Ransom, Richard B. Differential gear set. 2,898,778, 8-11-59, Cl. 74-711.
- Ransome Torch & Burner Co.: See—
- Golden, Carl E. 2,880,791.
- Golden, Carl E. 2,880,793.
- Ranson, Richard R., to Cutler-Hammer, Inc. Mechanical interlock for circuit breakers. 2,904,649, 9-15-59, Cl. 200-50.
- Ranstead, Norman H., to Universal Oil Products Co. Heat exchanger. 2,872,163, 2-3-59, Cl. 257-230.
- Rantsch, Kurt, to Carl Zeiss. Interferometer. 2,911,880, 11-10-59, Cl. 88-14.
- Rapaport, Gustave H. Method and apparatus for mixing icings, cake batters and the like. 2,915,023, 12-1-59, Cl. 107-31.
- Rapaport, Herman I. Pogo stick. 2,871,016, 1-27-59, Cl. 272-57.
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- Raper, George F., ½ to T. M. M. (Research) Ltd. Apparatus for detecting and correcting departures from standard in the thickness or diameter of longitudinally travelling textile slivers. 2,891,287, 6-23-59, Cl. 19-70.
- Raper, John A.: See—
- Stern, Arthur P., and Raper. 2,882,350.
- Rapid Mounting & Finishing Co.: See—
- Goldberg, Joseph. 2,888,147.
- Rapids-Standard Co., Inc., The: See—
- McKnight, Robert J., and Swezey. 2,895,593.
- Rapoport, Henry, and M. Look, to United States of America, Atomic Energy Commission. Method for preparing normorphine. 2,890,221, 6-9-59, Cl. 260-285.
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- Rapp, Donald E.: See—
- Monroe, Roger F., and Rapp. 2,906,783.
- Watson, Edward J., and Rapp. 2,878,297.
- Rapp, Edward G., and C. H. Castle, to Thompson Products, Inc. Power steering assembly. 2,869,383, 1-20-59, Cl. 74-388.
- Rapp, George G. Non-skid car block. 2,870,872, 1-27-59, Cl. 138-32.
- Rappaport, Aaron B. Kitchenware safety handle. 2,881,945, 4-14-59, Cl. 220-94.
- Rappaport, George, J. A. Szaruga, and J. R. Wall, to General Motors Corp. Preparation of polyurethane foam and reaction mixtures therefor. 2,895,926, 7-21-59, Cl. 260-2.5.
- Rappaport, Sigmund, to Sperry Rand Corp., Ford Instrument Co. Division. Counting and indicating mechanism. 2,907,523, 10-6-59, Cl. 235-125.
- Rappen, Friedrich: See—
- Kolling, Helmut, Noeske, and Rappen. 2,892,877.
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- Rappeport, Gustave G. Parallel clamp with work retaining drill attachment. 2,886,080, 5-12-59, Cl. 144-300.
- Rapson, Bryan, to Aluminium Laboratories Ltd. Condenser with rotary scraper. 2,883,162, 4-21-59, Cl. 257-10.
- Rapson, William H., to Hooker Chemical Corp. Production of chlorine dioxide. 2,871,097, 1-27-59, Cl. 23-152.
- Rardain, Robert P.: See—
- Todd, John, Jr., and Rardain. 2,908,933.
- Rarick, John R.: See—
- Thesen, William H. 2,897,775.
- Rasch, Joachim, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Corrosion resistance apparatus for use with acid chloride solutions. 2,910,342, 10-27-59, Cl. 21-2.5.
- Rasero, Lawrence J., to The Russell Mfg. Co. Indicator tape. 2,912,016, 11-10-59, Cl. 139-425.
- Raske, Arthur. Inflated grinding wheel. 2,870,582, 1-27-59, Cl. 51-192.
- Raskin, Franz J. M. Flame igniter. 2,880,792, 4-7-59, Cl. 158-115.
- Rasmussen, Arnold R. Table lamp and shade. 2,899,543, 8-11-59, Cl. 240-108.
- Rasmussen, Carlton A., to General Motors Corp. Multiple passage supply duct. 2,894,443, 7-14-59, Cl. 98-2.
- Rasmussen, Clarence R.: See—
- Cahill, Harold G., and Rasmussen. 2,882,553.
- Rasmussen, Clarence R., to Western Electric Co., Inc. Article turnover device. 2,881,899, 4-14-59, Cl. 198-33.
- Rasmussen, George, to Hughes Aircraft Co. Circuit connector for printed circuit boards. 2,904,768, 9-15-59, Cl. 339-17.
- Rasmussen, George E., to Acme Steel Co. Machine for making barbed metal band. 2,915,104, 12-1-59, Cl. 153-29.
- Rasmussen, Peter O., to Sonderbys Fabriker A/S (E. F. Esmann A/S). Apparatus for applying a bayonet cover or a threaded cover to a container in the interior of which a vacuum shall be present when the cover has been applied thereto. 2,888,790, 6-2-59, Cl. 53-86.
- Rasmussen, Rasmus E. Combined milk cooling and filtering device. 2,886,071, 5-12-59, Cl. 141-82.
- Rasmussen, Sherrill K., to The Burdick Corp. Flexible induction electrode. 2,882,904, 4-21-59, Cl. 128-418.
- Rasmussen, Svend A. Safety fence for motorways. 2,898,090, 8-4-59, Cl. 256-13.1.
- Rasmussen, Volney K., to United States of America, Navy. Rocket base fuze. 2,872,869, 2-10-59, Cl. 102-81.
- Rasmussen, Marlin B. Automatic stick-confection mechanism. 2,884,875, 5-5-59, Cl. 107-8.
- Rasof, Bernard, and E. D. Jacobs. Apparatus for opening and closing an electrical circuit. 2,881,359, 4-7-59, Cl. 315-160.
- Rasor, John P., to Tinker and Rasor. Electrical testing device and method. 2,885,636, 5-5-59, Cl. 324-54.
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- Jorpes, Johan E., Mutt, Rastgeidi, and Linden. 2,878,159.
- Raszl, Larry, to Laka Tool and Stamping Co. Writing instrument. 2,907,302, 10-6-59, Cl. 120-42.03.
- Rataiczak, Francis L., to General Motors Corp. Refrigerating apparatus. 2,912,230, 11-10-59, Cl. 257-256.
- Ratajak, Edwin J., and R. C. Nubel, to Chas. Pfizer & Co., Inc. Process for producing streptomycin. 2,875,136, 2-24-59, Cl. 195-114.
- Ratay, Harold E. Portable target stand. 2,899,204, 8-11-59, Cl. 273-102.
- Ratby Engineering Co. Ltd.: See—
- Taylor, Robert C., and Grundy. 2,915,810.
- Vann, Henry E. 2,874,871.
- Ratcliff, Harold B.: See—
- Wirtz, Robert W., Ratcliff, and Turner. 2,898,827.
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- Ratcliff, Karl A., and W. A. Dorrance, to Iowa Cooperative Association, d. b. a. Diamond Laboratories. Injector. 2,869,543, 1-20-59, Cl. 128-218.
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- Ratcliffe, Charles B., and H. F. Wise, to Courtaulds, Inc. Process and composition for improving the properties of fibrous cellulosic material. 2,888,369, 5-26-59, Cl. 117-145.
- Ratcliffe, Edward B., to Angelstone Ltd. Mould. 2,867,887, 1-13-59, Cl. 25-119.
- Ratcliffe, Stanley, to Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Radar systems. 2,884,627, 4-28-59, Cl. 343-7.5.



- Ratcliffe, Temple W.: *See*—  
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- Rath, Joseph J., to Arvey Corp. Movable display device or toy. 2,886,908, 5-19-59, Cl. 40-33.
- Rath Packing Co.: *See*—  
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- Rath, Richard L. Conveyor unit. 2,917,148, 12-15-59, Cl. 193-35.
- Rath, Richard L., and G. F. Emig. End stop for slide fasteners and method of applying same. 2,884,691, 5-5-59, Cl. 29-408.
- Rath, Richard W.: *See*—  
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- Rath, Werner, to Stettner & Co., Fabrik Elektro-Keramischer Artikel. Silicones. 2,887,557, 5-19-59, Cl. 201-67.
- Rathe, Charles. Continuously variable gear drives or transmissions. 2,877,666, 3-17-59, Cl. 74-681.
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- Rather, Roy L., to United States of America, Navy. Articulated tow chain. 2,891,501, 6-23-59, Cl. 114-235.
- Rathgeber, Eric F., to Republic Aviation Corp. Router bit. 2,887,136, 5-19-59, Cl. 144-219.
- Rathje, David S.: *See*—  
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- Rathjen, Theodore N. Meat grinder. 2,869,602, 1-20-59, Cl. 146-189.
- Rathmann, Heinrich W., J. O. Staggers, and H. K. Bruner, to Vanadium Corp. of America. Process of making ferro-columbium from columbite ore. 2,909,427, 10-20-59, Cl. 75-133.5.
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- Ratkowski, Thomas A.: *See*—  
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- Ratkowski, Thomas A., to American Brake Shoe Co. Dipper teeth. 2,904,908, 9-22-59, Cl. 37-142.
- Ratkowski, Thomas A., to American Brake Shoe Co. Dipper teeth. 2,904,909, 9-22-59, Cl. 37-142.
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- Ratmeyer, Walter H. Magnetically controlled seed planter. 2,904,219, 9-15-59, Cl. 222-76.
- Ratner, George I., to The Marco Co. Skylight frame construction. 2,874,653, 2-24-59, Cl. 108-16.
- Ratner, Hyman: *See*—  
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- Ratner, Walter: *See*—  
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- Ratsep, Olev: *See*—  
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- Rattay, Matthew F. Squeegee for louver windows. 2,903,727, 9-15-59, Cl. 15-121.
- Ratte, Heinrich, and J. Geller, to Rutgerswerke-Akt. Continuous distillation of coal tar. 2,868,713, 1-13-59, Cl. 208-42.
- Rattee, Ian D.: *See*—  
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- Rattenbury, Kenneth H.: *See*—  
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- Ratti, Ferdinand J., to Chicago Rawhide Mfg. Co. Self-compensating seal. 2,888,281, 5-26-59, Cl. 286-11.11.
- Rattigan, A. Frieda: *See*—  
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- Rattigan, Edwin D., deceased; A. F. Rattigan, administratrix. Gate valve. 2,895,709, 7-21-59, Cl. 251-167.
- Rattner, Sydney: *See*—  
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- Rattray, George, to George Rattray & Co., Inc. Variable resistors. 2,918,643, 12-22-59, Cl. 338-95.
- Rattray, George, & Co., Inc.: *See*—  
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- Ratz, Rudi F. W., to Olin Mathieson Chemical Corp. Sulfonamido dialkyl phosphates and process of making same. 2,913,476, 11-17-59, Cl. 260-461.
- Rätz, Rudi F. W., and C. J. Grundmann, to Olin Mathieson Chemical Corp. Polymeric polyfluoroalkyl phosphonitrilates. 2,876,247, 3-3-59, Cl. 260-461.
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- Ratzer, Arthur F., and D. Levin, to Baker Industries, Inc. Liquid gelling agent. 2,870,095, 1-20-59, Cl. 252-316.
- Rau, Frank J.: *See*—  
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- Rau, Fritz: *See*—  
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- Rau, John A., to Allison Steel Mfg. Co. Beam-splitter. 2,876,836, 3-10-59, Cl. 164-61.
- Rau, William K., Jr., to Western Electric Co., Inc. Selective grommet inserting apparatus. 2,875,512, 3-3-59, Cl. 29-208.
- Rau, William K., Jr., to Western Electric Co., Inc. Traverse apparatus. 2,912,187, 11-10-59, Cl. 242-158.4.
- Raub, Henry S., J. M. Swidrak, and W. W. Palmquist, to Union Carbide Corp. Corrosion resistant pump. 2,905,093, 9-22-59, Cl. 103-114.
- Raub, Samuel H. S.: *See*—  
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- Raub, William A., and R. Ullman, to The E. F. Griffiths Co. Diaphragm structure. 2,884,782, 5-5-59, Cl. 73-278.
- Raubitschek, Alfred H.: *See*—  
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- Rauch, Walter, to Siemens & Halske Aktiengesellschaft Berlin and Munich. Resonance relay. 2,900,583, 8-18-59, Cl. 317-182.
- Rauche, Willy: *See*—  
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- Raudabaugh, Roy E. High pressure pump. 2,897,766, 8-4-59, Cl. 103-136.
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- Rauen, Raymond J. Duck decoy carrier. 2,899,997, 8-18-59, Cl. 150-1.
- Rauk, Palmer O. Sousaphone storage stand. 2,899,163, 8-11-59, Cl. 248-163.
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- Raunecker, Gretelore: *See*—  
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- Rausch, Charles: *See*—  
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- Rausch, Maurice K., to Sinclair Refining Co. Use of polyethylene to increase phase separation rate in solvent extraction process. 2,914,471, 11-24-59, Cl. 208-311.
- Rausch, Werner, and W. Werner, to Parker Rust Proof Co. Alkali metal pyrophosphate solutions and methods of forming coatings therewith. 2,891,884, 6-23-59, Cl. 148-6.15.
- Rautimo, Pentti J.: *See*—  
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- Ravdell, Maurice: *See*—  
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- Rave, Joseph A., Jr., and R. L. Henry, to The Cincinnati Milling Machine Co. Control system for machine tools. 2,902,904, 9-8-59, Cl. 90-13.
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- Ravich, Leonard E., to Hupp Corp. Crystal growing procedures. 2,890,939, 6-16-59, Cl. 23-294.
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- Rawdin, Eugene, to United States of America, Air Force. Method of eliminating scaling errors in analog computation. 2,900,458, 8-18-59, Cl. 179-171.
- Rawe, Roger F., to APRA Precipitator Corp. Horizontal plane purge for precipitator. 2,911,060, 11-3-59, Cl. 183-7.
- Rawley, Joseph, to General Motors Corp. Transmission. 2,891,422, 6-23-59, Cl. 74-754.
- Rawlings, Charlie C., Jr.: *See*—  
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- Rawlings, John L., and A. N. Ciaffardini, to Kollmorgen Optical Corp. Instantaneous reader for moving dials. 2,884,831, 5-5-59, Cl. 88-14.
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- Rawlins, Robert E., to Lockheed Aircraft Corp. Frequency ratio detector. 2,904,682, 9-15-59, Cl. 250-27.
- Rawson, Harold, and J. E. J. Dods, to The British Thomson-Houston Co. Ltd. Treatment of low loss ceramic materials. 2,873,506, 2-17-59, Cl. 25-157.
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- Ray, Frederick. Expansion joints and plates therefor. 2,871,885, 2-3-59, Cl. 138-50.
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- Ray, Gardner C., and H. J. Hepp, to Phillips Petroleum Co. Process for the recovery of olefin hydrocarbons. 2,894,049, 7-7-59, Cl. 260-677.
- Ray, Gardner C., and C. E. Smith, to Phillips Petroleum Co. Method of forming a clathrate complex. 2,905,730, 9-22-59, Cl. 260-674.
- Ray, Kelvin J.: *See*—  
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- Ray, Kenneth B.: *See*—  
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- Ray, Robert F., to Parkersburg-Aetna Corp. Horizontal separators. 2,887,174, 5-19-59, Cl. 183-2.7.
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- Ray, William A., to General Controls Co. Adjustable time delay valve. 2,868,029, 1-13-59, Cl. 74-424.8.
- Ray, William A., to General Controls Co. Method of making packing seal for die-cast insert. 2,876,535, 3-10-59, Cl. 29-527.
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- Ray, William A., to General Controls Co. Gas detector and system for gas detection. 2,881,274, 4-7-59, Cl. 200-61.03.
- Ray, William A., to General Controls Co. Fluid pressure operated control mechanism. 2,882,682, 4-21-59, Cl. 60-52.
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- Rayman, Charles J., to Cherry-Burrell Corp. Universal bottle pocket. 2,878,920, 3-24-59, Cl. 198-131.
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- Raymond, Clifford H. Extensible boom with load level maintenance means. 2,919,036, 12-29-59, Cl. 212-35.
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- Raymond Engineering Laboratory, Inc.: *See*—  
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- Raymond, Rodney L.: *See*—  
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- Rayner, Stanley H. Grain combine with dryer in storage bin. 2,902,816, 9-8-59, Cl. 56-473.5.
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- Raynes, Burt F., to Rohr Aircraft Corp. Cam controlled stretch former. 2,893,460, 7-7-59, Cl. 153-40.
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- Raynor, John M.: *See*—  
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- Raynor, Severin: *See*—  
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Butler, Jesse L. 2,895,131.  
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Hutchins, William R. 2,914,765.  
Kirkland, Robert E. 2,908,888.  
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Maloney, Henry B., and Russo. 2,896,064.  
Mork, Raymond P. 2,894,254.  
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Paananen, Roy A. 2,914,700.  
Porter, Leonard C., and Brule. 2,914,642.  
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 Stroup, Leslie G. 2,915,690.  
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 Blais, Maurice E. 2,882,464.  
 Brown, William C. 2,881,270.  
 Buckbee, John A., and Terzian. 2,871,403.  
 Cole, Benjamin R., and Cleary. 2,886,704.  
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 Dench, Edward C. 2,888,610.  
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 Gorton, William G. 2,879,737.  
 Haagensen, Duane B. 2,888,543.  
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- Read, Glenn F. Disassembler. 2,876,991, 3-10-59, Cl. 254-  
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- Reaney, David W.: *See*—  
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- Reaney, Michael J., to Colt Ventilation Ltd. Ventilator  
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- Reardon, Thomas J.: *See*—  
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- Reaves, Edward G. Coin purse. 2,909,203, 10-20-59, Cl.  
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- Reaves, Robert S., to Allis-Chalmers Mfg. Co. Gauge wheel  
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- Rebikoff, Dimitri I. Underwater gun. 2,896,604, 7-28-59,  
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- Recht, Howard L.: *See*—  
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- Reddy, Robert, to United States of America, Air Force. Igniter. 2,897,649, 8-4-59, Cl. 60-39.82.
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- Redemann, Carl T., to The Dow Chemical Co. Method and composition for producing gibberellins. 2,918,413, 12-22-59, Cl. 195-36.
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- Redfearn, Howard O. Means for recapping tires. 2,868,257, 1-13-59, Cl. 152-187.
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- Redford, Edward L. Cigar having a tip or mouthpiece. 2,869,558, 1-20-59, Cl. 131-187.
- Red-Gesellschaft m.b.H., Technik und Produkte; Cellulose, Chemie und Chemie der Kunststoffe: *See*—  
Elian, John, and Lepingle. 2,880,228.  
Elian, John, and Lepingle. 2,913,502.
- Redhead, Edward B. Mold forming apparatus. 2,882,566, 4-21-59, Cl. 22-36.
- Redick, David C.: *See*—  
Hartzell, Herman L., Redick, and Julian. 2,872,537.
- Rediger, John R.: *See*—  
Klecker, Joseph G., Miller, Sieving, and Rediger. 2,869,382.
- Reding, Frederick P., to Union Carbide Corp. Coating composition containing wax and ethylene-vinyl acetate copolymer. 2,877,196, 3-10-59, Cl. 260-28.5.
- Redington, F. B., Co.: *See*—  
Engleson, Harry E., and Sramek. 2,888,125.  
Engleson, Harry E., and Sramek. 2,876,604.  
Engleson, Harry E., and Sramek. 2,881,682.  
Barr, Charles L. 2,909,874.  
Engleson, Harry E., and Klein. 2,884,117.  
Engleson, Harry E., and Sramek. 2,890,556.  
Engleson, Harry E., and Sramek. 2,900,880.  
Engleson, Harry E., and Sramek. 2,901,084.  
Engleson, Harry E., and Sramek. 2,907,155.  
Engleson, Harry E., and Sramek. 2,914,322.  
Hartbauer, Ellsworth A. 2,900,778.  
Klein, Stephen V. 2,870,962.  
Malhiot, Clarence J. 2,913,864.  
Sramek, Elmer D. 2,885,847.  
Sramek, Elmer D. 2,914,323.  
Sramek, Elmer D., and Hartbauer. 2,885,844.
- Redington, Rowland W., to General Electric Co. Target electrode assembly. 2,879,419, 3-24-59, Cl. 313-68.
- Red Jacket Mfg. Co.: *See*—  
Patterson, Glenn A., and Deters. 2,891,622.
- Red Magnet Wire Co., Inc.: *See*—  
Whearley, Robert L. 2,902,612.
- Redman, Horace E., to Ethyl Corp. Manufacture of aluminum ethyl compounds. 2,885,314, 5-5-59, Cl. 148-13.1.
- Redman, Horace E., to Ethyl Corp. Manufacture of triethylaluminum. 2,886,581, 5-12-59, Cl. 260-448.
- Redmer Sons Co.: *See*—  
Redmer, Wilbert W. 2,889,848.
- Redmer, Wilbert W., to Redmer Sons Co. Flow control clamp. 2,889,848, 6-9-59, Cl. 137-315.
- Redmon, Owen C.: *See*—  
Fitzgerald, Joseph N., Gernhardt, and Redmon. 2,872,043.
- Redmond, Eugene R., to Brian Jackson Associates, Inc. Process for refining blister copper. 2,895,821, 7-21-59, Cl. 75-75.
- Redmond, John A., J. W. Peach, R. K. Wuerfel, and E. L. Weight to Westinghouse Electric Corp. Furnace construction. 2,900,479, 8-18-59, Cl. 219-10.67.
- Redmond, John G. Dispensing device for a toothpaste tube or the like. 2,898,017, 8-4-59, Cl. 222-519.
- Redmond, Robert L., and H. J. Thomsen, to Automotive Rubber Co., Inc. Container for corrosive materials. 2,912,136, 11-10-59, Cl. 220-63.
- Redmond, William G., to Chance Vought Aircraft Inc. Servo control hand grip. Re. 24,701, 9-15-59, Cl. 318-19.
- Redniss, Alexander, S. Goodman, and T. Cantor, to Technical Enterprises Inc. Production of hydrogen chloride and sulfuric acid. 2,871,098, 1-27-59, Cl. 23-156.
- Rednour, John E. Process and apparatus for liquid transfer. 2,918,928, 12-29-59, Cl. 137-14.
- Redpath, James S., and R. H. Rogers. Trash gathering machine. 2,916,753, 12-15-59, Cl. 15-84.
- Red Point Corp.: *See*—  
Craig, Ralph P. 2,879,810.
- Red Star Yeast and Products Co.: *See*—  
Cooper, Elmer J., and Peppler. 2,904,439.
- Reeber, Rudolf: *See*—  
Benink, Christian J. M., and Reeber. 2,868,152.
- Reece, Clarence D., and N. Paul, to Modern Coatings, Inc. Artificial tree. 2,893,149, 7-7-59, Cl. 41-15.
- Reece Folding Machine Co.: *See*—  
Rogers, William H. 2,884,167.
- Reece, Franklin A. Replaceable button clamp. 2,875,715, 3-3-59, Cl. 112-114.
- Reece, Michael P., to E.R.A. Patents Ltd. Electrical switching apparatus. 2,897,322, 7-28-59, Cl. 200-146.
- Reece, Michael P., to E. R. A. Patents Ltd. Electrical switching apparatus. 2,900,476, 8-18-59, Cl. 200-144.
- Reed, Charles C., and R. Winterbottom, to American Cyanamid Co. Process for preparing chlortetracycline sulfate. 2,871,265, 1-27-59, Cl. 260-559.
- Reed, Charles O., Jr.: *See*—  
Casagrande, Robert M., Motard, and Reed. 2,912,284.
- Reed, Clair S., to Van Dresser Specialty Corp. Upholstery spring cover. 2,906,320, 9-29-59, Cl. 155-181.



- Reed, Cortes F., to C. L. Horn. Germanium compound recovery process. 2,898,188, 8-4-59, Cl. 23-19.
- Reed, Daniel J., to A. O. Smith Corp. Pump. 2,911,918, 11-10-59, Cl. 103-87.
- Reed, Daniel J., Jr.: *See*—  
Camp, James B., and Reed. 2,397,914.
- Reed, Denzel W., to Gulf Research & Development Co. Sub-surface flowmeter. 2,875,612, 3-3-59, Cl. 73-155.
- Reed, Donald E.: *See*—  
Sweeney, John F., and Reed. 2,914,619.
- Reed, Duke E., to Western Electric Co., Inc. Frequency modulating transistor circuits. 2,879,480, 3-24-59, Cl. 332-16.
- Reed, Earl V., and H. B. Vahey, to Land-Air, Inc. Control means for regulating the output of X-ray apparatus. 2,883,554, 4-21-59, Cl. 250-95.
- Reed, Edwin E., to Phillips Petroleum Co. Underground storage. 2,871,668, 2-3-59, Cl. 62-54.
- Reed, Edwin E., to Phillips Petroleum Co. Control system. 2,872,072, 2-3-59, Cl. 222-30.
- Reed, Edwin E., to Phillips Petroleum Co. LPG removal from underground storage. 2,895,303, 7-21-59, Cl. 62-54.
- Reed, Edwin E., to Phillips Petroleum Co. Pressurized storage system. 2,901,889, 9-1-59, Cl. 61-5.
- Reed, Forrest C. Carbon black apparatus. 2,877,717, 3-17-59, Cl. 23-259.5.
- Reed, Forrest C. Process for producing carbon black. 2,878,104, 3-17-59, Cl. 23-209.5.
- Reed, Frank: *See*—  
Blain, Albert, Welsh, Wilson, and Reed. 2,914,264.  
Blain, Albert, Welsh, Wilson, Reed, Meyer, and Roggenstein. 2,874,369.
- Reed, Frank L. Folding music device. 2,917,965, 12-22-59, Cl. 84-472.
- Reed, Frederick C.: *See*—  
Hiatt, Melvin A., Bonifaci, and Reed. 2,879,642.
- Reed, Frederick P., to United States of America, Army. Gas system for firearms. 2,895,383, 7-21-59, Cl. 89-191.
- Reed, Gabriel, to Ultra Electric, Inc. Electromagnetic device. 2,869,048, 1-13-59, Cl. 317-165.
- Reed, Glenn L.: *See*—  
Hedlund, Swan, and Reed. 2,900,648.
- Reed, George M.: *See*—  
Eichelberger, Charles D., and Reed. 2,914,627.
- Reed, Harold V., to Borg-Warner Corp. Semi-centrifugal clutch. 2,902,129, 9-1-59, Cl. 192-105.
- Reed, Herbert B., Jr., and N. N. Estes, to United States of America, Navy. Electrochemical element for automatic control. 2,896,095, 7-21-59, Cl. 307-149.
- Reed, Herbert B., Jr., to United States of America, Navy. System for charging and discharging a battery pack. 2,904,739, 9-15-59, Cl. 320-7.
- Reed, Hugh W. B., and W. R. Smith, to Imperial Chemical Industries Ltd. Production of metal alkyls. 2,872,470, 2-3-59, Cl. 260-448.
- Reed, Hugh W. B., and H. G. Lawley, to Imperial Chemical Industries Ltd. Polymerization of unsaturated hydrocarbons. 2,891,937, 6-23-59, Cl. 260-94.9.
- Reed, Hugh W. B., and W. E. A. Mitchell, to Imperial Chemical Industries Ltd. Polymerisation of olefins. 2,898,328, 8-4-59, Cl. 260-93.7.
- Reed, Hugh W. B., and P. O. Lenel, to Imperial Chemical Industries Ltd. Preparation of alcohols. 2,911,443, 11-3-59, Cl. 260-632.
- Reed, James H., III, to Dry Screen Process, Inc. Printing apparatus. 2,895,412, 7-21-59, Cl. 101-123.
- Reed, James H., III, to Dry Screen Process, Inc. Printing apparatus. 2,918,866, 12-29-59, Cl. 101-124.
- Reed, John A., and H. D. Walters. Nursing bottle. 2,887,239, 5-19-59, Cl. 215-11.
- Reed, John C., Jr., to United States of America, Navy. Beacon system. 2,891,246, 6-16-59, Cl. 343-15.
- Reed, John E. Combination packer and tubing anchor. 2,896,725, 7-28-59, Cl. 166-216.
- Reed, John J.: *See*—  
Reed, William W. and J. J. 2,894,478.
- Reed, John M.: *See*—  
Jonko, Francis J., and Reed. 2,906,936.
- Reed, L. G., Corp.: *See*—  
Reed, Leland G. 2,897,950.
- Reed, Leland G., to L. G. Reed Corp. Machine for assembling storage battery plates and separators. 2,897,950, 8-4-59, Cl. 198-35.
- Reed, Lorena P. Lady's handbag. 2,904,091, 9-15-59, Cl. 150-28.
- Reed Mfg. Co.: *See*—  
Bjalme, Bengt G. 2,885,698.  
Brown, Thomas G. 2,899,073.
- Reed, Margaret C. Rack for seamstresses. 2,885,131, 5-5-59, Cl. 223-68.
- Reed, Maurice J. Contour pillow. 2,896,227, 7-28-59, Cl. 5-338.
- Reed, Maurice T., Jr. Screw driven tailgate loader. 2,908,408, 10-13-59, Cl. 214-75.
- Reed, Maurice T., Jr. Anti-friction force column. 2,910,883, 11-3-59, Cl. 74-424.8.
- Reed, Ralph W., W. J. Rankin, and B. F. Tungseth, to Minnesota Mining and Mfg. Co. Rotative abrasive structure. 2,913,857, 11-24-59, Cl. 51-193.5.
- Reed, Richard J.: *See*—  
Moore, Earl D., and Reed. 2,909,116.
- Reed, Robert L., to United States of America, Atomic Energy Commission. Uranium-tantalum alloy. 2,902,361, 9-1-59, Cl. 75-122.7.
- Reed Roller Bit Co.: *See*—  
Boice, Elvin G. 2,904,374.  
Boice, Elvin G. 2,917,822.  
Boice, Elvin G., and Peter. 2,901,224.  
Kucera, Clement M., and Peter. 2,883,158.  
Miller, Elvas A., and Johnson. 2,900,171.  
Peter, Robert G. 2,907,551.  
Peter, Robert G., and Boice. 2,918,315.
- Reed, Ronald: *See*—  
Burton, Donald, Reed, and Flint. 2,871,162.
- Reed, Stanley F. Method and apparatus for recognizing words. 2,905,927, 9-22-59, Cl. 340-149.
- Reed, Thomas B.: *See*—  
Oyler, Glenn W., Maier, and Reed. 2,884,510.
- Reed, Thomas B., J. Maier, III, and G. W. Oyler, to Union Carbide Corp. Non-transferred arc torch process and apparatus. 2,874,265, 2-17-59, Cl. 219-121.
- Reed, Thomas B., and M. T. Smith, Jr., to Union Carbide Corp. Arc torch push starting. 2,898,441, 8-4-59, Cl. 219-75.
- Reed, Thomas F., to United States Steel, Corp. Method of reducing iron oxide. 2,876,091, 3-3-59, Cl. 75-26.
- Reed, Thomas W.: *See*—  
Hohlfelder, Harvey F., and Reed. 2,879,565.
- Reed Unit-Fans, Inc.: *See*—  
Bayhi, Marcel J. 2,874,898.
- Reed, William A.: *See*—  
Crooks, Sheridan R., and Reed. 2,902,357.  
Graham, Marion E., Reed, and Holman. 2,875,035.
- Reed, William A., and J. J. Swanson, to Republic Steel Corp. Process for improving parts formed by powder metallurgy by addition of spiegeleisen to metal powders. 2,903,354, 9-8-59, Cl. 75-214.
- Reed, William O., to The Rauland Corp. Image transducers. 2,903,596, 9-8-59, Cl. 250-213.
- Reed, William W., and J. J. Fluid signaling means. 2,894,478, 7-14-59, Cl. 116-114.
- Reed, Willis E.: *See*—  
Cummings, Ralph J., and Reed. 2,908,991.
- Reed, Willis E., & Co.: *See*—  
Cummings, Ralph J., and Reed. 2,908,991.
- Reed, Willis E., and R. J. Cummings. Sporting tackle. 2,896,354, 7-28-59, Cl. 43-21.
- Reed, Willis E., and R. J. Cummings. Motor drive fishing reel. 2,896,875, 7-28-59, Cl. 242-84.53.
- Reeder, Edwin W.: *See*—  
Oehler, William P., Immesoete, and Reeder. 2,917,012.
- Reeder, James R.: *See*—  
Hulsey, Ronald E., Reeder, and Schuh. 2,917,638.  
Schuh, Niles F., Reeder, Lowry, and Hulsey. 2,885,569.
- Reeder, James R., and R. E. Hulsey, to Westinghouse Electric Corp. Protective system for alternating current generators. 2,883,561, 4-21-59, Cl. 307-51.
- Reeder, James R., N. F. Schuh, and L. R. Lowry, Jr., to Westinghouse Electric Corp. Generator control and protective system. 2,885,568, 5-5-59, Cl. 307-87.
- Reeder, Joseph H. Triple fish hook. 2,873,548, 2-17-59, Cl. 43-37.
- Reeder, Wendell, and J. C. Patton. Method for titrating calcium. 2,910,349, 10-27-59, Cl. 23-230.
- Reed-O-Matic, Inc.: *See*—  
Fenburr, Herbert L. 2,910,173.
- Reedy, Thomas D., to Chamberlin Products Corp. Pressure responsive valve structure. 2,876,794, 3-10-59, Cl. 137-517.
- Reedy, Willis L.: *See*—  
Fausek, Irwing F., and Reedy. 2,904,060.
- Reeg, Cloyd P.: *See*—  
Berg, Clyde H., Hines, Hunt, Reeg, and Ballard. 2,881,117.  
Oliver, Robert C., and Reeg. 2,879,225.  
Oliver, Robert C., and Reeg. 2,879,226.
- Reeg, Cloyd P., and R. P. Vaell, to Union Oil Co. of California. Solids flow control process and apparatus. 2,882,912, 4-21-59, Cl. 134-155.
- Reek, Robert J., to Teletype Corp. Code converter. 2,886,639, 5-12-59, Cl. 178-26.
- Reek, Robert J., and P. G. Wray, to Teletype Corp. Code converter. 2,879,332, 3-24-59, Cl. 178-26.
- Reel, Leo D. Tubular loading mechanism. 2,902,311, 9-1-59, Cl. 294-87.
- Reenberg, Knud R., to Philipsen & Co. Carton cases. 2,876,944, 3-10-59, Cl. 229-37.
- Reents, August C.: *See*—  
Caskey, Paul H., and Reents. 2,891,007.
- Rees, Frank X., to General Railway Signal Co. Impulse track circuit with filtered alternating current supply. 2,903,574, 9-8-59, Cl. 246-34.
- Rees, Harry V., to Texaco Development Corp. Process for the recovery of oil from oil-bearing minerals. 2,885,275, 5-5-59, Cl. 48-215.
- Rees, John, and G. C. E. B. Hulbert, to Bristol Aircraft Ltd. Manufacture of hollow articles. 2,905,578, 9-22-59, Cl. 154-90.
- Rees, Karl, 1/2 to Messrs. Striwa A.G. Hand knitting apparatus. 2,909,049, 10-20-59, Cl. 66-60.
- Rees, N. John, to Socony Mobil Oil Co., Inc. Kiln cooler. 2,885,190, 5-5-59, Cl. 257-224.



- Rees, Norman J., and A. W. Zeuthen, to Socony Mobil Oil Co., Inc. Gas lift. 2,909,392, 10-20-59, Cl. 302-59.
- Rees, Richard W., to Shawinigan Chemicals Ltd. Surface-active agents derived from acrylates and methacrylates. 2,883,369, 4-21-59, Cl. 260-79.3.
- Rees, Richard W., to Shawinigan Chemicals Ltd. Graft copolymers prepared from unsaturated polyvinyl chloride and acrylic esters and method of making same. 2,908,662, 10-13-59, Cl. 260-45.5.
- Rees, Vernon C.: *See*—  
Pim, Richard A., and Rees. 2,905,403.
- Rees, Warren A., Jr., to The Texas Co. Personnel or object transfer apparatus and method. 2,874,855, 2-24-59, Cl. 214-14.
- Reesby, Carl E.: *See*—  
Smith, Orville R., and Reesby. 2,899,633.
- Reese, James H.: *See*—  
Biemiller, Philip E., Reese, and Van Horn. 2,877,654.  
Van Horn, John A., Biemiller, and Reese. 2,888,797.
- Reese, Johannes, to Chemische Werke Albert. Epoxy resin compositions of improved heat hardening characteristics and the process of their production. 2,906,723, 9-29-59, Cl. 260-42.
- Reese, Johannes. Hydrocarbon soluble conversion products of isomerized rubber and styrene and their production. 2,916,465, 12-8-59, Cl. 260-4.
- Reese, Johannes, to Chemische Werke Albert. Production of butylated phenol. 2,916,524, 12-8-59, Cl. 260-624.
- Reese, Michael, Research Foundation, Inc.: *See*—  
Naftulin, Henry, and Egge. 2,901,112.  
Naftulin, Henry, and Egge. 2,914,181.
- Reese, William M. Differential pressure responsive device. 2,890,721, 6-16-59, Cl. 137-779.
- Reeser, Esral M., to J. I. Case Co. Safety winch crank. 2,899,840, 8-18-59, Cl. 74-545.
- Reetz, Theodor, to Monsanto Chemical Co. Phosphonoformamides and methods for preparation. 2,909,558, 10-20-59, Cl. 260-461.
- Reeve, David H., to United States of America, Atomic Energy Commission. Method for recovery of iron sulfate. 2,878,101, 3-17-59, Cl. 23-126.
- Reeve, John R. Mud anchor. 2,881,591, 4-14-59, Cl. 61-46.5.
- Reeve, William L., and J. J. Chrisman, to The B. F. Goodrich Co. Hose making apparatus. 2,918,777, 12-29-59, Cl. 57-15.
- Reeves Brothers, Inc.: *See*—  
Reeves, Charles E. G. 2,870,455.
- Reeves, Charles E., to Falcon Alarm Co., Inc. Mechanism for operating a signalling device. 2,882,853, 4-21-59, Cl. 116-112.
- Reeves, Charles E. G., to Falcon Alarm Co., Inc. Portable signalling device. Re. 24,730, 10-27-59, Cl. 116-112.
- Reeves, Charles E. G., to Reeves Brothers, Inc. Protective cover for an outdoor swimming pool. 2,870,455, 1-27-59, Cl. 4-172.
- Reeves, Donald H. Key operated portable calculating machine. 2,881,977, 4-14-59, Cl. 235-82.
- Reeves, Herbert M., to Geo. D. Roper Corp. Adjustable broiler mechanism. 2,868,190, 1-13-59, Cl. 126-41.
- Reeves, Herbert M., to Geo. D. Roper Corp. Countertop cooking unit and mounting therefor. 2,887,103, 5-19-59, Cl. 126-214.
- Reeves Instrument Corp.: *See*—  
McCoy, Rawley D., and Godet. 2,889,508.  
Meissinger, Hans F., and McCoy. 2,899,550.  
Steinberg, Walter A. 2,899,627.
- Reeves, Pierce E., to Zenith Radio Corp. Subscription television control circuit. 2,883,526, 4-21-59, Cl. 250-27.
- Reeves Soundcraft Corp.: *See*—  
Franck, Ernest W., and Schettini. 2,879,176.
- Reeves, Wilson A.: *See*—  
Bullock, Austin L., Reeves, and Guthrie. 2,916,473.  
Chance, Leon H., Drake, and Reeves. 2,870,042.  
Chance, Leon H., Drake, and Reeves. 2,886,538.  
Chance, Leon H., Drake, and Reeves. 2,891,877.  
Chance, Leon H., Drake, and Reeves. 2,901,444.  
Drake, George L., Jr., Reeves, and Chance. 2,886,539.  
Drake, George L., Jr., Reeves, and Chance. 2,911,325.
- Reeves, Wilson A., L. H. Chance, and G. L. Drake, Jr., to United States of America, Agriculture. Phosphorus-containing aziridinyl-amine polymers and flame resistant organic textiles. 2,889,289, 6-2-59, Cl. 260-2.
- Reeves, Wilson A., and J. D. Guthrie, to United States of America, Agriculture. Composition comprising nitrilo methylol-phosphorus-polymer and organic textiles flame-proofed therewith. 2,892,803, 6-30-59, Cl. 260-29.2.
- Reeves, Wilson A., J. D. Guthrie, and G. L. Drake, Jr., to United States of America, Agriculture. Flame- and crease-resistant textiles from aziridine carboxyalkylcellulose. 2,906,592, 9-29-59, Cl. 8-116.2.
- Reeves, Wilson A., J. D. Guthrie, and L. H. Chance, to United States of America, Agriculture. Aziridine-phenolic polymers. 2,912,412, 11-10-59, Cl. 260-47.
- Reeves, Wilson A., and J. D. Guthrie, to United States of America, Agriculture. Phosphorus-containing polyesters and method for their production. 2,913,436, 11-17-59, Cl. 260-75.
- Reeves, Wilson A., L. H. Chance, and G. L. Drake, Jr., to United States of America, Agriculture. Reaction products of 1-aziridinyl compounds with compounds containing active methylene groups. 2,917,492, 12-15-59, Cl. 260-78.4.
- Ref Mfg. Corp.: *See*—  
Paulding, David L. 2,885,526.
- Refice, Alfred F., to General Electric Co. Resilient mounting means. 2,904,289, 9-15-59, Cl. 248-26.
- Refined Products Corp.: *See*—  
Musser, David M., and Zoccolillo. 2,867,563.
- Refining, Unincorporated: *See*—  
Thurman, Benjamin H. 2,892,619.  
Thurman, Benjamin H. 2,917,525.
- Reflectal Corp.: *See*—  
Berg, Forrest O. 2,874,423.  
Berg, Forrest O. 2,915,793.
- Reflectone Corp., The: *See*—  
Brown, Forrest W. 2,901,610.  
Chichester, Kenneth J. 2,886,666.  
Simjian, Luther G. 2,880,554.  
Simjian, Luther G. 2,880,665.  
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Simjian, Luther G. 2,881,080.  
Simjian, Luther G. 2,883,809.  
Simjian, Luther G. 2,894,750-2,894,754.  
Simjian, Luther G. 2,897,727.  
Simjian, Luther G. 2,902,712.  
Simjian, Luther G. 2,902,767.
- Reflector-Hardware Corp.: *See*—  
Levy, Edward M. 2,891,678.  
Levy, Edward M. 2,900,085.  
Levy, Edward M. 2,900,086.  
Levy, Edward M. 2,919,034.  
Levy, Edward M., and Lopatka. 2,910,187.
- Refin Co.: *See*—  
Usab, Ernest M. 2,876,154.  
Usab, Ernest M. 2,887,728.
- Refrigeration Appliances, Inc.: *See*—  
Niederer, Ernest, and Zwickl. 2,875,626.  
Zwickl, Joseph. 2,882,695.
- Refrigeration Engineering, Inc.: *See*—  
Wile, Daniel D., and Adachi. 2,887,856.
- Regal Plastic Co.: *See*—  
Kivett, Jerome S. 2,878,907.
- Regan Forge and Engineering Co.: *See*—  
Regan, John and L. M. 2,895,428.
- Regan, John and L. M., to Regan Forge and Engineering Co. Lowering pulling tool and shatterable guide nose combination. 2,895,428, 7-21-59, Cl. 103-233.
- Regan, John E. Winding key for collapsible wall type containers. 2,903,162, 9-8-59, Cl. 222-99.
- Regan, Joseph J.: *See*—  
Petty, William O. 2,913,826.
- Regan, Louis M.: *See*—  
Regan, John and L. M. 2,895,428.
- Regan, Thomas J., S. A. Jones, and E. J. Wasp, to Consolidation Coal Co. Closed circuit pipeline and control system therefor. 2,880,745, 4-7-59, Cl. 137-207.
- Regelman, La Rue V., to Sylvania Electric Products Inc. Magnetic rotary contact. 2,897,468, 7-28-59, Cl. 339-8.
- Regentrop, Paul, and W. Fastenrath. Spool for typewriter ribbon. 2,881,894, 4-14-59, Cl. 197-175.
- Reggia, Frank: *See*—  
Spencer, Edward G., Reggia, Tompkins, and Hatcher. 2,905,940.
- Reggia, Frank, and R. C. LeCraw, to United States of America, Army. Microwave modulator and switch. 2,906,974, 9-29-59, Cl. 333-98.
- Reggiani Meccanotex S.A.: *See*—  
Giani, Adolfo. 2,899,894.
- Reggio, Ferdinando C. Engine fuel-air ratio control. 2,868,183, 1-13-59, Cl. 123-119.
- Reggio, Ferdinando C. Engine fuel feed device. 2,882,880, 4-21-59, Cl. 123-119.
- Reggio, Ferdinando C. Engine air induction control apparatus. 2,896,598, 7-28-59, Cl. 123-119.
- Reggio, Ferdinando C. Power plant speed and temperature control. 2,901,885, 9-1-59, Cl. 60-13.
- Reggio, Ferdinando C. Regulating device. 2,910,969, 11-3-59, Cl. 121-42.
- Reggio, Ferdinando C. Engine fuel control utilizing compressor pressure, speed and temperature. 2,914,050, 11-24-59, Cl. 123-103.
- Reggio, Ferdinando C. Fuel supply system. 2,918,912, 12-29-59, Cl. 123-119.
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- Regley, Henri-Louis. Massaging apparatus of the ball type. 2,895,469, 7-21-59, Cl. 128-57.
- Regnauld, Pierre, and B. Bogatenkoff, to L'Air Liquide, Société Anonyme pour l'Étude et l'Exploitation de Procédés Georges Claude. Method and apparatus for automatic arc welding with a fusible electrode. 2,897,343, 7-28-59, Cl. 219-135.
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- Regnier, Norman J., and M. R. Shaffer, to Hoffman Electronics Corp. Light sensitive voltage producing device or the like. 2,919,298, 12-29-59, Cl. 136-89.
- Regnier, Wilmer D.: *See*—  
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- Rehahn, Jens P., to VEB Funkwerk Kopenick. Electronic time delay relay. 2,901,606, 8-25-59, Cl. 250-27.
- Rehberg, Henrietta M.: *See*—  
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- Rehberg, Richard A.: *See*—  
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- Rehdrof, Arnold L. Punching and extruding device. 2,887,157, 5-19-59, Cl. 164-86.
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 Garizio, John E., Rubino, and Almquist. 2,876,163.
- Reheis, Daniel H.: *See*—  
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- Reheis, Harry L., to E. E. Souther Iron Co. Gutter hanger. 2,899,158, 8-11-59, Cl. 248-48.2.
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- Rehm, Gustav A., to Springfield Boiler Co. Steam washer condenser. 2,876,749, 3-10-59, Cl. 122-459.
- Rehn, Karl-Heinz, to Barmer Maschinenfabrik Akt. Yarn accumulating member. 2,867,968, 1-13-59, Cl. 57-58.65.
- Rehnborg, Edward H., and J. L. Sayre, to Edcliff Instruments, Inc. Pressure transducer. 2,901,718, 8-25-59, Cl. 338-41.
- Rehner, John, Jr.: *See*—  
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- Rehorn, Miles P. Stereoscopic system and apparatus. 2,883,906, 4-28-59, Cl. 88-29.
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- Reiback, Earl M. Binaural phonograph pickup. 2,875,282, 2-24-59, Cl. 179-100.41.
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- Reich, Walter A., to A. Reich & Sons, Inc. Mechanism for lowering meat-carrying hooks from overhead tracks. 2,882,551, 4-21-59, Cl. 17-24.
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- Reich, William. Golf cart. 2,883,207, 4-21-59, Cl. 280-47.19.
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- Reichel, Howard G.: *See*—  
 Hensgen, Bernard T., and Reichel. 2,905,967.
- Reichelt, Lester O.: *See*—  
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- Reichelt, Lester O., and B. F. Ritchie, to Western Electric Co., Inc. Electrical solder pot. 2,908,796, 10-13-59, Cl. 219-44.
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- Reichelt, Walter, and H. Schmeken, to W. C. Heraeus G.m.b.H. Coating. 2,903,544, 9-8-59, Cl. 219-19.
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- Reichenbach, Laurence L. Easy walker appliance. 2,899,968, 8-18-59, Cl. 135-45.
- Reicheneder, Franz: *See*—  
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- Reichenwallner, Carl J.: *See*—  
 MacAllister, Robert V., and Reichenwallner. 2,912,855.
- Reichert, Allan S., to Shampaine Co. Side rail for hospital beds. 2,891,258, 6-23-59, Cl. 5-331.
- Reichert, Allan S., and R. T. Adolphson, to Shampaine Co. Hospital beds. 2,872,688, 2-10-59, Cl. 5-63.
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- Reichert, Howard E.: *See*—  
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- Reichert, Max R. G. Step construction. 2,915,894, 12-8-59, Cl. 72-96.
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- Reichert, William G., Jr., to Allen B. Du Mont Laboratories, Inc. Phase splitter. 2,916,663, 12-8-59, Cl. 315-19.
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- Reichhelm, Robert. Spark plugs. 2,889,440, 6-2-59, Cl. 219-19.
- Reichhelm, Robert, to The Robert Reichhelm Co. Inc. Gas-firer and starter unit. 2,915,377, 12-1-59, Cl. 48-107.
- Reichhelm, Robert Co., Inc.: *See*—  
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- Reichhold Chemicals, Inc.: *See*—  
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 Shelton, Frederic J., and Chervinka. 2,872,421.  
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- Reichl, Raymond M., to Baldwin-Lima-Hamilton Corp. Method of extruding tubes. 2,903,130, 9-8-59, Cl. 207-10.
- Reichl, Raymond M., to Baldwin-Lima-Hamilton Corp. Method and apparatus for controlling the contour of rolls in a rolling mill. 2,903,926, 9-15-59, Cl. 80-56.
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- Reichle, Richard G.: *See*—  
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- Reichstaller, Sebastian: *See*—  
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- Reichstein Tadeus: *See*—  
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- Reick, Franklin G. Electrode-wick. 2,899,532, 8-11-59, Cl. 219-40.
- Reid, Alan A., to General Mills, Inc. Heading recorder. 2,879,125, 3-24-59, Cl. 346-8.
- Reid, Allen F. Rotary power transmission. 2,916,948, 12-15-59, Cl. 74-665.
- Reid, Donald V. Radio controlled model submarine. 2,903,822, 9-15-59, Cl. 46-244.
- Reid, Edward S., to Sonoco Products Co. Multiple section paper tube and method of making same. 2,888,043, 5-26-59, Cl. 138-78.
- Reid, Eric W., to The Keelavite Co. Ltd. Tensioning mechanism for endless webs. 2,907,450, 10-6-59, Cl. 198-208.
- Reid, Eugene H., to General Electric Co. Vacuum arrangement. 2,887,618, 5-19-59, Cl. 315-108.
- Reid, Frank S. Suction-blower type illuminated insect trap. 2,893,161, 7-7-59, Cl. 43-139.
- Reid, George C. Rotating and tilting dumping vehicle. 2,887,339, 5-19-59, Cl. 298-9.
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- Reid, Harvey K., to Phillips Petroleum Co. Cathodic protection system. 2,893,939, 7-7-59, Cl. 204-196.
- Reid, Helen C. Expandable thermometer sheath. 2,910,174, 10-27-59, Cl. 208-16.5.
- Reid, Henry, to E.R.D. Laboratories Inc. Variable gear drive. 2,898,775, 8-11-59, Cl. 74-435.
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- Reid, John D.: *See*—  
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- Reid, Joseph G., Jr., and J. A. Genovese, to A C F Industries, Inc. Electronic component assembly structure. 2,877,388, 3-10-59, Cl. 317-101.
- Reid, Kenneth A.: *See*—  
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- Hulswit, William H., Jr., Berry, and Reid. 2,884,044.
- Reid, Kenneth E., to Smiths Jacking Systems Ltd. Hydraulic jack systems. 2,913,876, 11-24-59, Cl. 60-52.
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- Reid, Marguerite L.: *See*—  
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- Reid, Orland B., to The Singer Mfg. Co. Fittings for sewing machines. 2,900,936, 8-25-59, Cl. 112-147.
- Reid, Ralph T.: *See*—  
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- Reid, Robert J., and J. D. Matlack, to The Firestone Tire & Rubber Co. Vinylidene chloride polymer composition plasticized with di-n-propyl tetrachlorophthalate and process of extruding same. 2,875,169, 2-24-59, Cl. 260-31.8.
- Reid, Robert J., W. M. Smith, Jr., and B. H. Werner, to The Firestone Tire & Rubber Co. Vinylidene resin compositions plasticized with dibenzyl esters of dicarboxylic acids and process of extruding. 2,905,651, 9-22-59, Cl. 260-31.18.
- Reid, Robert J., and W. M. Gross, to General Dynamics Corp. Thermocouple element. 2,916,537, 12-8-59, Cl. 136-4.
- Reid, Thomas H.: *See*—  
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- Reid, Warren H., Jr., to Badger Mfg. Co. Expansion joint and method of making same. 2,886,885, 5-19-59, Cl. 29-421.
- Reid, William J.: *See*—  
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- Reider, George S., Jr., to AMP Inc. Magazine type hand tool for crimping electrical connectors. Re. 24,604, 2-17-59, Cl. 81-15.
- Reidl, Ronald W., and M. A. Bobal, to Union Carbide Corp. Impregnation of carbonaceous materials. 2,881,090, 4-7-59, Cl. 117-61.
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- Reidmiller, John V. Hedge comb. 2,886,937, 5-19-59, Cl. 56-400.01.
- Reier, William S. Adjustable but locked-on temporary cap for pipe. 2,899,099, 8-11-59, Cl. 220-24.5.
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- Reif, Henry E., and H. L. Johnson, to Sun Oil Co. Catalyst and hydrocarbon conversion therewith. 2,908,633, 10-13-59, Cl. 208-110.
- Reifeiss, Lester F.: *See*—  
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- Reifel, Harry. Magnetic switches. 2,878,337, 3-17-59, Cl. 200-90.
- Reifers, Richard F., to Diamond Gardner Corp. Egg carton. 2,873,059, 2-10-59, Cl. 229-28.
- Reifers, Richard F., to Diamond Gardner Corp. Molded pulp egg carton and carton hinge construction. 2,888,183, 5-26-59, Cl. 229-2.5.
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- Reiffert, Wilhelm: *See*—  
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- Reigel, George W.: *See*—  
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- Reighard, Norman: *See*—  
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- Reighart, June H., to Sticker Industrial Supply Corp. Ladle maintenance safety cage with means for suspending spare stopper rod therein. 2,908,055, 10-13-59, Cl. 22-85.
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- Reiley, George L., to The Murray Corp. of America. Laundry dryer control. 2,895,230, 7-21-59, Cl. 34-45.
- Reiling, Paul A.: *See*—  
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- Reilly, Daniel A. Vehicle conversion unit. 2,909,388, 10-20-59, Cl. 296-21.
- Reilly, Frank J.: *See*—  
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- Reilly, Ira G., to Minneapolis-Honeywell Regulator Co. Indicating recorder and casing. 2,915,356, 12-1-59, Cl. 346-17.
- Reilly, James J., to The Shelton Tack Co. Conveying equipment. 2,881,898, 4-14-59, Cl. 198-31.
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- Reilly Tar & Chemical Corp.: *See*—  
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- Rieger, William H., and Springman. 2,868,793.
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- Reimer, George M., to Union Special Machine Co. Four motion looper for sewing machines. 2,884,883, 5-5-59, Cl. 112-168.
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- Reimers, Alfred E., W. K. Tavender, and L. J. McCormack, Jr., to Reimers Electric Appliance Co., Inc. Electrically-heated steam generators. 2,880,300, 3-31-59, Cl. 219-38.
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- Reimers, Ernst, to Junkers & Co. G.m.b.H. Apparatus for starting a pulsatory combustion device. 2,900,790, 8-25-59, Cl. 60-39.77.
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- Reinartz, Robert, to Maschinenfabrik Augsburg-Nurnberg A. G. Journal for printing cylinder. 2,874,635, 2-24-59, Cl. 101-216.
- Reindl, Harold J., to General Motors Corp. Electrostatic painting apparatus. 2,899,136, 8-11-59, Cl. 239-15.
- Reindl, Joseph. Spark arresters. 2,884,092, 4-28-59, Cl. 183-91.
- Reinebach, Robert J.: *See*—  
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- Reinecke, Charles W., to Febo, Inc. Hydraulically actuated valve. 2,882,006, 4-14-59, Cl. 251-26.
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- Reinecke, Marvin E.: *See*—  
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- Reiner, Hans: *See*—  
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- Reiner, Stewart, to United States of America, Navy. Code wheel shaft position encoder, recorder and decoder. 2,899,673, 8-11-59, Cl. 340-173.
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- Reinhard, Raymond H.: *See*—  
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- Reinhardt, Raymond H., to Monsanto Chemical Co. Copolymers of allyl alcohol. 2,891,037, 6-16-59, Cl. 260-67.
- Reinhardt, Albert W., to Detroit Gasket and Mfg. Co. Combination paper board and slip-on plastic tip spring liner construction. 2,891,787, 6-23-59, Cl. 267-49.
- Reinhardt, Charles M., to Olin Mathieson Chemical Corp. Process for the manufacture of globular nitrocellulose. 2,919,181, 12-29-59, Cl. 52-22.
- Reinhardt, Doyes H.: *See*—  
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- Reinhardt, Gustav, to Union Carbide Corp. Inert gas shielded metal arc cladding process. 2,876,330, 3-3-59, Cl. 219-76.
- Reinhardt, Henry B., and T. A. Ratkowski, to American Brake Shoe Co. Power shovel dippers. 2,911,120, 11-3-59, Cl. 214-145.
- Reinhardt, John P. Scaffold bridge construction. 2,916,102, 12-8-59, Cl. 182-152.
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- Reinhorn, Edwin M. Baby bottle holder. 2,912,200, 11-10-59, Cl. 248-103.
- Reiniger, Waldemar. Swivel jaw pliers. 2,889,730, 6-9-59, Cl. 81-356.
- Reininger, Walter G.: *See*—  
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- Reininger, Walter G., to Picker X-Ray Corp., Waite Mfg. Division, Inc. X-ray focusing apparatus. 2,887,586, 5-19-59, Cl. 250-59.
- Reinisch, Joseph: *See*—  
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- Reinke, Alfred G., and C. A. Johnson, to J and R Specialties, Inc. Pump shaft housing repair kit. 2,884,269, 4-28-59, Cl. 286-37.
- Reinke, Elmer F.: *See*—  
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- Reinke, Herbert J., and H. A. Gallatin, to Allis-Chalmers Mfg. Co. Motor generator set with frequency control by voltage to induction motor. 2,870,395, 1-20-59, Cl. 322-39.
- Reinking, Norman H.: *See*—  
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- Reinold, Eugene J., to Standard Oil Co. Sealing joint for architectural porcelain enameled panels. 2,914,936, 12-1-59, Cl. 72-18.
- Reintjes, George P. Adjustable lining support. 2,879,660, 3-31-59, Cl. 72-19.
- Reintjes, Harold, to Godfrey L. Cabot, Inc. Process for heat treating particulate solid materials. 2,914,448, 11-24-59, Cl. 202-12.
- Reip, Raymond G.: *See*—  
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- Reis, Antonio da Cunha. New ampoule-syringe. 2,888,923, 6-2-59, Cl. 128-218.
- Reis, Charles S. Apparatus for frequency compression and expansion. 2,879,337, 3-24-59, Cl. 179-15.55.
- Reis, Charles S., to Hewlett-Packard Co. Solid state network. 2,900,522, 8-18-59, Cl. 250-208.
- Reis, Eugen. Coin wrapping machines. 2,882,664, 4-21-59, Cl. 53-212.
- Reis, Herbert J., and D. R. Barthel, to The Martin Co. Constant impedance coaxial phase shifter. 2,919,418, 12-29-59, Cl. 333-31.
- Reis, Smil. Automatic speed changing transmission for rotary motion. 2,884,812, 5-5-59, Cl. 74-751.
- Reis, Smil. Fluid pressure motor, particularly for vehicular power steering. 2,909,157, 10-20-59, Cl. 121-41.
- Reisberg, Joseph: *See*—  
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- Reisch, George J., to General Electric Co. Electric heater control assembly. 2,891,133, 6-16-59, Cl. 200-168.
- Reisch, Norman D. Self-adjusting wheel brake. 2,904,137, 9-15-59, Cl. 188-196.
- Reisch, Norman D. Self-adjusting hand brake. 2,918,991, 12-29-59, Cl. 188-196.
- Reisch, Siegfried, to Ing. C. Olivetti & C., S. p. A. Electric pulse counting and calculating apparatus. 2,887,269, 5-19-59, Cl. 235-160.
- Reisch, Siegfried, to Ing. C. Olivetti & C., S. p. A. Cyclically operable digital accumulating apparatus. 2,917,236, 12-15-59, Cl. 235-176.
- Reischer, Walter: *See*—  
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- Reischl & Co., K. G., Metallwarenfabrik: *See*—  
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- Reischl, Gustave: *See*—  
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- Reischl, Helmut: *See*—  
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- Reiser, George C., and C. H. Shuptrine, to Toledo Scale Corp. Weighbridge. 2,917,301, 12-15-59, Cl. 265-071.
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- Reisig, Leopold F.: *See*—  
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- Reising, Francis M. Excavating machine. 2,896,342, 7-28-59, Cl. 37-97.
- Reisinger, Kurt H., to Richard Nilsson Aktiebolag. Production of drying oils. 2,885,297, 5-5-59, Cl. 106-123.
- Reisinger, Norman M. Outlet box and terminal block. 2,882,332, 4-14-59, Cl. 174-59.
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- Reisner, W. H., Mfg. Co., Inc.: *See*—  
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- Reiss, Heinrich. Dry powder fire extinguishing medium. 2,881,138, 4-7-59, Cl. 252-7.
- Reissinger, Gottfried. Drag-plough for use on roads and highways. 2,902,909, 9-8-59, Cl. 94-44.
- Reissmüller, Ernst, to Hermann Ebenauer & Co. Device for constricting the thread balloon in ring spinning and ring doubling frames. 2,867,075, 1-6-59, Cl. 57-106.
- Reissmüller, Ernst, and H. Gassner. Spinning or twisting spindle. 2,883,825, 4-28-59, Cl. 57-132.
- Reit, Walter, to Daverio & Cie. A.-G. Apparatus for the conveying of flat paper goods. 2,885,064, 5-5-59, Cl. 198-180.
- Reiten, Lyndon H.: *See*—  
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- Reiter, Adolph. Abrasive wet mop. 2,891,270, 6-23-59, Cl. 15-119.
- Reiter, Daniel I. Fastener. 2,905,991, 9-29-59, Cl. 24-77.
- Reiter, Daniel I. Bag handle fastener. 2,912,029, 11-10-59, Cl. 150-12.
- Reiter, Friedrich. Process for making spark plugs. 2,902,747, 9-8-59, Cl. 29-25.12.
- Reiter, Lambert. Foot massage device. 2,895,470, 7-21-59, Cl. 128-57.
- Reiter, Reuben. Apparatus for electric shock therapy. 2,909,178, 10-20-59, Cl. 128-419.
- Reiter, Sydney H., to The Wilcolater Co. Temperature control device for stove burners. 2,880,614, 4-7-59, Cl. 73-368.4.
- Reiter, Thomas A.: *See*—  
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- Reiter, William L.: *See*—  
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- Reiter, William L., S. J. Gartner, and H. W. Roeder, to Sylvania Electric Products Inc. Tension spring machine. 2,872,949, 2-10-59, Cl. 140-71.
- Reith, John E., to E. I. du Pont de Nemours and Co. Polyamide containing interlinear piperazine units. 2,904,536, 9-15-59, Cl. 260-78.
- Reitknecht, Jack. Fountain toothbrush. 2,908,925, 10-20-59, Cl. 15-137.
- Reitman, Lester J., to Bendix Aviation Corp. Emergency aircraft altitude control system. 2,894,193, 7-7-59, Cl. 318-450.
- Reitmeier, Ronald E.: *See*—  
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- Reitmeler, Ronald E., to Chemetron Corp. Catalyst manufacture. 2,913,422, 11-17-59, Cl. 252-465.
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- Reitzel, Georg, to Randolph-Rand Corp. Combined cigarette case and closure means. 2,873,876, 2-17-59, Cl. 220-35.
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- Reketyte, Paul, to The Sun Rubber Co. Apparatus for rotational casting of vinyl resins and similar plastisols. 2,893,057, 7-7-59, Cl. 18-26.
- Reketyte, Paul, to The Sun Rubber Co. Weeping, crying and wetting doll. 2,907,139, 10-6-59, Cl. 46-135.
- Rektorsky, Zdenek J. Liquid filling device. 2,871,895, 2-3-59, Cl. 141-290.
- Rekuperator K.-G. Dr.-Ing. Schack & Co.: *See*—  
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- Relf, Victor K. Water heating and boiling water control apparatus. 2,877,335, 3-10-59, Cl. 219-38.
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- Reliance Electric & Engineering Co., The: *See*—  
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- Rentschler, Delmar F.: *See*—  
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- Rentz, Anna: *See*—  
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Meunier, Frederick A. 2,871,940.  
Reed, William A., and Swanson. 2,903,354.  
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Shepard, George A. 2,886,498.
- Requa, Roy. Headrest accessory. 2,874,757, 2-24-59, Cl. 155-173.
- Requenes, Ignacio L. Hydraulic brake system. 2,867,296, 1-6-59, Cl. 188-76.
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Cassidy, Harold G., and Ezrin. 2,900,353.  
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Doumas, Arthur C., and Murphy. 2,902,416.  
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Everhart, Edgar, and Lorrain. 2,888,629.  
Giser, Samuel. 2,900,187.  
Hall, Howard T. 2,918,699.  
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Kallmann, Hartmut P., and Rosenberg. 2,892,968.  
Lee, Shih-Ying. 2,875,782.  
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Matteson, Benjamin H., Hughes, and Ayer. 2,910,627.  
McBee, Earl T., and Pierce. 2,892,859.  
McBee, Earl T., Pierce, and Metz. 2,899,454.  
Seamans, Robert C., Jr., Whitaker, Wilkins, and Wingate. 2,868,481.  
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Wintermute, Harry A. 2,895,563.  
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- Research Interests Ltd.: *See*—  
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- Research Laboratories, Inc.: *See*—  
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- Reser, George G., C. J. Pickens, Sr., and C. O. Schmidt, Jr., to The Cincinnati Butchers' Supply Co. Excoriator. 2,885,726, 5-12-59, Cl. 17-21.
- Reserve Mining Co.: *See*—  
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Henderson, Ashland S., Cross, and Riede. 2,909,303.  
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- Resk, Richard E. Vaporizers. 2,881,303, 4-7-59, Cl. 219-44.
- Reslock, Alfred M.: *See*—  
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- Resnick, Charles. Gun hoister. 2,917,214, 12-15-59, Cl. 224-2.
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- Resources Research, Inc.: *See*—  
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- Ress, Thomas I., and E. C. Greanias, to International Business Machines Corp. Reading apparatus. 2,919,425, 12-29-59, Cl. 340-149.
- Resseguie, Robert E.: *See*—  
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- Ressler, Hugh C., to Hogan Laboratories, Inc. Synchronous detector circuit. 2,881,312, 4-7-59, Cl. 250-27.
- Ressler, Newton. Method of electrophoresis of serum proteins. Re. 24,752, 12-15-59, Cl. 204-180.
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Babcock, Gordon M., Rethwisch, and Woosley. 2,904,525.
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- Retornaz, Francois. Device for automatic lubrication of cylinders. 2,918,142, 12-22-59, Cl. 184-6.
- Rettie, George W., and R. D. Hotchkiss. Fire and burglar alarm system. 2,905,762, 9-22-59, Cl. 179-5.
- Rettig, Vernon E., to Deere & Co. Gathering and snapping structure for a corn harvester. 2,906,033, 9-29-59, Cl. 56-111.
- Rettinger, Michael, to Radio Corp. of America. Method of constructing magnetic heads. 2,915,812, 12-8-59, Cl. 29-155.59.
- Retzer, Theodore C., to Westinghouse Electric Corp. Starting and operating circuit for gaseous discharge lamps. 2,916,671, 12-8-59, Cl. 315-239.
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- Retzinger, Leo P., Jr., to Librascope, Inc. Digital-to-analog converter. 2,914,758, 11-24-59, Cl. 340-347.
- Retzlaff, Allen H.: *See*—  
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- Reuber, Rudolf: *See*—  
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- Reuhl Products, Inc.: *See*—  
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- Reuter, Erich R.: *See*—  
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- Reuter, Franz G., to Mobay Chemical Co. Polishing instrument. 2,881,065, 4-7-59, Cl. 51-298.
- Reuter, Franz G., to Mobay Chemical Co. Vehicle tire. 2,902,072, 9-1-59, Cl. 152-330.
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- Reuter, Henry G., Jr.: *See*—  
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- Reuter, Martin, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing quaternary phosphonium compounds. 2,912,466, 11-10-59, Cl. 260-606.5.
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- Reuter, Paul L., and E. Weiss, to Bendix Aviation Corp. Variable computing method and apparatus. 2,896,464, 7-28-59, Cl. 74-394.
- Reuther, John F., and S. D. Silliman, to Westinghouse Electric Corp. Frequency halver. 2,892,102, 6-23-59, Cl. 307-88.5.
- Reutt, Zigmund, to Armstrong Siddeley Motors Ltd. Plastic blades, particularly for a compressor rotor of a gas turbine engine. 2,868,441, 1-13-59, Cl. 230-134.
- Revco, Inc.: *See*—  
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- Reveka, Stanley, to The Lionel Corp. Toy locomotive headlights. 2,883,796, 4-28-59, Cl. 46-226.
- Reverdin, Daniel, to Compagnie Generale de Telegraphie Sans Fil. Delay lines for crossed field tubes. 2,889,488, 6-2-59, Cl. 315-39.3.
- Revere Camera Co.: *See*—  
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- Revere Electric Mfg. Co.: *See*—  
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- Revere, Paul E., and G. H. Keith, to Westinghouse Electric Corp. Manufacture of molybdenum and alloys thereof. 2,903,385, 9-8-59, Cl. 148-11.5.
- Reves, Wilson A., G. L. Drake, Jr., and J. D. Guthrie, to United States of America, Agriculture. Aziridine-carboxylic acid polymers. 2,915,480, 12-1-59, Cl. 260-2.
- Revis Co.: *See*—  
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- Revoir, Harold J., to Minnesota Mining and Mfg. Co. Pressure-sensitive adhesive tape. 2,897,960, 8-4-59, Cl. 206-59.
- Revolver Corp.: *See*—  
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- Revzin, Milton R. Accessory clamp. 2,896,896, 7-28-59, Cl. 248-229.
- Rex, Frederick T., and H. M. Weiss, to Pulmasan Safety Equipment Corp. Face shield. 2,915,756, 12-8-59, Cl. 2-8.
- Rex, Harold B. Printed transformer. 2,910,662, 10-27-59, Cl. 336-200.
- Rex, Virginia C.: *See*—  
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Tate, Roger W., Rex, and Hemminger. 2,873,248.
- Rex, Walter A., deceased, by V. C. Rex, administratrix, to Esso Research and Engineering Co. Hydroforming with special heat interchange. 2,902,437, 9-1-59, Cl. 208-159.
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- Rexair, Inc.: *See*—  
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- Rexall Drug Co.: *See*—  
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- Rexford, Donald L., to General Electric Co. Hydraulic speed governing system with reset relay. 2,878,785, 3-24-59, Cl. 121-42.
- Rexon, Lester, to Victor Development Co. Light pulse responsive registration devices. 2,907,890, 10-6-59, Cl. 250-222.
- Rexroad, James O., and W. F. Born, to Westinghouse Electric Corp. Operating mechanism for enclosed circuit interrupters. 2,894,084, 7-7-59, Cl. 200-50.
- Rey, Jean F. Boring, drilling and tapping machine. 2,889,724, 6-9-59, Cl. 77-28.
- Rey, Marcel, to Etablissements Rey Freres & Cie. Detonating fuse. 2,877,708, 3-17-59, Cl. 102-27.
- Reyerson, Lloyd H., and L. E. Peterson, to Regents of the University of Minnesota. Method of altering the physical characteristics of linear condensation polymers with anhydrous hydrogen halide gas. 2,876,524, 3-10-59, Cl. 28-72.
- Reymann, George L.: *See*—  
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- Reymann, Maria A., Jr.: *See*—  
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- Reymond, Paul E. Winding up mechanism for time-pieces. 2,903,844, 9-15-59, Cl. 58-46.
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- Reynard, Chauncy G., to Radio Corp. of America. Gun assembly aligning device. 2,876,554, 3-10-59, Cl. 33-181.
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- Reynolds, Clarence R., S. C. Asad, and W. R. Boodey, to The Cleveland Skate Co., Inc. Combined truck and toe stop for roller skates. 2,899,209, 8-11-59, Cl. 280-11.2.
- Reynolds Co., The: *See*—  
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- Reynolds, Coy. Method and apparatus for buffing shoe soles. 2,895,263, 7-21-59, Cl. 51-139.
- Reynolds, Donald C., and S. J. Czyzak, to United States of America, Air Force. Apparatus for growing crystals. 2,907,643, 10-6-59, Cl. 23-273.
- Reynolds, Donald K., to General Electric Co. Magnetic record testing means. Re. 24,641, 4-28-59, Cl. 324-34.
- Reynolds, Donald K., to General Electric Co. Magnetic recording system. 2,894,796, 7-14-59, Cl. 346-74.



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- Reynolds, Edward E.: *See*—  
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- Reynolds, Eugene E., to Smith-Corona Marchant Inc. Overthrow preventing lock mechanism for numeral wheels. 2,896,847, 7-28-59, Cl. 235-131.
- Reynolds, Eugene S.: *See*—  
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- Reynolds, Frederick L.: *See*—  
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- Reynolds, Harold C.: *See*—  
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- Reynolds, Harold C., to Ingersoll-Rand Co. Control for hoists. 2,874,989, 2-24-59, Cl. 294-64.
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- Reynolds, Harold C., to Ingersoll-Rand Co. Gas pressure operated trip valve. 2,889,132, 6-2-59, Cl. 251-33.
- Reynolds, John A., and E. Slagle, to Picker X-Ray Corp. Waite Mfg. Division, Inc. Wall exposure safety circuit for radiation protection. 2,880,327, 3-31-59, Cl. 250-95.
- Reynolds, John H. Low beam adjustable cultivator. 2,889,889, 6-9-59, Cl. 172-354.
- Reynolds, John M. Bottle dispensing mechanism. 2,889,074, 6-2-59, Cl. 221-108.
- Reynolds, Joseph F.: *See*—  
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- Reynolds, Julian L. Laminare for wrapping precooked frozen food. 2,902,396, 9-1-59, Cl. 154-50.
- Reynolds, Kenneth L. Vegetable shovel and conveyor construction. 2,876,886, 3-10-59, Cl. 198-7.
- Reynolds, Kenneth W., to General Electric Co. Rotary indexing machine. 2,887,905, 5-26-59, Cl. 74-821.
- Reynolds, Kenneth W., and C. S. Terez, to General Electric Co. Lamp transfer apparatus. 2,904,192, 9-15-59, Cl. 214-1.
- Reynolds, Linton C., and J. W. Shirley, to Riegel Textile Corp. Means for producing a textile fabric having exceptional wear resistance. 2,893,315, 7-7-59, Cl. 101-119.
- Reynolds Metals Co.: *See*—  
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- Reynolds, Ralph W., to Holcomb & Hoke Mfg., Inc. Folding door structure. 2,915,114, 12-1-59, Cl. 160-84.
- Reynolds, Ralph W., to Holcomb & Hoke Mfg. Co., Inc. Sound retardant flexible room divider. 2,915,115, 12-1-59, Cl. 160-84.
- Reynolds, Richard J., to Shell Development Co. Process for stabilizing oil-extended rubber. 2,912,407, 11-10-59, Cl. 260-33.6.
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- Reynolds, Vining T., to Southwestern Industrial Electronics Co. Vibration recording device. 2,875,017, 2-24-59, Cl. 346-109.
- Reynolds, Walter J., to Lynch Corp. Weighing scale with sensitivity adjustment means. 2,891,780, 6-23-59, Cl. 265-49.
- Reynolds, Walter J., to Lynch Corp. Gross weighing head for produce bagging machine. 2,903,216, 9-8-59, Cl. 248-101.
- Reynolds, William B., to Phillips Petroleum Co. Polymerization of olefins by mechanical activation process. 2,899,418, 8-11-59, Cl. 260-94.9.
- Reynolds, William B., and P. G. Carpenter, to Phillips Petroleum Co. Synthetic rubber composition containing rosin acid and dithiocarbamate accelerating agent and method of producing same. 2,870,107, 1-20-59, Cl. 260-27.
- Reynolds, William B., and B. H. Ashe, Jr., to Phillips Petroleum Co. Polymers and method of making the same. 2,886,561, 5-12-59, Cl. 260-94.9.
- Reynolds, William B., J. E. Wicklatz, and T. J. Kennedy, to Phillips Petroleum Co. Emulsion polymerization with tri-substituted hydroperoxy methanes. 2,908,665, 10-13-59, Cl. 260-63.
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- Reynolds, William E.: *See*—  
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- Reynolds, Zack D.: *See*—  
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- Reynolds, Alvin G. Method of increasing the moisture content of soils and preventing wind erosion. 2,907,140, 10-6-59, Cl. 47-58.
- Reynst, Maximilien F., to North American Philips Co., Inc. Magnetic field-producing device. 2,873,413, 2-10-59, Cl. 317-200.
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- Reys, John, to Falls Industries, Inc. Heat exchanger. 2,887,303, 5-19-59, Cl. 257-241.
- Reznek, Solomon, to Cook-Waite Laboratories, Inc. Aspirating cartridge syringe. 2,895,473, 7-21-59, Cl. 128-218.
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- Rheem Mfg. Co.: *See*—  
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- Racheter, George R., and Alberts. 2,876,695.
- Rhees, Mark C. Method of blood plasma prothrombin time determinations. 2,878,715, 3-24-59, Cl. 88-14.
- Rhein-Chemie G.m.b.H.: *See*—  
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- Rheineck, Alfred E., and L. A. Oberg, to Archer-Daniels-Midland Co. Synthetic mixed dibasic acid ester wax material. 2,877,123, 3-10-59, Cl. 106-10.
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- Trumper, Konrad. 2,904,077.
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- Wilkenloh, Wilhelm, Jäger, and Kuenapfel. 2,910,281.
- Rheinstrom, James A., to The Karl Kiefer Machine Co. Valve means for pressurized container. 2,890,817, 6-16-59, Cl. 222-394.
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- Rhett, Haskell S. Finger guard mechanism for jointers. 2,895,517, 7-21-59, Cl. 144-251.
- Rhett, Haskell S. Shaper guard with auxiliary finger protectors. 2,895,518, 7-21-59, Cl. 144-251.
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- Rhindress, Walter H. Device for cutting and cleaning commutator grooves. 2,918,851, 12-29-59, Cl. 90-15.
- Rhoades, Harry L., Jr.: *See*—  
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- Baker, Albert A., and Rhoades. 2,888,138.
- Baker, Albert A., and Rhoades. 2,901,270.
- Rhoades, John S.: *See*—  
Gardiner, Donald A., Jr., and Rhoades. 2,880,860.
- Rhoades, Nolan K., and M. S. Baker, deceased (by Merchants & Savings Bank, administrator), to The Parker Pen Co. Receptacle for receiving and enclosing the writing end of a fountain pen. 2,916,013, 12-8-59, Cl. 120-42.01.
- Rhoads, Stanley. Plastic open end wrench. 2,909,954, 10-27-59, Cl. 81-186.
- Rhoda, Richard N., and A.-M. Madison, to The International Nickel Co., Inc. Palladium plating by chemical reduction. 2,915,406, 12-1-59, Cl. 106-1.
- Rhode, Edward C. Speed control device. 2,903,905, 9-15-59, Cl. 74-513.
- Rhodes, Albert J.: *See*—  
McCarthy, Charles S., Koskela, and Rhodes. 2,905,024.



- Rhodes, Albert J., to American Forging & Socket Co. Hood hinge assembly. 2,904,822. 9-22-59, Cl. 16—128.1.
- Rhodes, Allen F., to McEvoy Co. Tubing pack off for tandem dual bore integral manifold valve. 2,885,005, 5-5-59, Cl. 166—75.
- Rhodes, Charles J. Pressure-responsive overload release devices. 2,912,037, 11-10-59, Cl. 153—21.
- Rhodes, Chester E. Elevator hand truck. 2,904,201, 9-15-59, Cl. 214—515.
- Rhodes, Chester R.: *See—*  
Eisenberg, Irwin W., Dibble, Armstrong, Love and Rhodes. 2,905,776.
- Rhodes, Gilbert L. Safety bottle closure. 2,881,934, 4-14-59, Cl. 215—9.
- Rhodes, Harrison B., W. F. Pesold, and J. M. Hirshon, to United States of America, Atomic Energy Commission. Recovery of uranium from low grade uranium bearing ores. 2,890,099, 6-9-59, Cl. 23—14.5.
- Rhodes, Hubert F., to Phillips Petroleum Co. Heat exchanger. 2,916,264, 12-8-59, Cl. 257—239.
- Rhodes, John W., to General Motors Corp. Motion transmitting connection. 2,896,474, 7-28-59, Cl. 74—522.
- Rhodes, M. H., Inc.: *See—*  
Laviana, Lawrence J. 2,913,048.
- Rhodes, Philip H.: *See—*  
Szukiewicz, Wacław, Steimle, and Rhodes. 2,898,312.
- Rhodes, Philip H., and P. L. Imes; said Imes assor. to said Rhodes. Thermoplastic composition plasticized with a mixed diester plasticizer of an aliphatic diol having two primary alcohol groups. 2,886,545, 5-12-59, Cl. 260—27.
- Rhodes, Roland N.: *See—*  
Oakley, Charles B., and Rhodes. 2,894,061.  
Preisig, Joseph O., and Rhodes. 2,905,853.
- Rhodes, Roland N., to Radio Corp. of America. Color television receiving system. 2,887,528, 5-19-59, Cl. 178—5.4.
- Rhodes, Roland N., to Radio Corp. of America. Color television, burst separation system. 2,912,489, 11-10-59, Cl. 178—5.4.
- Rhodes, Roland N., and C. B. Oakley, to Radio Corp. of America. Automatic frequency control apparatus. 2,896,018, 7-21-59, Cl. 178—5.8.
- Rhodes, Russell D. Containers and closure members therefor. 2,902,191, 9-1-59, Cl. 222—425.
- Rhodes, Thomas J., to United States Rubber Co. Extrusion apparatus. 2,892,212, 6-30-59, Cl. 18—12.
- Rhodes, Thomas J., to United States Rubber Co. Apparatus for making pneumatic tires. 2,897,540, 8-4-59, Cl. 18—5.
- Rhodes, Thomas J., to United States Rubber Co. Method of manufacturing a cellular lined plastic article. 2,907,074, 10-6-59, Cl. 18—59.
- Rhodes, William E., and C. D. Roe, to Robertshaw-Fulton Controls Co. Centrifugal governor switch. 2,884,496, 4-28-59, Cl. 200—80.
- Rhodin, Thor N., Jr., to E. I. du Pont de Nemours and Co. Niobium base high temperature alloys. 2,881,069, 4-7-59, Cl. 75—174.
- Rhodin, Thor N., Jr., to E. I. du Pont de Nemours and Co. High temperature niobium base alloy. 2,882,146, 4-14-59, Cl. 75—174.
- Rhyns, Richard W., to General Precision Laboratory Inc. Radar anti-jamming device. 2,910,691, 10-27-59, Cl. 343—7.
- Rhymney Engineering Co. Ltd.: *See—*  
Martins, Thomas. 2,901,281.
- Rial, Eugene L. and L. C. Apparatus for storing and dispensing sheet material in roll form. 2,872,125, 2-3-59, Cl. 242—55.42.
- Rial, Lawrence C.: *See—*  
Rial, Eugene L. and L. C. 2,872,125.
- Riat, Henri: *See—*  
Fasciati, Alfred, Gunst, Riat, and Seitz. 2,873,269.  
Fasciati, Alfred, and Riat. 2,891,941.
- Riat, Henri, to Ciba Ltd. New direct-dyeing azo-dyestuffs and process for their manufacture. 2,875,193, 2-24-59, Cl. 260—158.
- Riat, Henri, to Ciba Ltd. Triazine monoazo-dyestuffs. 2,903,442, 9-8-59, Cl. 260—153.
- Riat, Henri, and F. Oesterlein, to Ciba Ltd. New monoazo-dyestuffs. 2,906,748, 9-29-59, Cl. 260—199.
- Ribaux, Paul A., to Ford Motor Co. Injection system. 2,898,900, 8-11-59, Cl. 123—139.
- Ribesell, Robert E., and L. Halladay, to Bellingham Chain & Forge Co. Vacuum holder. 2,905,428, 9-22-59, Cl. 248—363.
- Riblett, Henry J. Ultra-high frequency directional coupling apparatus. 2,870,419, 1-20-59, Cl. 333—10.
- Riblett, Henry J. Microwave hybrid junctions. 2,876,421, 3-3-59, Cl. 333—11.
- Riblett, Earl W.: *See—*  
Burton, William P., Lefrancois, and Riblett. 2,888,397.  
Burton, William P., Lefrancois, and Riblett. 2,913,400.  
Burton, William P., Lefrancois, and Riblett. 2,914,464.
- Riblett, Earl W., W. P. Burton, H. S. Kaufman, and P. A. Lefrancois, to The M. W. Kellogg Co. Reforming of a naphtha with a catalyst composite consisting of a group VI metal compound supported on eta-alumina. 2,913,398, 11-17-59, Cl. 208—136.
- Ribovich, John: *See—*  
Damon, Glenn H., and Ribovich. 2,906,094.
- Ricardo & Co., Engineers (1927) Ltd.: *See—*  
Goldsmith, Walter I. 2,911,963.  
Holt, George A. 2,881,743.  
Holt, George A. 2,898,894.  
Millington, Brian W. 2,911,959.  
Powell, Gerald E. 2,882,843.  
Ricardo, Harry R. 2,881,973.
- Ricardo, Harry R., to Ricardo & Co. Engineers (1927) Ltd. Compressors for air or other gas. 2,881,973, 4-14-59, Cl. 230—186.
- Ricards, Harold A., to Esso Research and Engineering Co. Feed pretreat in hydrocarbon adsorption process. 2,899,474, 8-11-59, Cl. 260—676.
- Ricards, Harold A., to Esso Research and Engineering Co. Conversion of hydrocarbons. 2,913,392, 11-17-59, Cl. 208—73.
- Ricci, Anthony J., to Quaker City Metal Weatherstrip Co. Combined weatherstrip and sash balance. 2,885,744, 5-12-59, Cl. 20—12.
- Riccus, Merrill V., to Chance Vought Aircraft, Inc. Artificial feel mechanism. 2,881,631, 4-14-59, Cl. 74—470.
- Rice, Alfred R.: *See—*  
Floam, Leonard, and Rice. 2,916,567.
- Rice Barton Corp.: *See—*  
Clem, Everett W. 2,872,767.  
Clem, Everett W. 2,914,864.  
Goumeniouk, Gleb I. 2,894,581.  
Munton, John P., and Peterson. 2,918,899.
- Rice, Everett L.: *See—*  
Jarrett, John W., and Rice. 2,917,942.
- Rice, Francis O. Apparatus for determining the volume of a gas in a liquid or gaseous mixture. 2,913,316, 11-17-59, Cl. 23—256.
- Rice, Henry T. M., to A. M. Stevens, by decree of distribution executrix of the estate of D. Stevens, deceased. Multiple stage, predetermined torque release apparatus for tightening threaded fastening elements. 2,893,278, 7-7-59, Cl. 81—52.4.
- Rice, James M., to Union Asbestos & Rubber Co. Device and method for exfoliating and blending asbestos fiber. 2,915,790, 12-8-59, Cl. 19—72.
- Rice, John H. Device for cleaning teeth. 2,872,929, 2-10-59, Cl. 132—91.
- Rice, Joseph: *See—*  
Bray, Frederick H., King, and Rice. 2,899,500.  
Wright, Esmond P. G., and Rice. 2,868,447.  
Wright, Esmond P. G., and Rice. 2,913,527.  
Wright, Esmond P. G., Rice, and Hunter. 2,871,464.  
Wright, Esmond P. G., Weir, and Rice. 2,896,019.
- Rice, Leonard M., and C. H. Grogan, to The Geschickter Fund for Medical Research, Inc. N-substituted-3-azabicyclo [3:3:0] octane-2,4-diones and salts thereof. 2,904,548, 9-15-59, Cl. 260—247.1.
- Rice, Leslie B.: *See—*  
Quick, Carl F., and Rice. 2,898,785.
- Rice, Livingston L., W. C. Lamphier, and P. H. Netherwood, to Sprague Electric Co. Impregnated electrical capacitors. 2,870,385, 1-20-59, Cl. 317—258.
- Rice, Lon C., B. O. Satre, and H. E. Snyder, to Boeing Airplane Co. Welding apparatus and method for welding tubular skin structures. 2,883,517, 4-21-59, Cl. 219—117.
- Rice, Louis F., to The M. W. Kellogg Co. Fluidized catalyst vessels using sloping standpipes. 2,879,145, 3-24-59, Cl. 23—288.
- Rice, Louis F., J. L. Patton, G. F. Timson, and W. R. Partridge, to The M. W. Kellogg Co. Conversion process and apparatus for use therein. 2,900,325, 8-18-59, Cl. 208—78.
- Rice, Lyman A., to General Motors Corp. Switch. 2,867,702, 1-6-59, Cl. 200—87.
- Rice, Lyman A., to General Motors Corp. Regulating circuit for generators. 2,906,939, 9-29-59, Cl. 322—27.
- Rice, Lyman A., to General Motors Corp. Battery charging circuit. 2,908,854, 10-13-59, Cl. 320—40.
- Rice, Lyman A., to General Motors Corp. Regulator relay. 2,913,641, 11-17-59, Cl. 317—176.
- Rice, Lyman A., to General Motors Corp. Tensioning device. 2,914,713, 11-24-59, Cl. 317—176.
- Rice, Norman D., to Inland Steel Products Co. Metaldecking. 2,901,062, 8-25-59, Cl. 189—34.
- Rice, Owen, to Hagan Chemicals & Controls Inc. Ham pumping apparatus. 2,915,958, 12-8-59, Cl. 99—257.
- Rice, Philip K.: *See—*  
First, Vincent E., Potts, Rice, and Yendall. 2,908,144.
- Rice, Rex, to International Business Machines Corp. Self-reproducing tape control system. 2,911,147, 11-3-59, Cl. 235—61.6.
- Rice, Rex, Jr., M. R. Dilling, and G. Tyson, to Northrop Corp. Digital plotter. 2,898,175, 8-4-59, Cl. 346—23.
- Rice, Ruskin, to The Springfield Tent & Awning Co. Awning and frame for single piece canvas awning construction. 2,875,824, 3-3-59, Cl. 160—58.
- Rice, Theodore, to Gulf Research & Development Co. Method for charging high-boiling hydrocarbons to fluid catalytic conversion processes. 2,904,504, 9-15-59, Cl. 208—157.
- Rice, Walter A., to Mohasco Industries, Inc. Apparatus for making pile fabric. 2,896,670, 7-28-59, Cl. 139—38.
- Rice, William A. Two-way plumb and level. 2,906,031, 9-29-59, Cl. 33—207.
- Rice, William J.: *See—*  
Klasing, Arthur P., and Rice. 2,880,925.  
Klasing, Arthur P., and Rice. 2,916,053.



- Rice, Willis D.: *See*—  
Lewis, Edward H., Rice, and Estrin. 2,867,001.
- Riceman, Sumner, to Raytheon Co. Directional antenna. 2,915,752, 12-1-59, Cl. 343-842.
- Rich, Barrett G., to Deere & Co. Crankcase ventilating system and duplex air cleaner especially therefor. 2,871,663, 2-3-59, Cl. 60-97.
- Rich, Charles A., Jr., to Morgan Construction Co. Seal. 2,868,574, 1-13-59, Cl. 288-2.
- Rich, Donald G., to Carrier Corp. Rotary regenerator seals. 2,902,267, 9-1-59, Cl. 257-269.
- Rich, Edward L., and R. H. Turner; said Rich assor. to said Turner. Adaptor plugs for cameras. 2,872,857, 2-10-59, Cl. 95-11.5.
- Rich, Harold, to General Electric Co. A-C wattmeter. 2,897,446, 7-28-49, Cl. 324-142.
- Rich, Harry L., and E. T. Habib, to United States of America, Navy. Shock-spectrum instrument. 2,881,043, 4-7-59, Cl. 346-7.
- Rich, Herbert G., to Fisher Governor Co. Flexible diaphragm flow control valve. 2,877,791, 3-17-59, Cl. 137-487.
- Rich, Jack V., to Bendix Aviation Corp. Forced draft instrument shelter. 2,900,321, 8-25-59, Cl. 73-349.
- Rich, John P.: *See*—  
Carlsmith, Lawrence A., and Rich. 2,878,116.  
Carlsmith, Lawrence A., and Rich. 2,878,117.
- Rich, John P., O. Luthi, and W. N. Thompson, to Improved Machinery Inc. Intermeshing screw pumps and the like. 2,908,226, 10-13-59, Cl. 103-128.
- Rich, John P., and O. Luthi. Apparatus for screening pulp. 2,908,390, 10-13-59, Cl. 209-273.
- Rich, John W.: *See*—  
Peterson, William F., Jubel, and Rich. 2,886,867.
- Rich, Joseph A.: *See*—  
Webber, Stanley E., and Rich. 2,900,557.
- Rich, Joseph A., to General Electric Co. Tunable microwave resonant system and electric discharge device. 2,888,600, 5-26-59, Cl. 315-5.53.
- Rich, Joseph A., to General Electric Co. Electron beam amplification apparatus. 2,894,170, 7-7-59, Cl. 315-5.41.
- Rich, Klinger Aktiengesellschaft: *See*—  
Kruschik, Julius. 2,915,087.
- Rich, Lewis C., and L. H. Rowley, to Sperry Rand Corp., Ford Instrument Co. Division. Servosystem with low impedance stabilization network. 2,878,435, 3-17-59, Cl. 318-32.
- Rich, Malcolm N.: *See*—  
Peck, Rudolph, and Rich. 2,894,548.
- Rich Mfg. Co. of California: *See*—  
Ewing, Paul E. 2,879,563.
- Rich Mfg. Corp.: *See*—  
Kirkpatrick, Leland W. 2,868,637.
- Rich, Robert E.: *See*—  
Diamond, Holton W., and Powell. 2,868,653.
- Rich, Robert L., Adding and subtracting machine. 2,904,249, 9-15-59, Cl. 235-83.
- Rich, Samuel. Sliding windows. 2,912,714, 11-17-59, Cl. 16-100.
- Rich, Samuel M.: *See*—  
Hamilton, Rollie D., and Rich. 2,899,024.
- Rich, Stanley R. Supports for mechanical vibrators. 2,873,392, 2-10-59, Cl. 810-26.
- Rich, Stanley R., and W. Roth, to Bendix Aviation Corp. Control circuit. 2,892,085, 6-23-59, Cl. 250-36.
- Rich, Theodore A., to General Electric Co. Logarithmic translating circuit. 2,868,968, 1-13-59, Cl. 250-27.
- Rich, Theodore A., to General Electric Co. Small particle filter. 2,884,088, 4-28-59, Cl. 183-32.
- Richard, Andre P.: *See*—  
Petitcolas, Pierre, Richard, Sureau, Roe, and Develotte. 2,893,817.
- Richard-Foy, Robert M. P. O., to Association des Ouvriers en Instruments de Precision (A.O.I.P.) (Societe Anonyme Cooperative a Capital Variable). Dose-measuring device for ionising radiation. 2,884,532, 4-28-59, Cl. 250-83.3.
- Richard-Foy, Robert M. P. O., to Association des Ouvriers en Instruments de Precision (A.O.I.P.) (Societe Anonyme Cooperative a Capital Variable). Measuring apparatus for ionising radiations. 2,884,533, 4-28-59, Cl. 250-83.3.
- Richard, Henry J., 51% to Theophile J. La Lime. Cutting tools. 2,870,523, 1-27-59, Cl. 29-96.
- Richard, Joseph, and L. Door lock. 2,903,286, 9-8-59, Cl. 292-295.
- Richard, Lillie: *See*—  
Richard, Joseph, and L. 2,903,286.
- Richard, Paul P. Arrangement for the automatic steering of tractors or the like vehicles. 2,906,356, 9-29-59, Cl. 180-6.48.
- Richards, Alaa G.: *See*—  
Bourns, Marlan E., and Richards. 2,873,339.
- Richards, Archer W., to Yates-American Machine Co. Combination saw, jointer and sander tool. 2,913,025, 11-17-59, Cl. 144-1.
- Richards, Arthur J., to Fenestra Inc. Pouring form for windows. 2,901,810, 9-1-59, Cl. 25-131.
- Richards, Arthur J. Rivet bucking device. 2,914,972, 12-1-59, Cl. 78-53.5.
- Richards, Audley G.: *See*—  
Emerson, John R., Fuller, and Richards. 2,894,740.
- Richards, Burton A., to Bear Mfg. Co. Gauge for torsion bar suspension systems for vehicles. 2,900,734, 8-25-59, Cl. 33-180.
- Richards, Charles S. Paint strainer. 2,883,057, 4-21-59, Cl. 210-476.
- Richards, David C., to Socony Mobil Oil Co., Inc. Self-orienting geophone. Re. 24,709, 10-6-59, Cl. 340-17.
- Richards, Earl. Warm air baseboard heating structure. 2,870,699, 1-27-59, Cl. 98-40.
- Richards, Geoffrey P., to The Fairey Aviation Co. Ltd. Apparatus for modulating high frequency waves. 2,903,658, 9-8-59, Cl. 333-81.
- Richards, George B.: *See*—  
Billeter, Henry R., and Richards. 2,894,659.
- Richards, George B., to Liquid Controls Corp. Fluid control device. 2,874,715, 2-24-59, Cl. 137-98.
- Richards, George B., to Liquid Controls Corp. Liquid valves. 2,898,927, 8-11-59, Cl. 137-79.
- Richards, George B., to Liquid Controls Corp. Liquid flow control apparatus. 2,903,025, 9-8-59, Cl. 141-217.
- Richards, Hans K., to United States of America, Atomic Energy Commission. Radiation detecting and telemetering system. 2,917,633, 12-15-59, Cl. 250-83.6.
- Richards, Harold A., Jr.: *See*—  
Hardy, Robert L., Richards, Downer, and Olsen. 2,880,615.
- Richards, Howard R.: *See*—  
Alexeff, Alexander V., and Richards. 2,915,102.
- Richards, James R., to United States of America, Navy. High frequency dental tool. 2,874,470, 2-24-59, Cl. 32-58.
- Richards, John M. Apparatus for testing eyes. 2,868,068, 1-13-59, Cl. 88-20.
- Richards, Leslie D.: *See*—  
Cullen, Roy H., and Richards. 2,915,323.  
Cullen, Roy H., Richards, and Hodgeman. 2,892,535.
- Richards Mfg. Co.: *See*—  
Trace, Harry T. 2,878,809.
- Richards, Richard K., to International Business Machines Corp. Electronic counting system. 2,888,556, 5-26-59, Cl. 250-27.
- Richards, Robert W. B., to Thomas Robinson & Son Ltd. Under-table, traveling-saw apparatus for cutting sheets of materials. 2,870,802, 1-27-59, Cl. 143-47.
- Richards, Roman B.: *See*—  
Hopper, Cecil M., and Richards. 2,876,182.
- Richards, Stanley I., to Ferranti Ltd. Recording member assembly for computer or the like. 2,915,358, 12-1-59, Cl. 346-74.
- Richards, William M. S., to Celanese Corp. of America. Preparation of partially frozen liquid mixtures. 2,915,474, 12-1-59, Cl. 252-182.
- Richards, William V., and H. Rosen, to H. A. Phillips, d. b. a. H. A. Phillips Co., by W. Phillips, conservator of his estate. Liquid return system. 2,871,673, 2-3-59, Cl. 62-174.
- Richardson, Alan C., to California Packing Corp. Continuous cooker and heat exchanger. 2,894,446, 7-14-59, Cl. 99-361.
- Richardson, Alan C., to California Packing Corp. Process for the production of vinegar. 2,913,343, 11-17-59, Cl. 99-147.
- Richardson, Arthur T., Jr. Hood for kitchen range. 2,901,963, 9-1-59, Cl. 98-115.
- Richardson, Bert, and N. Brocklebank, to Priestman Brothers Ltd. Method of making slewing bearings for cranes and the like. 2,908,069, 10-13-59, Cl. 29-148.4.
- Richardson, Bobby J.: *See*—  
Bowden, Henry F., and Richardson. 2,914,191.
- Richardson, Cecil H. Scraper cylinder improvement. 2,882,621, 4-21-59, Cl. 37-126.
- Richardson, Cecil R., to Halliburton Oil Well Cementing Co. Coupling apparatus. 2,877,851, 3-17-59, Cl. 166-178.
- Richardson, Charles D.: *See*—  
Wolff, George M., and Richardson. 2,917,570.
- Richardson, Chester A., to R. C. Pratt. Liquefied gas refrigeration system. 2,909,039, 10-20-59, Cl. 62-45.
- Richardson Co., The: *See*—  
Gemberling, George W. 2,890,488.  
Mocas, Verlin A. 2,901,527.
- Richardson, Daniel L.: *See*—  
Sampson, Darwin L., Glass, and Richardson. 2,914,302.
- Richardson, Edward A. Heat exchange apparatus. 2,893,702, 7-7-59, Cl. 257-245.
- Richardson, Edward A. Cooling and supporting structure. 2,893,703, 7-7-59, Cl. 257-250.
- Richardson, Eugene E., to Standard Oil Co. Lubricant compositions. 2,882,229, 4-14-59, Cl. 252-32.7.
- Richardson, Eugene E., to Standard Oil Co. Lubricant compositions. 2,883,339, 4-21-59, Cl. 252-32.7.
- Richardson, Forrest W. Two-piece digging tooth. 2,870,552, 1-27-59, Cl. 37-142.
- Richardson, Frank A., to The De La Rue Co. Ltd. Apparatus for the counting of sheets of material for example, bank notes. 2,911,216, 11-3-59, Cl. 271-27.
- Richardson, Frank A., to The De La Rue Co. Ltd. Apparatus for counting sheets of paper. 2,912,242, 11-10-59, Cl. 271-27.
- Richardson, George A.: *See*—  
Gaertner, Van R., and Richardson. 2,904,538.  
Gaertner, Van R., and Richardson. 2,913,370.  
Seifter, Eli, and Richardson. 2,870,064.



- Richardson, James W.: *See*—  
Davis, Lyssander C., Jr., and Richardson. 2,872,800.
- Richardson, John E.: *See*—  
Nuttall, Hubert V., and Richardson. 2,896,091.
- Richardson, John E. System for analogue computing utilizing detectors and modulators. 2,870,960, 1-27-59, Cl. 235-61.
- Richardson, John T., to Antennavision Mfg. & Engineering Co. Cable lasher. 2,895,713, 7-21-59, Cl. 254-134.3.
- Richardson, John W., to Tecumseh Products Co. Engine control device. 2,873,731, 2-17-59, Cl. 123-99.
- Richardson, Joseph D., to Phillips Petroleum Co. Liquid phase separation control. 2,872,936, 2-10-59, Cl. 137-172.
- Richardson, Lawrence and W. S. Method and apparatus for flushing toilets and the like. 2,907,049, 10-6-59, Cl. 4-34.
- Richardson, Marguerite M. Box lid fastener. 2,918,319, 12-22-59, Cl. 292-253.
- Richardson, Martin A.: *See*—  
Christenson, Donald J., Hansen, and Richardson. 2,892,571.
- Richardson, Max C.: *See*—  
Houlding, Lloyd M. 2,912,850.
- Richardson, Norman H. Electrical fixture. 2,871,455, 1-27-59, Cl. 339-8.
- Richardson, Norvell M. Utility rack. 2,904,188, 9-15-59, Cl. 211-65.
- Richardson, Olan, to Southern States Equipment Corp. Electric fuse. 2,903,538, 9-8-59, Cl. 200-127.
- Richardson, Olan, and C. W. Walter, to Southern States Equipment Corp. Sliver collar. 2,916,780, 12-15-59, Cl. 19-159.
- Richardson, Pierce F., to International Harvester Co. Steering means for vehicles. 2,876,659, 3-10-59, Cl. 74-710.5.
- Richardson, Pierce F., to International Harvester Co. Pre-loading bearings on a track roller assembly. 2,906,564, 9-29-59, Cl. 308-15.
- Richardson, Ralph R., and J. F. Castner, to United Biscuit Co. of America. Cellular tray forming and assembling machine. 2,879,700, 3-31-59, Cl. 93-37.
- Richardson Rod & Reel Co.: *See*—  
Faber, Aloysius W., and Gronewold. 2,874,507.
- Richardson, Rolland A., to Pacific Industrial Mfg. Co. Precision control system for press brakes or the like. 2,906,096, 9-29-59, Cl. 60-97.
- Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass pressing nipper rolls. 2,895,864, 7-21-59, Cl. 154-27.
- Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass bending moulds. 2,903,825, 9-15-59, Cl. 49-67.
- Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass bending moulds. 2,918,755, 12-29-59, Cl. 49-67.
- Richardson, Roy A., and J. Cohn, to Motorola, Inc. Radio receiver with impulse noise blanking. 2,901,601, 8-25-59, Cl. 250-20.
- Richardson, Sid, Carbon Co.: *See*—  
Offutt, Harold H., and Braddock. 2,907,447.
- Richardson, Walker S.: *See*—  
Richardson, Lawrence and W. S. 2,907,049.
- Richardson, William D. Clothespin. 2,871,538, 2-3-59, Cl. 24-137.
- Richardson, William F., to Flex-O-Lators, Inc. Edge roll for cushion spring assemblies. 2,871,925, 2-3-59, Cl. 155-184.
- Richardson, William S., to The Falk Corp. Oil-and-vapor shaft-seal. 2,891,808, 6-23-59, Cl. 286-10.
- Richardson, Woodrow W., to International Minerals & Chemical Corp. Process for producing defluorinated calcium phosphates. 2,893,834, 7-7-59, Cl. 23-109.
- Richelli, Federico. Ice making machine. 2,890,572, 6-16-59, Cl. 62-233.
- Richer, Irving. Containers. 2,883,042, 4-21-59, Cl. 206-7.
- Richert, Herbert B., to The Dow Chemical Co. 2,4-ditertiary-butyl-4,6-dimethoxy-2,5-cyclohexadien-1-one. 2,908,692, 10-13-59, Cl. 260-396.
- Richeson, Sanford E. Installation for spray-coating hollow articles. 2,884,897, 5-5-59, Cl. 118-315.
- Richey, David M., to Emhart Mfg. Co. Fluid lock valve. 2,872,903, 2-10-59, Cl. 121-40.
- Richey, Shirrell C.: *See*—  
Hershberger, Russell R., and Richey. 2,896,889.
- Richfield Oil Corp.: *See*—  
Chamberlain, Richard O., and Wakefield. 2,869,645.  
Chamberlain, Richard O., and Wakefield. 2,869,646.  
Grantham, Richard L., and Liu. 2,894,985.  
Kofahl, David C. 2,917,281.  
Zweifel, Henry C., Hull, and Hart. 2,886,457.  
Zweifel, Henry C., Voss, and Gower. 2,898,298.
- Richie, Carlton A., to Owens-Illinois Glass Co. Molding composition containing phenol-formaldehyde and rubber. 2,867,589, 1-6-59, Cl. 260-17.2.
- Richman, Donald, to Hazeltine Research, Inc. Frequency-difference detector system. 2,890,270, 6-9-59, Cl. 178-5.4.
- Richman, Donald, to Hazeltine Research, Inc. Television field-identification system. 2,897,266, 7-28-59, Cl. 178-7.3.
- Richman, Donald, to Hazeltine Research, Inc. Color-television system. 2,898,397, 8-4-59, Cl. 178-5.2.
- Richman, Donald, to Hazeltine Research, Inc. Phase detector. 2,898,458, 8-4-59, Cl. 250-27.
- Richman, Donald, to Hazeltine Research, Inc. Phase detector. 2,898,459, 8-4-59, Cl. 250-27.
- Richman, Donald, to Hazeltine Research, Inc. Phase detector. 2,910,581, 10-27-59, Cl. 250-27.
- Richman, Jacob S., and T. R. East; said East assor. to said Richman. Frankfurter cooking mechanism. 2,896,527, 7-28-59, Cl. 99-332.
- Richmond-Chase Co.: *See*—  
Hendry, Elmer. 2,875,685.
- Richmond Engineering Co., Inc.: *See*—  
Robinson, John W. 2,911,101.
- Richmond, Eugene E. Thermo hydraulic valve. 2,890,687, 6-16-59, Cl. 123-41.12.
- Richmond, Francis M., W. J. Pennnington, and R. W. Koffler, to Universal-Cyclops Steel Corp. Ferrous base alloys. 2,909,426, 10-20-59, Cl. 75-128.
- Richmond, George G. Combination grass rake and grabber. 2,891,374, 6-23-59, Cl. 56-400.12.
- Richmond, Kenneth W., and B. Hughes, to Shell Development Co. Hydrogen peroxide emulsions. 2,886,532, 5-12-59, Cl. 252-104.
- Richmond, Martin R.: *See*—  
Kline, Jack, and Richmond. 2,901,707.
- Richmond, Nelson R., and W. N. Stone, to The Kaman Aircraft Corp. Sealing device for relatively rotating parts. 2,894,769, 7-14-59, Cl. 286-11.13.
- Richmond Screw Anchor Co., Inc.: *See*—  
Boll, Martin W., Trolio, and McRobbie. 2,880,608.
- Richmond, William F., Jr., and D. C. Nowack, to The Martin Co. Switching system. 2,892,907, 6-30-59, Cl. 200-46.
- Richolt, Robert R., and H. K. Richter, to Lockheed Aircraft Corp. Autopilot-power control servo mechanisms. 2,877,742, 3-17-59, Cl. 121-41.
- Richtel, Martin: *See*—  
Cottle, Francis M. 2,917,104.
- Richter, Albert: *See*—  
Keating, William T., and Richter. 2,911,828.
- Richter, Albert, to Sperry Rand Corp., Ford Instrument Co. Division. Pressure-voltage transducing element. 2,887,882, 5-26-59, Cl. 73-398.
- Richter, Albert, V. Ordorica, and D. Gertz, to Sperry Rand Corp., Ford Instrument Co. Division. Magnetic clutch. 2,898,485, 8-4-59, Cl. 310-104.
- Richter, Don L. Building unit. 2,891,491, 6-23-59, Cl. 108-1.
- Richter, Donald L., to Kaiser Aluminum & Chemical Corp. Utility automotive vehicle. 2,908,528, 10-13-59, Cl. 296-28.
- Richter, George A., and A. B. Lamb, to United States of America, Navy. Special papers. 2,893,754, 7-7-59, Cl. 281-38.
- Richter, George A., Jr.: *See*—  
Bibolet, Aubert H., Brown, Fellmann, and Richter. 2,914,376.
- Richter, George A., Jr., and G. L. Brown, to Rohm & Haas Co. Process for spinning particulate dispersions. 2,869,977, 1-20-59, Cl. 18-54.
- Richter, Gerhard, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Arrangements for controlling the effective thrust produced by reaction-propulsion units and in particular by ram-jet units or athodyds. 2,914,911, 12-1-59, Cl. 60-35.6.
- Richter, Hans-Jürgen: *See*—  
Wustenev, Herbert, and Richter. 2,891,651.
- Richter, Heinz K.: *See*—  
Richolt, Robert R., and Richter. 2,877,742.
- Richter, Helmer: *See*—  
Schenck, Martin, and Richter. 2,916,490.
- Richter, Helmer, and M. Schenck, to Firma Schering A.G. 4-aminochromanes. 2,903,454, 9-8-59, Cl. 260-247.7.
- Richter, Henry, to Paramount Textile Machinery Co. Transfer machine. 2,889,648, 6-9-59, Cl. 41-1.
- Richter, Johan C. F. C., to Aktiebolaget Kamyr. Method and apparatus for the separation of liquids from cellulosic pulp. 2,870,009, 1-20-59, Cl. 92-7.
- Richter, John W.: *See*—  
Kaczka, Edward A., Richter, and Shunk. 2,868,836.
- Richter, John W., to E. I. du Pont de Nemours and Co. Anthraquinonyloxy-benzyl amine compounds. 2,888,467, 5-26-59, Cl. 260-380.
- Richter, Ole J., to Aktiebolaget Kamyr. Device for feeding comminuted cellulose fibrous material into a pressure vessel. 2,901,149, 8-25-59, Cl. 222-367.
- Richter, Ole J., to Aktiebolaget Kamyr. Material feeding apparatus. 2,914,223, 11-23-59, Cl. 222-194.
- Richter, Otto P. Pneumatic holding device. 2,871,053, 1-27-59, Cl. 294-64.
- Richter, Philip: *See*—  
Appleton, Bernard S., and Richter. 2,918,122.
- Richter, Raymond R., to The Dayton Rubber Co. Roller train device. 2,898,855, 8-11-59, Cl. 101-425.
- Richter, Rudolf. Flyers for roving machines. 2,867,970, 1-13-59, Cl. 57-115.
- Richter, Sidney B.: *See*—  
Molotsky, Hyman M., and Richter. 2,901,509.  
Molotsky, Hyman M., and Richter. 2,901,510.
- Richter, Sidney B., to Velsicol Chemical Corp. Halogenated bicycloheptenyl sulfite derivatives. 2,867,564, 1-6-59, Cl. 167-30.
- Richter, Sidney B., to Velsicol Chemical Corp. Halogenated organic compounds. 2,901,338, 8-25-59, Cl. 71-2.5.
- Richter, Sidney B., to Velsicol Chemical Corp. New compositions of matter. 2,909,458, 10-20-59, Cl. 167-30.
- Richter, Sidney B., to Velsicol Chemical Corp. Pentachlorocyclopentene-3-one-2-yl phosphonates and insecticidal use thereof. 2,914,439, 11-24-59, Cl. 167-30.



- Richter, Walther : *See*—  
Dittmore, Ray H., Richter, Shadd, McMillan, and Trickle. 2,885,735.
- Richter, Walther, to Allis-Chalmers Mfg. Co. Electromagnetic centrifugal pump. 2,910,941, 11-3-59, Cl. 103-1.
- Richter, Walter H. Display stand. 2,908,400, 10-13-59, Cl. 211-148.
- Richter, Willy, to Kurt Korber & Co., K.G. Device for attaching mouthpieces to cigarettes and the like. 2,881,767, 4-14-59, Cl. 131-94.
- Richter, Willy, and M. Neubert, to Kurt Korber & Co., K.G. Tobacco rod making machines. 2,868,211, 1-13-59, Cl. 131-66.
- Richter, Willy K., and M. K. Neubert, to Hauni-Werke Korber & Co., K.G. Machines for producing a continuous rod of fibrous material. 2,911,980, 11-10-59, Cl. 131-84.
- Richterkessing, Frank H., to W. M. Cissell Mfg. Co. Fabric drying apparatus having means for selectively supplying drying and cooling medium. 2,870,545, 1-27-59, Cl. 34-63.
- Richterkessing, Frank H., to W. M. Cissell Mfg. Co. Garment-vent clamp. 2,895,659, 7-21-59, Cl. 224-252.
- Richterkessing, Frank H., and W. M. Ingold, to W. M. Cissell Mfg. Co. Garment finisher and means for adjusting size of bag thereof. 2,889,969, 6-9-59, Cl. 223-67.
- Richtmyer, Lawson E., and P. G. Gerhard, to United States of America, Army. Electromechanical timer. 2,900,021, 8-18-59, Cl. 161-1.
- Rickard, Clyde E., to McDowell Mfg. Co. Protector nipple. 2,893,437, 7-7-59, Cl. 138-96.
- Rickard, Clyde E., to McDowell Mfg. Co. Collar protector. 2,893,438, 7-7-59, Cl. 138-96.
- Rickard, Clyde E., to McDowell Mfg. Co. Split ring coupling. 2,901,269, 8-25-59, Cl. 285-39.
- Rickard, Clyde E., to McDowell Mfg. Co. Drain gasket. 2,916,043, 12-8-59, Cl. 137-217.
- Rickard, Clyde E., to McDowell Mfg. Co. Pipe in socket coupling having loose thread connecting means. 2,916,306, 12-8-59, Cl. 285-5.
- Rickard, Florence : *See*—  
Metzgar, Harry H. 2,889,823.
- Rickard, James A. : *See*—  
Brannon, Hezle R., Jr., and Rickard. 2,911,534.
- Rickard, James A., and A. Frosch, to Jersey Production Research Co. Ionization chamber for mass spectrometer. 2,911,531, 11-3-59, Cl. 250-41.9.
- Rickard, William : *See*—  
Metzgar, Harry H. 2,889,823.
- Rickard, William A. : *See*—  
Metzgar, Harry H. 2,889,823.
- Rickard, William H. Spool for fishing reel. 2,890,842, 6-16-59, Cl. 242-118.4.
- Rickards, William H., and J. H. Johanson, to The Gabriel Co. Coaxial line. 2,892,007, 6-23-59, Cl. 174-28.
- Rickel, William R., to Whirlpool Corp. Laundry machine. 2,915,888, 12-8-59, Cl. 68-19.
- Rickenmann, Alfred, to Reishauer-Werkzeuge A.G. Machine for the grinding of spur gears and helical gears by the generating principle. 2,898,707, 8-11-59, Cl. 51-95.
- Ricker, Eugene C., to Haloid Xerox Inc. Xerographic belt loading apparatus. 2,918,898, 12-29-59, Cl. 118-308.
- Ricker, Fred G., and R. C. Randall, to Baker Perkins, Inc. Dough trough elevators. 2,917,192, 12-15-59, Cl. 214-313.
- Ricker, Richard W., to Aluminum Co. of America. Castable refractory. 2,912,341, 11-10-59, Cl. 106-64.
- Ricket Electric, Inc. : *See*—  
Stayton, Robert D. 2,908,785.
- Rickert, Hans-Ferdinand : *See*—  
Pieper, Gustav, Stein, and Rickert. 2,867,612.
- Rickert, Herbert B. : *See*—  
Archer, Wesley L., Bozer, and Rickert. 2,895,935.
- Rickert, Herbert B., to The Dow Chemical Co. Aqueous coating composition of coal acids, starch and a plasticizer and a base coated therewith. 2,883,300, 4-21-59, Cl. 106-213.
- Rickert, Herbert B., to The Dow Chemical Co. Aqueous coating compositions of coal acids and starch and a base coated therewith. 2,887,399, 5-19-59, Cl. 106-213.
- Ricketts, James B., Jr., to Burroughs Corp. Thyatron actuated pawl circuit. 2,904,726, 9-15-59, Cl. 317-123.
- Ricketts, James B., Jr., E. E. Bittmann, and J. Deutsch, to Burroughs Corp. Static magnetic memory system. 2,915,740, 12-1-59, Cl. 340-174.
- Ricketts, Robert E., to General Electric Co. Logarithmic amplifier. 2,915,599, 12-1-59, Cl. 179-171.
- Ricklick, Eugene A., to Stockland Road Machinery Co. Universal hitch assembly. 2,867,452, 1-6-59, Cl. 280-492.
- Ricks, Marc. Automatic door-opening signal device. 2,874,240, 2-17-59, Cl. 200-44.
- Ricouard, Henri L. G., to Societe d'Exploitation de Procèdes Mechaniques Mecaproder. Apparatus for walking heavy equipment. 2,914,127, 11-24-59, Cl. 180-8.
- Ridbo Laboratories, Inc. : *See*—  
Hall, Carroll B., Perry, and Zullig. 2,870,132.
- Ridgway, Eric O. 2,870,104.
- Ridgway, Eric O., and Perry. 2,870,103.
- Ridgway, Eric O., and Perry. 2,870,105.
- Ridgway, Eric O., and Perry. 2,870,106.
- Riddell, John T., Inc. : *See*—  
Jones, Robert T. 2,867,811.
- Riddell, Joseph M. Fluid power motor apparatus. 2,870,556, 1-27-59, Cl. 37-184.
- Riddervold, Hans W. : *See*—  
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- Riddick, Frank C., Jr. : *See*—  
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- Liefers, William C., Riddick, and Switzer. 2,913,404.
- Liefers, William C., Riddick, and Switzer. 2,914,466.
- Riddington, Frederick W., and H. Felts, to General Electric Co. Centrifugal spraying apparatus for applying coatings to cavities in objects. 2,876,736, 3-10-59, Cl. 118-301.
- Riddle Airlines, Inc. : *See*—  
Danielsen, Dale A. 2,900,955.
- Riddle, Harry V. Cluster trailer hitch. 2,911,233, 11-3-59, Cl. 280-415.
- Riddle, Joseph E., to Librascope, Inc. Clamp. 2,917,267, 12-15-59, Cl. 248-361.
- Ridenaur, Wayne F., to Cheshire, Inc. Label applying machine. 2,889,029, 6-2-59, Cl. 198-35.
- Ridenour, Louis N., to International Telemeter Corp. Video scrambling and unscrambling system. 2,875,269, 2-24-59, Cl. 178-51.
- Ridenour, Louis N., to Paramount Pictures Corp. Subscription television distribution system. 2,918,522, 12-22-59, Cl. 178-51.
- Rideout, Richard G. Apparatus for photographic slide viewing. 2,869,260, 1-20-59, Cl. 40-78.
- Rider, Frank A., and R. P. Stanton, to The Viking Corp. Control valve. 2,877,978, 3-17-59, Cl. 251-46.
- Rider, Osborne L., Jr. : *See*—  
Waugh, Robert E., and Rider. 2,907,127.
- Rider, Paul Z., to Sperry Rand Corp. Readout means for accounting machines. 2,900,131, 8-18-59, Cl. 235-59.
- Rider, R. Windham : *See*—  
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- Rider, Stuart H. : *See*—  
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- Ridge, Guy H. : *See*—  
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- Ridge Tool Co., The : *See*—  
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- Janik, Anton J. 2,891,799.
- Lauck, William A. 2,871,733.
- Ridgers, Charles E. S., and R. H. Briggs, to The Decca Record Co. Ltd. Radar apparatus. 2,894,220, 7-7-59, Cl. 333-24.
- Ridgers, Frederick G. : *See*—  
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- Ridgers, Frederick G., to N. Slater Co. Ltd. Cable support. 2,895,193, 7-21-59, Cl. 24-20.
- Ridgeway, Bruce. Expansion wheel hub bearing. 2,895,771, 7-21-59, Cl. 308-236.
- Ridgeway, Bruce, and R. R. Ingram. Automobile lift. 2,901,116, 9-1-59, Cl. 187-8.43.
- Ridgway, Edmund T., to The Budd Co. Selectively connectible axle frame for road vehicles, especially trailers. 2,888,297, 5-26-59, Cl. 296-28.
- Ridgway, Eric O., to Ridbo Laboratories, Inc. Chloroprene rubber composition containing a tall oil-sulphur reaction product. 2,870,104, 1-20-59, Cl. 260-23.7.
- Ridgway, Eric O., and N. A. Perry, to Ridbo Laboratories, Inc. Chlorosulfonated polyethylene composition containing sulfurized tall oil. 2,870,103, 1-20-59, Cl. 260-23.
- Ridgway, Eric O., and N. A. Perry, to Ridbo Laboratories, Inc. Nitrile rubber compositions containing sulfurized tall oil. 2,870,105, 1-20-59, Cl. 260-23.7.
- Ridgway, Eric O., and N. A. Perry, to Ridbo Laboratories, Inc. Chloroprene rubber compositions containing sulfurized tall oil. 2,870,106, 1-20-59, Cl. 260-23.7.
- Ridgway, Frank, to Arundel, Coulthard & Co. Ltd. Production of tyre cord and like yarn. 2,887,840, 5-26-59, Cl. 57-61.
- Ridgway, Frank, to Arundel, Coulthard & Co. Ltd. Production of tyre cord and like yarn. 2,887,841, 5-26-59, Cl. 57-60.
- Ridgway, John A., Jr., and J. M. Stuckey, to The American Oil Co. Hydrogenation process utilizing aluminum chloride complex catalyst. 2,910,513, 10-27-59, Cl. 260-667.
- Ridings, Clements A., and A. W. Holstein, to National Standby Vendors, Inc. Coin apparatus. 2,872,009, 2-3-59, Cl. 194-10.
- Ridings, Garvice H. : *See*—  
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- Ridings, Garvice H., to The Western Union Telegraph Co. Record communication-telephone system. 2,903,517, 9-8-59, Cl. 179-4.
- Ridings, Garvice H., to The Western Union Telegraph Co. Teletograph system. 2,919,305, 12-29-59, Cl. 178-19.
- Ridings, Garvice H., R. J. Wise, and C. Jelinek, Jr., to The Western Union Telegraph Co. Facsimile ticket and message system. 2,894,063, 7-7-59, Cl. 178-6.6.
- Ridler, Desmond S., and B. F. Armsby, to International Standard Electric Corp. Driving arrangements. 2,883,475, 4-21-59, Cl. 179-100.2.
- Ridley, Ian M., ½ to R. L. Klosterman. Tiltable tandem refractory and concrete gun apparatus. 2,899,182, 8-11-59, Cl. 259-151.
- Ridley, Oscar E., and E. J. Walsh, to General Electric Co. Stator vane locking key. 2,915,281, 12-1-59, Cl. 253-78.
- Ridlinghafer, Charles B. : *See*—  
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- Ridout, Philip J.: *See*—  
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- Riebe, Kenneth W.: *See*—  
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- Rieber, Martin, and L. Orthner, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Process of preparing cycloalkane-oximes. 2,885,440, 5-5-59, Cl. 260-566.
- Rieckman, Werner. Combination ice and roller skates. 2,868,553, 1-13-59, Cl. 280-7.13.
- Rieckman, Werner. Code set keyless starter for automobiles. 2,897,376, 7-28-59, Cl. 307-10.
- Riede, John R.: *See*—  
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Henderson, Ashland S., Cross, and Riede. 2,909,303.
- Riede, Peter M.: *See*—  
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- Riedel-de Haen Akt.: *See*—  
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- Riedel, Erich, to Brueckenbau Flender G.m.b.H. Sieves for sludge draining. 2,892,546, 6-30-59, Cl. 210-332.
- Riedel, Jack: *See*—  
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- Riedel, Kurt A., to Kearney & Trecker Corp. Machine tool counterweight. 2,896,512, 7-28-59, Cl. 90-16.
- Riedel, Kurt A., to Kearney & Trecker Corp. Knee deflection eliminator. 2,908,204, 10-13-59, Cl. 90-58.
- Riedel, Ralph H., to Clevis Corp. Sealing ring and method of making same. 2,886,479, 5-12-59, Cl. 154-81.
- Riedel, Walther. Thermostats. 2,907,210, 10-6-59, Cl. 73-368.3.
- Rieder Brothers: *See*—  
Rieder, Robert M. 2,879,561.
- Rieder, Robert M., to Rieder Brothers. Knockdown counter construction. 2,879,561, 3-31-59, Cl. 20-92.7.
- Riedesel, Richard G.: *See*—  
Rankin, Walter J., and Riedesel. 2,881,064.
- Riedesser, Franz, to Papierfabrik Baienfurt A. G. Hoisting eye with tripping arrangement. 2,879,099, 3-24-59, Cl. 294-83.
- Riedl, Hans-Joachim: *See*—  
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- Riedl, Wolfgang, to Schwarz Laboratories, Inc. Nucleus alkylated phloracyclopheones and procedure for the production of such compounds. 2,898,374, 8-4-59, Cl. 260-586.
- Riedle, Rudolf: *See*—  
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- Riegel Paper Corp.: *See*—  
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- Riegel Textile Corp.: *See*—  
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- Rieger, Frederic L., to Thermometer Corp. of America. Combined compass, inclinometer and accelerometer. 2,873,536, 2-17-59, Cl. 33-225.
- Rieger, Gilbert N.: *See*—  
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- Rieger, William H., and L. A. Springman, to Reilly Tar & Chemical Corp. Purification of piperidines. 2,868,793, 1-13-59, Cl. 260-293.
- Riegler, Werner L.: *See*—  
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- Riegler, Werner L., and J. N. Dybalski, to Armour and Co. Anti-slaking buffing compositions. 2,899,290, 8-11-59, Cl. 51-304.
- Rieke, George A. Grinding tool formed of an inorganic bonding agent. 2,874,034, 2-17-59, Cl. 51-298.
- Rieke, Glenn T., to Rieke Metal Products Corp. Bail handled closure cap. 2,895,654, 7-21-59, Cl. 222-529.
- Rieke, John W.: *See*—  
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- Rieke, John W., to Bell Telephone Laboratories, Inc. Instantaneous signal amplitude clipper. 2,892,081, 6-23-59, Cl. 250-27.
- Rieke, Mahlon E.: *See*—  
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- Rieke Metal Products Corp.: *See*—  
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- Riel, Harold K. Applicator. 2,896,238, 7-28-59, Cl. 15-137.
- Rielly, Francis J.: *See*—  
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- Riemenschneider, Claud C. Means for rotatably mounting carpet rolls and the like. 2,904,278, 9-15-59, Cl. 242-72.1.
- Riemenschneider, Lawrence E. Method for operating two-cycle engines. 2,896,593, 7-28-59, Cl. 123-1.
- Riener, Edward F., to Rohm & Haas Co. Anion-exchange resins for sugar decolorization and their preparation. 2,874,132, 2-17-59, Cl. 260-2.1.
- Riener, Harry, to American Can Co. Container. 2,905,357, 9-22-59, Cl. 220-42.
- Rienhoff, Hugh Y.: *See*—  
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- Rienks, Frits, to Burroughs Corp. Magnetron beam switching tube. 2,876,376, 3-3-59, Cl. 313-156.
- Rienks, George W. Spray nozzle. 2,878,068, 3-17-59, Cl. 299-153.
- Rienks, Leo: *See*—  
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- Rieppel, Perry J., and M. C. Clapp, to The Metal Specialty Co. Means for joining pressure-welded tubes. 2,874,942, 2-24-59, Cl. 257-256.
- Rieppel, Perry J., M. C. Clapp, and E. G. Elliott, Jr., to The Metal Specialty Co. Simultaneous pressure welding and pressure forming. 2,882,588, 4-21-59, Cl. 29-157.3.
- Ries, Harold C.: *See*—  
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- Ries, Harold H.: *See*—  
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- Ries, Herman E., Jr.: *See*—  
Melik, John S., and Ries. 2,871,195.
- Ries, Irving G., and P. L. Ries, deceased (M. McGilvray, executrix). Multiple speed tripod head. 2,882,001, 4-14-59, Cl. 248-183.
- Ries, Paul L.: *See*—  
Ries, Irving G. and P. L. 2,882,001.
- Ries, William M., to Wheeling Steel Corp. Insulated panel. 2,912,725, 11-17-59, Cl. 20-15.
- Rieseler, Helene: *See*—  
Rieseler, Hermann. 2,875,738.  
Rieseler, Hermann. 2,898,897.  
Rieseler, Hermann. 2,914,042.
- Rieseler, Hermann, deceased; by H. Rieseler, nee Scherber, heir. Two-stroke cycle internal combustion engine with opposed pistons. 2,875,738, 3-3-59, Cl. 123-51.
- Rieseler, Hermann, deceased; by H. Rieseler, nee Scherber, heir. Piston for internal combustion engines. 2,898,897, 8-11-59, Cl. 123-41.38.
- Rieseler, Hermann, deceased; by H. Rieseler, nee Scherber, heir. Internal combustion engine. 2,914,042, 11-24-59, Cl. 123-32.
- Riesenber, William P.: *See*—  
Hoopes, Harry P., and Riesenber. 2,900,109.
- Rieser, John D. Variable speed transmission mechanism and inclosed system of continual fluid wetting of actuating parts. 2,871,715, 2-3-59, Cl. 74-230.17.
- Rieser, John D. Electrically operated self-contained speed change mechanism. 2,905,010, 9-22-59, Cl. 74-421.
- Rieser, Raymond G., to Pittsburgh Plate Glass Co. Dyeing plastic and solution therefor. 2,914,373, 11-24-59, Cl. 8-4.
- Riesing, Ellwood F., and C. L. Moorman, to General Motors Corp. Fluid seal. 2,867,457, 1-6-59, Cl. 286-11.16.
- Riesing, Ellwood F., and C. L. Moorman, to General Motors Corp. Fluid seal. 2,883,224, 4-21-59, Cl. 288-2.
- Rieske, Henry J. Sprinkling device. 2,904,257, 9-15-59, Cl. 239-19.
- Riester, Hubert A., Jr., and C. J. Kugler, to American Meter Co., Inc. Strip chart assembly. 2,903,323, 9-8-59, Cl. 346-136.
- Riester, William C.: *See*—  
Deibel, Raymond A., and Riester. 2,877,486.
- Riester, William C., to Trico Products Corp. Windshield wiper system. 2,889,569, 6-9-59, Cl. 15-250.4.
- Riester, William C., to Trico Products Corp. Windshield wiper motor transmission system. 2,895,158, 7-21-59, Cl. 15-253.
- Riester, William C., and M. Bitzer, to Trico Products Corp. Windshield cleaner motor. 2,889,818, 6-9-59, Cl. 121-164.
- Riester, William J.: *See*—  
Andriot, George W., and Riester. 2,888,226.
- Riesz, Kolman, to Westinghouse Electric Corp. Magnetic assembly. 2,879,478, 3-24-59, Cl. 324-152.
- Rieter, Joh. Jacob, & Co. Ltd.: *See*—  
Naegeli, Werner. 2,916,778.
- Rieth, Harold, to Standard Coil Products Co. Inc. Multi-band high frequency circuits. 2,894,134, 7-7-59, Cl. 250-40.
- Rieth, Harold F. Selective group energizing system. 2,918-608, 12-22-59, Cl. 315-166.
- Riethmüller, Paul, and L. Leinert, to Robert Bosch G. m. b. H. Process for manufacturing shells for spark plugs and the like. 2,874,460, 2-24-59, Cl. 29-535.
- Rietsch, Herwig, to Mannesmann-Trauzl Aktiengesellschaft. Bearing assembly for the shaft of underground hydraulic turbines for driving drill bits in deep-well drilling. 2,908,534, 10-13-59, Cl. 308-162.
- Rietz, Carl A., to Rietz Mfg. Co. Disintegrating and dispersion apparatus and method. 2,903,191, 9-8-59, Cl. 241-21.
- Rietz, Edward L., to Auto Specialties Mfg. Co. Rotary shredder and cutter. 2,891,369, 6-23-59, Cl. 56-25.4.
- Rietz Mfg. Co.: *See*—  
Rietz, Carl A. 2,903,191.
- Riffel, Heinrich, to Rheinmetall Akt. Power-driven typewriter. 2,870,896, 1-27-59, Cl. 197-17.
- Riffet, Marcel, and R. G. M. Damidot, to Proplastec. Safety stopper for liquid-carrying and the like containers. 2,918-187, 12-22-59, Cl. 215-21.
- Rifkin, Michael. Window construction. 2,877,513, 3-17-59, Cl. 20-52.2.
- Rigaud, Maurice, to Societe des Agrafes Francaises & d'Articles Metalliques (Societe Anonyme). Locking device. 2,888,288, 5-26-59, Cl. 292-46.
- Rigby, Ivor V.: *See*—  
Wright, Thomas O., and Rigby. 2,893,311.



- Rigden, Sydney A. R., to The General Electric Co. Ltd. Sodium vapour electric discharge lamps. 2,875,358, 2-24-59, Cl. 313-25.
- Rigert, Max, to McGraw-Edison Co. Switch actuator. 2,868,921, 1-13-59, Cl. 200-87.
- Rigert, Max, to McGraw-Edison Co. Electromagnetically actuated switch construction. 2,911,494, 11-3-59, Cl. 200-87.
- Riggen, Lewis R., to Northrop Aircraft, Inc. Backlash detector apparatus. 2,887,680, 5-19-59, Cl. 340-282.
- Riggen, Theodore K., to Corning Glass Works. Electronic tube structures. 2,876,374, 3-3-59, Cl. 313-102.
- Riggs, Frederick S., to The Goodyear Tire & Rubber Co. Rim structure. 2,884,934, 5-5-59, Cl. 152-410.
- Riggs, George, and R. F. Schunneeman, to Bell Telephone Laboratories, Inc. Telephone call charge and tax calculator. 2,911,150, 11-3-59, Cl. 235-162.
- Riggs, Harold C., to The Electric Storage Battery Co. Vent plug. 2,906,806, 9-29-59, Cl. 136-177.
- Riggs, Harold C., and F. J. Port, to The Electric Storage Battery Co. Vent plug. 2,911,986, 11-10-59, Cl. 137-43.
- Riggs & Lombard, Inc.: See—
- Hadley, Wilfred N. 2,884,678.
- Riggs, Mart B., to The Goodyear Tire & Rubber Co. Safety tire construction. 2,900,005, 8-18-59, Cl. 152-341.
- Rights, Clyde S. Ligature inserter. 2,880,728, 4-7-59, Cl. 128-326.
- Rigidbilt Inc.: See—
- Bradfield, William W., and Anderson. 2,871,677.
- Rigney, Daniel K., and C. E. Carpenter. Television picture clarifier. 2,897,488, 7-28-59, Cl. 340-369.
- Rigo, Rolf: See—
- Llewald, Fritz, Rigo, and Keller. 2,919,376.
- Rigsby, Canby A., Sr. Storage battery terminal lug connector. 2,906,804, 9-29-59, Cl. 136-134.
- Rigsby, Lonnie D. Cotton bale resampling and breakout device. 2,896,805, 7-28-59, Cl. 214-620.
- Rigterink, Merle D.: See—
- Fisher, Joseph R., and Rigterink. 2,883,347.
- Rigterink, Raymond H., to The Dow Chemical Co. 3,4-dihydro-2H-1,3-benzoxazine. 2,867,618, 1-6-59, Cl. 260-244.
- Rigterink, Raymond H., to The Dow Chemical Co.  $\alpha$ -(dialkylamino)-6-phenyl-o-cresol esters. 2,872,477, 2-3-59, Cl. 260-476.
- Rigterink, Raymond H., to The Dow Chemical Co. 3-(benzyl-oxy)methyl-4-heptanol. 2,875,251, 2-24-59, Cl. 260-611.
- Rigterink, Raymond H., to The Dow Chemical Co. 2-alkenyl-3,4-dichlorophenols. 2,901,515, 8-25-59, Cl. 260-623.
- Rigterink, Raymond H., R. L. Miller, Jr., and L. H. Silvernail, to The Dow Chemical Co. Delayed tack adhesive comprising 1,2-bis (2-biphenyloxy) ethane. 2,885,306, 5-5-59, Cl. 117-122.
- Rigterink, Raymond H., R. L. Miller, Jr., and L. H. Silvernail, to The Dow Chemical Co. Delayed tack adhesive comprising 1,2-bis(4-tert. butyl 2-chlorophenoxy)ethane. 2,885,307, 5-5-59, Cl. 117-122.
- Rijnders, Johannes, to North American Philips Co., Inc. Lighting fixture. 2,878,369, 3-17-59, Cl. 240-25.
- Rijnders, Johannes, to North American Philips Co., Inc. Lighting fitting for road illumination. 2,882,389, 4-14-59, Cl. 240-25.
- Rikard, Mack A., E. A. Bartlett, and R. B. Coleman, Jr., to American-Marietta Co. Method of producing agglomerated lime hydrate. 2,894,820, 7-14-59, Cl. 23-188.
- Rike, Frederick E., and R. V. Kliukunas, to Buckeye Iron & Brass Works. Emergency shut-off valve. 2,867,228, 1-6-59, Cl. 137-68.
- Rike, Richard C., to General Motors Corp. Brake cooling system. 2,879,867, 3-31-59, Cl. 188-264.
- Rike, Richard C., to General Motors Corp. Brake power booster. 2,887,848, 5-26-59, Cl. 60-54.6.
- Riker, Andrew L., Jr. Viewing apparatus. 2,885,927, 5-12-59, Cl. 88-28.9.
- Riker Laboratories, Inc.: See—
- Klohs, Murlie W., Keller, and Williams. 2,870,164.
- Porush, Irving, and Maisson. 2,868,691.
- Tanabe, Masato, and Bolger. 2,911,402.
- Thiel, Charles G. 2,886,217.
- Riker, Walter F. Machine for bending U-bolts and the like. 2,918,101, 12-22-59, Cl. 153-48.
- Rilco Laminated Products: See—
- Wirth, Raymond E. 2,894,545.
- Riley, Claude J. Disappearing medicine cabinet. 2,875,012, 2-24-59, Cl. 312-223.
- Riley, Daniel F., and S. Goldberg, to Edgerton, Germeshausen & Grier, Inc. Cathode heater. 2,919,373, 12-29-59, Cl. 313-340.
- Riley, Dorcas R. Trousers pocket. 2,899,684, 8-18-59, Cl. 2-254.
- Riley, Erwin M.: See—
- Ildoine, Harry E., Riley, and Ildoine. 2,891,814.
- Riley, Floyd E., to R. R. Putt. Tubeless tire bead seating device. 2,873,796, 2-17-59, Cl. 157-1.21.
- Riley, Forrest T. Hand-operated air vacuum cleaner and blower. 2,902,708, 9-8-59, Cl. 15-330.
- Riley, Gerard C., to Rohm & Hass Co. Tert-carbinamines. 2,871,266, 1-27-59, Cl. 260-584.
- Riley, James D.: See—
- Russell, Robert G., Smart, and Riley. 2,875,893.
- Riley, James Whitcomb, Memorial Association, The: See—
- Schulz, Dale M. 2,869,414.
- Riley, Joseph J., and F. A. Hurcomb, to The Taylor-Winfield Corp. Control circuit for hot upsetting machines. 2,892,926, 6-30-59, Cl. 219-151.
- Riley, Joseph R., to The C. M. Kemp Mfg. Co. Lift and discharge for wheeled cart. 2,888,157, 5-26-59, Cl. 214-313.
- Riley Stoker Corp.: See—
- Davey, Gerald F. 2,886,294.
- Griffith, Louis E. 2,883,972.
- Hogberg, Ake O., and Neilson. 2,869,625.
- Miller, Earle C. 2,894,696.
- Miller, Earle C. 2,895,436.
- Riley, Walter E. Twin-arch pipe line span. 2,894,527, 7-14-59, Cl. 137-236.
- Rimbach, Harry J. Twin weedless fishhooks. 2,908,990, 10-20-59, Cl. 43-44.82.
- Rimes, Clyde E., to National Dairy Products Corp. Sheet feeding machine. 2,880,995, 4-7-59, Cl. 271-14.
- Rimmer, Fred E.: See—
- Rimmer, John A., and Martin. 2,884,682.
- Rimmer, John A., and E. F. Martin,  $\frac{1}{2}$  to J. A. Rimmer,  $\frac{1}{2}$  to F. E. Rimmer, and  $\frac{1}{2}$  to B. C. French. Belt for personal wear. 2,884,682, 5-5-59, Cl. 28-78.
- Rimmer, Norman W.: See—
- Simpson, Harold G., and Rimmer. 2,871,997.
- Rimsha, Victor E.: See—
- Kozel, James A., and Rimsha. 2,872,116.
- Kozel, James A., and Rimsha. 2,889,113.
- Rimsha, Victor E., to The Dole Valve Co. Flow control valve. 2,873,083, 2-10-59, Cl. 251-121.
- Rimsha, Victor E., to The Dole Valve Co. Thermostatic control valve. 2,893,638, 7-7-59, Cl. 236-68.
- Rimsha, Victor E., and R. W. Couffer, Jr., to The Dole Valve Co. Non-thermostatic adjustable mixing valve. 2,893,425, 7-7-59, Cl. 137-607.
- Rimsha, Victor E., and J. A. Kozel, to The Dole Valve Co. Thermostatic mixing valve. 2,905,386, 9-22-59, Cl. 236-12.
- Rindlisbacher, Ernst: See—
- Hubner, Walter W. G., Lange, and Rindlisbacher. 2,900,668.
- Rindone, Guy E., to Sylvania Electric Products Inc. High dielectric constant glass. 2,906,631, 9-29-59, Cl. 106-48.
- Rinehart, Cleo A., to Swift & Co. Animal casing and method of producing same. 2,890,121, 6-9-59, Cl. 99-175.
- Rinehart, Dale W., to Pittsburgh Plate Glass Co. Electrical resistor metal coatings on refractory materials. 2,882,377, 4-14-59, Cl. 201-73.
- Rinesch, Rudolf F.: See—
- Austin, Chester R., and Rinesch. 2,892,699.
- Rinesch, Rudolf F., to Bot Brassery Oxygen Technik A.G. Method of refining crude iron. 2,893,861, 7-7-59, Cl. 75-52.
- Ring, Harold H., W. E. Shrode, H. W. Clay, and R. E. McCleary, to Atwood Vacuum Machine Co. Method of making hinge members. 2,888,734, 6-2-59, Cl. 29-11.
- Ring, Robert G., to Chapman Chemical Co. Wood preservation method and package. 2,875,020, 2-24-59, Cl. 21-7.
- Ring, William. Tandem wheel roller skate. 2,868,554, 1-13-59, Cl. 280-11.26.
- Ringdal, Lars. Cartridge. 2,918,868, 12-29-59, Cl. 102-39.
- Ringe, Carl H.: See—
- Polglase, Burton C., Jr., Worthington, and Ringe. 2,909,999.
- Ringer, Friedrich: See—
- Keith, Percival C., and Ringer. 2,885,337.
- Ringhof, Jakob,  $\frac{1}{2}$  to P. O. Tobler, doing business as Trans-Oceanic. Quick connect and quick disconnect battery terminal clamp. 2,894,244, 7-7-59, Cl. 339-236.
- Ringland, William L., to Allis-Chalmers Mfg. Co. Unipolar generator air gap scavenging. 2,869,007, 1-13-59, Cl. 310-178.
- Ringleb, Friedrich O.: See—
- Hazen, David C., and Ringleb. 2,894,703.
- Ringleb, Friedrich O. Apparatus for suppressing noise. 2,915,136, 12-1-59, Cl. 181-57.
- Ringler, William A., to Diamond Gardner Corp. Carton. 2,870,952, 1-27-59, Cl. 229-44.
- Ringler, William A., to Diamond Gardner Corp. Package and method of forming the same. 2,874,524, 2-24-59, Cl. 53-29.
- Ringler, William A., to Diamond Gardner Corp. Reclosable dispensing carton. 2,881,967, 4-14-59, Cl. 229-17.
- Ringman, Henry W. Duck call. 2,915,851, 12-8-59, Cl. 46-180.
- Ringoen, Richard M., to Collins Radio Co. Low noise frequency modulator and exciter. 2,888,646, 5-26-59, Cl. 332-7.
- Ringold, Howard J.: See—
- Kincl, Fred A., Ringold, and Rosenkranz. 2,906,758.
- Stork, Gilbert, Ringold, Sondheimer, and Rosenkranz. 2,874,154.
- Ringold, Howard J., F. Sondheimer, and G. Rosenkranz, to Syntex S.A. Cyclopentanophenanthrene derivatives and process. 2,888,470, 5-26-59, Cl. 260-397.4.
- Ringold, Howard J., and G. Rosenkranz, to Syntex S.A.  $\Delta^1$ -androstren-17 $\beta$ -ol-3-one having an 11 $\beta$ -hydroxy or an 11-keto group as well as 17-esters of these derivatives and 17 $\alpha$ -lower alkyl derivatives thereof. 2,888,474, 5-26-59, Cl. 260-397.45.



- Ringold, Howard J., F. Sondheimer, and G. Rosenkranz, to Syntex S.A. Method of making 15 $\alpha$  hydroxy desoxycorticosterone and intermediates employed therefor. 2,889,346, 6-2-59, Cl. 260—397.47.
- Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. Method for preparation of 3,17 $\alpha$ -acetoxy-4,5-pregnadiene-20-one derivatives and compound produced thereby. 2,891,077, 6-16-59, Cl. 260—397.4.
- Ringold, Howard J., F. A. Kincl, and E. Batres, to Syntex S.A. Cyclopentanophenanthrene derivatives. 2,895,969, 7-21-59, Cl. 260—397.3.
- Ringold, Howard J., and E. Batres, to Syntex S.A. 4,9 $\alpha$ -dihalo-11-oxygenated derivatives of progesterone. 2,897,199, 7-28-59, Cl. 260—239.55.
- Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. Process for the production of 2-methyl-dihydrotestosterones. 2,908,693, 10-13-59, Cl. 260—397.4.
- Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. 1-methyl androstane derivatives. 2,918,481, 12-22-59, Cl. 260—397.4.
- Rings, Franz; *See—*  
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- Rings, Franz, to G. Kromschroder Akt. Pipe line connections for meters and the like. 2,881,012, 4-7-59, Cl. 285—30.
- Rings, Franz, to G. Kromschroder Aktiengesellschaft. Side-branch fitting for main supply pipe. 2,913,259, 11-17-59, Cl. 285—133.
- Ringspann Albrecht Maurer K.G.; *See—*  
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- Ringwald, Eugene L.; *See—*  
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- Rinia, Herre, to North American Philips Co., Inc. Device for measuring the flow speed of a liquid. 2,896,451, 7-28-59, Cl. 73—194.
- Rinia, Herre, to North American Philips Co., Inc. Device for measuring the flow speed of a liquid. 2,907,207, 10-6-59, Cl. 73—194.
- Rinia, Herre, to North American Philips Co., Inc. Thermodynamic apparatus with closed pipe system. 2,911,792, 11-10-59, Cl. 60—59.
- Rinker, Edwin C., and R. Duva, to Sel-Rex Corp. Electroplating bright gold. 2,905,601, 9-22-59, Cl. 204—43.
- Rinker, Lyman E., and H. G. Lee, to Leopold & Stevens Instruments, Inc. Radio relay or repeater station time synchronizing switch. 2,870,640, 1-27-59, Cl. 74—209.
- Rinker, Royden C.; *See—*  
Walte, Douglas E., and Rinker. 2,885,838.
- Rinker, Royden C., and H. W. Schnabel, to Armour and Co. Coated abrasive article and method of manufacture. 2,893,854, 7-7-59, Cl. 51—298.
- Rinn, Sherwood E. Call service conveyor. 2,870,901, 1-27-59, Cl. 198—177.
- Rinse, Jacobus, to J. W. Ayers & Co. Process for the preparation of phosphoric acid triesters. 2,886,586, 5-12-59, Cl. 260—461.
- Rinse, Jacobus, to J. W. Ayers & Co. Alkyd gels and compositions containing the same. 2,892,780, 6-30-59, Cl. 252—35.
- Rinse, Jacobus, to J. W. Ayers & Co. Polyaluminum oxide carboxylates. 2,910,494, 10-27-59, Cl. 260—448.
- Rinse, Jacobus, to J. W. Ayers & Co. Glyceride oil gel paints. 2,911,316, 11-3-59, Cl. 106—253.
- Rinse, Jacobus, to J. W. Ayers & Co. Hydroxy-R-oxy-aluminum acylates and condensation products thereof. 2,913,468, 11-17-59, Cl. 260—414.
- Rinse, Jacobus, and T. Morel, to J. W. Ayers & Co. Hydroxy-alkoxy-aluminum salts of aliphatic amino acids. 2,910,493, 10-27-59, Cl. 260—448.
- Rinzema, Anne; *See—*  
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- Rio Canadian Exploration Ltd.; *See—*  
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- Riordan, Michael D., and H. E. Vermillion, to Texaco Inc. Process for desulfurizing petroleum distillates using a spent platinum reforming catalyst. 2,916,443, 12-8-59, Cl. 208—217.
- Rioux, Antoine F.; *See—*  
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- Ripco, Inc.; *See—*  
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- Ripke, August C. Rotary motion transmitting mechanism. 2,898,769, 8-11-59, Cl. 74—86.
- Riple, James C., Jr.; *See—*  
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- Ripley, Frederick C., Jr., to Oil Well Heating Systems, Inc. Oil well heating system. 2,914,124, 11-24-59, Cl. 166—57.
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- Ripplingille, Frank, to Clark Equipment Co. Protective device for a carburetion system. 2,902,988, 9-8-59, Cl. 123—120.
- Ripple, Lewis M., to Republic Steel Corp. Automatic gas bleeder igniter. 2,888,981, 6-2-59, Cl. 158—123.
- Ripple, Melvin H., to The Hoover Co. Driving connection for floor polishers. 2,867,825, 1-13-59, Cl. 15—49.
- Ripstein, Archie C. Pipe driver. 2,882,011, 4-14-59, Cl. 264—29.
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- Risch, Karl; *See—*  
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- Weiss, Ernst, and Risch. 2,904,952.
- Risch, Thomas A., to Pittsburgh Plate Glass Co. Filling elongated cavities with polyurethane foams. 2,910,730, 11-3-59, Cl. 18—59.
- Rische, Kurt, A. Kreil, and G. Marek. Suspension device. 2,908,404, 10-13-59, Cl. 214—1.
- Risdon, Harold L., to The Pillsbury Co. Multi-purpose container. 2,917,221, 12-15-59, Cl. 229—34.
- Rise, William E.; *See—*  
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- Riser, George R.; *See—*  
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- Rishell, George L., to Sylvania Electric Products Inc. Anode for radio tubes. 2,873,408, 3-17-59, Cl. 313—217.
- Rishell, George L., to Sylvania Electric Products Inc. Electron discharge device. 2,909,699, 10-20-59, Cl. 313—238.
- Rishell, George L., to Sylvania Electric Products, Inc. Getter flag. 2,915,172, 12-1-59, Cl. 206—4.
- Rising, Henry C. Apparatus for making ice cubes. 2,900,804, 8-25-59, Cl. 62—157.
- Risk, George, to Dale Products, Inc. Hole mounted resistor. 2,878,356, 3-17-59, Cl. 201—67.
- Risk, Norman E., to Caterpillar Tractor Co. Emergency and parking brake for tractors. 2,881,872, 4-14-59, Cl. 188—106.
- Risk, Thomas H., to Ford Motor Co. Aluminum wheel mounting. 2,895,767, 7-21-59, Cl. 301—9.
- Riske, Gilbert; *See—*  
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- Risley, Roger E., and F. T. Newell, to Dresser Industries, Inc. Pressure-sealing coupling for plain end pipe. 2,887,328, 5-19-59, Cl. 285—110.
- Risley, Willis D. Hoisting mechanism for truck beds. 2,901,287, 8-25-59, Cl. 298—19.
- Risner, Robert C. Automobile carriers. 2,908,527, 10-13-59, Cl. 296—1.
- Risse, John T., to Iowa Mfg. Co. of Cedar Rapids. Drum for rotary kiln. 2,877,007, 3-10-59, Cl. 263—33.
- Risse, Ralph F., to Goodman Mfg. Co. Boring type miner. 2,889,910, 6-9-59, Cl. 198—7.
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- Rissler, Lennius R.; *See—*  
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- Rissmiller, Edwin H.; *See—*  
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- Cosby, John N., Rissmiller, and Spooner. 2,902,519.
- Risucci, Edward J. Severable frozen food carton. 2,896,837, 7-28-59, Cl. 229—51.
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- Maurice, Jean, and Rist. 2,880,831.
- Maurice, Jean, and Rist. 2,896,732.
- Maurice, Jean, and Rist. 2,897,933.
- Maurice, Jean, and Rist. 2,907,433.
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- Ristow, Edward W., to Milwaukee Electric Tool Corp. Power hammer. 2,877,820, 3-17-59, Cl. 153—21.
- Ristvedt, Victor G.; *See—*  
Blanchette, Albert G., and Ristvedt. 2,906,276.
- Ris-Van, Inc.; *See—*  
Floy, Delbert W. 2,903,982.
- Ritchey, Neil F., to Knapp Mills Inc. Method and means for detecting flaws in metals. 2,916,623, 12-8-59, Cl. 250—65.
- Ritchey, Norman B., to Sylvania Electric Products, Inc. Capacitor. 2,917,688, 12-15-59, Cl. 317—261.
- Ritchie, Bertram F.; *See—*  
Reichelt, Lester O., and Ritchie. 2,908,796.
- Ritchie, Wilbrod Z. Bread loaf display rack. 2,891,677, 6-23-59, Cl. 211—49.
- Ritchie, William, and C. G. Stephen, to Chicago Pneumatic Tool Co. Pneumatic rock or coal drill. 2,907,303, 10-6-59, Cl. 121—10.
- Rite Way Sales and Mfg. Co., Inc.; *See—*  
Cohn, Nathan, and Emeritz. 2,897,721.
- Riter, Samuel, to A. Werman & Sons, Inc. Method of stitch-down shoe fabrication. 2,876,470, 3-10-59, Cl. 12—142.
- Ritscher, Arthur, and B. Schubert, to Kurt Körber & Co. K.G. Conveyor apparatus. 2,918,197, 12-22-59, Cl. 221—183.
- Ritsky, Louis L. Shuttles for narrow fabric looms. 2,888,957, 6-2-59, Cl. 139—201.
- Ritson, Daniel D., to American Cyanamid Co. Grease resistant cellulosic webs coated with a linear anionic thermoplastic ethyl acrylate-acrylonitrile-methacrylic acid polymer containing a hydrophilic inorganic pigment as extender and composition for manufacture thereof. 2,889,299, 6-2-59, Cl. 260—29.6.



- Ritson, Daniel D., and Y. Jen, to American Cyanamid Co. Pigment starch paper coating composition containing methylol carbamyl polyazaalkane resins and article coated therewith. 2,918,438, 12-22-59, Cl. 260—17.3.
- Rittberger, Carl C., Jr. Butchering apparatus. 2,877,889, 3-17-59, Cl. 198—196.
- Rittel, Werner: *See*—  
Schwyzer, Robert, Iselin, Rittel, and Sieber. 2,917,502.
- Rittenberg, Donald E.: *See*—  
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Baxter, Leonard R., and Rittenberg. 2,890,023.
- Rittenhouse, Howard E., to Tokheim Corp. Double-diaphragm pump. 2,877,715, 3-17-59, Cl. 103—150.
- Rittenhouse, Howard E., to Bowser, Inc. Four-way valve. 2,898,079, 8-4-59, Cl. 251—30.
- Rittenhouse, Joseph W., and E. L. Luehring, to Hi-Voltage Equipment Co., a division of Joslyn Mfg. and Supply Co. Means and methods for switching a polyphase capacitor bank. 2,918,588, 12-22-59, Cl. 307—94.
- Rittenhouse, Owen R., and E. W. Glover, to General Motors Corp. Steering gear. 2,916,945, 12-15-59, Cl. 74—499.
- Ritter, Alden J., and W. H. Scott; said Scott assor. to Minneapolis-Honeywell Regulator Co., and said Ritter, assor. to The C. A. Olsen Mfg. Co. Control apparatus. 2,884,767, 5-5-59, Cl. 62—161.
- Ritter, Charles W. Granular material applicator. 2,906,539, 9-29-59, Cl. 275—7.
- Ritter Co., Inc.: *See*—  
Ellis, Charles A. 2,884,695.  
Ellis, Charles A. 2,891,312.
- Ritter, Darrell L., L. B. Blocker, and J. Wilcox, to United States of America, Navy. Light weight pneumatic airplane. 2,886,265, 5-12-59, Cl. 244—117.
- Ritter, David M., to United States of America, Atomic Energy Commission. Process for the recovery of plutonium. 2,868,619, 1-13-59, Cl. 23—14.5.
- Ritter, David M., to United States of America, Atomic Energy Commission. Recovery of plutonium values from dilute solution by partial precipitation of carrier compounds. 2,891,841, 6-23-59, Cl. 23—14.5.
- Ritter, David M., and R. P. S. Black, to United States of America, Atomic Energy Commission. Reduction in Pu recovery processes. 2,906,597, 9-29-59, Cl. 23—14.5.
- Ritter, Edwin E., to Hugh H. Eby, Inc. Electronic tube socket. 2,875,423, 2-24-59, Cl. 339—126.
- Ritter, George B. Massage and reducing device. 2,907,323, 10-6-59, Cl. 128—33.
- Ritter, George F., Jr.: *See*—  
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- Ritter, Jay S., M. Feier, and M. Pantzer, to The Panray Corp. Surgical device. 2,898,913, 8-11-59, Cl. 128—296.
- Ritter, Josef: *See*—  
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- Ritter, Kaspar: *See*—  
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- Ritter, Kaspar, to Allgaier-Werke G.m.b.H. Driven trailers. 2,903,080, 9-8-59, Cl. 180—14.
- Ritter, Kurt, to Heintz. Auer Mühlenwerke Kommandit-Gesellschaft Auf Aktien. Hopping of beer. 2,893,870, 7-7-59, Cl. 99—50.5.
- Ritter, Kurt. Swimming pool lamp frame lock. 2,906,863, 9-29-59, Cl. 240—26.
- Ritter, Walter T., R. O. Ragan, and R. F. Trant, to United Biscuit Co. of America. Light sensitive coating composition. 2,916,376, 12-8-59, Cl. 96—93.
- Rittershausen, Ernst P.: *See*—  
Edwards, Roy T., and Rittershausen. 2,906,712.
- Rittershofer, Egon, to N. Laing. Tank-pump. 2,868,132, 1-13-59, Cl. 103—87.
- Rittmann, Albert D., to Philco Corp. Semiconductive device and method for the fabrication thereof. 2,870,052, 1-20-59, Cl. 148—33.
- Rittner, Edmund S., to North American Philips Co., Inc. Photovoltaic device. 2,873,303, 2-10-59, Cl. 136—89.
- Ritts, Loyd E. Conelrad automatic alarm and light system. 2,912,682, 11-10-59, Cl. 340—253.
- Ritz, Hans. Tubular bar current transformer. 2,892,167, 6-23-59, Cl. 336—174.
- Ritz, Stanley D. Weather strip for window. 2,905,983, 9-29-59, Cl. 20—56.4.
- Ritzenthaler, Bruce A., to Standard Oil Co. Time interval device. 2,906,333, 9-29-59, Cl. 161—15.
- Ritzerfeld, Gerhard: *See*—  
Ritzerfeld, Wilhelm and G. 2,868,116.  
Ritzerfeld, Wilhelm and G. 2,868,117.  
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Ritzerfeld, Wilhelm and G. 2,895,413.  
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Ritzerfeld, Wilhelm and G. 2,902,926.  
Ritzerfeld, Wilhelm and G. 2,906,196.  
Ritzerfeld, Wilhelm and G. 2,906,202.  
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- Ritzerfeld, Wilhelm and G. Apparatus for printing spaced text portions adjacent each other. 2,868,116, 1-13-59, Cl. 101—132.5.
- Ritzerfeld, Wilhelm and G. Rotary duplicating apparatus. 2,868,117, 1-13-59, Cl. 101—132.5.
- Ritzerfeld, Wilhelm, and G. Printing arrangement for rotary duplicators. 2,873,670, 2-17-59, Cl. 101—132.
- Ritzerfeld, Wilhelm and G. Pressure roller support and moving means for a rotary duplicating machine. 2,895,413, 7-21-59, Cl. 101—132.5.
- Ritzerfeld, Wilhelm and G. Intermittent selective rotary printing apparatus. 2,896,534, 7-28-59, Cl. 101—132.5.
- Ritzerfeld, Wilhelm and G. Method and apparatus for duplicating. 2,902,926, 9-8-59, Cl. 101—141.
- Ritzerfeld, Wilhelm and G. Ejector and sorting mechanism for printing machines. 2,906,196, 9-29-59, Cl. 101—2.
- Ritzerfeld, Wilhelm and G. Rotary duplicating machine. 2,906,202, 9-29-59, Cl. 101—132.5.
- Ritzerfeld, Wilhelm and G. Duplicating machine for selective printing. 2,912,927, 11-17-59, Cl. 101—92.
- Riva, William. Floral receptacle pane for windows and the like. 2,887,824, 5-26-59, Cl. 47—41.
- Rivard, Harvey F. Ski structure. 2,914,335, 11-24-59, Cl. 280—11.13.
- Rivas, Carlos C. Film editing machine. 2,885,487, 5-5-59, Cl. 179—100.1.
- Rively, Clair M., and G. A. Daines, to Westinghouse Electric Corp. Welding apparatus. 2,882,387, 4-14-59, Cl. 219—96.
- Rively, Clair M., and E. L. Midgley, to Westinghouse Electric Corp. Welding apparatus. 2,903,561, 9-8-59, Cl. 219—78.
- Rivero, Santiago. Automatic toothbrush and dispenser. 2,882,543, 4-21-59, Cl. 15—138.
- Rivero, Santiago. Toothbrush having a dentifrice supply unit. 2,900,650, 8-25-59, Cl. 15—138.
- Rivero-Ferro, Juan. Simulated soccer game apparatus. 2,884,253, 4-28-59, Cl. 273—85.
- Rivers, George D., and D. H. Lapointe, to Royal McBee Corp. Printed circuit translators. 2,899,676, 8-11-59, Cl. 340—347.
- Rivers, Paul J. Flat tire alarm. 2,917,020, 12-15-59, Cl. 116—34.
- Rivers, Richard D., to American Air Filter Co., Inc. Electrostatic air filter cell with conductively striped filter web. 2,868,319, 1-13-59, Cl. 183—7.
- Rivers, Richard D., and D. H. Robb, to American Air Filter Co., Inc. Electrostatic air filter. 2,908,348, 10-13-59, Cl. 183—7.
- Rivers, Robert A. Tunable cavity resonator. 2,919,419, 12-29-59, Cl. 333—83.
- Rivoche, Eugene J. Method of preparing food products. 2,887,382, 5-19-59, Cl. 99—1.
- Riv-Officine Di Villar Perosa Società per Azioni: *See*—  
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- Rix, Albert, to Olympia Werke A.G. Adjustable type lever action. 2,918,159, 12-22-59, Cl. 197—17.
- Rixson, Oscar C., Co., The: *See*—  
Ellis, David H., and Mielke. 2,909,801.  
Noltin, Frederick, and Martino. 2,887,194.
- Rizer, Floyd R., 20% to L. Vigne. Arc welding electrode holder with safety shutoff. 2,894,086, 7-7-59, Cl. 200—51.
- Rizer, Ralph B., and E. K. Landis. Nose initiator mounting. 2,871,787, 2-8-59, Cl. 102—70.2.
- Rizzatti, Frank, and J. D. Callahan, to Burleigh Brooks Inc. Quick mounting means for photographic cameras. 2,880,490, 4-7-59, Cl. 24—263.
- Rizzi, Luigi: *See*—  
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- Rizzitano, Fortunato J., to United States of America, Army. Collapsible plunger head. 2,900,075, 8-18-59, Cl. 207—6.
- Rizzo, Salvatore F., to Home Heating Devices, Inc. Heat economizer for small units. 2,882,023, 4-14-59, Cl. 257—2.
- Rizzuto, Angelo A. Foldable platform extension. 2,918,985, 12-29-59, Cl. 182—223.
- Rizzuto, Anthony: *See*—  
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- Rizzuto, Charles, to A. Rizzuto. Baby carriage brake mechanism. 2,873,820, 2-17-59, Cl. 188—20.
- Roach, James R.: *See*—  
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- Roach, James R., and J. P. Dilworth, to The Texas Co. Lubricating grease comprising methylchlorophenyl silicone polymer thickened with a high melting diazo compound. 2,880,176, 3-31-59, Cl. 252—49.6.
- Roach, James R., and J. P. Dilworth, to The Texas Co. EP additive for mixed lithium-calcium base greases. 2,886,526, 5-12-59, Cl. 252—40.
- Roach, James R., and J. P. Dilworth, to Texaco Inc. Lubricating greases containing polymerized dihydroquinolines. 2,908,646, 10-13-59, Cl. 252—42.1.
- Road, Richard A., to Duncan Electric Co., Inc. Insulated potential coils. 2,912,627, 11-10-59, Cl. 317—158.
- RO-AN Heat Reclaimer Corp.: *See*—  
Heller, Anton H. 2,890,862.
- Roan, Henry A. Variable valve timing mechanism for engines. 2,880,711, 4-7-59, Cl. 123—90.
- Roan, Henry A. Variable valve timing for overhead cam engines. 2,880,712, 4-7-59, Cl. 123—90.
- Roat, Howard L.: *See*—  
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- Robar, Garret D., to Vandercrook & Sons, Inc. Plate mounting device. 2,908,319, 10-13-59, Cl. 154—1.
- Robards, Preston O.: *See*—  
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- Robards, Preston O., to Equipment Research Corp. Jumper for interconnecting power control conductors of railway diesel units and the like. 2,869,091, 1-13-59, Cl. 339—29.



- Robb, Adrian J. Device for use in carrying golf clubs. 2,887,137, 5-19-59, Cl. 150-1.5.
- Robb, Alexander L.: See—
- Hodges, William C., and Robb. 2,873,502.
- Robb, Deloss H.: See—
- Rivers, Richard D., and Robb. 2,908,348.
- Robb, Frank B.: See—
- Robb, John F. and F. B. 2,872,007.
- Robb, John F. and F. B., to J. W. Menhall. Ticket dispensing parking meter. 2,872,007, 2-3-59, Cl. 194-7.
- Robb, Walter Y., to Crompton & Knowles Loom Works. Pile fabric loom and pile wire therefor. 2,868,231, 1-13-59, Cl. 139-46.
- Robbers, James A.: See—
- Ellis, John R. B., Robbers, and Rossi. 2,904,592.
- Robbie, Kenneth A.: See—
- Solley, Douglas A., Jr., and Robbie. 2,900,807.
- Robbie, Kenneth A., to General Electric Co. Refrigerator cabinet. 2,867,095, 1-6-59, Cl. 62-285.
- Robbins, Albert A., to Kwik-Kold of America, Inc. Beverage cooling means. 2,882,691, 4-21-59, Cl. 62-4.
- Robbins, Albert A. Folding type chemical freezing package. 2,882,692, 4-21-59, Cl. 62-4.
- Robbins, Albert A., to Kwik-Kold of America, Inc. Chemical freezing package. 2,898,744, 8-11-59, Cl. 62-4.
- Robbins, Albert A., Kwik-Kold of America, Inc. Method of forming a cooling package. 2,907,173, 10-6-59, Cl. 62-4.
- Robbins, Albert A., to Kwik-Kold of America, Inc. Unit type chemical freezing package. 2,916,886, 12-15-59, Cl. 62-4.
- Robbins, Astifino, 50% to W. J. Amburgey. Fire alarm. 2,898,426, 8-4-59, Cl. 200-142.
- Robbins, Azor D. Body supports. 2,886,031, 5-12-59, Cl. 128-78.
- Robbins, Clyde F.: See—
- Nolden, William F., and Robbins. 2,878,368.
- Nolden, William F., and Robbins. 2,896,034.
- Nolden, William F., and Robbins. 2,908,776.
- Robbins, Clyde F., to Cutler-Hammer, Inc. Driving and positioning mechanism for drum type controller. 2,908,175, 10-13-59, Cl. 74-143.
- Robbins, Dewey H., to Fisher Flouring Mills Co. Method of processing wheat. 2,884,327, 4-28-59, Cl. 99-80.
- Robbins, Donald A.: See—
- Taylor, Clair A., and Robbins. 2,877,484.
- Robbins, Earl R., to General Electric Co. Waveguide system and method. 2,877,410, 3-10-59, Cl. 324-58.5.
- Robbins, Edward S., to Robbins Floor Products, Inc. Extrusion graining process. 2,914,807, 12-1-59, Cl. 18-48.8.
- Robbins Floor Products, Inc.: See—
- Robbins, Edward S. 2,914,807.
- Robbins, Frederick P. Spring binder. 2,909,179, 10-20-59, Cl. 129-24.
- Robbins, James S. Cable spreading tool. 2,881,582, 4-14-59, Cl. 57-3.5.
- Robbins, James S., to Goodman Mfg. Co. Rotary tunneling machine having ratcheting advancing and retracting means. 2,898,742, 8-11-59, Cl. 61-84.
- Robbins, Kenneth C.: See—
- Grant, Norman H., and Robbins. 2,886,489.
- Grant, Norman H., and Robbins. 2,893,920.
- Robbins, Kenneth C., to Armour and Co. Intrinsic factor preparation. 2,910,405, 10-27-59, Cl. 167-74.
- Robbins, Kenneth C., and N. H. Grant, to Armour and Co. Process for preparing pankrin. 2,871,165, 1-27-59, Cl. 195-63.
- Robbins, Kenneth C., and N. H. Grant, to Armour and Co. Preparation of uricase. 2,878,161, 3-17-59, Cl. 195-66.
- Robbins, Leo, and J. Bendror, to Printing Industries Equipment Inc. Book rounding and backing machine. 2,911,659, 11-10-59, Cl. 11-5.
- Robbins, Leroy V., Jr., and E. J. Newchurch, to Esso Research and Engineering Co. Hydrocarbon conversion process. 2,895,900, 7-21-59, Cl. 208-72.
- Robbins, Leroy V., Jr., and L. A. Nicolai, to Esso Research and Engineering Co. Regeneration of hydroforming catalysts containing sulfur inactivating deposits. 2,905,631, 9-22-59, Cl. 208-136.
- Robbins, Maurice A., Jr., to General Aniline & Film Corp. Film spool holding device for cameras. 2,868,472, 1-13-59, Cl. 242-71.
- Robbins & Myers, Inc.: See—
- Bourke, John D. 2,874,643.
- Bourke, John D., and Comer. 2,915,979.
- Michie, John S. 2,896,480.
- Michie, John S., and Springer. 2,871,793.
- Weed, Herman R. 2,901,695.
- Robbins, Noel. Surgical handpiece. 2,881,763, 4-14-59, Cl. 128-355.
- Robbins, Noel. Surgical flexible cable support. 2,881,998, 4-14-59, Cl. 248-70.
- Robbins, Ollie C. Portable horizontal drill. 2,868,043, 1-13-59, Cl. 77-7.
- Robbins, Omer E., Co.: See—
- Lee, Lloyd L. 2,890,518.
- Robbins, Sam, Inc.: See—
- Robbins, Samuel B. 2,903,613.
- Robbins, Samuel B. 2,903,681.
- Robbins, Samuel B., to Sam Robbins, Inc. Apparatus for and method of wave guide energy transmission modulation, control and cut-off. 2,903,613, 9-8-59, Cl. 815-3.
- Robbins, Samuel B., to Sam Robbins, Inc. Warning device and signal. 2,903,681, 9-8-59, Cl. 340-220.
- Robbins, Thomas E., Jr.: See—
- Leston, Gerd, and Robbins. 2,884,471.
- Robbins, Wilbur, and G. S. Jenkins, to National Mine Service Co. Continuous mining by cutting and crushing. 2,872,169, 2-3-59, Cl. 262-7.
- Robbins, Wilbur, and C. C. Conway, to National Mine Service Co. Steering-by-driving control mechanism. 2,890,934, 6-9-59, Cl. 262-7.
- Robbins, William K. Three piece separable section chain connector and the like. 2,877,621, 3-17-59, Cl. 59-88.
- Robedee, Helen M.: See—
- Robedee, Lee C. 2,898,198.
- Robedee, Lee C.,  $\frac{1}{4}$  to H. M. Robedee,  $\frac{1}{4}$  to V. L. and A. F. Rioux,  $\frac{1}{4}$  to F. C. and W. F. Moran, and  $\frac{1}{4}$  to D. E. and J. E. Ziemiński. Waste disposal device. 2,898,198, 8-4-59, Cl. 23-252.
- Roeder, Andries G., and T. de Jong, to North American Phillips Co., Inc. Coil system comprising a slidable-core coil. 2,887,666, 5-19-59, Cl. 336-75.
- Robell, John, M. Steinberg, and E. B. Jones to Guggenheim Brothers (1949 Firm). Process for the production of anhydrous hydrazine. 2,878,103, 3-17-59, Cl. 23-190.
- Roberge, Joseph D.: See—
- Cannon, Charles E., Jr., and Roberge. 2,906,016.
- Roberson, Cletis L., and R. L. Tiede, to Owens-Corning Fiberglas Corp. Level indicator and controller. 2,891,686, 6-23-59, Cl. 214-18.2.
- Roberson, Keith, and E. H. Mossner, to The Dow Chemical Co. Method of preparing molten magnesium alloy for casting. 2,906,619, 9-29-59, Cl. 75-163.
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- Ortusi, Antoine J., and Robert. 2,913,721.
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- Robert, Jacques G.: See—
- Jacob, Robert M., and Robert. 2,877,224.
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- Gailliot, Paul, Robert, and Gaudechon. 2,891,952.
- Robert, Roger A., and A. M. E. Henault; said Henault assor. to said Robert. Remote control aircraft system. 2,886,261, 5-12-59, Cl. 244-17.25.
- Robertson, Frederic A., and H. T. Bright, to Robertson Mfg. Co. Wheel adjustment for mowers. 2,879,074, 3-24-59, Cl. 280-43.
- Robertson Mfg. Co.: See—
- Robertson, Frederic A., and Bright. 2,879,074.
- Roberts, Aaron. Automatic log feeding and sawing apparatus. 2,889,858, 6-9-59, Cl. 143-46.
- Roberts, Aaron G., W. A. Crouse, and R. S. Pizer, to United States of America, Navy. Apparatus for measuring abrasion resistance. 2,907,200, 10-6-59, Cl. 73-7.
- Roberts, Albert O.: See—
- Rudnicki, William E., and Roberts. 2,894,790.
- Roberts, Albert O., to Ford Motor Co. Vehicle steering gear. 2,885,904, 5-12-59, Cl. 74-499.
- Roberts, Albert W.: See—
- Dahl, Leif A., and Roberts. 2,912,924.
- Roberts Brass Mfg. Co., The: See—
- Green, Arthur J. 2,912,870.
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- Roberts, Bruce, to Armour Research Foundation of Illinois Institute of Technology. Magnetic tape recording equipment. 2,873,926, 2-17-59, Cl. 242-55.12.
- Roberts, Bruce, to Dictaphone Corp. Dictation apparatus. 2,900,191, 8-18-59, Cl. 274-4.
- Roberts, Carl E., and J. P. Swed, to E. I. du Pont de Nemours and Co. Method for the preparation of seized metal-stranded cable. 2,903,843, 9-15-59, Cl. 57-160.
- Roberts, Carleton W.: See—
- McBee, Earl T., Idol, and Roberts. 2,911,448.
- McBee, Earl T., Roberts, and Wilson. 2,908,710.
- Roberts, Carleton W., and D. H. Haigh, to The Dow Chemical Co. Hexachlorocyclopentadiene adduct with N,N'-methylenebis acrylamide. 2,908,712, 10-13-59, Cl. 260-557.
- Roberts, Charles B. Stopper for ampoules and the like. 2,881,937, 4-14-59, Cl. 215-76.
- Roberts, Charles H. Anti-skid mechanism for aircraft landing wheels. 2,919,162, 12-29-59, Cl. 303-21.
- Roberts, Charles W. Electronic talking manikin. 2,871,593, 2-3-59, Cl. 40-28.3.
- Roberts, Clinton W. Foldable structural member. 2,876,872, 3-10-59, Cl. 189-34.
- Roberts, David G.: See—
- Davies, Thomas T., and Roberts. 2,915,461.
- Roberts, Edward H., to General Electric Co. Automatic ice maker. 2,907,183, 10-6-59, Cl. 62-233.
- Roberts, Elliott J., to Dorr-Oliver Inc. Producing sulphur dioxide gas. 2,867,506, 1-6-59, Cl. 23-177.
- Roberts, Elwyn, to Minister of Supply, in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Process for the production of guanidine and derivatives thereof. 2,884,437, 4-28-59, Cl. 260-459.
- Roberts, Ernest E., and C. A. Shope, to Phillips Petroleum Co. Press for consolidation of material under pressure. 2,889,578, 6-9-59, Cl. 18-16.
- Roberts, Frank B. Box filling apparatus. 2,908,475, 10-13-59, Cl. 249-59.



- Roberts, Frank S. Process of producing rubber latex dispersion containing rubber crumb granules. 2,882,327, 4-14-59, Cl. 260-723.
- Roberts, Fred J.: *See*—  
Goodman, Robert B., and Roberts. 2,884,846.
- Roberts, Fred T.: *See*—  
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- Roberts, Fred T. Flexible hose and method of making the same. 2,891,581, 6-23-59, Cl. 138-55.
- Roberts, Fred T. and R. E. Hose. 2,897,839, 8-4-59, Cl. 138-56.
- Roberts, Fred T. and R. E. Hose and method of making same. 2,897,840, 8-4-59, Cl. 138-56.
- Roberts, Frederick S. Gasoline economizer valve. 2,884,954, 5-5-59, Cl. 137-625.37.
- Roberts, Frederick W.: *See*—  
Flower, Guiles, Jr., Roberts, and Rowe. 2,898,112.
- Roberts, Frederick W., and J. R. Montgomery, to Dictaphone Corp. Portable dictation apparatus. 2,894,700, 7-14-59, Cl. 242-55.13.
- Roberts, George A., to Vanadium-Alloys Steel Co. Wrought machinable tool steels. 2,914,400, 11-24-59, Cl. 75-123.
- Roberts, George A., and J. C. Hamaker, Jr., to Vanadium-Alloys Steel Co. Heat treatment of steel. 2,893,902, 7-7-59, Cl. 148-12.
- Roberts, George L., Jr., to American Cyanamid Co. Crystallization resistant phthalocyanines. 2,891,964, 6-23-59, Cl. 260-314.5.
- Roberts, Glendon H., to Detroit Stamping Co. Clamp device. 2,903,776, 9-15-59, Cl. 24-248.
- Roberts, Harold P., to Chemetron Corp. Mechanical timer control for fire extinguishing system. 2,878,879, 3-24-59, Cl. 169-11.
- Roberts, Harold P.: *See*—  
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- Roberts, Harold P., and D. W. Hayes, to The Goodyear Tire & Rubber Co. Process for pelletizing dry rubber accelerators. 2,888,444, 5-26-59, Cl. 260-79.5.
- Roberts, Harold P., and R. O. Bair, to The Goodyear Tire & Rubber Co. Process for removing hydrochloride from rubber hydrochloride solutions. 2,917,567, 12-15-59, Cl. 260-771.
- Roberts, Henry B., to Roberts Industries. Portable chicken and animal feed mixing and dispensing means. 2,872,166, 2-3-59, Cl. 259-9.
- Roberts, Howard C., to Koehring Co. Load-measuring device. 2,880,985, 4-7-59, Cl. 265-27.
- Roberts Industries: *See*—  
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- Roberts, James G. Food product and method of making the same. 2,878,126, 3-17-59, Cl. 99-117.
- Roberts, James R.: *See*—  
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- Roberts, James R., to Weyerhaeuser Timber Co. Method of and means for felting with variable suction. 2,912,723, 11-17-59, Cl. 19-156.
- Roberts, John A.: *See*—  
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- Roberts, John S.: *See*—  
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- Roberts, John W., to Westinghouse Electric Corp. Electrostatic precipitators. 2,869,678, 1-20-59, Cl. 183-7.
- Roberts, Leonard E., and E. Evenson, to American Tapered Wings, Inc. Contouring machine. 2,870,687, 1-27-59, Cl. 90-13.
- Roberts, Louis W., to Bomac Laboratories Inc. Microwave oscillator device. 2,879,438, 3-24-59, Cl. 315-3.5.
- Roberts Mfg. Co.: *See*—  
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- Roberts, Martin, to Don Baxter, Inc. Flow control valve. 2,913,000, 11-17-59, Cl. 137-525.
- Roberts, Mary A. Scribing device. 2,872,735, 2-10-59, Cl. 33-95.
- Roberts, Melvin F., to United States of America, Army. Automatic spinning machine. 2,902,963, 9-8-59, Cl. 113-52.
- Roberts, Miron J.: *See*—  
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- Roberts, Ray J. D., to C. D. Hummel, Sr. Circuit breaker. 2,913,552, 11-17-59, Cl. 200-115.5.
- Roberts, Raymond A., Jr., to Tinnerman Products, Inc. Closure fastener. 2,883,228, 4-21-59, Cl. 292-256.71.
- Roberts, Raymond A., Jr., to Tinnerman Products, Inc. Selenium and like rectifier stack. 2,911,575, 11-3-59, Cl. 317-234.
- Roberts, Raymond V. Wrestling headgear. 2,886,818, 5-19-59, Cl. 2-3.
- Roberts, Richard B.: *See*—  
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Hafstad, Lawrence R., and Roberts. 2,906,886.  
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- Roberts, Richard W.: *See*—  
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- Roberts, Rolla W. Closing drive for C clamp. 2,907,361, 10-6-59, Cl. 144-305.
- Roberts, Russell R.: *See*—  
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- Roberts, Shepard, to General Electric Co. Shear type piezo-electric device. 2,902,545, 9-1-59, Cl. 179-100.41.
- Roberts, Sidney, to Micromatic Machine Corp. Drill press jigs and accessories therefor. 2,877,672, 3-17-59, Cl. 77-62.
- Roberts, Viola V. Fluid-pressure pump. 2,893,325, 7-7-59, Cl. 103-234.
- Roberts, Walter Van B.: *See*—  
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- Roberts, William B., to Sarkes Tarzian, Inc. Selenium rectifier. 2,873,414, 2-10-59, Cl. 317-241.
- Roberts, William C., and H. Mendelson, to Radio Corp. of America. Dial indicator. 2,885,992, 5-12-59, Cl. 116-124.4.
- Roberts, William E. Tree limb shaking device. 2,867,964, 1-13-59, Cl. 56-328.
- Roberts, William J., to Pennsylvania Industrial Chemical Corp. Method of purifying polymer solutions. 2,891,933, 6-23-59, Cl. 260-82.
- Roberts, William L., to Westinghouse Electric Corp. Image reproduction system. 2,871,385, 1-27-59, Cl. 313-66.
- Roberts, William L., and J. W. Coltman, to Westinghouse Electric Corp. Image intensifier. 2,875,349, 2-24-59, Cl. 250-213.
- Roberts, William W., Jr., to Chemetron Corp. Method for producing hydrogen sulfide by synthesis. 2,876,070, 3-3-59, Cl. 23-181.
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- Robertson Brothers, Inc.: *See*—  
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- Robertson, Dale N., to The Dow Chemical Co. 2,3-dichloro-N-(piperonylidene) aniline. 2,876,220, 3-3-59, Cl. 260-240.
- Robertson, Dale N., to The Dow Chemical Co. Nitroethylenes. 2,899,429, 8-11-59, Cl. 260-240.
- Robertson, Dale N., to The Dow Chemical Co. Nitrogenous compounds. 2,914,560, 11-24-59, Cl. 260-566.
- Robertson, Dale N., to The Dow Chemical Co. Hydroxynitro-stilbenes. 2,914,570, 11-24-59, Cl. 260-619.
- Robertson, Dale N., to The Dow Chemical Co. Tetrahydroxyprans. 2,916,501, 12-8-59, Cl. 260-345.9.
- Robertson, Dale N., and M. B. Chenoweth, to The Dow Chemical Co. Propynyl phenylethylamines and their halogen acid salts. 2,884,455, 4-28-59, Cl. 260-570.8.
- Robertson, Dudley L.: *See*—  
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- Robertson, Earl M., and J. A. Van Allan, to Eastman Kodak Co. Photosensitization of vinylaliphthalate polymers. 2,870,011, 1-20-59, Cl. 96-91.
- Robertson, Edwin J., and J. B. Craine, to Wilson & Co., Inc. Ham package and support therefor. 2,876,114, 3-3-59, Cl. 99-174.



- Robertson, Evans, and O. Langhans, to Pipe Line Service Corp. Concrete coating machine. 2,890,837, 6-16-59, Cl. 239-215.
- Robertson, Frank A. Thumb tack tool. 2,896,211, 7-28-59, Cl. 1-49.8.
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- Robertson, Frederick W., to General Electric Co. Square tubing cutoff tool. 2,908,328, 10-13-59, Cl. 164-47.
- Robertson, George H., to Bell Telephone Laboratories, Inc. Virtual cathode stabilization means. 2,903,580, 9-8-59, Cl. 250-27.
- Robertson, George H., to Bell Telephone Laboratories, Inc. Electron discharge device. 2,905,852, 9-22-59, Cl. 313-346.
- Robertson, George L., to Robertson Brothers, Inc. Apparatus for straightening and delivering paper sheets with moist paste therebetween. 2,884,245, 4-28-59, Cl. 271-87.
- Robertson, H. H., Co.: See—  
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- Robertson, Jack B., and R. Volpone, to United States of America, Navy. Electron tube protective device. 2,899,483, 8-11-59, Cl. 174-138.
- Robertson, James J.: See—  
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- Robertson, James J., to The Firestone Tire & Rubber Co. Copolymerization of chlorotrifluoroethylene and an alkyl vinyl ether. 2,905,660, 9-22-59, Cl. 260-87.5.
- Robertson, James M., to The Texas Co. Method and apparatus for determining, and for maintaining constant, the proportions of a flowing fluid mixture. 2,868,216, 1-13-59, Cl. 137-9.
- Robertson, John D., to Mount Hope Machinery Co. Expanding and contracting rolls. 2,893,662, 8-11-59, Cl. 26-63.
- Robertson, Leon. Collapsible tube dispensing support. 2,880,911, 4-7-59, Cl. 222-105.
- Robertson, Melbourne L., to Gulf Oil Corp. Electrical control apparatus. 2,892,097, 6-23-59, Cl. 250-233.
- Robertson, Oliver W. Pressure seal for containers. 2,907,492, 10-6-59, Cl. 220-81.
- Robertson, P. L., Mfg. Co. Ltd.: See—  
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- Robertson Photo-Mechanix, Inc.: See—  
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- Robertson, Richard C., to Charles Bruning Co., Inc. Rotary printer with sheet separating device. 2,906,189, 9-29-59, Cl. 95-77.5.
- Robertson, Sloan D., to Bell Telephone Laboratories, Inc. Fineline phase shifter. 2,907,959, 10-6-59, Cl. 333-33.
- Robertson, Theodore A. Baby food warmer. 2,912,115, 11-10-59, Cl. 211-74.
- Robertson, W. H. A., & Co. Ltd.: See—  
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- Robertson, William E. Method of reconditioning full-fashion knitting machines. 2,904,979, 9-22-59, Cl. 66-110.
- Robertson, William G., to Rotronic Corp. Ltd. Coil winding apparatus for odd-shaped coils and the like. 2,877,807, 3-17-59, Cl. 140-92.2.
- Robeson, Charles D., and A. J. Chechak, to Eastman Kodak Co. Preparation of 4-octene-2,7-dione. 2,904,493, 9-15-59, Cl. 260-593.
- Robeson, Max O., to Celanese Corp. of America. Production of anhydroenneaheptitol. 2,885,408, 5-5-59, Cl. 260-345.9.
- Robideau, Richard P. Knock down mop cleaner and dust collector. 2,888,704, 6-2-59, Cl. 15-257.
- Robie, Norman P., to Electro Refractories & Abrasives Corp. Abrasive material and method of making same. 2,877,104, 3-10-59, Cl. 51-308.
- Robilliart, Michel. Co-enzyme A and method of conserving the same. 2,917,434, 12-15-59, Cl. 167-65.
- Robineau, Doria N., to The Poly-Seal Corp. Bottle pipette closure for liquid containers. 2,913,017, 11-17-59, Cl. 141-24.
- Robinette, Hillary, Jr. Starch modified by hydantoins. 2,880,107, 3-31-59, Cl. 106-211.
- Robinette, Hillary, Jr. Method of tissue filling. 2,880,134, 3-31-59, Cl. 167-49.5.
- Robinette, Spurgeon L., Jr., and C. L. Dotson, to Southern Research Institute. Apparatus for testing metals and test specimen for use therein. 2,917,920, 12-22-59, Cl. 73-95.
- Robins, A. H., Co., Inc.: See—  
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- Robins, Erford E.: See—  
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- Robins, Howard M., to Zenith Radio Corp. Signal-translating apparatus. 2,876,299, 3-3-59, Cl. 179-171.
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- Robinson, Albert P. Stairway construction. 2,909,918, 10-27-59, Cl. 72-96.
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- Robinson, Alice G. Containers, such as boxes, baskets and the like. 2,869,769, 1-20-59, Cl. 224-46.
- Robinson, Alvin E. Archer's finger protector. 2,903,701, 9-15-59, Cl. 2-21.
- Robinson, Andrew. Low pressure indicator for automotive vehicle tires. 2,868,908, 1-13-59, Cl. 200-61.25.
- Robinson, Art L., to Merla Tool Corp. Well flow valve devices. 2,894,793, 7-14-59, Cl. 309-23.
- Robinson, Arthur A.: See—  
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- Robinson, Arthur G. G. H., to E. K. Cole, Ltd. Aerial assembly. 2,884,630, 4-28-59, Cl. 343-756.
- Robinson, Bruce E.: See—  
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- Robinson, Charles F., to Consolidated Electrodynamics Corp. Chromatography. 2,875,606, 3-3-59, Cl. 73-23.
- Robinson, Charles T.: See—  
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- Robinson, Charles T., to Cumberland Case Co. Double action automatic watering valve. 2,868,222, 1-13-59, Cl. 137-408.
- Robinson, Charles V., and F. X. Masse. Plungers for hypodermic syringes and the like. 2,886,034, 5-12-59, Cl. 128-218.
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- Robinson Clay Products Co., The: See—  
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- Robinson, Cyril: See—  
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- Robinson, David. Closure devices. 2,903,033, 9-8-59, Cl. 150-10.
- Robinson, David, E. E. Mitchell, T. T. Johnson, and R. W. Samsel, to General Electric Co. Method and apparatus for mechanically storing electrical information. 2,912,678, 11-10-59, Cl. 340-174.
- Robinson, Eliot. Support brackets. 2,876,978, 3-10-59, Cl. 248-245.
- Robinson, Elvin B., to Ideal Industries, Inc. Flyer. 2,873,571, 2-17-59, Cl. 57-117.
- Robinson, Eric E., to Rotax Ltd. Protective apparatus for electric current distributing systems. 2,869,067, 1-13-59, Cl. 322-36.
- Robinson, Eric E., to Rotax Ltd. Excitation means for alternating electric current generators. 2,873,420, 2-10-59, Cl. 322-27.
- Robinson, Frank A.: See—  
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- Robinson, Frederick C., and R. A. Grouse, to A. H. Hunt (Capacitors) Ltd. Electrical capacitors. 2,919,390, 12-29-59, Cl. 317-260.
- Robinson, George L., to Blaw-Knox Co. Replaceable support for refractory lining of furnace doors. Re. 24,606, 2-24-59, Cl. 110-173.
- Robinson, George L. Corner bead. 2,904,856, 9-22-59, Cl. 20-74.
- Robinson, George W., to Studebaker-Packard Corp. Method of joining two panels of an automobile trunk lid or door or the like by welding. 2,889,619, 6-9-59, Cl. 29-475.
- Robinson, Gerald: See—  
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- Robinson, Gerald, to General Aniline & Film Corp. Vinyl lower alkyl ether-maleic anhydride copolymer as a pesticide solubilizer. 2,872,369, 2-3-59, Cl. 167-42.
- Robinson, Glen, and L. A. Davies, to Camera Vision Productions, Inc. Dual camera unit. 2,883,903, 4-28-59, Cl. 88-16.
- Robinson, Harold A., to The Dow Chemical Co. Galvanic anode. 2,895,893, 7-21-59, Cl. 204-197.
- Robinson, Harold K.: See—  
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- Robinson, Harris A., to Radio Corp. of America. Oscillator control system. 2,875,337, 2-24-59, Cl. 250-36.
- Robinson, Harris A., to Radio Corp. of America. Frequency control system. 2,888,562, 5-26-59, Cl. 250-36.
- Robinson, Harry A. Power driven lawn rake. 2,898,724, 8-11-59, Cl. 56-27.
- Robinson, Harry F., to Coleram Metal Products Co. Demountable shelf structure. 2,912,119, 11-10-59, Cl. 211-136.



- Robinson, Helen M.: *See*—  
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- Robinson, Herbert L.: *See*—  
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- Robinson, Herbert T., and V. H. Jungjohann, to Eastman Kodak Co. Slide holders and magazines therefor. 2,919,021, 12-29-59, Cl. 206-62.
- Robinson, Herbert W., to Firth Brown Tools Ltd. Milling cutter. 2,914,838, 12-1-59, Cl. 29-105.
- Robinson, Herman P., to United States of America, Atomic Energy Commission. Electronic analog computer for determining radioactive disintegration. 2,894,688, 7-14-59, Cl. 235-184.
- Robinson-Houchin, Inc.: *See*—  
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- Robinson, Howard A., to Hugh J. Baker & Co. Pallet. 2,868,487, 1-13-59, Cl. 248-120.
- Robinson, Ivan M.: *See*—  
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- Robinson, James, and K. Court, to Vickers Inc. Single station variable length stroke motor control system. 2,918,902, 12-29-59, Cl. 121-38.
- Robinson, James M., and S. A. Anderson, to Amana Refrigeration, Inc. Refrigerator door with trays. 2,877,077, 3-10-59, Cl. 312-248.
- Robinson, James M., D. A. Lewis, and L. J. Greshel, to North Electric Co. Base for telephone substation set. 2,912,513, 11-10-59, Cl. 179-100.
- Robinson, John D., to The Cleveland Twist Drill Co. Stud removers. 2,912,890, 11-17-59, Cl. 81-53.
- Robinson, John L., to Philco Corp. Delay line. 2,867,777, 1-6-59, Cl. 333-30.
- Robinson, John W., to Richmond Engineering Co., Inc. Filters. 2,911,101, 11-3-59, Cl. 210-458.
- Robinson, Joseph. Combined vaporizer and cover for medication jar. 2,887,106, 5-19-59, Cl. 128-198.
- Robinson, Joseph J., Jr., to Marsh Wall Products, Inc. Wallboard fastening means. 2,880,481, 4-7-59, Cl. 20-92.
- Robinson, Joseph J., Jr., and C. F. Story, to Masonite Corp. Process for humidifying hardboard. 2,906,034, 9-29-59, Cl. 34-26.
- Robinson, Joseph N., F. J. L. Miller, and B. McDonnell, to The Consolidated Mining and Smelting Co. of Canada Ltd. Method of producing guanidine nitrate. 2,895,994, 7-21-59, Cl. 260-564.
- Robinson, Joseph N., F. J. L. Miller, and B. McDonnell, to The Consolidated Mining and Smelting Co. of Canada Ltd. Process for the production of melamine and guanidine sulphamate. 2,899,433, 8-11-59, Cl. 260-249.7.
- Robinson, Kenneth R.: *See*—  
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- Robinson, Laurence E.: *See*—  
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- Robinson, Lawrence. Typewriter. 2,901,081, 8-25-59, Cl. 197-194.
- Robinson, Lester L., to Bendix Aviation Corp. Fuel feed and power control device for combustion engines. 2,906,093, 9-29-59, Cl. 60-39.24.
- Robinson Machine Works, Inc.: *See*—  
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- Robinson, Manford J.: *See*—  
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- Robinson, Mattie L. Brassiere strap. 2,870,768, 1-27-59, Cl. 128-510.
- Robinson, Melvin B., and E. S. Harrison, to Pfaudler Permutit Inc. Glassed tube sheet seal. 2,880,018, 3-31-59, Cl. 285-55.
- Robinson, Merton L.: *See*—  
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- Robinson, Miles S., to L-O-F Glass Fibers Co. Device for coating multiple strand yarns. 2,875,727, 3-3-59, Cl. 118-268.
- Robinson, Norman W., and H. G. Flood, to North American Philips Co., Inc. Travelling wave tube. 2,885,592, 5-5-59, 315-3.6.
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- Robinson, Paul C., to Arkell and Smiths. Apparatus for heat sealing a ply of a bag tube. 2,875,673, 3-3-59, Cl. 93-2.
- Robinson, Paul C., and A. L. Staffileno, to Arkell and Smiths. Multiply bag with supplemental sleeve. 2,895,387, 7-21-59, Cl. 93-8.
- Robinson, Paul D. Ellipsograph. 2,913,823, 11-24-59, Cl. 33-30.
- Robinson, Preston, to Sprague Electric Co. Fused salt electrolyte. 2,872,629, 2-3-59, Cl. 317-230.
- Robinson, Preston, to Sprague Electric Co. Ferro magnetic core materials and methods of producing same. 2,873,512, 2-17-59, Cl. 29-182.5.
- Robinson, Preston, to Sprague Electric Co. Transistor manufacture. 2,883,544, 4-21-59, Cl. 250-49.5.
- Robinson, Preston, to Sprague Electric Co. High dielectric constant material. 2,888,737, 6-2-59, Cl. 29-25.35.
- Robinson, Preston, to North American Philips Co., Inc. Magnetic latch assembly. 2,901,278, 8-25-59, Cl. 292-251.5.
- Robinson, Preston, to Sprague Electric Co. Method of forming an adherent oxide film on tantalum and niobium foil. 2,917,419, 12-15-59, Cl. 148-6.3.
- Robinson, Preston, and P. H. Netherwood, to Sprague Electric Co. Sealed housing and indexing means for electrical components. 2,904,618, 9-15-59, Cl. 174-52.
- Robinson, Preston, and P. H. Netherwood, to Sprague Electric Co. Molded capacitors. 2,904,733, 9-15-59, Cl. 317-258.
- Robinson, Ralph O., Jr., to J. S. Lacey. Notch antenna. 2,908,000, 10-6-59, Cl. 343-746.
- Robinson, Raymond G. R.: *See*—  
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- Robinson, Reed A.: *See*—  
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- Robinson, Richard A.: *See*—  
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- Robinson, Richard A., to G. D. Searle & Co. Hydroxyphenalkylaminoalkylindoles and ethers corresponding. 2,908,691, 10-13-59, Cl. 260-319.
- Robinson, Robert C., to Westinghouse Electric Corp. Linear reluctance motor drive. 2,915,654, 12-1-59, Cl. 310-14.
- Robinson, Robert E.: *See*—  
Mador, Irving L., and Robinson. 2,915,562.  
Nobis, John F., and Robinson. 2,914,578.
- Robinson, Robert E., and J. F. Nobis, to National Distillers and Chemical Corp. Preparation of dialkoxy alkyl derivatives of dimers of conjugated olefins. 2,867,656, 1-6-59, Cl. 260-533.
- Robinson, Robert E., and E. G. Pritchett, to National Distillers and Chemical Corp. Preparation of dimethylaluminum hydride. 2,915,542, 12-1-59, Cl. 260-448.
- Robinson, Ronald R.: *See*—  
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- Robinson, Roy H. Rackets for batting games. 2,878,020, 3-17-59, Cl. 273-73.
- Robinson, Russell S. Ammunition belt feed system for automatic firearms. 2,875,671, 3-3-59, Cl. 89-33.
- Robinson, Samuel A.: *See*—  
Stineman, Jacob W., Jr., and Robinson. 2,894,313.
- Robinson, Samuel C., to Robinson Machine Works, Inc. Means for interlocking electrical connector casings. 2,869,099, 1-13-59, Cl. 339-91.
- Robinson, Sirman. Device for supporting and illuminating Christmas trees. 2,915,620, 12-1-59, Cl. 240-10.
- Robinson, Thomas P., and B. W. Glover, to International Standard Electric Corp. Electrical control circuits. 2,876,861, 3-10-59, Cl. 183-7.
- Robinson, Thomas P., and P. R. Dawkins, to International Standard Electric Corp. Electrical control circuits. 2,881,856, 4-14-59, Cl. 183-7.
- Robinson, Thomas R. Tray loading mechanisms for transferring a sheet unit to a receiving surface. 2,872,189, 2-3-59, Cl. 271-54.
- Robinson, Thomas, & Son Ltd.: *See*—  
Richards, Robert W. B. 2,870,802.
- Robinson, Walter G. Detachable traction device for wheels. 2,900,004, 8-18-59, Cl. 152-226.
- Robinson, William H.: *See*—  
Sensenig, Miles L., and Robinson. 2,880,814.
- Robinson, William H. Dual-purpose closure members. 2,901,140, 8-25-59, Cl. 215-41.
- Robinson, William J.: *See*—  
Carlson, William L., Jr., and Robinson. 2,890,310.
- Robinson, William P., to H. C. Smith Oil Tool Co. Seal protector. 2,907,611, 10-6-59, Cl. 308-187.1.
- Robischung, Philip J., to Hammond Machinery Builders, Inc. Machine tool. 2,900,766, 8-25-59, Cl. 51-148.
- Robishaw, Alces P. Barge. 2,876,726, 3-10-59, Cl. 114-5.
- Robishaw, Alces P., to C. N. Housh. Unitized pipe rack. 2,880,881, 4-7-59, Cl. 211-60.
- Robishaw, Earl J.: *See*—  
Yancey, John R., and Robishaw. 2,886,109.
- Robishaw, Sue: *See*—  
Yancey, John R., and Robishaw. 2,886,109.
- Robison, Hilda S.: *See*—  
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- Robison, James B.: *See*—  
Goldsworthy, William W., and Robison. 2,880,318.
- Robison, Samuel B.: *See*—  
Baldwin, Francis P., and Robison. 2,895,937.
- Robison, Samuel B., and F. P. Baldwin, to Esso Research and Engineering Co. Coating fibers with modified butyl rubber. 2,895,850, 7-21-59, Cl. 117-76.
- Robison, Wilbur and William, said William Robison to H. S. Robison. Electric switches. 2,880,285, 3-31-59, Cl. 200-51.
- Robison, William: *See*—  
Robison, Wilbur and W. 2,880,285.
- Robison, William A., Jr., to Westinghouse Air Brake Co. Electrical relays. 2,901,572, 8-25-59, Cl. 200-93.
- Robitaille, Martial J. Knife honing and sharpening device. 2,885,836, 5-12-59, Cl. 51-214.
- Robitschek, Paul: *See*—  
Schoepfle, Blaine O., Marks, and Robitschek. 2,913,428.
- Robitschek, Paul, and C. T. Bean, to Hooker Chemical Corp. Composition comprising a vinyl monomer and a polyester of a polyhydric alcohol, an unsaturated acid, a saturated acid and a hexahalo cyclopentadiene adduct and laminated article containing same. 2,890,144, 6-9-59, Cl. 154-43.



- Robitschek, Paul, and C. T. Bean, to Hooker Chemical Corp. Composition comprising a vinylidene monomer and an unsaturated polyester containing an adduct of hexahalocyclopentadiene and article incorporated therewith. 2,898,256, 8-4-59, Cl. 154-43.
- Robitschek, Paul, and J. L. Olmstead, to Hooker Chemical Corp. Polymerizable fire resistant polyester composition comprising hexahalocyclopentadiene and antimony trioxide. 2,909,501, 10-20-59, Cl. 260-40.
- Robosonic National Industries Corp.: See—  
Waldman, Herbert. 2,896,945.
- Robotron Corp.: See—  
Rockafellow, Stuart C. 2,874,335.  
Rockafellow, Stuart C. 2,883,579.  
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Rockafellow, Stuart C., and Thomsen. 2,915,635.
- Robotyzer Corp.: See—  
Oxley, LeRoy V., and Blythe. 2,916,128.
- Robra, Helmut, to Schloemann Akt. Method and device for forging multi-throw crankshafts. 2,891,299, 6-23-59, Cl. 29-6.
- Robson, Aubrey H., to American Air Filter Co., Inc. Fuel burner control circuit. 2,879,762, 3-31-59, Cl. 126-110.
- Robson, Brian: See—  
McNeill, Eric, and Robson. 2,872,412.
- Robson, Homer L., to Olin Mathieson Chemical Corp. Spray drying calcium hypochlorite slurry. 2,901,435, 8-25-59, Cl. 252-187.
- Robson, Ian K. M.: See—  
Millidge, Alfred F., and Robson. 2,907,699.
- Robuck, Edmund R., and C. F. Deininger, to Hoffman Electronics Corp. Frequency synthesizer system or the like. 2,914,733, 11-24-59, Cl. 331-39.
- Roby, Horace H., to Roby-Hutton. Drive and transmission for power-driven paddle wheel boat. 2,907,296, 10-6-59, Cl. 115-49.
- Roby-Hutton: See—  
Roby, Horace H. 2,907,296.
- Rocard, Yves, to Compagnie Generale de Telegraphie Sans Fil. Electrical analog computing systems for solving ordinary and partial non-linear differential equations. 2,899,134, 8-11-59, Cl. 235-182.
- Rocard, Yves A., and B. E. Bartels, to Hupp Corp. Infra-red devices and methods. 2,884,345, 4-28-59, Cl. 117-201.
- Rocca, John. Filter means for milk containers and the like. 2,885,084, 5-5-59, Cl. 210-464.
- Rocco, Joseph. Tool holder. 2,875,560, 3-3-59, Cl. 51-232.
- Rocca, Julius P.: See—  
Goering, Hans G., and Rocca. 2,910,458.  
Schneider, Helmut G., Young, and Rocca. 2,876,204.
- Roch, Pierre M., to P. Roch, S.a.r.l. Internal diameter micrometer. 2,881,529, 4-14-59, Cl. 33-176.
- Roch, Pierre, S.a.r.l.: See—  
Roch, Pierre M. 2,881,529.
- Rocha, Henrique A. F., to General Electric Co. Power supply systems. 2,870,380, 1-20-59, Cl. 317-17.
- Rocha, Henrique A. F., to General Electric Co. Time base converter. 2,895,784, 7-21-59, Cl. 346-33.
- Rochar Electronique: See—  
Charbonnier, Roger. 2,870,269.
- Rochas, Paul: See—  
Pinte, Jules, Coupez, and Rochas. 2,893,892.
- Rochat, Jean: See—  
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- Roche, Arthur F.: See—  
Nagle, Floyd B., Rufing, Wright, Kozadiewicz, and Roche. 2,915,482.
- Roche, Charles E., and R. R. Banks, to Air Reduction Co., Inc. Method of electric smelting reducible materials. 2,883,268, 4-21-59, Cl. 23-208.
- Roche, Jean: See—  
Michel, Raymond, and Roche. 2,906,779.
- Roché, Jean A. F., and R. F. Bookmyer, to General Electric Co. Fuel manifold drainage system. 2,881,827, 4-14-59, Cl. 158-36.
- Roche, Melvin E., to Harvard Mfg. Co. Hooked style bed-frame and headboard assembly. 2,883,680, 4-28-59, Cl. 5-279.
- Roche, Melvin E., and L. K. Jackson, to The Harvard Mfg. Co. Bedframe support leg. 2,911,656, 11-10-59, Cl. 5-310.
- Roche, Richard A., G. Muinch, Jr., and F. L. Gagnon, Jr., to Hughes Aircraft Co. Aircraft automatic flight control system. 2,881,991, 4-14-59, Cl. 244-77.
- Rochefort, Leo T. Washing machine. 2,895,319, 7-21-59, Cl. 68-3.
- Rochelle, Robert W., and R. L. Van Allen. Variable frequency magnetic multivibrator. 2,894,250, 7-7-59, Cl. 340-174.
- Rochester Machine Corp.: See—  
Bruce, James H., Sr. 2,878,562.
- Rochester Mfg. Co.: See—  
Hunt, Robert A., and Fribance. 2,867,769.
- Rochester Mfg. Co., Inc.: See—  
Fribance, Austin E., and Hunt. 2,867,768.  
Hastings, Clark L. 2,910,037.  
Hastings, Warren W. 2,914,949.
- Rochester, Nathaniel, J. R. Johnson, G. M. Amdahl, and W. E. Mutter, to International Business Machines Corp. Recognition of recorded intelligence. 2,889,535, 6-2-59, Cl. 340-149.
- Rochester, Roy M., to Deering Milliken Research Corp. Method of and means for compacting fibrous web material. 2,910,732, 11-3-59, Cl. 19-66.
- Rochester, Thomas S.: See—  
Shapiro, Uriel G., and Rochester. 2,897,538.
- Rochluis, Bertram J. Compressor. 2,898,033, 8-4-59, Cl. 230-147.
- Rochluis, Bertram J. Compressor with dual compression chambers. 2,898,034, 8-4-59, Cl. 230-147.
- Rochwite, Seton I. Stereoscopic camera. 2,906,183, 9-29-59, Cl. 95-18.
- Rock, Albin S., to F. L. & J. C. Codman Co. Process of manufacture of buffing elements. 2,882,139, 4-14-59, Cl. 51-293.
- Rock, Albin S., to F. L. & J. C. Codman Co. Buffing wheel. 2,885,834, 5-12-59, Cl. 51-193.
- Rock, Albin S., to F. L. & J. C. Codman Co. Buffing element with metallic center. 2,886,924, 5-19-59, Cl. 51-193.
- Rock, Allan L. Combined wallet, data file and calendar construction. 2,909,202, 10-20-59, Cl. 150-35.
- Rock, Clarence A., to Gadget-Of-The-Month Club, Inc. Selectively controllable, plunger operated, electric switch. 2,911,491, 11-3-59, Cl. 200-61.79.
- Rock, Kingsley C., to Minneapolis-Honeywell Regulator Co. Electric system. 2,877,383, 3-10-59, Cl. 315-202.
- Rock, Kingsley C., Jr., to Minneapolis-Honeywell Regulator Co. Bridge demodulator phase detecting circuit. 2,919,404, 12-29-59, Cl. 324-83.
- Rock, Murray P. Packaging machine. 2,917,883, 12-22-59, Cl. 53-178.
- Rockafellow, Stuart C., to Robotron Corp. Negative hold time circuit. 2,874,335, 2-17-59, Cl. 315-230.
- Rockafellow, Stuart C., to Robotron Corp. Timer for high speed resistance welding operations. 2,883,579, 4-21-59, Cl. 315-84.5.
- Rockafellow, Stuart C., to Robotron Corp. Apparatus and method for producing and using a variable conductive pattern. 2,890,432, 6-9-59, Cl. 338-128.
- Rockafellow, Stuart C., to Robotron Corp. Inspection device for detecting differences in two objects. 2,898,801, 8-11-59, Cl. 88-14.
- Rockafellow, Stuart C., to Robotron Corp. Method for comparing the contour of an article with a standard. 2,899,857, 8-18-59, Cl. 88-14.
- Rockafellow, Stuart C., to Robotron Corp. Three phase to single phase welding method and machine. 2,911,581, 11-3-59, Cl. 321-7.
- Rockafellow, Stuart C., and T. R. Thomsen, to Robotron Corp. High frequency pulse generator. 2,915,635, 12-1-59, Cl. 250-27.
- Rockall, Frederick W., to The General Electric Co. Ltd. Linking mechanisms. 2,899,677, 8-11-59, Cl. 343-757.
- Rockdrill Industries, Inc.: See—  
Gal, Andrew, and Gerber. 2,909,155.
- Rockefeller, George D., Jr.: See—  
Lensner, Herbert W., and Rockefeller. 2,897,406.
- Rockefeller, John W., Jr., to Columbian Art Works. Printing press. 2,909,992, 10-27-59, Cl. 101-76.
- Rocket Jet Engineering Corp.: See—  
Gaylord, John A. 2,870,509.  
Gaylord, John A. 2,894,532.
- Rockett, Jack: See—  
Bruson, Herman A., and Rockett. 2,894,010.
- Rockey, Kenneth O., to GPE Controls, Inc. Polarized light system for web edge control. 2,904,700, 9-15-59, Cl. 250-225.
- Rockford Factories, Inc.: See—  
Negoro, Kaiji. 2,871,523.
- Rockford Medical Foundation: See—  
Krone, Ben W. 2,874,384.
- Rockford Screw Products Co.: See—  
Lilja, Oscar G. 2,905,330.
- Rockland, Louis B. Aerated solid wax composition and process of making it. 2,892,732, 6-30-59, Cl. 106-277.
- Rockland, Louis B., and L. F. Atkinson, to United States of America, Agriculture. Method and apparatus for packaging powders and the like. 2,875,070, 2-24-59, Cl. 99-171.
- Rockland, Louis B., and L. F. Atkinson, to United States of America, Agriculture. Sealing device. 2,889,673, 6-9-59, Cl. 53-112.
- Rockmont Envelope Co.: See—  
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- Rock of Ages Corp.: See—  
White, Ezra L. 2,893,151.
- Rockoff, Joseph, to The Dayton Rubber Co. Textile drafting cot. 2,870,489, 1-27-59, Cl. 19-143.
- Rockoff, Joseph, to The Dayton Rubber Co. Synthetic elastomeric composition containing butadiene-styrene and a rosin soap. 2,894,924, 7-14-59, Cl. 260-27.



- Rockola, David C., to Rock-Ola Mfg. Corp. Phonographs. 2,906,538, 9-29-59, Cl. 274-10.
- Rockola, David C., to Rock-Ola Mfg. Corp. Selectively operable control mechanism for automatic phonographs. 2,909,761, 10-20-59, Cl. 340-162.
- Rock-Ola Mfg. Corp.: *See*—
- Rockola, David C. 2,906,538.
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- Read, Robert C., and Gregor. 2,875,457.
- Rockriver, Clyde R., to Automatic Enterprises, Inc. Measuring and dispensing apparatus. 2,895,652, 7-21-59, Cl. 222-442.
- Rockriver, Clyde R., to Huggins-Young Co., Inc. Coffee brewer. 2,898,843, 8-11-59, Cl. 99-283.
- Rockstrom, Leonard: *See*—
- Aaron, Charles, and Rockstrom. 2,877,959.
- Schmidt, Leon A., and Rockstrom. 2,877,960.
- Rockstrom, Leonard, and C. Aaron, to Cameron Machine Co. Rewinding machine. 2,872,126, 2-3-59, Cl. 242-65.
- Rockstrom, Leonard, and L. A. Schmidt, to Cameron Machine Co. Score-cut slitting mechanism. 2,897,893, 8-4-59, Cl. 164-60.
- Rockware Glass Ltd.: *See*—
- Adams, Frederick W. 2,891,844.
- Rockwell, Adelbert W., Jr., to United Shoe Machinery Corp. Last positioning device for shoe machines. 2,866,988, 1-6-59, Cl. 12-127.
- Rockwell, Albert M., to United Aircraft Corp. Threaded insert having lugs bent into slotted locking ring. 2,877,817, 3-17-59, Cl. 151-5.
- Rockwell, Donald M., A. E. Keeley, and W. D. Joseph, to Prismo Safety Corp. Marker material and method. 2,882,632, 4-21-59, Cl. 40-135.
- Rockwell, Edward A. Hydraulically-operated fluid pressure control means and compensator valves. 2,876,624, 3-10-59, Cl. 60-54.5.
- Rockwell, Edward A. Apparatus for applying intensified fluid pressure. 2,876,626, 3-10-59, Cl. 60-54.5.
- Rockwell, Edward A. Power steering unit. 2,896,463, 7-28-59, Cl. 74-388.
- Rockwell, Edward A. Brake valve mechanism. 2,896,666, 7-28-59, Cl. 137-622.
- Rockwell, Edward A. Power steering system. 2,896,733, 7-28-59, Cl. 180-79.2.
- Rockwell, Edward A. Multiple ratio brake pedal construction. 2,900,054, 8-18-59, Cl. 188-152.
- Rockwell Gesellschaft mit beschränkter Haftung: *See*—
- Christiansen, Heinrich H. C. 2,905,103.
- Stegemann, Werner G. 2,905,163.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Change speed transmission. 2,870,655, 1-27-59, Cl. 74-785.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Steering mechanism. 2,885,022, 5-5-59, Cl. 180-79.2.
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- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Auxiliary wheeled support for vehicles. 2,901,844, 9-1-59, Cl. 37-124.
- Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Cylinder piston assembly with pressure relieving means. 2,902,007, 9-1-59, Cl. 121-38.
- Rockwell, Henry, to United States of America, Navy. Automatic signal locating for magnetic drum recorder. 2,886,398, 5-12-59, Cl. 346-74.
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- Dickerson, John L., and Herring. 2,900,995.
- Johnson, Charles B. 2,898,081.
- March, William A. 2,878,184.
- Pettigrew, David D. 2,876,669.
- Pettigrew, David D. 2,885,897.
- Pettigrew, David D., and Simonelli. 2,887,924.
- Renfro, Anthony W. 2,876,987.
- Starkey, Charles M. 2,906,386.
- Taylor, Charles R. 2,913,990.
- Warrick, Edward C., and Kmetz. 2,888,707.
- Wheelbarger, Albert S. 2,902,872.
- Whipple, Harry O. 2,905,990.
- Rockwell, Norman P.: *See*—
- Bludzius, Irene D., Jucaitis, and Rockwell. 2,876,101.
- Bludzius, Irene D., Rockwell, and Jucaitis. 2,876,104.
- Jucaitis, Pranas, Bludzius, and Rockwell. 2,876,106.
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- Rockwell, Paul D., J. O. Stephenson, and D. D. Babb, to Bendix Aviation Corp. Transceiver for multi-channel radio communication systems. 2,902,596, 9-1-59, Cl. 250-13.
- Rockwell, Ronald J., to Crosley Broadcasting Corp. Electrical measuring instrument. 2,872,643, 2-3-59, Cl. 324-119.
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- Rockwell Spring and Axle Co.: *See*—
- House, Bryan E. 2,886,141.
- Rockwell-Standard Corp.: *See*—
- Bixby, Leo A. 2,890,772.
- Brownner, Nelson R. 2,880,041.
- Crites, Nelson A. 2,878,012.
- Crites, Nelson A. 2,918,271.
- Hammond, Milton B., and Hrusovsky. 2,902,275.
- Herider, Elmer A., and Friesen. 2,892,487.
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- House, Bryan E. 2,871,713.
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- Keese, Beverly W. 2,870,853.
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- Keese, Beverly W., and Williams. 2,915,920.
- Pitts, Kennard, and Herider. 2,893,473.
- Rockwell, Willard F. 2,893,520.
- Scheel, Walther F. 2,892,662.
- Yarne, John L. 2,914,311.
- Rockwell, Willard F., to Rockwell Standard Corp. Air spring emergency brake. 2,893,520, 7-7-59, Cl. 188-176.
- Rockwood, Albert E.: *See*—
- Maki, Jacob K., and Rockwood. 2,907,275.
- Rockwood, Albert E., Jr.: *See*—
- Harmon, George H., and Rockwood. 2,899,141.
- Rockwood, Albert M.: *See*—
- Voorhess, John E., and Rockwood. 2,878,961.
- Rockwood & Co.: *See*—
- Olson, John B. 2,911,946.
- Rockwood, Clifton G.: *See*—
- Snow, Donald L., Kafitz, and Rockwood. 2,880,357.
- Rockwood, Lawrence R.: *See*—
- Strain, Douglas C., and Rockwood. 2,884,505.
- Rockwood Sprinkler Co.: *See*—
- Thomas, Roy L., Jr. 2,874,588.
- Rockwool Aktiebolaget: *See*—
- Kjell-Berger, Sven O. K. 2,888,060.
- Rocky, Joseph F., and F. R. Nissel, to Union Carbide Corp. Chlorine-containing resinous compositions and improved method for processing the same. 2,897,176, 7-28-59, Cl. 260-45.5.
- Rocky Mountain Metal Products Co.: *See*—
- Brunson, Thayer R. 2,883,749.
- Rocwall Co.: *See*—
- Arrighini, Artill, and Van Sickle. 2,882,583.
- Arrighini, Artill, and Van Sickle. 2,896,300.
- Rodale Mfg. Co., Inc.: *See*—
- Schmier, Jacob. 2,905,779.
- Rodda, Sidney, to Siemens Edison Swan Ltd. Photo-electric cells. 2,895,068, 7-14-59, Cl. 313-102.
- Rodder, William, to Blaw-Knox Co. Tube cut-off machine with radially movable rotary cutter. 2,905,243, 9-22-59, Cl. 164-60.
- Rodebaugh, Everett G.: *See*—
- Saylor, Charles P., and Rodebaugh. 2,917,349.
- Roden, Ephraim H.: *See*—
- Mann, Walter J. 2,893,436.
- Rodenacker, Wolf, E. Istel, and R. Schnegg, to Farbenfabriken Bayer Akt. Continuous polymerizing apparatus. 2,889,211, 6-2-59, Cl. 23-283.
- Rodenhouse, Louis N., to Acme Protection Equipment Co. Eyeglass mounting for gas masks. 2,905,172, 9-22-59, Cl. 128-141.
- Rodenhuis, Wijbe, and A. M. J. van der Velden, to North American Philips Co., Inc. Radio receiving apparatus. 2,890,446, 6-9-59, Cl. 340-384.
- Roder, Albert, to NSU Werke Akt. Telescopic shock absorber. 2,867,298, 1-6-59, Cl. 188-88.
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- Roderfeld, Heinrich: *See*—
- Claas, August, Brenner, Roderfeld, and Claas. 2,888,088.
- Roderick, Robert C.: *See*—
- Harder, Alvin E., and Roderick. 2,878,761.
- Rodger, Robert F.: *See*—
- Garscia, Alfons J., and Rodger. 2,897,444.
- Rodgers, Clifford J., Jr., to Gulf Oil Corp. Apparatus for control of flow through the annulus of a dual-zone well. 2,870,843, 1-27-59, Cl. 166-115.
- Rodgers, Dominick. Artificial Christmas trees. 2,911,748, 11-10-59, Cl. 41-15.
- Rodgers, Elbert A. Liquid level and pressure control valve for oil wells. 2,905,246, 9-22-59, Cl. 166-54.
- Rodgers, George F.: *See*—
- Young, De Walt S., and Rodgers. 2,887,515.
- Rodgers, George H. Multiple indicator system with resettable warning signal. 2,917,731, 12-15-59, Cl. 340-213.
- Rodgers, George V. Pulse operated servomechanism. 2,883,662, 4-21-59, Cl. 343-106.
- Rodgers, John A. Lathe attachment. 2,880,767, 4-7-59, Cl. 142-55.
- Rodgers, Joseph, to Bell Telephone Laboratories, Inc. Locking device for straightedges. 2,909,840, 10-27-59, Cl. 33-80.
- Rodgers, Joseph M., and R. W. Leland, to General Motors Corp. Switch operating means. 2,895,026, 7-14-59, Cl. 200-87.
- Rodgers, Otis N., and W. F. Olson, to American Iron & Machine Works Co., Inc. Valves. 2,903,235, 9-8-59, Cl. 251-332.



- Rodgers, Thomas E., to Northrop Aircraft, Inc. Electrolytic solution. 2,884,381, 4-28-59, Cl. 252-62.2.
- Rodgers, Wilber W., to Dover Corp. Loading dock ramp. 2,881,457, 4-14-59, Cl. 14-71.
- Rodgers, Wilber W., to Dover Corp. Loading dock ramp. 2,881,458, 4-14-59, Cl. 14-71.
- Rodi & Wienerberger Aktiengesellschaft: See—  
Bartholoma, Helwig and W. 2,918,785.
- Rodin, Eugene. Restraining device for live bodies. 2,867,483, 1-6-59, Cl. 311-5.
- Rodin, Fritz J. Potato harvester. 2,902,148, 9-1-59, Cl. 209-34.
- Rodis, Franz, G. Hartlapp, and K. Beltz, to Knapsack-Griesheim Aktiengesellschaft. Process for preparing alkali metal triphosphates, alkali metal pyrophosphates and mixtures thereof. 2,893,189, 8-4-59, Cl. 23-107.
- Rodli, Gilbert, to Wald Industries Inc. Sphere dispensing apparatus. 2,870,739, 1-27-59, Cl. 118-308.
- Rodman, Isaac P., to United States of America, Navy. Optimum multiplier phototube bias for low noise. 2,913,585, 11-17-59, Cl. 250-207.
- Rodman, James B., to Weyerhaeuser Timber Co. Apparatus for cutting flattened containers. Re. 24,668, 7-21-59, Cl. 93-58.4.
- Rodman, Sherwin B., to Brubaker Electronics, Inc. Biased diode switching means. 2,882,425, 4-14-59, Cl. 307-88.5.
- Rodnert, Gustav O.: See—  
Nilsson, Nils E., Bjork, and Rodnert. 2,886,646.  
Nilsson, Nils E., Bjork, Rodnert, and Jonsson. 2,909,607.  
Nilsson, Nils E., Rodnert, and Bjork. 2,871,299.
- Rodnon, David. Packages. 2,885,071, 5-5-59, Cl. 206-41.
- Rodrigues, John J. Motor driven syringe. 2,896,621, 7-28-59, Cl. 128-218.
- Rodriguez, Cipriano, to Micro Metalizing Corp. Vacuum plating apparatus. 2,883,959, 4-28-59, Cl. 118-49.
- Rodriguez, Emil, to Jacoby-Bender, Inc. Bracelet end attachment. 2,896,289, 7-28-59, Cl. 24-235.
- Rodriguez Fuentes, Lorenzo. New food product for cattle and process for its manufacture. 2,888,348, 5-26-59, Cl. 99-6.
- Rodriguez, Jim F.: See—  
Murray, Arthur E. 2,898,649.
- Rodriguez, Juan C. L. Portable electric cooking device. 2,893,307, 7-7-59, Cl. 99-421.
- Rodth, Joseph J., to Sealpak Corp. Beverage apparatus. 2,899,886, 8-18-59, Cl. 99-295.
- Rodweeder Sales, Inc.: See—  
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- Rodwick, Frank P., and N. T. Thome, to The Silex Co. Toaster. 2,907,269, 10-6-59, Cl. 99-391.
- Roe, Charles C., to LeTourneau-Westinghouse Co. Alternator. 2,903,641, 9-8-59, Cl. 322-39.
- Roe, Clarence D.: See—  
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- Roe, Ernest: See—  
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- Roe, Lawrence A.: See—  
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- Roe, Rene P. V.: See—  
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- Roe, Walter H. G., to Aktieselskabet Kemovet. Sow milk substitute. 2,895,830, 7-21-59, Cl. 99-7.
- Roe, Willis E., to The Aldon Co. Car replacer. 2,901,982, 9-1-59, Cl. 104-270.
- Roerber, Henry W.: See—  
Reiter, William L., Gartner, and Roerber. 2,872,949.
- Roerber, Henry W., to Sylvania Electric Products Inc. Tube transfer mechanism. 2,868,240, 1-13-59, Cl. 141-65.
- Roerber, Henry W., to Sylvania Electric Products Inc. Cathode tab feed and welder. 2,905,802, 9-22-59, Cl. 219-79.
- Roerber, Henry W., to Sylvania Electric Products Inc. Mica press ram with hydraulically operated punch and stripper means. 2,914,981, 12-1-59, Cl. 83-140.
- Roerber, Henry W., to Sylvania Electric Products Inc. Article transfer mechanism. 2,915,200, 12-1-59, Cl. 214-1.
- Roebliing's, John A., Sons Corp.: See—  
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- Roebuck, Alan K.: See—  
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- Roebuck, Alan K., and B. L. Evering, to Standard Oil Co. Alkylation. 2,897,248, 7-28-59, Cl. 260-683.53.
- Roeck, Eugene C.: See—  
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- Roedel, Milton J.: See—  
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- Roeder, Joseph A., and W. J. Tesche, to Western Electric Co., Inc. Article coating apparatus. 2,902,971, 9-8-59, Cl. 118-11.
- Roeder, Rolf H., to Worthington Corp. Governor. 2,873,105, 2-10-59, Cl. 264-19.
- Roeder, Russell R., Jr., to Huber Industries, Inc. Mounting device with positive clamping and locating jaws providing quick release means. 2,905,427, 9-22-59, Cl. 248-346.
- Roediger, Herman R. and R. R. Curtain rod supporting corner bracket. 2,911,176, 11-3-59, Cl. 248-222.
- Roediger, Joseph C.: See—  
Morris, Kenneth G., Roediger, Newberg, and Sayko. 2,889,296.
- Roediger, Joseph C., and K. G. Morris, to Esso Research and Engineering Co. Method of oxidizing asphalts. 2,906,687, 9-29-59, Cl. 208-5.
- Roediger, Richard R.: See—  
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- Roedter, Henry E. Wall structure. 2,909,917, 10-27-59, Cl. 72-50.
- Roehlen Engraving Works, Inc.: See—  
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- Roehm, Carl L.: See—  
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- Roehm, Charles W., to International Harvester Co. Self energizing belt drive clutch assembly. 2,888,829, 6-2-59, Cl. 74-242.1.
- Roehmann, Ludwig F.: See—  
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- Roehrig, Jonathan R., to National Research Corp. Discriminating plural counter assembly of fibers. 2,874,899, 2-24-59, Cl. 235-92.
- Roehrs, Herbert C.: See—  
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- Roelen, Otto: See—  
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- Roelen, Otto, to Ruhrchemie Aktiengesellschaft. Composition comprising an oxygen-containing polymer of cyclopentadiene and wax. 2,898,316, 8-4-59, Cl. 260-28.5.
- Roepke, Willi, to Loewe Opta A. G. Device for magnetically recording and reproducing sound. 2,871,019, 1-27-59, Cl. 274-4.
- Roesch, Alfred, Jr., to Burroughs Corp. High speed complementing flip flop. 2,885,574, 5-5-59, Cl. 307-88.5.
- Roesch, Ernst: See—  
Eriksen, Merrill K., and Roesch. 2,908,939.
- Roeschmann, Benno K. A. Forceps for removing skin clips. 2,887,110, 5-19-59, Cl. 128-321.
- Roesel, John F. Rotary mower cutter blade structure. 2,898,725, 8-11-59, Cl. 56-295.
- Roeser, Gerald P., to American-Marietta Co., Stoner-Mudge Co. Division. Carboxylic-nitrile-acrylate ester coating composition, process and coated product. 2,873,212, 2-10-59, Cl. 117-103.
- Roeser, Gerald P., to American-Marietta Co., Stoner-Mudge Co. Division. Carboxylic-nitrile-vinyl ether coating compositions, process and coated product. 2,873,212, 2-10-59, Cl. 117-103.
- Roeser, Gerald P., to American-Marietta Co., Stoner-Mudge Co. Division. Vinyl chloride-vinyl acetate copolymer dissolved in solvent mixture containing aromatic hydrocarbon and lactone component. 2,913,430, 11-17-59, Cl. 260-30.4.
- Roeser, Gerald P., to American-Marietta Co., Stoner-Mudge Co. Division. Vinyl chloride-vinyl acetate copolymer dissolved in solvent mixture containing aromatic hydrocarbon and pyrrolidone component. 2,918,443, 12-22-59, Cl. 260-30.2.
- Roeser, John O., to Illinois Tool Works. Impulse switch mechanism. 2,904,661, 9-15-59, Cl. 200-160.
- Roesler, Daniel P. Anchor bolt having sleeves with inclined ends. 2,918,840, 12-29-59, Cl. 85-2.4.
- Roessler, Charles E., Jr., to The Howe Scale Co. Load responsive transmitter. 2,885,198, 5-5-59, Cl. 265-61.
- Roessler, Charles E., Jr., to The Howe Scale Co. Printed circuit digital read-out mechanism for weighing scales. 2,898,419, 8-4-59, Cl. 200-85.
- Roethel, John H. Door lock. 2,867,469, 1-6-59, Cl. 292-279.
- Roethel, John H. Door checking and retaining means. 2,882,548, 4-21-59, Cl. 16-86.
- Roethel, John H. Deck lid latch mechanism. 2,903,285, 9-8-59, Cl. 292-229.
- Roethel, John H. Door lock mechanism. 2,914,352, 11-24-59, Cl. 292-280.
- Roethel, John H. Door lock mechanism. 2,914,353, 11-24-59, Cl. 292-280.
- Roff, William A. Ice fishing device. 2,871,614, 2-3-59, Cl. 43-15.
- Roff, William T., Jr., to J. P. Stevens & Co., Inc. Dyed fibrous glass material and process of dyeing. 2,919,173, 12-29-59, Cl. 8-8.
- Roffman, Eugene, D. Cinaglia, A. Wysoczanski, and A. Brand, III, to United States of America, Army. Electronic sclerometer. 2,885,075, 5-5-59, Cl. 209-72.
- Rogak, Earl D., to Sinclair Refining Co. Heat exchange process. 2,911,796, 11-10-59, Cl. 62-98.
- Rogan Bros.: See—  
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- Rogers, Alan B., and T. C. Gordon, Jr., to Armour and Co. Method of preparing a meat product. 2,876,100, 3-3-59, Cl. 99-107.
- Rogers, Alan B., R. W. Kline, and R. L. Niblack, to Armour and Co. Frozen poultry product and preparation. 2,910,370, 10-27-59, Cl. 99-194.
- Rogers, Alvin, to Idea, Inc. Shingle cutter. 2,914,851, 12-1-59, Cl. 30-272.



- Rogers, Arthur O.: *See*—  
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- Rogers Brothers Corp.: *See*—  
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- Rogers, Cecil P. Method and apparatus for dispensing live aquatic animals. 2,908,105, 10-13-59, Cl. 43-55.
- Rogers, C. E., Co.: *See*—  
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- Rogers, Charles J., to E. I. du Pont de Nemours and Co. Bleaching. 2,898,179, 8-4-59, Cl. 8-108.
- Rogers, Chester E., Jr., to United Shoe Machinery Corp. Component inserting machines having improved feed control. 2,869,129, 1-20-59, Cl. 1-2.
- Rogers, Cyril B.: *See*—  
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- Rogers, Donald G., to Sprague Electric Co. Tantalum wire capacitors. 2,900,579, 8-18-59, Cl. 317-230.
- Rogers, Douglas C., to International Standard Electric Corp. Electron discharge apparatus. 2,889,478, 6-2-59, Cl. 313-82.
- Rogers, Douglas C., to International Standard Electric Corp. Travelling wave tubes. 2,890,370, 6-9-59, Cl. 315-3.5.
- Rogers, Douglas C., to International Standard Electric Corp. Traveling wave tubes. 2,918,593, 12-22-59, Cl. 313-84.
- Rogers, Douglas C., and W. J. Pohl, to International Standard Electric Corp. Travelling wave tubes. 2,871,392, 1-27-59, Cl. 315-3.5.
- Rogers, Douglas C., and P. F. C. Burke, to International Standard Electric Corp. Travelling wave tubes. 2,890,371, 6-9-59, Cl. 315-3.5.
- Rogers, Dow A., Jr., and D. W. Lewis, to Westinghouse Electric Corp. Epoxy-substituted organosilicon compounds and method for preparing the same. 2,883,395, 4-21-59, Cl. 260-348.
- Rogers, Edward F., to Merck & Co., Inc. Imidazole composition for treating coccidiosis. 2,872,371, 2-3-59, Cl. 167-53.1.
- Rogers, George S., to Super Oil Seal Mfg. Co., Ltd. Railway journal box seal. 2,888,279, 5-26-59, Cl. 286-5.
- Rogers, Gerald L., to Stile-Craft Manufacturers, Inc. Coupler assembly. 2,908,511, 10-13-59, Cl. 284-1.
- Rogers, Glenville: *See*—  
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- Rogers, Gordon F., to Radio Corp. of America. Signal processing circuits. 2,876,349, 3-3-59, Cl. 250-27.
- Rogers, Gordon F., to Radio Corp. of America. Attenuator circuit. 2,881,400, 4-7-59, Cl. 333-81.
- Rogers, Gordon F., to Radio Corp. of America. Strong signal lock-out prevention. 2,889,400, 6-2-59, Cl. 178-7.3.
- Rogers, Gordon F., to Radio Corp. of America. Signal operated automatic control circuits. 2,894,062, 7-7-59, Cl. 178-5.4.
- Rogers, Gordon F., to Radio Corp. of America. Color television receivers. 2,897,262, 7-28-59, Cl. 178-5.4.
- Rogers, Harry J. Impact crushing machine. 2,898,053, 8-4-59, Cl. 241-275.
- Rogers, Howard G., to Polaroid Corp. Photographic processes. 2,909,430, 10-20-59, Cl. 96-29.
- Rogers, Ivor C., to Massey-Ferguson Inc. Spring shank mounting. 2,906,353, 9-29-59, Cl. 172-265.
- Rogers, Jack A., and P. R. Juckness, to The Dow Chemical Co. Lining for titanium-contacting apparatus. 2,874,953, 2-24-59, Cl. 266-43.
- Rogers, Joe Y., Jr., to Godfrey L. Cabot, Inc. Grit separator. 2,874,839, 2-24-59, Cl. 209-232.
- Rogers, John E. Tying machine. 2,880,666, 4-7-59, Cl. 100-26.
- Rogers, Lewis M., to Union Carbide Corp. Corrosion inhibitors. 2,901,438, 8-25-59, Cl. 252-387.
- Rogers, Linwood N., M. A. Heath, E. W. Gutlioph, and L. A. Hiatt, to The Buckeye Cellulose Corp. Purified cellulose fiber and process for producing same. 2,878,118, 3-17-59, Cl. 92-16.
- Rogers, Louis E. Button hole guide. 2,872,738, 2-10-59, Cl. 33-190.
- Rogers, Luna A.: *See*—  
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- Rogers, Morris R., A. M. Kaplan, and M. E. Pillion, to United States of America, Army. Packaging material. 2,887,262, 5-19-59, Cl. 229-3.1.
- Rogers, Mortimer D., and M. M. Dickinson, Jr., to International Business Machines Corp. Difference modulator. 2,880,314, 3-31-59, Cl. 250-27.
- Rogers, Murray K. Production of offset negatives and offset plates without the use of a camera. 2,878,739, 3-24-59, Cl. 95-73.
- Rogers, Richard E., to J. I. Case Co. Lift cylinder regulator valve. 2,887,990, 5-26-59, Cl. 121-38.
- Rogers, Robert A., H. V. Johnson, and R. E. Rowell. Cable fault locator. 2,907,949, 10-6-59, Cl. 324-52.
- Rogers, Robert E., to Harvestaire, Inc. Closed section louver for material separating apparatus. 2,913,110, 11-17-59, Cl. 209-144.
- Rogers, Robert E., to Harvestaire, Inc. Open section louver for material separating apparatus. 2,913,111, 11-17-59, Cl. 209-144.
- Rogers, Robert E., to General Electric Co. Piston and connecting rod assembly. 2,913,292, 11-17-59, Cl. 309-19.
- Rogers, Robert L.: *See*—  
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- Rogers, Roy H.: *See*—  
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- Rogers, Russell E., and L. L. D'Andrea. Changeable amusement devices and the like. 2,883,195, 4-21-59, Cl. 273-155.
- Rogers, Russell H., Jr., and W. R. Blew, Jr., to Swift & Co. Manufacture of metal soaps. 2,890,232, 6-9-59, Cl. 260-414.
- Rogers, Samuel C., to Bell Telephone Laboratories, Inc. Blocking oscillator pulse width control. 2,886,706, 5-12-59, Cl. 250-36.
- Rogers, Samuel C., to Bell Telephone Laboratories, Inc. Sampling circuit. 2,900,507, 8-18-59, Cl. 250-31.
- Rogers, Stanley, D. C. Kalbfell, and T. M. Dannback, to General Dynamics Corp. Shielded transformer. 2,878,441, 3-17-59, Cl. 323-44.
- Rogers, Stanley, and T. M. Dannback, to General Dynamics Corp. Ideal transformer. 2,891,214, 6-16-59, Cl. 323-44.
- Rogers, Stuart M.: *See*—  
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- Rogers, Stuart M., to Allied Chemical Corp. NaOCl-H<sub>2</sub>O<sub>2</sub> cotton cloth bleaching. 2,903,327, 9-8-59, Cl. 8-108.
- Rogers, Taliaferro & Lamb, Architects: *See*—  
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- Rogers, Thomas G., to Southern Wood Preserving Co. Method of and apparatus for trimming and sorting switch ties. 2,876,815, 3-10-59, Cl. 144-309.
- Rogers, Thomas H., and G. F. Bavor, to Machlett Laboratories, Inc. Means and method of controlling high tension electrical circuits. 2,879,404, 3-24-59, Cl. 250-98.
- Rogers, Thomas H., Jr.: *See*—  
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- Rogers, Thomas H., Jr., and N. R. Bender, to The Goodyear Tire & Rubber Co. Treatment of flexible cellular polyurethane material with ammonia. 2,888,408, 5-26-59, Cl. 260-2.5.
- Rogers, Tony: *See*—  
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- Rogers, William H., to Reece Folding Machine Co. Infolding machines for fabrics containing crease-resisting additive. 2,884,167, 4-28-59, Cl. 223-38.
- Rogers, William J., to Eastman Kodak Co. Photographic retouching opaque. 2,895,841, 7-21-59, Cl. 106-162.
- Rogers, Willie E. Fishing pole holder. 2,899,155, 8-11-59, Cl. 248-46.
- Rogerson, John R. Machine for producing fishing weights. 2,875,484, 3-3-59, Cl. 22-94.
- Rogge, Bernhard, to United States of America, Army. Method of assembling a delay parachute bomb. 2,868,125, 1-13-59, Cl. 102-4.
- Rogge, Bernhard. Blind joint-internal type locking. 2,870,881, 1-27-59, Cl. 189-36.
- Rogge, Glenn A., 50% to R. Melander, 25% to W. H. Connor, and 25% to W. T. Connor. Barbecue device. 2,891,465, 6-23-59, Cl. 99-345.
- Rogge, Harald I.: *See*—  
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- Roggenstein, Edwin O.: *See*—  
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- Roggio, Victor. Portable folding table. 2,868,599, 1-13-59, Cl. 311-90.
- Rogier, Clarence F., T. E. Kulo, and J. Singer, to Johnson Fare Box Co. Roll handling machine. 2,918,766, 12-29-59, Cl. 53-74.
- Rohboger, Alois, to Haendler & Nattermann, o. H. G. Bottle cap mounting apparatus. 2,867,957, 1-13-59, Cl. 53-296.
- Rohdin, Howard A. Apparatus for heat sealing. 2,908,320, 10-13-59, Cl. 154-42.
- Rohe, Frederick W., to Shur-Lok Corp. Overheat switch insulator lock nut. Re. 24,753, 12-15-59, Cl. 174-138.
- Rohe, Frederick W. Sandwich panel and flanged insert nut assembly. 2,880,830, 4-7-59, Cl. 189-34.
- Rohland, William S.: *See*—  
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- Rohland, William S., to International Business Machines Corp. Character sensing system. 2,877,951, 3-17-59, Cl. 235-61.11.
- Rohland, William S., to International Business Machines Corp. Drive and control means for matrix. 2,910,686, 10-27-59, Cl. 340-347.
- Rohland, William S., to International Business Machines Corp. Character reader. 2,919,426, 12-29-59, Cl. 340-149.
- Rohling, Gisela. Exhaust-pump-provided lid for a vacuum container. 2,890,810, 6-16-59, Cl. 220-24.
- Rohlinger, Merlin J., C. R. Hause, S. F. Winslow, and K. Stavoff; said Stavoff assor. to said Rohlinger. Demountable and separable pulverizer. 2,886,254, 5-12-59, Cl. 241-74.
- Rohloff, Gunter, and J. Schwister, to Zeiss Ikon A.G. Photographic camera with interchangeable objectives. 2,914,998, 12-1-59, Cl. 95-45.



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 Rohrbach, Gilson H., and J. E. Warren, to California Research Corp. Means for protecting well casing from corrosion. 2,907,351, 10-6-59, Cl. 138-25.  
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 Rohrer, David A., to Beckman Instruments, Inc. Gas discharge tube. 2,916,646, 12-8-59, Cl. 313-117.  
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 Lang, Richard E., and Rohrer. 2,906,450.  
 Rohrer, Douglas P., and F. F. Chellis, to Arthur D. Little, Inc. Impact tool. 2,898,893, 8-11-59, Cl. 123-7.  
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 Rohrer, Kenneth L., to Westinghouse Electric Corp. Black coating of high thermal emissivity and process for applying the same. 2,891,879, 6-23-59, Cl. 117-201.  
 Rohrkaste, Verna R. Fermentation process foods with low-sodium content and method of preparing same. 2,899,314, 8-11-59, Cl. 99-156.  
 Rohrman, Henry F., and R. A. Butters. Supporting frame construction for display board or chalkboard. 2,895,234, 7-21-59, Cl. 35-65.  
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 Rokosz, Leo F., to The Dow Chemical Co. Method for curling highly crystalline synthetic fibers and filaments. 2,917,805, 12-22-59, Cl. 28-72.  
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- Rollert, Donald H.: *See*—  
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- Roll-Flex Industries, Inc.: *See*—  
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- Rollie, Ada E.: Safety garment structure. 2,895,471, 7-21-59, Cl. 128—133.
- Rollie, Robert D., to Minnesota Mining & Mfg. Co. Packaging device. 2,873,025, 2-10-59, Cl. 206—65.
- Rollin, Joseph N.: *See*—  
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- Rollins, Harry G., and M. S. Waller, to Shell Development Co. Lined tube and plate connection. 2,916,182, 12-8-59, Cl. 220—63.
- Rollins, Henry M., to Drilco Oil Tools, Inc. Drill pipe coupling having particular thread formations. 2,885,225, 5-5-59, Cl. 285—115.
- Rollins, Wilbur G. Steam box. 2,880,522, 4-7-59, Cl. 34—87.
- Rollman, Walter F.: *See*—  
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- Rollman, Walter F., and D. L. Baeder, to Esso Research and Engineering Co. Alkylation apparatus. 2,903,344, 9-8-59, Cl. 23—285.
- Rollofson, Russell L.: *See*—  
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- Rolock, Inc.: *See*—  
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- Roloson, Alfred H., to The Jeffrey Mfg. Co. Elevator and casing structure. 2,887,190, 5-19-59, Cl. 189—1.
- Rolph, Henry D., to The Yale & Towne Mfg. Co. Lock utilizing interlocking cylinders. 2,869,351, 1-20-59, Cl. 70—134.
- Rolph, Henry D., to The Yale & Towne Mfg. Co. Tubular lock. 2,899,819, 8-18-59, Cl. 70—146.
- Rolph, Samuel W., to The Electric Storage Battery Co. Storage battery separator. 2,909,588, 10-20-59, Cl. 136—145.
- Rolscreen Co.: *See*—  
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- Rolston, John A.: *See*—  
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- Rolstone, John L. Fishing lure. 2,913,849, 11-24-59, Cl. 43—42.41.
- Rom, Norman F. Means for preventing condensation on flush-tanks. 2,900,645, 8-25-59, Cl. 4—18.
- Rom, Rudolph A.: *See*—  
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- Roman Metal Products, Inc.: *See*—  
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- Roman, Michael. Vacuum milk filter. 2,896,787, 7-28-59, Cl. 210—406.
- Roman, Pierre A., to Eastman Kodak Co. Reflex copying process. 2,908,571, 10-13-59, Cl. 96—47.
- Romanchuk, Steve: *See*—  
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- Romander, Hugo, to Sierra Electronic Corp. Electronic amplifier network. 2,876,298, 3-3-59, Cl. 179—171.
- Romander, Hugo, to Philco Corp. Inverse parallel amplifier network. 2,901,562, 8-25-59, Cl. 179—171.
- Romanelli, John, to Hughes Aircraft Co. Pulse forming network. 2,904,706, 9-15-59, Cl. 307—106.
- Romanelli, Patrick: *See*—  
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- Romano, Anthony J.: *See*—  
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- Romano, Anthony P.: *See*—  
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- Romano, Francesantonio. Spring-loaded split steering wheel. 2,889,714, 6-9-59, Cl. 74—493.
- Romano, George F., to The Martin Co. High-speed switching system. 2,899,567, 8-11-59, Cl. 307—81.
- Romano, Joseph V., 49/100 to Fisher-Stevens, Inc. Ribbon guiding and inking roller for printing machines. 2,878,751, 3-24-59, Cl. 101—336.
- Romano, Sam S., and A. Rak, to Webcor, Inc. Roll off control. 2,893,346, 7-7-59, Cl. 116—124.1.
- Romanoski, Edwin P., to Roman Metal Products, Inc. Anti-rattle guide block for sliding closures. 2,903,755, 9-15-59, Cl. 20—19.
- Romans, Robert G., to The Governors of the University of Toronto. Insulin process. 2,897,117, 7-28-59, Cl. 167—75.
- Rome Cable Corp.: *See*—  
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- Rome, Ollen G. Revolving orchard underbrush cutter and soil cultivator. 2,873,808, 2-17-59, Cl. 172—524.
- Romegialli, Ricardo C. Lock for opening surfaces in general. 2,902,306, 9-1-59, Cl. 292—166.
- Romeo, Aurelio, to Ciba Pharmaceutical Products Inc. New cyclosteroids. 2,870,175, 1-20-59, Cl. 260—397.5.
- Romeo, Ernest V.: *See*—  
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- Romeo, Frank: *See*—  
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- Romeo, Vincent P.: *See*—  
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- Romer, Hermann. Cover for industrial furnace. 2,882,844, 4-21-59, Cl. 110—173.
- Römer, Otto, and K. Reche, to Siemens & Halske Akt. Motion-stopping device with friction surfaces, particularly for electric contact apparatus. 2,890,314, 6-9-59, Cl. 200—166.
- Romera, Manuel. Ore-screening and grading machine. 2,879,890, 3-31-59, Cl. 209—394.
- Romero, Manuel, to Stabil Internacional S. A. Process for stabilizing milk and similar products. 2,870,027, 1-20-59, Cl. 99—212.
- Romero, Miguel A.: *See*—  
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- Romero, Victor R., to Union Steel Products Co. Materials handling pallet. 2,916,240, 12-8-59, Cl. 248—120.
- Romesberg, Floyd E.: *See*—  
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- Romeyn, Hendrik, Jr.: *See*—  
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- Romi, Giordano. Gear selecting arrangement. 2,911,842, 11-10-59, Cl. 74—352.
- Romine, Glenn N., and T. M. Arnold, to Rack Specialists, Inc. Laterally discharging load carrier. 2,911,122, 11-3-59, Cl. 214—730.
- Romine, James W., to Greening Nursery Co. Method of and apparatus for wrapping packages. 2,907,157, 10-6-59, Cl. 53—124.
- Rominger, James T. Landing gear locking device. 2,903,206, 9-8-59, Cl. 244—102.
- Romito, Leopold S. Lock for elevator chairs. 2,909,247, 10-20-59, Cl. 188—75.
- Rommel, Frederick E., to Telephone Mfg. Co. Ltd. Polarized electro-magnetic relays. 2,876,398, 3-3-59, Cl. 317—172.
- Rommel, Frederick E., and M. Simons, to Telephone Mfg. Co. Ltd. Electromagnetic devices. 2,867,755, 1-6-59, Cl. 317—176.
- Romo, Jesus: *See*—  
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- Romo, Kathleen D.: *See*—  
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- Romolt, Abe, to National Leather Handle Co., Inc. Handle for luggage. 2,887,197, 5-19-59, Cl. 190—57.
- Romsteadt, Fred, Jr., 50% to C. C. Whisler. Hub cap lock. 2,896,440, 7-28-59, Cl. 70—258.
- Ronan, William J., to Safety Bath Rail, Inc. Means for mounting a rail. 2,896,899, 7-28-59, Cl. 248—251.
- Ronci, F., Co., Inc.: *See*—  
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- Ronci, Fernando M. Shoe buckle or latch. 2,897,558, 8-4-59, Cl. 24—71.
- Rondthaler, Edward: *See*—  
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- Rondthaler, Edward, and H. A. Horman. Phototypography. 2,890,634, 6-16-59, Cl. 95—4.5.
- Rongaus, Eugene E. Aiming stake lighting device. 2,915,618, 12-1-59, Cl. 240—6.4.



- Rongen, Jacobus J., to North American Philips Co., Inc. Circuit arrangement for current supply to one or more electron tubes by means of a transistor. 2,885,550, 5-5-59, Cl. 250-27.
- Rongen, Jacobus J., to North American Philips Co., Inc. Circuit arrangement for converting low voltages into high voltages. 2,904,740, 9-15-59, Cl. 321-2.
- Ronk, George T., to Transport Trailers, Inc. Trailer-tractor assembly with removable gooseneck. 2,894,764, 7-14-59, Cl. 280-425.
- Ronnquist, Carl R.: See—  
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- Ronson Corp.: See—  
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- Ronza, Anthony F. Method for making shoes. 2,885,699, 5-12-59, Cl. 12-145.
- Roof, Richard L., to Sylvania Electric Products Inc. Turntable post friction finger. 2,868,546, 1-13-59, Cl. 274-10.
- Roof, Richard L., to Sylvania Electric Products Inc. Means for mounting plastic parts. 2,889,124, 6-2-59, Cl. 248-27.
- Rook, Louis W. Enclosed golf course. 2,894,749, 7-14-59, Cl. 273-176.
- Rooks, Arthur J.: See—  
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- Rooney, William J. Emergency electrical outlet device. 2,907,974, 10-6-59, Cl. 339-125.
- Roop, Robert W.: See—  
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- Roorik, Arrol G.: See—  
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- Roos, Hans, and K. Briesewitz, to Farbenfabriken Bayer Akt. Process for the production of 1-nitro-naphthalene 3,6- and 3,7-disulfonic acid. 2,875,242, 2-24-59, Cl. 260-505.
- Roos, Hans, K. Briesewitz, and J. Hegemann, to Farbenfabriken Bayer Akt. Process for the production of 1-nitro-naphthalene-6-sulfonic acid and 1-naphthylamine-7-sulfonic acid. 2,875,243, 2-24-59, Cl. 260-505.
- Roos, John T., to Bird Machine Co. Filter construction. 2,888,142, 5-26-59, Cl. 210-473.
- Roos, William J., to Westinghouse Electric Corp. Electrostatic precipitators. 2,908,347, 10-13-59, Cl. 183-7.
- Roosa, Vernon D. Timing control for fuel pumps. 2,877,754, 3-17-59, Cl. 123-139.
- Roosa, Vernon D. Pressure responsive valve for fuel pumps. 2,883,934, 4-28-59, Cl. 103-42.
- Roosa, Vernon D. Governor for fuel injection pump. 2,887,099, 5-19-59, Cl. 123-140.
- Roosens, Laurent P.: See—  
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- Root, Andrew A., to Bradley Container Corp. Method of and apparatus for treating surfaces of thermoplastic containers by corona discharge. 2,876,358, 3-3-59, Cl. 250-49.5.
- Root, Andrew A., to Bradley Container Corp. Thermoplastic container and method of making same. 2,879,818, 3-31-59, Cl. 150-5.
- Root, Andrew A., to American Can Co. Measuring device. 2,887,777, 5-26-59, Cl. 33-178.
- Root, Clarence G., to The Griscom-Russell Co. Head closure construction for heat exchanger. 2,903,153, 9-8-59, Cl. 220-46.
- Root, Elihu, III: See—  
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- Root, Elihu, 3rd. Counting devices. 2,918,215, 12-22-59, Cl. 235-92.
- Root, Glenn M., to Loomis-Root Inc. Device for drying tires. 2,912,558, 11-10-59, Cl. 219-34.
- Root, Lawrence D.: See—  
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- Root-Lowell Mfg. Co.: See—  
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- Root Spring Scraper Co.: See—  
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- Roovers, Wilhelmus A., to North American Philips Co., Inc. Semi-conductor device. 2,877,393, 3-10-59, Cl. 317-234.
- Roovers, Wilhelmus A., and O. L. Van Steenis, deceased (by J. D. Heijligers, executor), to North American Philips Co., Inc. Semi-conductor device and method of making. 2,869,056, 1-13-59, Cl. 317-236.
- Ropa, Richard L.: See—  
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- Roper, Alec N., E. Seijo, and W. G. Barb. Plastic compositions comprising blends of an elastomer and certain tri-polymers and process for preparing same. 2,914,505, 11-24-59, Cl. 260-45.5.
- Roper, Charles G., E. S. Gilchrist, and H. Lockery, to Manning, Maxwell & Moore, Inc. Automatic process control system. 2,895,502, 7-21-59, Cl. 137-486.
- Roper, Charles G., E. S. Gilchrist, and A. J. Sable, to Manning, Maxwell & Moore, Inc. Transmitter potentiometer. 2,898,543, 8-4-59, Cl. 323-64.
- Roper, Edward H., and C. J. Sullivan, to Air Reduction Co., Inc. Arc welding. 2,870,323, 1-20-59, Cl. 219-137.
- Roper, Geo. D., Corp.: See—  
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- Roper Industries, Inc.: See—  
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- Roquemore, William K.: See—  
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- Roquemore, William K., to Esso Research and Engineering Co. Reaction vessel. 2,917,373, 12-15-59, Cl. 23-288.
- Roquemore, William K., and F. M. Orr, to Esso Research and Engineering Co. Catalytic cracking process and separation means within reactor. 2,886,519, 5-12-59, Cl. 208-163.
- Roques, Jacques R., to "Etablissements Roques" (Societe Anonyme). Hydrated bismuth aluminate. 2,901,316, 8-25-59, Cl. 23-52.
- Roem, Lawrence W.: See—  
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- Rosa, Anthony G. Telephone pad and pencil holder. 2,881,556, 4-14-59, Cl. 45-5.
- Rosa, Anthony G. Combination rosary plate and wallet. 2,897,606, 8-4-59, Cl. 35-23.
- Rosa, Gilbert N., to Statham Instruments, Inc. Pressure transducer. 2,867,121, 1-6-59, Cl. 73-410.
- Rosa, William P. Coin-operated bottle dispenser apparatus. 2,873,045, 2-10-59, Cl. 221-133.
- Rosahl, Dietrich: See—  
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- Rosahl, Dietrich, W. Graulich, H. Holzrichter, and R. Ecker, to Farbenfabriken Bayer Aktiengesellschaft. Mixtures of synthetic elastomers and resinous aldehyde-condensation products and vulcanized products thereof. 2,916,471, 12-8-59, Cl. 260-43.
- Rosalsky, Ivan S., to Airlite Aluminum Corp. Furniture construction. 2,884,994, 5-5-59, Cl. 155-187.
- Rosamilla, Peter L.: See—  
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- Rosan, Joseph. Top locking insert. 2,886,090, 5-12-59, Cl. 151-41.73.
- Rosander, Axel E. Automatic pressurized coffee-maker. 2,887,038, 5-19-59, Cl. 99-307.
- Rosapepe, Frank P.: See—  
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- Rosato, Nicola P., and S. E. Siemen, to United States of America, Army. Trepanned core cutoff tool. 2,870,836, 1-27-59, Cl. 164-41.
- Rosback, Richard H., to Bendix Aviation Corp. Semi-positive valve actuator. 2,897,789, 8-4-59, Cl. 121-41.
- Rosch, Georg: See—  
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- Rösch, Georg, and K.-H. Gehringer, to Farbenfabriken Bayer Akt. Process for the production of azo dyestuffs of the phthalocyanine series. 2,882,267, 4-14-59, Cl. 260-146.
- Rosch, Georg, H. Klappert, W. Wolf, and J. Eibl, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of dyestuffs on the fiber. 2,898,177, 8-4-59, Cl. 8-34.
- Roschen, John, to Philco Corp. Method of treating semi-conductor devices. 2,906,647, 9-29-59, Cl. 117-200.
- Roschke, Erwin M.: See—  
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Eilers, Carl G., and Roschke. 2,883,449.  
Morris, George V., and Roschke. 2,909,592.
- Roschke, Erwin M., to Zenith Radio Corp. Subscription television system. 2,875,268, 2-24-59, Cl. 178-5.1.
- Roschke, Karl, to VEB Carl Zeiss Jena. Projection domes. 2,894,520, 7-14-59, Cl. 135-4.
- Roscoe, John S., and G. W. Schaeffer, to Olin Mathieson Chemical Corp. Method for the separation of lithium aluminum hydride from aluminum hydride. 2,867,498, 1-6-59, Cl. 23-14.
- Roscoe, Merrill W., and O. P. Lance, to Deere & Co. Control mechanism for farm implement. 2,894,411, 7-14-59, Cl. 74-491.
- Rose, A. J., Mfg. Co.: See—  
Rose, Anton J. 2,905,004.  
Warnkey, Harold J. 2,915,908.
- Rose, Albert: See—  
Smith, Roland W., and Rose. 2,916,810.
- Rose, Albert, to Radio Corp. of America. Photoconductive television pickup tube. 2,881,340, 4-7-59, Cl. 313-65.
- Rose, Anton J., to A. J. Rose Mfg. Co. Pulley. 2,905,004, 9-22-59, Cl. 74-230.8.
- Rose, Alexander D., B. Willach, and B. L. Hall, to Jas. P. Marsh Corp. Instrument case. 2,883,085, 4-21-59, Cl. 220-82.
- Rose, Alfred G.: See—  
Gilbert, Joseph A., Johnson, and Rose. 2,875,069.
- Rose Brothers (Gainsborough Ltd.): See—  
Gilbert, Joseph A., Johnson, and Rose. 2,875,069.
- Kay, James A. 2,882,937.  
Kay, James A. 2,882,938.  
Tebbutt, Eric. 2,893,187.
- Rose, Clarence W. Child's safety belt. 2,888,063, 5-26-59, Cl. 155-189.
- Rose, Clarence W. Cable connector for safety belts. 2,914,139, 11-24-59, Cl. 188-65.1.
- Rose, Clarence W., R. W. Krach, and F. R. Ross, to Rose Mfg. Co. Ladder climber. 2,886,227, 5-12-59, Cl. 227-25.



- Rose, Clifford A., to The National Cash Register Co. Plug-gable circuit unit. 2,885,603, 5-5-59, Cl. 317-101.
- Rose, Colin G., to Bixby-Zimmer Engineering Co. Screen. 2,911,097, 11-3-59, Cl. 209-393.
- Rose, Donald A. Pipe bender gauge. 2,907,116, 10-6-59, Cl. 33-207.
- Rose, Dudley B. Underwater breathing apparatus. 2,894,506, 7-14-59, Cl. 128-142.
- Rose, Edgar, to Kiekhaefer Corp. Vibrator absorber. 2,883,130, 4-21-59, Cl. 248-22.
- Rose, Edgar, to Kiekhaefer Corp. Resilient outboard motor mounting. 2,890,674, 6-16-59, Cl. 115-18.
- Rose, George M., Jr., and W. J. Helwig, to Radio Corp. of America. Anode mount for electron tubes. 2,918,598, 12-22-59, Cl. 313-284.
- Rose, Harold J.: See—  
Young, David W., and Rose. 2,901,502.
- Rose, Harry E., to Radio Corp. of America. Color-correction systems. 2,872,508, 2-3-59, Cl. 178-5.2.
- Rose, Ira M.: See—  
Shapiro, Seymour L., Freedman, and Rose. 2,899,437.  
Shapiro, Seymour L., Freedman, and Rose. 2,909,467.
- Rose, Jay. Device for holding hypodermic needles. 2,902,169, 9-1-59, Cl. 211-60.
- Rose, Jean-Paul: See—  
Bianchi, Guiseppina, and Rose. 2,868,561.
- Rose, John F.: See—  
Mullin, Clayton D., and Rose. 2,904,639.
- Rose, John F., to Maico Electronics, Inc. Temple-mounted hearing aid control. 2,916,538, 12-8-59, Cl. 136-173.
- Rose, Leslie W. Bait attachment devices. 2,870,563, 1-27-59, Cl. 43-41.
- Rose, Lloyd R., to General Electric Co. X-ray diffraction apparatus. 2,898,469, 8-4-59, Cl. 250-53.
- Rose Mfg. Co.: See—  
Rose, Clarence W., Krach, and Ross. 2,886,227.
- Rose, Richard A.: See—  
Berry, William, Rose, Phillips, and Oswin. 2,910,385.
- Rose, Stanley E.: See—  
Farnon, Robert B., and Rose. 2,869,185.
- Rose, Stanley E., to General Electric Co. Mounting arrange-ment for propeller type fan. 2,869,651, 1-20-59, Cl. 170-173.
- Rose, Stanley E., to General Electric Co. Condensate dispo-sal arrangement for air conditioner. 2,883,837, 4-28-59, Cl. 62-280.
- Rose, Stanley E., to General Electric Co. Condensate disposal arrangement for air conditioner. 2,896,424, 7-28-59, Cl. 62-280.
- Rose, Theophylus F. Baby pen. 2,866,983, 1-6-59, Cl. 5-99.
- Rose, Theophylus F. Christmas tree holder. 2,867,898, 1-6-59, Cl. 248-44.
- Rose, Thomas H., to Hughes Aircraft Co. Process for obtain-ing measurements of inaccessible interior dimensions in castings. 2,886,852, 5-19-59, Cl. 18-47.5.
- Rose, William G., and H. P. Lundgren, to United States of America, Agriculture. Process for reacting protein fibers with dicarboxylic acid diazides and products produced thereby. 2,881,046, 4-7-59, Cl. 8-127.6.
- Rose, William O. Fish rod holder. 2,888,220, 5-26-59, Cl. 248-42.
- Rose, William R., Jr.: See—  
Rose, William R., Sr. 2,879,976.
- Rose, William R., Sr., 10% to W. R. Rose, Jr., and 10% to C. Anderson. Heat saver. 2,879,976, 3-31-59, Cl. 257-166.
- Rosebrook, Mrs. Lois W.: See—  
Ames, Robert G. 2,889,857.
- Rosebrook, Harry H. Track approach bridge. 2,873,918, 2-17-59, Cl. 238-174.
- Rosebrook, Homer E., E. K. Harley, and B. A. Swartzloff, to Hupp Corp. Refrigerator. 2,867,096, 1-6-59, Cl. 62-288.
- Rosebrook, Roy, to True-Trace Corp. Servo control for rack mechanism. 2,897,788, 8-4-59, Cl. 121-41.
- Rosebrook, Roy, to True-Trace Corp. Automatic tracer control. 2,909,357, 10-20-59, Cl. 251-3.
- Rosebrook, Roy, to True-Trace Corp. Numerically controlled machine tool. 2,910,967, 11-3-59, Cl. 121-41.
- Roseman, Morton F.: See—  
Corwin, Jerome, Roseman, Santilli, and Stein. 2,907,997.
- Roseman, Oscar E., to H. H. Robertson Co. Wall panel. 2,910,150, 10-27-59, Cl. 189-34.
- Rosemark, John F. Holder for toilet articles. 2,883,062, 4-21-59, Cl. 211-60.
- Rosen, Benjamin: See—  
Brown, Ruth Z., and Rosen. 2,872,464.
- Rosen, Charles A.: See—  
Spitzer, Charles F., and Rosen. 2,911,484.
- Rosen, Charles, II: See—  
Peter, Conrad W. 2,880,761.
- Rosen, Charles, to Tele-Dynamics Inc. Carrier operated relay circuit. 2,914,711, 11-24-59, Cl. 317-149.
- Rosen, Charles, and C. J. Weidknecht, to Tele-Dynamics Inc. Crystal controlled oscillator. 2,906,969, 9-29-59, Cl. 332-26.
- Rosen, Fred D.: See—  
Buyers, Archie G., Motta, and Rosen. 2,918,366.
- Rosen, Harry. Carton handling and seating machine. 2,890,559, 6-16-59, Cl. 53-383.
- Rosen, Herbert: See—  
Richards, William V., and Rosen. 2,871,673.
- Rosen, Irving, to Diamond Alkali Co. 2-(2',4'-dichlorophe-noxy)-3-chlorodioxane. 2,899,445, 8-11-59, Cl. 260-340.6.
- Rosen, Jacob. Self-contained lifting means for curtains. 2,910,120, 10-27-59, Cl. 160-84.
- Rosen, Leonard J.: See—  
Conciatori, Anthony B., Fortess, and Rosen. 2,892,672.
- Rosen, Leonard J., to Celanese Corp. of America. Polymeric methyl isopropenyl ketone. 2,895,942, 7-21-59, Cl. 260-45.85.
- Rosen, Leonard J., and F. Fortess, to Celanese Corp. of America. Gas fading resistant textiles. 2,880,051, 3-31-59, Cl. 8-61.
- Rosen, Louis. Trousers' leg measuring device. 2,872,734, 2-10-59, Cl. 33-8.
- Rosen, Mac, and H. A. Meyers. Fastening means for mount-ing replaceable ornaments on spectacles. 2,868,073, 1-13-59, Cl. 88-41.
- Rosen, Norman J.: See—  
Smith, Nathan R., and Rosen. 2,914,600.
- Rosen, Raphael, to United States of America, Atomic Energy Commission. Process for making uranium hexafluoride. 2,894,811, 7-14-59, Cl. 23-14.5.
- Rosen, Samuel A., to Hughes Aircraft Co. Self recycling pulse stretcher. 2,899,554, 8-11-59, Cl. 250-27.
- Rosen, Sidney. Precision pump. 2,907,614, 10-6-59, Cl. 309-4.
- Rosen, William E., to Ciba Pharmaceutical Products, Inc. Preparation of bis-quaternary ammonium compounds. 2,873,281, 2-10-59, Cl. 260-319.
- Rosenbaum, Harry S. Apparatus for assembling Venetian blinds. 2,874,447, 2-24-59, Cl. 29-24.5.
- Rosenbaum, Harry S., to The Eastern Venetian Blind Co. Traverse rod. 2,890,799, 6-16-59, Cl. 211-105.2.
- Rosenbaum, Harry S. Apparatus for assembling Venetian blinds. 2,893,106, 7-7-59, Cl. 29-24.5.
- Rosenberg, Barnett: See—  
Kallmann, Hartmut P., and Rosenberg. 2,892,968.
- Rosenberg, Barnett, to Westinghouse Electric Corp. Electro-luminescent device. 2,916,630, 12-8-59, Cl. 250-213.
- Rosenberg, Charles B., to Q-Tee Inc. Hopper for delivering round articles. 2,891,646, 6-23-59, Cl. 193-39.
- Rosenberg, David, and L. Miranda, to The Holiday Line, Inc. Inflatable cushion. Re. 24,618, 3-10-59, Cl. 9-17.
- Rosenberg, David L., to Boston Royal Petticoat Co. Maternity panty. 2,905,947, 9-29-59, Cl. 2-224.
- Rosenberg, David S., to Hooker Chemical Corp. Photochem-ical chlorination process. 2,899,370, 8-11-59, Cl. 204-163.
- Rosenberg, Ernst T., to Aktiebolaget Leo. Diphosphoimidaz-oles. 2,917,517, 12-15-59, Cl. 260-309.
- Rosenberg, Hans K.: See—  
Baldini, James T., and Rosenberg. 2,879,162.
- Rosenberg, Harry. High speed pivoted cutting machine. 2,870,837, 1-27-59, Cl. 164-43.
- Rosenberg, Heinz, and H. Deschmann, to Osterreichische Text-ilmaschinenfabrik G. Joseph's Erben. Electromagnetic drive for bodies to be moved in pregiven paths, especially shuttles of circular looms. 2,870,349, 1-20-59, Cl. 310-13.
- Rosenberg, Jack, to General Dynamics Corp. Control system. 2,896,514, 7-28-59, Cl. 90-28.1.
- Rosenberg, Joseph, to General Electric Co. Carboxyl rich alkyl resin-ethoxylamine resin compositions and process for their preparation. 2,909,495, 10-20-59, Cl. 260-22.
- Rosenberg, Leon T., to Allis-Chalmers Mfg. Co. Segmental air gap baffle. 2,895,065, 7-14-59, Cl. 310-64.
- Rosenberg, Leon T., to Allis-Chalmers Mfg. Co. Supercharged finger plates. 2,902,611, 9-1-59, Cl. 310-64.
- Rosenberg, Max, to Gaylord Products Inc. Speedometer switch. 2,880,288, 3-31-59, Cl. 200-92.
- Rosenberg, Milton: See—  
Stuart-Williams, Raymond, and Rosenberg. 2,900,624.
- Rosenberg, Milton, to Telemeter Magnetics, Inc. Magnetic core memory system. 2,897,482, 7-28-59, Cl. 340-174.
- Rosenberg, Milton, to Telemeter Magnetics, Inc. Magnetic core memory system. 2,900,623, 8-18-59, Cl. 340-174.
- Rosenberg, Milton, W. M. Modlinski, M. A. Alexander, and G. F. Minka, to Telemeter Magnetics Inc. Magnetic-switch cross-coupling minimization system. 2,908,893, 10-13-59, Cl. 340-174.
- Rosenberg, Norman, and E. R. L. Gaughran, to Johnson & Johnson. Heterograft material. 2,900,644, 8-25-59, Cl. 3-1.
- Rosenberg, Norman W., and W. E. Katz, to Ionics, Inc. Pro-duction of alkali metal hydroxides by ion exchange. 2,884,310, 4-28-59, Cl. 23-184.
- Rosenberg, Phillip, to Ford Motor Co. Vehicle seat safety brace. 2,913,278, 11-17-59, Cl. 296-66.
- Rosenberg, Samuel: See—  
Lipschutz, Frank K., and Rosenberg. 2,877,466.
- Rosenberg, Sanders D.: See—  
Ramsden, Hugh E., and Rosenberg. 2,867,642.  
Ramsden, Hugh E., and Rosenberg. 2,872,471.  
Ramsden, Hugh E., and Rosenberg. 2,892,856.  
Ramsden, Hugh E., and Rosenberg. 2,894,012.
- Rosenberg, Sanders D., and A. J. Gibbons, Jr., to Metal & Thermit Corp. Process for the preparation of vinyl tin compounds. 2,873,288, 2-10-59, Cl. 260-429.7.
- Rosenberg, Sheldon, and D. Bandel, to American Machine & Foundry Co. Smoking product and method of manufacture. 2,887,414, 5-19-59, Cl. 131-17.
- Rosenberg, Thomas. Flush valve for toilet tanks. 2,897,513, 8-4-59, Cl. 4-57.



- Rosenberger, Albert J., to Republic Flow Meters Co. Linkage mechanism for indicating instrument. 2,872,816, 2-10-59, Cl. 73-406.
- Rosenberger, Georg, and H. Neumann, to Siemens & Halske Aktiengesellschaft. Magnetic heads. 2,919,312, 12-29-59, Cl. 179-100.2.
- Rosenberger, Harold E.: *See*—  
Alden, Alex E., and Rosenberger. 2,909,097.
- Rosenberger, Helen M.: *See*—  
Marron, Thomas U., White, and Rosenberger. 2,875,046.
- Rosenblad, Curt F. Method of charging cellulose digesters. 2,882,148, 4-14-59, Cl. 92-7.
- Rosenblad, Curt F., to Aktiebolaget Rosenblads Patenter. Heating system for cellulose digestion plants. 2,886,483, 5-12-59, Cl. 162-42.
- Rosenblatt, Donald N.: *See*—  
Carter, John N., and Rosenblatt. 2,875,109.
- Rosenblatt, Murray: *See*—  
Myracle, James L., and Rosenblatt. 2,885,613.  
Peaslee, Lawrence R., and Rosenblatt. 2,894,253.
- Rosenblatt, Murray, and A. S. Rubenstein, to General Electric Co. Regulating system for dynamoelectric machines. 2,899,630, 8-11-59, Cl. 322-25.
- Rosenblum, Louis, to Polaroid Corp. Photographic bounce flash bracket. 2,892,927, 6-30-59, Cl. 240-1.3.
- Rosenblum, William H., and M. Mirklin. Mechanical puzzle, which, when properly assembled establishes radio receiver. 2,918,287, 12-22-59, Cl. 273-156.
- Rosenfeld, Azriel, K. W. Gross, and D. C. Gala, to Sperry Rand Corp., Ford Instrument Co. Division. Automatic stereoplotter. 2,910,910, 11-3-59, Cl. 83-14.
- Rosenfeld, Jack L., to Bell Telephone Laboratories, Inc. Magnetic core switching circuit. 2,906,887, 9-29-59, Cl. 307-85.
- Rosenfeld, Joseph. Accordion-type doors and the like. 2,894,573, 7-14-59, Cl. 160-84.
- Rosenfeld, Sam, to United States of America, Atomic Energy Commission. Process for the purification of uranium. 2,869,981, 1-20-59, Cl. 23-14.5.
- Rosenheim, Donald E., to International Business Machines Corp. Marker pulse circuit. 2,911,623, 11-3-59, Cl. 340-174.
- Rosenheim, Julius, to Heller, Gustav & Wilhelm. Process of making liquid-filled crustless confectionery. 2,876,103, 3-3-59, Cl. 99-134.
- Rosenkaimer G.m.b.H.: *See*—  
Kampf, Friedrich. 2,889,841.
- Rosenkranz, George: *See*—  
Djerassi, Carl, and Rosenkranz. 2,877,237.  
Djerassi, Carl, and Rosenkranz. 2,899,427.  
Djerassi, Carl, and Rosenkranz. 2,906,750.  
Djerassi, Carl, and Rosenkranz. 2,906,751.  
Djerassi, Carl, Stork, Rosenkranz, and Sondheimer. 2,885,397.
- Kincl, Fred A., Ringold, and Rosenkranz. 2,906,758.
- Mancera, Octavio, Rosenkranz, and Sondheimer. 2,890,227.
- Ringold, Howard J., and Rosenkranz. 2,888,474.
- Ringold, Howard J., and Rosenkranz. 2,891,077.
- Ringold, Howard J., and Rosenkranz. 2,908,693.
- Ringold, Howard J., and Rosenkranz. 2,918,481.
- Ringold, Howard J., Sondheimer, and Rosenkranz. 2,888,470.
- Ringold, Howard J., Sondheimer, and Rosenkranz. 2,889,346.
- Sondheimer, Franz, Mancera, and Rosenkranz. 2,877,242.
- Sondheimer, Franz, Romo, Rosenkranz, and Djerassi. 2,911,403.
- Sondheimer, Franz, and Rosenkranz. 2,884,418.
- Sondheimer, Franz, and Rosenkranz. 2,888,471.
- Sondheimer, Franz, and Rosenkranz. 2,900,382.
- Sondheimer, Franz, and Rosenkranz. 2,914,544.
- Stork, Gilbert, Ringold, Sondheimer, and Rosenkranz. 2,874,154.
- Rosenkranz, George, and J. Romo, to Syntex S. A. 7-dehydro diosgenin compounds and process for making same. 2,867,616, 1-6-59, Cl. 260-239.55.
- Rosenkranz, George, and F. Sondheimer, Syntex S. A. Method of preparing 17-ethyl-epi-testosterone. 2,910,485, 10-27-59, Cl. 260-397.4.
- Rosenman, Abraham W., and R. F. Greiser. Container and receptacle for tissues. 2,915,218, 12-1-59, Cl. 221-102.
- Rosenow, Monroe H., and E. E. Kohls, to ABC Industries, Inc. Golf club head cover. 2,908,307, 10-13-59, Cl. 150-52.
- Rosenqvist, Sven O., to Svenska Jastfabriks Aktiebolaget. Method for the production of baker's yeast. 2,868,649, 1-13-59, Cl. 99-96.
- Rosenqvist, Terkel. Process for the production of sulphur, metal oxides and metal sulphates. 2,869,999, 1-20-59, Cl. 75-6.
- Rosenstein, Arthur L., to Luminous Ceilings, Inc. Lighting fixture with lamp-removal baffling. 2,892,077, 6-23-59, Cl. 240-51.11.
- Rosenstein, Mitchell M. Stop motion for looms. 2,874,728, 2-24-59, Cl. 139-371.
- Rosensweig, Mack, to Ameray Corp. Building constructions. 2,895,324, 7-21-59, Cl. 72-38.
- Rosenthal, Allan: *See*—  
Greenberg, Robert. 2,906,242.
- Rosenthal, Arnold J., to Celanese Corp. of America. Inhibition of corrosion. 2,892,725, 6-30-59, Cl. 106-14.
- Rosenthal, Daniel. Mixing device. 2,887,272, 5-19-59, Cl. 239-310.
- Rosenthal, Daniel W., and G. E. Horswood, to Klauder Weldon Giles Machine Co. Chemical reactor. 2,904,407, 9-15-59, Cl. 23-252.
- Rosenthal, Fritz, to Smith, Kline & French Laboratories. Sustained release pharmaceutical product. 2,895,880, 7-21-59, Cl. 167-82.
- Rosenthal, Gary: *See*—  
Gruber, Morris, and Rosenthal. 2,899,661.
- Rosenthal, Harold: *See*—  
Kramer, Franklin, and Rosenthal. 2,886,440.  
Kramer, Franklin, Rosenthal, and Tole. 2,886,441.  
Kramer, Franklin, Rosenthal, and Tole. 2,886,446.  
Kramer, Franklin, Rosenthal, and Tole. 2,886,447.  
Kramer, Franklin, Rosenthal, and Tole. 2,886,448.
- Rosenthal, Harold, F. Kramer, E. A. Steigmann, and A. F. Tole, to General Foods Corp. Process for making chewing gum and product. 2,886,443, 5-12-59, Cl. 99-135.
- Rosenthal, Harold, F. Kramer, and E. A. Steigmann, to General Foods Corp. Process of preparing a chewing gum and the resulting product. 2,886,444, 5-12-59, Cl. 99-135.
- Rosenthal, Harold, F. Kramer, E. A. Steigmann, and A. F. Tole, to General Foods Corp. Process for making chewing gum and product. 2,886,445, 5-12-59, Cl. 99-135.
- Rosenthal, Harold, F. Kramer, E. A. Steigmann, and A. F. Tole, to General Foods Corp. Method of making chewing gum and the resulting product. 2,886,449, 5-12-59, Cl. 99-135.
- Rosenthal, Harry. Ironing device. 2,872,748, 2-10-59, Cl. 38-99.
- Rosenthal, Hyman: *See*—  
Lipson, Samuel, Rosenthal, and Saia. 2,889,703.
- Rosenthal, Joseph F.: *See*—  
Vyverberg, Robert G., and Rosenthal. 2,919,119.
- Rosenthal, Joseph F., to Haloid Xerox Inc. Aerosol bomb development. 2,914,221, 11-24-59, Cl. 222-146.
- Rosenthal, Louis: *See*—  
Mazzucchelli, Arthur P., Bugel, and Rosenthal. 2,909,752.
- Rosenthal, Murray W., to Pycpe Inc. Dental massage device. 2,888,008, 5-26-59, Cl. 128-62.
- Rosenthal, Joseph S., to Cisco, Inc. Wearing apparel. 2,870,448, 1-27-59, Cl. 2-91.
- Rosenthal, Matthew A. Disposable bassinets and parts thereof. 2,870,461, 1-27-59, Cl. 5-93.
- Rosenthal, Sidney N. Stenciling devices. 2,873,464, 2-17-59, Cl. 15-209.
- Rosenthal, William, to Maiden Form Brassiere Co., Inc. Brassiere. 2,892,459, 6-30-59, Cl. 128-464.
- Rosenthal, William C.: *See*—  
Hubert, Clarence A., Rosenthal, and Barrett. 2,881,627.
- Rosenwald, Robert H.: *See*—  
Chenicek, Joseph A., and Rosenwald. 2,918,361.
- Rosenwald, Robert H., to Universal Oil Products Co. 2,6-di-tertiaryalkyl-4-alkoxyphenols. 2,908,718, 10-13-59, Cl. 260-613.
- Rosenwald, Robert H., and J. A. Chenicek, to Universal Oil Products Co. Antioxidation of rubber. 2,867,604, 1-6-59, Cl. 260-45.9.
- Rosenwald, Robert H., and J. A. Chenicek, to Universal Oil Products Co. Preventing the cracking of rubber by means of certain N,N',N'',N'''-tetra-alkyl-p-phenylene diamines. 2,883,362, 4-21-59, Cl. 260-45.9.
- Rosenwald, Robert H., and J. A. Chenicek, to Universal Oil Products Co. Stabilization of rubber. 2,902,466, 9-1-59, Cl. 260-45.9.
- Rosenzweig, Bernard. Game. 2,880,001, 3-31-59, Cl. 273-136.
- Roser, C. F., G.m.b.H.: *See*—  
Neumann, Wilhelm. 2,891,279.
- Roser, Robert A., and E. W. Hedin, to Dell Foods Specialties Co. Seasoning applicator. 2,893,332, 7-7-59, Cl. 107-54.
- Rosher, Ronald, to Hercules Powder Co. Fungicides. 2,901,394, 8-25-59, Cl. 167-30.
- Rosholt, Raymond R. Combination capped comb and applicator tube. 2,887,117, 5-19-59, Cl. 132-107.
- Rosi, Fred D., to Radio Corp. of America. Method and apparatus for growing semi-conductive single crystals from a melt. 2,889,240, 6-2-59, Cl. 148-1.6.
- Rosi, Fred D., to Radio Corp. of America. Thermoelectric couple. 2,902,528, 9-1-59, Cl. 136-4.
- Rosier, Edward A. Abrading wheel dressing apparatus. 2,872,913, 2-10-59, Cl. 125-11.
- Rosier, Raymond, to Societe d'Optique et de Mecanique de Haute Precision. Large-aperture objective. 2,897,724, 8-4-59, Cl. 88-57.
- Rosin, Jacob, and J. Haus, to Montrose Chemical Co. Esters of hydroxy phosphonic acids and alkene phosphates. 2,899,456, 8-11-59, Cl. 260-461.
- Rosin, Seymour: *See*—  
Ehrenhaft, Franz F., Rosin, and Cawein. 2,884,483.  
Kaiser, Gunter, and H. 2,904,827.
- Rosing, Theodore F.: *See*—  
Heller, Herbert E., Kelto, Kuhn, and Rosing. 2,889,426.  
Kuhn, Clarence W., and Rosing. 2,908,784.
- Rosing, Theodore F., A. F. Kolb, and C. W. Kuhn, to Cutler-Hammer, Inc. Thermal devices. 2,875,297, 2-24-59, Cl. 200-124.



- Rosinski, Edward J., to Socony Mobil Oil Co., Inc. Method and apparatus for hydrocarbon conversion employing hydrocarbon reactant and recycle gas containing solid particles. 2,905,633, 9-22-59, Cl. 208-146.
- Roske, Milton H.: *See*—  
Newton, Albert E., Roske, and Walsh. 2,869,130.
- Roskelley, Jack A. Nail packaging apparatus. 2,875,565, 3-3-59, Cl. 53-235.
- Rosmarin, Philip F., and M. Pantzer, to A P O D Corp. Keratinaceous fiber dye of hydroquinone and either dehydroxyphenylalanine or dihydroxyphenylglycine and method of its use. 2,875,769, 3-3-59, Cl. 132-7.
- Rösner, Oskar. Method for separating and purifying germanium from substances containing metallic germanium. 2,892,700, 6-30-59, Cl. 75-84.
- Rosner, Saul, and F. Heller, to Burndy Corp. Solid head tubular connector and method of making same. 2,901,003, 8-25-59, Cl. 138-89.
- Ross, Alexander: *See*—  
Corrado, Ernest M., Ross, and Spanbauer. 2,904,051.
- Ross, Allan: *See*—  
Jaffe, David L., and Ross. 2,911,564.
- Ross, Arthur, to General Motors Corp. Utility tray. 2,883,235, 4-21-59, Cl. 296-37.
- Ross, Austin, to Time, Inc. Method of connecting two cascaded modulators to provide a variable percentage of modulations. 2,877,424, 3-10-59, Cl. 332-38.
- Ross, Bernd, to Hoffman Electronics Corp. Rectifier and method of making same. 2,919,386, 12-29-59, Cl. 317-234.
- Ross, Bernd, to Hoffman Electronics Corp. Semiconductor devices. 2,919,388, 12-29-59, Cl. 317-235.
- Ross, Billy L.: *See*—  
Chenery, Peter J., Fagg, and Ross. 2,877,586.
- Ross, Bruce M.: *See*—  
Barber, Harry A., and Ross. 2,913,710.
- Ross, Budd H. Means for mounting an appliance in a counter opening. 2,890,402, 6-16-59, Cl. 4-187.
- Ross, Charles R. Block making apparatus. 2,875,499, 3-3-59, Cl. 25-41.
- Ross, Charles, & Son Co.: *See*—  
Teleky, Joseph G. 2,872,122.
- Ross, Dan C., to International Business Machines Corp. Magnetic system. 2,884,621, 4-28-59, Cl. 340-174.
- Ross, David. Combined stroller and carrying case. 2,903,270, 9-8-59, Cl. 280-37.
- Ross, Donald K., to White-Rodgers Co. Carrier frequency D.C. amplifier. 2,888,523, 5-26-59, Cl. 179-171.
- Ross, Edward J., to Ferro Corp. Annularly bulged electric heating unit and method of annularly bulging same. 2,899,663, 8-11-59, Cl. 338-238.
- Ross, Elmer H. Fishing pole holder. 2,887,287, 5-19-59, Cl. 248-42.
- Ross, Elmer R., to Kelsey-Hayes Co. Mechanism for applying trailer brakes. 2,887,183, 5-19-59, Cl. 188-3.
- Ross Engineering Of Canada Ltd.: *See*—  
Bryant, James L. 2,908,212.  
Taylor, John H. 2,891,784.
- Ross, Frank R.: *See*—  
Rose, Clarence W., Krach, and Ross. 2,886,227.
- Ross Gear and Tool Co., Inc.: *See*—  
Gagen, Charles V. 2,896,589.
- Ross, Haldon. Method and apparatus for casting and handling ferro-manganese. 2,917,798, 12-22-59, Cl. 22-200.
- Ross, Harold D., B. L. Sarahan, M. M. Astrahan, B. Housman, and W. H. Thomas, to International Business Machines Corp. Program control for data processing machine. 2,914,248, 11-24-59, Cl. 235-157.
- Ross, Harry B.: *See*—  
Baker, Herman, and Ross. 2,917,436.
- Ross, Howard G., and F. W. Schuler, to Corning Glass Works. Method of producing a photograph in glass. 2,904,432, 9-15-59, Cl. 96-34.
- Ross, Hugh N., to American Instrument Co., Inc. Relative humidity measuring apparatus. 2,913,902, 11-24-59, Cl. 73-336.5.
- Ross, Ian M., to Bell Telephone Laboratories, Inc. Semi-conductive pulse translator. 2,877,358, 3-10-59, Cl. 307-88.5.
- Ross, Ian M., to Bell Telephone Laboratories, Inc. Semiconductor signal storage device. 2,877,359, 3-10-59, Cl. 307-88.5.
- Ross, Jack H. Signal equipment for motor vehicles. 2,911,635, 11-3-59, Cl. 340-263.
- Ross, James A., to Ling Electronics, Inc. Electrical equalizers in amplifier circuits. 2,907,838, 10-6-59, Cl. 179-171.
- Ross, James F., F. G. Turpin, and J. A. Polack, to Esso Research and Engineering Co. Loop separator for gases and solids. 2,878,891, 3-24-59, Cl. 183-34.
- Ross, James S.: *See*—  
Kendall, George A., and Ross. 2,867,138.
- Ross, John, to Combustion Research, Inc. Means and methods for extracting from tobacco smoke deleterious ingredients. 2,872,928, 2-10-59, Cl. 131-208.
- Ross, John, to Combustion Research, Inc. Tobacco smoking holder. 2,910,987, 11-3-59, Cl. 131-187.
- Ross, John F., and H. W. Sloyer, to General Electric Co. Halophosphate phosphor preparation. 2,904,516, 9-15-59, Cl. 252-301.4.
- Ross, John G.: *See*—  
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,879,997.  
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,890,050.
- Ross, John G., 40% to W. Nadeau, and 20% to J. P. Wuerthner. Measuring dispensing container. 2,878,975, 3-24-59, Cl. 222-359.
- Ross, John L. F., to The Ajax Mfg. Co. Shaft end roll mounting. 2,899,222, 8-11-59, Cl. 287-53.
- Ross, Joseph E. H. Bow tie rack. 2,905,331, 9-22-59, Cl. 211-49.
- Ross, Joseph F. Tube cleaner. 2,891,269, 6-23-59, Cl. 15-104.18.
- Ross, Joseph F. Combined incinerator and water heater construction. 2,891,519, 6-23-59, Cl. 122-2.
- Ross, Karl F.: *See*—  
Friedmann, Louis M., and Ross. 2,890,281.
- Ross, Karl F. Electronic lens system. 2,892,962, 6-30-59, Cl. 315-31.
- Ross, Karl G., B.-O. Johansson, S. S. Axelsson, and S. A. Andersson, to Aktiebolaget Bahco. Transportable stoves or ranges. 2,896,606, 7-28-59, Cl. 126-38.
- Ross, Kearney. Clothes rod end supports. 2,905,426, 9-22-59, Cl. 248-264.
- Ross, Kenneth A. Geometric instrument. 2,882,603, 4-21-59, Cl. 33-64.
- Ross, Laurids E.: *See*—  
Feder, Harold M., Ader, and Ross. 2,872,285.
- Ross, Lofton B. Combination reversible rake and garden implement. 2,908,131, 10-13-59, Cl. 56-400.04.
- Ross, Loren A. Socket wrench turning device. 2,911,867, 11-10-59, Cl. 81-58.4.
- Ross, Maurice T.: *See*—  
Darland, William G., Jr., and Ross. 2,914,595.
- Ross, Melvin E.: *See*—  
Koehler, Albert T., Palmleaf, and Ross. 2,881,915.
- Ross, Milton E., to Aerol Co., Inc. Sealed wheel. 2,914,364, 11-24-59, Cl. 308-187.1.
- Ross, Nevel E. Adjustment control for ink fountain for offset and type presses. 2,902,927, 9-8-59, Cl. 101-365.
- Ross Operating Valve Co.: *See*—  
Di Tirro, Domenic A., and Cameron. 2,906,246.
- Ross, Philip C., to Sperry Rand Corp. Universally movable radar antenna apparatus. 2,893,002, 6-30-59, Cl. 343-765.
- Ross, Richard R.: *See*—  
Hickley, Thomas J., Burmister, and Ross. 2,911,642.
- Ross, Richard W. Hot air furnace. 2,873,736, 2-17-59, Cl. 126-116.
- Ross, Robert E. Tube shield. 2,872,502, 2-3-59, Cl. 174-35.
- Ross, Robert H.: *See*—  
Ross, Ruben B. and R. H. 2,896,770.
- Ross, Robert T., to Radio Corp. of America. Heat radiator. 2,879,041, 3-24-59, Cl. 257-263.
- Ross, Ruben B. and R. H. Portable concrete batch plant. 2,896,770, 7-28-59, Cl. 198-53.
- Ross, Samuel J. Safety-type teeter board. 2,903,263, 9-8-59, Cl. 272-54.
- Ross, Sidney D., to Sprague Electric Co. Capacitors. 2,892,972, 6-30-59, Cl. 317-258.
- Ross, Sidney D., to Sprague Electric Co. Electrostatic capacitor. 2,897,423, 7-28-59, Cl. 317-258.
- Ross, Sidney D., to Sprague Electric Co. Dielectric compositions. 2,902,451, 9-1-59, Cl. 252-66.
- Ross, Sidney D., to Sprague Electric Co. Dielectric compositions. 2,916,680, 12-8-59, Cl. 317-258.
- Ross, Tim. Multiple degree gage. 2,887,775, 5-26-59, Cl. 33-98.
- Ross, Wilford H., Jr., to Detrex Chemical Industries, Inc. Aluminum coated with aluminum benzoate, and method and composition for making same. 2,901,821, 9-1-59, Cl. 29-495.
- Ross, Will, Inc.: *See*—  
Dearholt, John W. 2,908,308.  
Pokras, Adolph. 2,911,743.  
Polzin, Winfred J. 2,871,592.
- Ross, William C.: *See*—  
Hayes, Norman J., and Ross. 2,897,094.
- Ross, William E., to Rayflex, Inc. Elastic yarns. 2,902,819, 9-8-59, Cl. 57-152.
- Ross, William H., to J. W. Manuel. Material handling apparatus. 2,903,302, 9-8-59, Cl. 302-49.
- Rossander, Bror L. E., to Sandvikens Jerwerks Aktiebolag. Corrosion resistant treatment for hollow drill rods. 2,875,110, 2-24-59, Cl. 148-6.15.
- Rosselet, Jean. Safety arming mechanism for fuses. 2,895,419, 7-21-59, Cl. 102-71.
- Rossell, William T., to Transit Research Corp. Axle control means. 2,871,800, 2-3-59, Cl. 105-157.
- Rossell, William T., to Transit Research Corp. Rail truck construction. 2,903,975, 9-15-59, Cl. 105-197.
- Rossell, William T., to Transit Research Corp. Bolster rolling and lateral control. 2,903,976, 9-15-59, Cl. 105-197.2.
- Rosset, Pierre, to La Spirotechnique. Diver's breathing apparatus. 2,872,919, 2-10-59, Cl. 128-142.
- Rosset, Pierre, to La Spirotechnique. Diver's breathing regulator with floating diaphragm. 2,872,920, 2-10-59, Cl. 128-142.
- Rossett, Benjamin. Adjustable headwear. 2,867,816, 1-13-59, Cl. 2-197.



- Rossetti, Frederick S. and J. B. Bathtub. 2,899,687, 8-18-59, Cl. 4-149.
- Rossetti, John B.: *See*—  
Rossetti, Frederick S. and J. B. 2,899,687.
- Rossetto, Louis, to Mergenthaler Linotype Co. Assembling elevator control device for a typographical composing machine. 2,874,825, 2-24-59, Cl. 199-18.
- Rossetto, Louis, and V. M. Corrado, to Mergenthaler Linotype Co. Typographical composing machine. 2,869,717, 1-20-59, Cl. 199-18.
- Rossheim, David B., to The M. W. Kellogg Co. Method for fabricating vessels. 2,901,592, 8-25-59, Cl. 219-137.
- Rossi, Anthony J. Method of making a cheese flavored salad dressing. 2,882,168, 4-14-59, Cl. 99-144.
- Rossi, August. Apparatus for manufacturing ceramic tiles. 2,918,715, 12-29-59, Cl. 25-122.
- Rossi, Bruno, and K. I. Greisen, to United States of America, Navy. Range tracking circuit. 2,903,691, 9-8-59, Cl. 343-7.3.
- Rossi, Dominic J.: *See*—  
Close, Charles D., Rossi, and Williams. 2,882,037.
- Rossi, Giovanni. Material conveying device. 2,906,417, 9-29-59, Cl. 214-17.
- Rossi, Harry J., to Continental Can Co., Inc. Display support. 2,889,127, 6-2-59, Cl. 248-174.
- Rossi, Irving.: *See*—  
Dubilier, William, Rossi, and M. H. Dubilier. 2,881,372.
- Rossi, Joseph A.: *See*—  
Anderson, Harry R., Esposito, and Rossi. 2,870,022.
- Rossi, Paul. Floatable soap container and scrubber. 2,886,916, 5-19-59, Cl. 45-28.
- Rossi, Rinaldo. Warm and cold water mixing valve for baths, sinks and the like. 2,870,787, 1-27-59, Cl. 137-597.
- Rossi, William J.: *See*—  
Ellis, John R. B., Robbers, and Rossi. 2,904,592.
- Scott, John W., Jr., Lavender, and Rossi. 2,870,230.
- Rossin, Peter C., Jr., and S. J. Noesen, to General Electric Co. Consumable electrode arc melting furnace. 2,907,806, 10-6-59, Cl. 13-9.
- Rossler, George.: *See*—  
Apel, Alfons, and Rossler. 2,917,390.
- Rossman, Edwin F., to General Motors Corp. Control mechanism. 2,879,795, 3-31-59, Cl. 137-596.
- Rossmanith, Wolfgang.: *See*—  
Herlach, Heinrich, Stadelmann, and Rossmanith. 2,910,917.
- Rosso, Charles. Electric fuse. 2,900,475, 8-18-59, Cl. 200-131.
- Rossum, Robert T. Package for sliced bacon and the like. 2,878,985, 3-24-59, Cl. 229-40.
- Rossum, Robert T. Compartmented carton. 2,884,179, 4-28-59, Cl. 229-28.
- Rostan, Robert A., to Russell & Stoll Co., Inc. Floor mounted electrical conduit. 2,916,540, 12-8-59, Cl. 174-48.
- Rostau, Morris, to Atlantic Plastics Co., Inc. Storage unit. 2,907,618, 10-6-59, Cl. 312-270.
- Rosten, Philip W.: *See*—  
Rosten, Randolph T. and P. W. 2,906,285.
- Rosten, Randolph T. and P. W. 2,906,332.
- Rosten, Randolph T. and P. W., to Capital Plating & Machine Co. Submerged valve mechanism, more particularly for water softener brine tank. 2,906,285, 9-29-59, Cl. 137-391.
- Rosten, Randolph T. and P. W., to Capital Plating & Machine Co. Controls for water softening apparatus and system. 2,906,332, 9-29-59, Cl. 161-7.
- Rosti, Arpad, and J. Brunot, to Production and Marketing Co. Board game. 2,896,950, 7-28-59, Cl. 273-131.
- Rostone Corp.: *See*—  
Wilkinson, Robert E. 2,877,499.
- Rostron, Frank, to Newman, Hender and Co., Ltd. Egg handling plants. 2,895,589, 7-21-59, Cl. 198-33.
- Rota, Beniamino. Automatic machine for preparing coffee drink. 2,910,928, 11-3-59, Cl. 99-289.
- Rota Parking, Inc.: *See*—  
Diehl, Glenn A. 2,904,200.
- Rotameter Mfg. Co. Ltd.: *See*—  
Van de Ven, Jan M. F. 2,880,411.
- Rotaprint Ltd.: *See*—  
King, Carl G. 2,868,456.
- Wadlow, Derek N. 2,898,853.
- Rotary Engineering de Mexico, S.A.: *See*—  
Tielens, Roger E. 2,900,845.
- Rotary Hoes Ltd.: *See*—  
Howard, Arthur C. 2,886,116.
- Howard, Arthur C. 2,910,129.
- Rotax Ltd.: *See*—  
Gribble, Frederick D. 2,878,338.
- Hankins, William C. 2,911,583.
- Millins, Terence W. 2,891,413.
- Robinson, Eric E. 2,869,067.
- Robinson, Eric E. 2,873,420.
- Rote, William A.: *See*—  
Maynard, John A., and Rote. 2,874,350.
- Rote, William A., to Minneapolis-Honeywell Regulator Co. D.C. amplifier system. 2,882,352, 4-14-59, Cl. 179-171.
- Roteman, Jerome.: *See*—  
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- Roth, Adolf. Piston type internal combustion engine. 2,904,023, 9-15-59, Cl. 123-48.
- Roth, Artur.: *See*—  
Patton, Wade H. and W. H., Jr., and Roth. 2,883,038.
- Roth, Artur, to Lanston Monotype Machine Co. Vacuum communicating device for rotary negative holder. 2,907,258, 10-6-59, Cl. 95-76.
- Roth, Barbara.: *See*—  
Hitchings, George H., and Roth. 2,897,116.
- Hitchings, George H., and Roth. 2,909,522.
- Roth, Curtis W. Retractable trailer hitch. 2,914,343, 11-24-59, Cl. 280-491.
- Roth, David R., and B. T. Smith; said Smith assor. to said Roth. Bed construction. 2,877,470, 3-17-59, Cl. 5-131.
- Roth, Donald W.: *See*—  
Skinner, George M., and Roth. 2,868,954.
- Roth, Donald W., K. L. Thomas, and C. R. McKinsey, to Union Carbide Corp. Multi-gas sigma welding. 2,919,341, 12-29-59, Cl. 219-74.
- Roth, Dwight A. Conveyor. 2,876,901, 3-10-59, Cl. 209-121.
- Roth, Edward M., Jr., to Food Machinery and Chemical Corp. Stabilizing hydrogen peroxide. 2,872,293, 2-3-59, Cl. 23-207.5.
- Roth, Franz, and H. Walti. Garaging structure. 2,876,913, 3-10-59, Cl. 214-16.1.
- Roth, Harold, and S. Solow, to Allen B. Du Mont Laboratories, Inc. Sweep generator. 2,906,962, 9-29-59, Cl. 331-143.
- Roth, Herman P., and C. F. Lombard, to United Tanks, Inc. Retaining means for helmets and face masks. 2,867,812, 1-13-59, Cl. 2-6.
- Roth, Kurt. Process and device for measuring fatty materials and the like. 2,908,159, 10-13-59, Cl. 73-53.
- Roth, Leo C., to Roy E. Roth Co. Combination centrifugal-turbine pump. 2,875,693, 3-3-59, Cl. 103-103.
- Roth, Mathias.: *See*—  
Jenson, Kenneth S., and Roth. 2,893,305.
- Roth, Milton. Folding step ladder. 2,899,009, 8-11-59, Cl. 182-104.
- Roth, Morris.: *See*—  
Freeman, William A., Jr., and Roth. 2,898,086.
- Roth, Murray H., to Monsanto Chemical Co. Physical treatment of particulate foamable styrene polymer compositions. 2,910,446, 10-27-59, Cl. 260-2.5.
- Roth, Murray H., to Monsanto Chemical Co. Method of improving the foaming characteristics of particulate foamable styrene polymers. 2,911,381, 11-3-59, Cl. 260-2.5.
- Roth, Otto W. Under-edge burring tool. 2,882,597, 4-21-59, Cl. 30-286.
- Roth, Philip B.: *See*—  
Lawler, Edward B., Vartanian, and Roth. 2,909,451.
- Roth, Robert G.: *See*—  
Burland, Peter D., and Roth. 2,911,365.
- Roth, Robert I., to International Business Machines Corp. Printer positioning mechanism. 2,867,168, 1-6-59, Cl. 101-93.
- Roth, Robert I., to International Business Machines Corp. Data storage device. 2,889,539, 6-2-59, Cl. 340-173.
- Roth, Robert I., to International Business Machines Corp. Accounting machine controlled by differently coded cards. 2,896,844, 7-28-59, Cl. 235-61.9.
- Roth, Robert I., to International Business Machines Corp. Pressure measuring means. 2,905,000, 9-22-59, Cl. 73-389.
- Roth, Robert I., to International Business Machines Corp. Accounting machine controlled by differently coded cards with data comparison of successive cards. 2,914,245, 11-24-59, Cl. 235-61.7.
- Roth, Robert R.: *See*—  
Burland, Peter D., and Roth. 2,868,837.
- Evans, Thomas, Roth, and Hubbard. 2,881,581.
- Knapp, William E., and Roth. 2,876,017.
- Roth, Roy E., Co.: *See*—  
Roth, Leo C. 2,875,698.
- Roth, Seymour H., to United States of America, Army. Phase lock system. 2,914,732, 11-24-59, Cl. 331-18.
- Roth, Szymon.: *See*—  
Cohen, Elie, and Roth. 2,906,900.
- Roth, Wilfred.: *See*—  
Rich, Stanley R., and Roth. 2,892,085.
- Rothacker, Francis N., to Sealtron Corp. Magnetic heating in extrusion apparatus. 2,904,664, 9-15-59, Cl. 219-10.49.
- Rothbart, Arthur, to International Telephone and Telegraph Corp. Digital to analog translator. 2,881,419, 4-7-59, Cl. 340-347.
- Rothe, Bruno J.: *See*—  
Kuhnert, Alfred R., and Rothe. 2,901,940.
- Rothe, Gerhard, to Maschinenfabrik Lorenz Aktiengesellschaft. Gear milling machine. 2,909,102, 10-20-59, Cl. 90-4.
- Rothe, Paul G., to Telefunken G.m.b.H. Frequency response curve equalization. 2,895,111, 7-14-59, Cl. 333-28.
- Rötheli, Rudolf.: *See*—  
Müller, Karl, and Rötheli. 2,881,530.
- Rothenstein, Guy G. Home installations. 2,901,780, 9-1-59, Cl. 20-1.11.
- Rother, Richard J., Sr., and A. R. McManus, to Crown Zellerbach Corp. Asphalt release coating. 2,916,466, 12-8-59, Cl. 260-17.4.
- Rotherm Engineering Co., Inc.: *See*—  
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- Rothermel, Edward M.: *See*—  
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- Rothermel, Edward M., to The Dayton Rubber Co. Flexible conduits. 2,898,942, 8-11-59, Cl. 138-56.
- Rothfiell, Rolf E. Camera for the photographing of objects with known extension length. 2,868,096, 1-13-59, Cl. 95-11.
- Rothfuchs, Oscar E., and A. H. Hartwig, to Pullman Inc. Journal bearing press. 2,906,012, 9-29-59, Cl. 29-252.
- Rothfuchs, Oscar E., and P. M. Hess, to Pullman-Inc. Car roof seam structure. 2,910,018, 10-27-59, Cl. 108-5.4.
- Rothman, Edward S., and M. E. Wall, to United States of America, Agriculture. Process for conversion of  $3\beta,17\alpha$ -dihydroxy-5-pregnene-11,20-dione to cortisone acetate. 2,883,403, 4-21-59, Cl. 260-397.45.
- Rothman, Edward S., and M. E. Wall, to United States of America, Agriculture. 11-keto diosgenin. 2,899,428, 8-11-59, Cl. 260-239.55.
- Rothrock, Edward H.: *See*—  
Tarleton, Howard A., and Rothrock. 2,897,958.
- Rothrock, Henry S.: *See*—  
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Handy, Carleton T., and Rothrock. 2,898,377.
- Rothrock, Henry S., and C. W. Tullock, to E. I. du Pont de Nemours and Co. Addition-type copolymers having extralinear glycidyl and amino groups and process for their preparation. 2,910,459, 10-27-59, Cl. 260-86.1.
- Rothrock, Jonas H.: *See*—  
MacDougall, Alexander, and Rothrock. 2,880,880.
- Rothschild, Gertrude N., to Sylvania Electric Products Inc. Electroluminescent display devices. 2,915,641, 12-1-59, Cl. 250-213.
- Rothschild, Gilbert R., and H. R. Lyons, to Air Reduction Co., Inc. Welding of steel. 2,907,864, 10-6-59, Cl. 219-74.
- Rothstein, Milton, and B. Lichtenstein, to Radio Receptor Co., Inc. Stray field electrode buffer. 2,867,709, 1-6-59, Cl. 219-10.53.
- Rothwell, John J.: *See*—  
Dahlgren, John V. S., and Rothwell. 2,880,292.
- Roto Bag Machine Corp.: *See*—  
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- Roto-Table Co.: *See*—  
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- Roto-Werke Akt.: *See*—  
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- Rotol Ltd.: *See*—  
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Fairhurst, Leonard G., and Danvers. 2,869,650.  
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- Rotolite Corp.: *See*—  
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- Rotondo, Richard J., and J. G. Streiffert, to Eastman Kodak Co. Dimensionally stable photographic film transparencies. 2,885,936, 5-12-59, Cl. 95-1.
- Rotor Tool Co., The: *See*—  
Van Sittert, Paul R. 2,867,808.
- Rotow, Alexander A., to Radio Corp. of America. Electron discharge device. 2,887,594, 5-19-59, Cl. 313-65.
- Rotronic Corp. Ltd.: *See*—  
Robertson, William G. 2,877,807.
- Rott, Clarence: *See*—  
Heidergott, Harry W., and Rott. 2,878,556.
- Rotter, Hans-Werner: *See*—  
Keuth, Heinz, Rotter, and Guillery. 2,906,649.  
Knoll, Karl, Rotter, and Voll. 2,887,764.
- Rotter, Hans-Werner, to Siemens-Schuckertwerke Aktiengesellschaft. Method for producing mica pulp. 2,915,477, 12-1-59, Cl. 252-378.
- Rotter, Lutwin C., to The McNeil Machine & Engineering Co. Dispensing apparatus. 2,898,005, 8-4-59, Cl. 222-135.
- Rottgardt, Jurgen, to International Standard Electric Corp. Process of making transparent luminescent screens. 2,876,129, 3-3-59, Cl. 117-33.5.
- Rottweiler Kunstseidefabrik Akt.: *See*—  
Binder, Hans, and Bullinger. 2,877,262.
- Rotwein, Irving, to Packard Container Corp. Air pumps and valves therefor. 2,908,109, 10-13-59, Cl. 46-90.
- Rotzler, Ross W., J. P. Hickman, and W. H. Collier, to Monsanto Chemical Co. Acetylene recovery process. 2,868,327, 1-13-59, Cl. 183-115.
- Roubal, Alexander J., to Allis-Chalmers Mfg. Co. Severable head nut for gyratory crusher. 2,883,218, 4-21-59, Cl. 287-52.1.
- Roubloff, Alexander D., to Wiesner-Rapp Co., Inc. Counter-sink machines. 2,884,819, 5-5-59, Cl. 77-33.5.
- Roucaeyrol, Jean-Claude, and E. Oberhausen, to Centre National de la Recherche Scientifique. Radio-activity measuring device. 2,907,881, 10-6-59, Cl. 250-71.
- Rouche, Nicolas L. M., to International Standard Electric Corp. Calculating means. 2,911,149, 11-3-59, Cl. 235-153.
- Roudanez, Georges. Combination oil and gas burner. 2,912,696, 11-10-59, Cl. 158-11.
- Roudebush, Melvin T., and W. L. Moyer, to The National Cash Register Co. Switching means. 2,919,331, 12-29-59, Cl. 200-153.
- Rough, Robert R., to Owens-Illinois Glass Co. Electrode for a glass melting furnace. 2,908,738, 10-13-59, Cl. 13-17.
- Roujoub, Léopold A. G., to Societe Belge Prat-Daniel, Societe Anonyme. Apparatus for washing gases. 2,871,973, 2-3-59, Cl. 183-3.
- Roulston, Kenneth I.: *See*—  
Lundberg, Hans T. F., Pringle, Roulston, and Brownell. 2,897,368.
- Roundy, Zola D., to Armour and Co. Preparation of Swiss cheese. 2,900,257, 8-18-59, Cl. 99-116.
- Roup, Rolland R., R. L. Hitzeman, H. U. Taylor, and C. L. Beard, to Globe-Union Inc. Non-reactive refractory. 2,905,564, 9-22-59, Cl. 106-57.
- Roura, Carmen S., and J. I. Perez. Pair of corset-panties. 2,898,918, 8-11-59, Cl. 128-525.
- Rouse, Benjamin P., Jr., and R. O. Hill, Jr., to Eastman Kodak Co. Stabilized cellulose ester compositions and process for preparing the same. 2,899,316, 8-11-59, Cl. 106-173.
- Roush, James L., to United States of America, Atomic Energy Commission, Calutron receiver structure. 2,903,587, 9-8-59, Cl. 250-41.9.
- Roush, Paul A.: *See*—  
Glover, William S., West, Roush, and Budzilek. 2,917,197.  
Roush, Sigel G. Rack for phonograph records. 2,916,151, 12-8-59, Cl. 211-40.
- Rousseau, Genevieve: *See*—  
Warnant, Julien, Nomine, and Rousseau. 2,894,960.
- Rousseau, Leo J., to Minit-Man, Inc. Portable vehicle washing machine. 2,876,472, 3-10-59, Cl. 15-21.
- Rousseau, Pierre: *See*—  
Nomarski, Georges, and Rousseau. 2,916,966.
- Roussel, Philip A., to E. I. du Pont de Nemours & Co. Stabilization of polyurethane reaction products. 2,877,193, 3-10-59, Cl. 260-18.
- Roussos, Michel, and Y. Bourgeois, to Societe Anonyme dite: Societe des Produits Chimiques de Bezons. Preparation of pure myristic alcohol. 2,897,243, 7-28-59, Cl. 260-638.
- Roustant, Maurice: *See*—  
Losfeld, André, and Roustant. 2,882,825.
- Routh, Herman M., and H. E. Crawford. Stitch length graduating attachment. 2,911,808, 11-10-59, Cl. 66-55.
- Routh, Joseph I.: *See*—  
Dryer, Robert L., Routh, and Nunamaker. 2,907,638.
- Routien, John B.: *See*—  
Sardinas, Joseph L., Routien, and Shull. 2,882,205.  
Shull, Gilbert M., and Routien. 2,872,380.
- Routien, John B., and G. M. Shull, to Chas. Pfizer & Co., Inc. 11 $\beta$ -hydroxylation of steroids by epicoccum. 2,875,134, 2-24-59, Cl. 195-51.
- Routledge, James H., to International Harvester Co. Hydraulic power steering mechanism for two-wheeled tractors. 2,885,021, 5-5-59, Cl. 180-79.2.
- Routledge, James H., to International Harvester Co. Cushioning means for hydraulic actuating means. 2,897,791, 8-4-59, Cl. 121-46.
- Rouyer, Louis: *See*—  
Vandamme, Louis, and Rouyer. 2,891,375.
- Rovelli, Nino, to Societa Italiana Resine. Process for the production of cumene hydroperoxide. 2,897,239, 7-28-59, Cl. 260-610.
- Rover Co. Ltd., The: *See*—  
King, Charles S. 2,874,765.
- Row, John W. Socket cleaner. 2,910,713, 11-3-59, Cl. 15-210.
- Rowan, Albert T., Jr.: *See*—  
Rowan, Albert T. 2,901,196.
- Rowan, Albert T.,  $\frac{1}{2}$  to M. F. Rowan,  $\frac{1}{2}$  to D. A. Rowan,  $\frac{1}{2}$  to A. T. Rowan, Jr., and  $\frac{1}{2}$  to M. A. Rowan, by decree of distribution. Retractable tool mount. 2,901,196, 8-25-59, Cl. 248-23.
- Rowan, Donald A.: *See*—  
Rowan, Albert T. 2,901,196.
- Rowan, Margery F.: *See*—  
Rowan, Albert T. 2,901,196.
- Rowan, Mary A.: *See*—  
Rowan, Albert T. 2,901,196.
- Rowan, William H.: *See*—  
Stareck, Jesse E., Seyb, Johnson, and Rowan. 2,916,424.
- Rowand, Harold E.: *See*—  
Belton, Maurice L., and Rowand. 2,894,434.
- Rowand, Will H., to The Babcock & Wilcox Co. Plural furnace single drum steam generating unit. 2,897,795, 8-4-59, Cl. 122-406.
- Rowand, Will H., to The Babcock & Wilcox Co. Supercritical pressure steam heating process. 2,908,632, 10-13-59, Cl. 208-106.
- Rowand, Will H., to The Babcock & Wilcox Co. Vapor generator. 2,914,040, 11-24-59, Cl. 122-476.
- Rowand, Will H., C. L. Marquez, C. B. Bayer, and A. J. Hughes, to The Babcock & Wilcox Co. Vapor generating, superheating and reheating unit. 2,891,522, 6-23-59, Cl. 122-481.
- Rowand, Will H., and D. C. Braddy, to The Babcock & Wilcox Co. Forced circulation vapor generating units. 2,902,982, 9-8-59, Cl. 122-478.
- Rowe, Arthur G., Jr., to E. I. du Pont de Nemours and Co. Apparatus for vacuum thermoforming. 2,910,728, 11-3-59, Cl. 18-19.
- Rowe, Carl H.: *See*—  
Hirschy, Harlan W., Rowe, and Harwood. 2,902,395.



- Rowe, Gilbert, and J. A. Plumstead, to Esso Research and Engineering Co. Polymerization of isoolefins. 2,906,793, 9-29-59, Cl. 260—683.15.
- Rowe, Harrison E.: *See—*  
Goodall, William M., and Rowe. 2,899,508.
- Rowe Industries: *See—*  
De Armond, Harry, and Meeker. 2,909,092.
- Rowe Mfg. Co., Inc.: *See—*  
Baker, Halsted W., Jr., and Turner. 2,876,883.  
Gabrielsen, Christian, and Post. 2,877,076.  
Gabrielsen, Christian. 2,885,166.  
Gabrielsen, Christian. 2,893,596.  
Gabrielsen, Christian, Vorperian, and Sukovich. 2,888,168.  
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Kirkpatrick, William T. 2,867,487.  
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- Rowe, Norman L., and G. Reischl, to Ideal Roller and Mfg. Co. Dampener for lithographic printing. 2,891,470, 6-23-59, Cl. 101—148.
- Rowe, Raymond N., to General Electric Co. Terminal assembly for enclosed electric apparatus. 2,885,652, 5-5-59, Cl. 339—198.
- Rowe, Richard G.: *See—*  
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- Rowe, Stewart: *See—*  
Hurley, Richard H., and Rowe. 2,918,377.
- Rowe, Stewart, and C. T. Nugent, to The Buckeye Cellulose Corp. Method of preparing protein. 2,887,395, 5-19-59, Cl. 106—154.
- Rowe, Sylvester J. Trousers hanger. 2,893,614, 7-7-59, Cl. 223—96.
- Rowe, Walter C., to The Firestone Tire & Rubber Co. White sidewall for pneumatic tires. 2,874,743, 2-24-59, Cl. 152—330.
- Rowe, William D., to Westinghouse Electric Corp. Single transistor full wave rectifier. 2,913,597, 11-17-59, Cl. 307—88.5.
- Rowe, William H., to Allied Chemical Corp. Pallet. 2,906,480, 9-29-59, Cl. 248—120.
- Rowell, Lorne A., to Imperial Tobacco Co. of Canada Ltd. Apparatus for conditioning tobacco. 2,869,556, 1-20-59, Cl. 131—135.
- Rowell, Russell E.: *See—*  
Rogers, Robert A., Johnson, and Rowell. 2,907,949.
- Rowell, William G., to Scully Signal Co. Automatic engine cut-off for pump-equipped tank truck vehicles. 2,900,915, 8-25-59, Cl. 103—27.
- Rowell, Zachrah B., and R. W. Easterwood,  $\frac{1}{2}$  to C. E. Vaughan. Combined circuit breaker. 2,912,534, 11-10-59, Cl. 200—61.47.
- Rowen, John H.: *See—*  
Davis, James L., and Rowen. 2,909,738.
- Rowen, John H., to Bell Telephone Laboratories, Inc. Non-reciprocal circuit element. 2,885,640, 5-5-59, Cl. 333—11.
- Rowen, John H., to Bell Telephone Laboratories, Inc. Non-reciprocal circuit element. 2,892,158, 6-23-59, Cl. 333—24.
- Rowen, John H., to Bell Telephone Laboratories, Inc. Non-reciprocal circuit element. 2,892,160, 6-23-59, Cl. 333—26.
- Rowen, John H., to Bell Telephone Laboratories, Inc. Non-reciprocal circuit element. 2,895,114, 7-14-59, Cl. 333—98.
- Rowland, Charles S., and H. D. Zucker, to Interchemical Corp. Water-in-lacquer emulsion comprising alkyd resin, solvent and water. 2,897,165, 7-28-59, Cl. 260—19.
- Rowland, George H., and C. W. Williams, Jr., to Safeway Stores, Inc. Peanut butter product. 2,911,303, 11-3-59, Cl. 99—128.
- Rowland, Homer C., to Hallmark Cards, Inc. Knotless bow. 2,886,912, 5-19-59, Cl. 41—10.
- Rowland, Jasper M. Stock market game. 2,908,501, 10-13-59, Cl. 273—148.
- Rowland, John: *See—*  
Moy, John A. E., and Rowland. 2,889,272.  
Moy, John A. E., and Rowland. 2,889,274.
- Rowland, Ralph W., to Vitro Corp. of America. Transistor protection circuitry. 2,900,530, 8-18-59, Cl. 307—88.5.
- Rowland, Stanley P., and E. G. Pritchett, to National Distillers and Chemical Corp. Aliphatic monoolefin polymerization method. 2,916,480, 12-8-59, Cl. 260—94.9.
- Rowland, Walter P.: *See—*  
Martin, Kenneth P., and Rowland. 2,909,266.
- Rowlands, Daniel C., and W. H. Gillen, to The Air Reduction Co., Inc. Methyl butynyl stearate. 2,882,287, 4-14-59, Cl. 260—410.9.
- Rowles, Franklin M., to Cal-Gas Equipment Corp. Automatic safety control system for vehicles. 2,871,872, 2-3-59, Cl. 137—351.
- Rowles, Reginald V., and B. T. Gowing, to Anglo-American Extrusion Co. Hydraulic press construction. 2,896,581, 7-28-59, Cl. 121—38.
- Rowlett, Cecil H.: *See—*  
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- Rowley, Donald J.: *See—*  
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- Rowley, Douglas W.: *See—*  
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- Rowley, Edward C.: *See—*  
Papy, Hugh R., Carson, and Rowley. 2,896,808.
- Rowley, Geoffrey C.: *See—*  
Petherick, Edward J., and Rowley. 2,886,242.  
Petherick, Edward J., and Rowley. 2,913,177.  
Petherick, Edward J., and Rowley. 2,913,178.
- Rowley, George A., to Plastic Binding Corp. Rolling of plastic strips. 2,867,846, 1-13-59, Cl. 18—19.
- Rowley, James A., and J. A. Messing, to I-T-E Circuit Breaker Co. Trolley collector. 2,877,312, 3-10-59, Cl. 191—59.1.
- Rowley, Lothair H.: *See—*  
Rich, Lewis C., and Rowley. 2,878,435.
- Rowley, Lothair H., to Ford Instrument Co. of Sperry-Rand Corp. Magnetic amplifier circuit. 2,870,417, 1-20-59, Cl. 323—89.
- Rowley, Lothair H., and H. Milenbach, to Sperry Rand Corp. Transistor controlled magnetic amplifier. 2,902,547, 9-1-59, Cl. 179—171.
- Rowley, Lothair H., and W. C. Boehm, Jr., to Sperry Rand Corp. Means of producing hipersil cores to facilitate mounting thereof. 2,906,977, 9-29-59, Cl. 336—68.
- Rowls, Garth A.: *See—*  
Kendall, Thomas L., and Rowls. 2,890,262.
- Rowls, Garth A., to General Motors Corp. Storage battery non-overfill device. 2,872,500, 2-3-59, Cl. 136—178.
- Rowls, Garth A., and D. G. Townsend, to General Motors Corp. Vent plug and method of using same. 2,872,499, 2-3-59, Cl. 136—177.
- Roxburgh, Albert, and A. Leigh, to The British Thomson-Houston Co. Ltd. Air or gas blast electric circuit breakers. 2,902,570, 9-1-59, Cl. 200—148.
- Roy, Albert E., to Deer Lodge Mfg. Co. Checkstand. 2,884,094, 4-28-59, Cl. 186—1.
- Roy, Grant: *See—*  
Sheffield, John W. 2,903,786.
- Roy, James W.: *See—*  
Procopio, Vincent F., and Roy. 2,909,639.
- Roy, Joseph T., to American Smelting and Refining Co. Continuous tapping of metallurgical furnace. 2,890,951, 6-16-59, Cl. 75—77.
- Roy, Martin: *See—*  
Plante, Louis P., and Roy. 2,884,961.
- Roy, Milton, Co.: *See—*  
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Saalfrank, Royal B. 2,892,352.  
Saalfrank, Royal B. 2,898,867.  
Schneider, George W. 2,880,705.  
Sheen, Robert T. 2,881,596.  
Sheen, Robert T. 2,881,958.
- Roy, Richard, Venetian blind duster. 2,877,482, 3-17-59, Cl. 15—210.
- Roy, Robert, Jr.,  $\frac{1}{2}$  to V. B. Roy, and  $\frac{1}{2}$  to R. R. Lynch. Nutating propeller pump. 2,897,761, 8-4-59, Cl. 103—5.
- Roy, Tubin K., to Chemical Construction Corp. Cobalt and nickel recovery using carbon dioxide leach. 2,867,503, 1-6-59, Cl. 23—61.
- Roy, Virginia B.: *See—*  
Roy, Robert, Jr. 2,897,761.
- Roy, William A.: *See—*  
Lamb, Francis X., Huber, Estoppey, Roy, and Dempster. 2,875,409.
- Roy, Yvon. Carrier-current intercommunication system. 2,883,459, 4-21-59, Cl. 179—2.5.
- Royal Appliance Mfg. Co.: *See—*  
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- Royal Factories, Inc.: *See—*  
Cutler, Norman. 2,867,926.
- Royal McBee Corp.: *See—*  
D'Onofrio, Anthony, Cetran, and Lapointe. 2,903,119.  
Dreher, Elmer H., and Perez. 2,903,671.  
Enders, John A. 2,896,765.  
Frechette, Kenneth R. 2,885,042.  
Frechette, Leo P. 2,907,436.  
Gray, James A. 2,873,015.  
Harkins, Elza E., and Young. 2,872,188.  
Heinrich, Henry A., and Waterman. 2,880,841.  
Hooe, Hunter E. 2,874,776.  
Kwartler, Irwin E., and Wade. 2,898,919.  
Lambert, Harry L. 2,873,014.  
Lambert, Harry L. 2,889,025.  
Lambert, Harry L. 2,900,130.  
Lambert, Harry L. 2,917,151.  
Lambert, Harry L., and Page. 2,880,837.  
Lambert, Harry L., Page, and Snyder. 2,894,614.  
La Pointe, Lloyd J. 2,892,046.  
Lapointe, Lloyd J. 2,915,243.  
Messner, George A., and Cero. 2,880,839.  
Peterson, Wilbur L. 2,891,649.  
Rivers, George D., and Lapointe. 2,899,676.  
Wendt, Frederick C. 2,886,161.  
Wheeler, Reynold E. 2,909,263.
- Royal Metal Mfg. Co.: *See—*  
Schlackman, Joseph, and Benoit. 2,906,575.
- Royal-Pioneer Paper Box Mfg. Co., Inc.: *See—*  
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- Royal Trust Co., The: *See—*  
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- Royce, Donald F., to Bourns Laboratories, Inc. Potentiometers. 2,898,569, 8-4-59, Cl. 338—180.
- Royce, Henry W.: *See—*  
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- Roycroft, William J., Jr. Adjustable sign. 2,888,763, 6-2-59, Cl. 40—129.
- Royder, Thomas H.: *See—*  
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- Royennr, Stanley H.: *See*—  
Schaefer, Peter R., Wojciak, and Royennr. 2,873,355.
- Royer, Arthur G., and W. J. Thompson, to Harris-Intertype Corp. Cylinder throwoff for rotary offset machine. 2,874,636, 2-24-59, Cl. 101—218.
- Royer, Darrell E., to General Motors Corp. Governor valve assembly. 2,869,564, 1-20-59, Cl. 137—48.
- Royer, George H.: *See*—  
Bright, Richard L., and Royer. 2,885,570.
- Royer, Lloyd A. Incinerator. 2,882,842, 4-21-59, Cl. 110—18.
- Royer, Wayne H., to Capital Products Corp. Level oven un-loader. 2,874,650, 2-24-59, Cl. 107—57.
- Royet, Paul F. Arrangement for adjusting the view-taking conditions in cameras. 2,884,843, 5-5-59, Cl. 95—64.
- Royle, Allan R.: *See*—  
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- Royles Ltd.: *See*—  
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- Royston Laboratories, Inc.: *See*—  
Kuxhaus, Ruben H. 2,867,188.
- Royston, Robert,  $\frac{1}{2}$  to H. G. Hardy. Playground equipment. 2,883,192, 4-21-59, Cl. 272—2.
- Rozmus, Walter J., to Utica Drop Forge & Tool Corp. Strap wrench. 2,897,705, 8-4-59, Cl. 81—64.
- Rozmus, Walter J., to Kelsey-Hayes Co. Lock for slidable jaw wrench. 2,913,942, 11-24-59, Cl. 81—165.
- Rozmus, Walter J., and W. A. Barnes, to Kelsey-Hayes Co. Method and apparatus for uniting tubular members. 2,909,951, 10-27-59, Cl. 78—82.
- Rozzelle, Donald G., to Donald G. Rozzelle. 2,916,960, 12-15-59, Cl. 86—23.
- Rubber and Asbestos Corp.: *See*—  
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Been, Jerome L., and Grover. 2,879,252.
- Rubber-Latex-Poeder-Compagnie N. V.: *See*—  
Stam, Martinus J. 2,875,823.
- Rubber Teck, Inc.: *See*—  
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- Ruben, Martin. Method of converting difficultly soluble organic compounds to readily soluble complex compounds, and said complex compounds. 2,901,472, 8-25-59, Cl. 260—96.5.
- Ruben, Robert M.: *See*—  
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- Rubens, Harry S., to National Electric Instrument Co., Inc. Obturating means for endoscopic sheaths. 2,907,321, 10-6-59, Cl. 128—7.
- Rubens, Louis C., to The Dow Chemical Co. Method for making cellular vinyl aromatic polymers using neopentane as the blowing agent. 2,878,194, 3-17-59, Cl. 260—2.5.
- Rubens, Sidney M., to Sperry Rand Corp. Method of treating magnetic material and resulting articles. 2,900,282, 8-18-59, Cl. 117—227.
- Rubens, Sidney M., A. B. Bergh, and P. E. Oberg, to Sperry Rand Corp. Magnetic transducing apparatus. 2,892,041, 6-23-59, Cl. 179—100.2.
- Rubenstein, Alan S.: *See*—  
Rosenblatt, Murray, and Rubenstein. 2,899,630.
- Rubenstein, Alan S., to General Electric Co. Load regulator. 2,914,680, 11-24-59, Cl. 290—4.
- Rubenstein, Harry J. Display fixture having improved article supporting back portion. 2,897,975, 8-4-59, Cl. 211—106.
- Rubenstein, Harry J. Display rack having improved joint structure. 2,913,124, 11-17-59, Cl. 211—55.
- Rubenstein, Julia. Detachable button and button fastening device. 2,916,784, 12-15-59, Cl. 24—103.
- Rubenstein, Sherman. Motor for toys. 2,881,864, 4-14-59, Cl. 185—37.
- Ruberoid Co., The: *See*—  
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Abraham, Herbert. 2,897,773.  
Abraham, Herbert. 2,900,928.  
Abraham, Herbert. 2,910,019.  
Bettoli, Phillip S., and Lyons. 2,885,073.  
Sperling, Reuben. 2,883,354.
- Ruberti, William J. Spacer for justifying lines of type. 2,872,856, 2-10-59, Cl. 95—4.5.
- Rubico, Jerome A., to Wright-Batchelder Corp. Cement lasted shoes having a perforated welt. 2,876,469, 3-10-59, Cl. 12—142.
- Rubico, Jerome A., to Batchelder Rubico, Inc. Self adjusting welt guide. 2,878,762, 3-24-59, Cl. 112—52.
- Rubidge, Harold S., Jr.: *See*—  
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- Rubin, Barney: *See*—  
Crandall, Howard W., Hicks, Rubin, and Thomas. 2,916,349.
- Rubin, Irving C. Dial type slide rule for teaching arithmetic. 2,906,037, 9-29-59, Cl. 35—31.
- Rubin, Julius: *See*—  
Seefeldt, Fred C., and Rubin. 2,893,216.
- Rubin, Leon J., and G. C. Buckley. Process for degrading side-chains of cholic acid materials. 2,894,005, 7-7-59, Cl. 260—397.1.
- Rubin, Leon J., B. F. Teasdale, and W. G. Mertens, to Canada Packers, Ltd. Method for the fractional crystallization of cottonseed oil. 2,910,363, 10-27-59, Cl. 99—118.
- Rubin, Lewis J., to Arrow Fastener Co., Inc. Hammer type staplers. 2,896,210, 7-28-59, Cl. 1—49.
- Rubin, Martin: *See*—  
Bersworth, Frederick C., and Rubin. 2,875,129.
- Rubin, Martin. Iron containing compositions. 2,893,916, 7-7-59, Cl. 167—68.
- Rubin, Martin. Salts of the tri-ethyl ester of N-hydroxyethyl ethylene diamine tri-acetic acid. 2,894,023, 7-7-59, Cl. 260—482.
- Rubin, Maurice, and G. Hulot, to Societe d'Etudes Chimiques pour l'Industrie et l'Agriculture. Preparation of Engel's salt. 2,905,529, 9-22-59, Cl. 23—61.
- Rubino, Andrew A.: *See*—  
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- Rubino, Morris: *See*—  
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- Rubinstein, Harvey: *See*—  
Kelner, Robert C., and Rubinstein. 2,872,663.
- Rubinstein, Harvey, and R. C. Kelner, to Laboratory For Electronics, Inc. Magnetic shift registers. 2,883,648, 4-21-59, Cl. 340—174.
- Rubinstein, Stanley, to Northrop Corp. Magnetic switch. 2,892,049, 6-23-59, Cl. 200—61.45.
- Rubissow, George A.: *See*—  
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Vincent, Louis C. 2,886,771.
- Ruble, Lloyd J.: *See*—  
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- Ruble, Raymond J., to Texaco Development Corp. Analysis techniques based on nuclear magnetic resonance. 2,912,641, 11-10-59, Cl. 324—5.
- Rubly, Charles M., to General Motors Corp. Brake mechanism. 2,885,035, 5-5-59, Cl. 188—206.
- Rubner, Kurt: *See*—  
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- Rubricus, Jeanette L. Blood loss determining device. 2,899,636, 8-11-59, Cl. 324—30.
- Ruby Lighting Corp.: *See*—  
Ramming, Robert E. V. 2,867,404.
- Rucci, Domenic. Bicycle turn signal. 2,877,734, 3-17-59, Cl. 116—40.
- Ruch, William C.: *See*—  
Boettger, Heinz G., and Ruch. 2,889,378.
- Ruckelshaus, John G.: *See*—  
Nakken, Theodoris H. 2,891,880.
- Ruckelshaus, John G. Resistance time measuring devices. 2,917,814, 12-22-59, Cl. 29—155.5.
- Ruckelshaus, John G., and R. D. Eaton; said Eaton assor. to said Ruckelshaus. Formation of hard metallic films. 2,914,428, 11-24-59, Cl. 117—217.
- Rucker, Herbert. Portable clothes drying rack. 2,868,387, 1-13-59, Cl. 211—96.
- Rucker, John T., to Hooker Chemical Corp. Perchlorocarbon having the empirical formula  $C_2Cl_4O$ . 2,908,723, 10-13-59, Cl. 260—648.
- Rucker, Ralph V.,  $\frac{1}{2}$  to A. Boirasky. Emergency traction assembly for vehicle wheels. 2,880,776, 4-7-59, Cl. 152—213.
- Rucker, Ray. Receptacle. 2,900,105, 8-18-59, Cl. 220—102.
- Rucker, Robert M., to ACF Industries, Inc. Gate valve. 2,869,819, 1-20-59, Cl. 251—199.
- Ruckstuhl, Hans, to Sandoz A. G. Chromium-containing azo dyestuffs. 2,868,776, 1-13-59, Cl. 260—147.
- Ruckstuhl, Hans, and W. Wehrli, to Sandoz A. G. Monoazo dyestuffs and their metal complex compounds. 2,909,515, 10-20-59, Cl. 260—146.
- Ruckstuhl, Konrad. Extrusion press. Re. 24,665, 7-7-59, Cl. 18—12.
- Ruda, Edward P., to Garden City Plating & Mfg. Co. Panel support. 2,871,520, 2-3-59, Cl. 20—5.
- Rudberg, Julius. Purses. 2,904,090, 9-15-59, Cl. 150—28.
- Rudd, Wallace C.: *See*—  
Kohler, Fred, and Rudd. 2,919,342.  
Stanton, Robert J., and Rudd. 2,887,560.
- Rudd, Wallace C., to Magnetic Heating Corp. Welding of helically formed tubing. 2,873,353, 2-10-59, Cl. 219—62.
- Rudd, Wallace C., to Magnetic Heating Corp. Welding by high frequency resistance heating. 2,876,323, 3-3-59, Cl. 219—8.5.
- Rudd, Wallace C., to Magnetic Heating Corp. Lapped welding of metal edge portions. 2,886,691, 5-12-59, Cl. 219—67.
- Rudd, Wallace C., to Magnetic Heating Corp. Methods and apparatus for butt welding. 2,892,914, 6-30-59, Cl. 219—9.5.
- Rudd, Wallace C., to Magnetic Heating Corp. Welding of strips. 2,919,343, 12-29-59, Cl. 219—104.
- Rudd, Wallace C., H. J. Cameron, and D. G. Osterer, to Magnetic Heating Corp. Forming and welding metal tubes and sheaths. 2,898,440, 8-4-59, Cl. 219—59.
- Rudd, Wallace C., and R. J. Stanton, to Magnetic Heating Corp. Welding of metal strips and tubing. 2,904,668, 9-15-59, Cl. 219—67.
- Ruddell, Allison R., and R. H. Wilmer, to The General Fireproofing Co. Card tray. 2,887,115, 5-19-59, Cl. 129—26.
- Ruddell, Allison R., and R. H. Wilmer, to The General Fireproofing Co. Card tray. 2,887,352, 5-19-59, Cl. 312—301.
- Ruddock, Kenneth A., and A. A. Brant, to Newmont Mining Corp. Method of and apparatus for geophysical exploration. 2,887,650, 5-19-59, Cl. 324—6.
- Rudel, Harry W.: *See*—  
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- Westlund, Roy A., Jr., and Rudel. 2,892,724.



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- Rudel, Harry W., and W. Seitz, to Esso Research and Engineering Co. Rust preventive compositions. 2,911,309, 11-3-59, Cl. 106-14.
- Rudenberg, Hermann G., to Raytheon Mfg. Co. Traveling wave tubes. 2,888,596, 5-26-59, Cl. 315-3.5.
- Ruderian, Max J. Direct coupled amplifier utilizing sampling method. 2,882,354, 4-14-59, Cl. 179-171.
- Ruderman, Irving W., to Isomet Corp. Combined scintillometer and fluorimeter. 2,883,547, 4-21-59, Cl. 250-71.
- Ruderman, Irving W., to Isomet Corp. Double window phosphors and circuits therefor. 2,883,550, 4-21-59, Cl. 250-79.
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- Rudine, Clifford. Pill counting and dispensing device. 2,881,960, 4-14-59, Cl. 222-370.
- Rudine, Ruth L. Plastic hollow clog. 2,889,639, 6-9-59, Cl. 36-25.
- Rudisch, Walter E., to McCauley Industrial Corp. Clutch. 2,875,876, 3-3-59, Cl. 192-84.
- Rudisch, Walter E., to McCauley Industrial Corp. Clutch. 2,913,081, 11-17-59, Cl. 192-18.
- Rudman, Oscar S. Wheel-mounting means and drive assembly. 2,903,081, 9-8-59, Cl. 180-19.
- Rudmann, Frank J., Jr., to Sperry Rand Corp. Gated spectrum analyzer. 2,905,894, 9-22-59, Cl. 324-77.
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- Rudner, Bernard, to W. R. Grace & Co. Substituted alkyl hydrazinium chlorides. 2,889,366, 6-2-59, Cl. 260-569.
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- Rudner, Bernard, to W. R. Grace & Co. Quinuclidine derivatives. 2,892,832, 6-30-59, Cl. 260-239.1.
- Rudner, Bernard, to W. R. Grace & Co. Process for aminating nitrogen-containing heterocyclic compounds. 2,892,841, 6-30-59, Cl. 260-288.
- Rudner, Bernard, to W. R. Grace & Co. Cyclohexylideneimino compounds. 2,894,028, 7-7-59, Cl. 260-551.
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- Rudner, Merritt A., to United States Gasket Co. Fluoro-carbon ceramic and glass products. 2,887,526, 5-19-59, Cl. 174-152.
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Knoll, Max, and Rudnick. 2,870,360.
- Rudnick, Paul, to International Telephone and Telegraph Corp. Cathode structures. 2,892,115, 6-23-59, Cl. 313-85.
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- Rudolph, Hans: See—  
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- Rudolph, Hans, and J. M. Ford. Safety hook. 2,875,495, 3-3-59, Cl. 24-238.
- Rudolph, Joseph, to Patent-Treuhand-Gesellschaft für elektrische Glühlampen m.B.H. Activating material for electrodes in electric discharge devices. 2,911,376, 11-3-59, Cl. 252-521.
- Rudolph, Nathan H., and R. H. Crutchett, to All-Steel Equipment, Inc. Electrical boxes. 2,908,416, 10-13-59, Cl. 220-3.6.
- Rudorff, Dagobert W.: See—  
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- Rudy, Emanuel T.: See—  
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- Rudy, Emil, to Loren Cook Co. Retaining means for the dampers of ventilators. 2,911,900, 11-10-59, Cl. 98-116.
- Rudy, Jerome: See—  
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- Rudy, John B.: See—  
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- Tondreau, Albert W. 2,888,827.
- Rudy, John E. T. Egg crate. 2,874,866, 2-24-59, Cl. 220-20.
- Rudy Mfg. Co.: See—  
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- Rue, Dale: See—  
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- Rue, Robert W., to The New York Air Brake Co. Valve system. 2,913,878, 11-24-59, Cl. 60-52.
- Rueb, Theodore O. Taper gage. 2,895,222, 7-21-59, Cl. 33-75.
- Rueckert, Dean E., to Swift & Co. Container for frozen foods. 2,915,235, 12-1-59, Cl. 229-23.
- Ruedisulj, Wilhelmus M. J., to Shell Development Co. Process for preparing aviation base stock and aviation gasoline. 2,874,114, 2-17-59, Cl. 208-93.
- Ruefenacht, Werner. Balance. 2,869,854, 1-20-59, Cl. 265-49.
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- Lindlar, Herbert, Montavon, and Ruegg. 2,870,212.
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- Rueggeger, Donald R. Humidifier. 2,875,991, 3-3-59, Cl. 261-66.
- Rueggeger, Donald R. Fan construction. 2,917,227, 12-15-59, Cl. 230-114.
- Ruehle, William G., Jr., to Lermac, Inc. Shielding manipulator for radio-active material. 2,889,464, 6-2-59, Cl. 250-106.
- Ruehleman, Herbert E., and W. A. Menzel, to United States of America, Navy. Continuous charging circuit for stabilized timers. 2,910,001, 10-27-59, Cl. 102-70.2.
- Ruelle, Patrick F. and R. A. Survival suit. 2,911,649, 11-10-59, Cl. 2-69.5.
- Ruelle, Richard A.: See—  
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- Ruetsch, Charles D., to General Electric Co. Cathode ray tube screening apparatus. 2,914,258, 11-24-59, Cl. 239-562.
- Ruetschi, Karl and P. Lead-acid storage battery. 2,883,443, 4-21-59, Cl. 136-68.
- Ruetschi, Paul: See—  
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- Ruettiger, Justin. Neutral density filters. 2,887,010, 5-19-59, Cl. 88-112.
- Ruetz, John A., to United States of America, Army. Double stream growing-wave amplifier. 2,900,559, 8-18-59, Cl. 315-5.12.
- Ruf, Paul: See—  
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- Ruff, Alonzo W., to V. C. Patterson & Associates, Inc. Apparatus and method of lowering ice-buckled cold room floors. 2,886,952, 5-19-59, Cl. 61-36.
- Ruff, Donald G.: See—  
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- Ruff, Edgar E., to Lever Brothers Co. Polyphosphate compositions containing tallow methyl tauride and 2-mercaptothiazoline. 2,870,092, 1-20-59, Cl. 252-137.
- Ruff, Edgar E., to Lever Brothers Co. Polyphosphate compositions containing coco- $\beta$ -alanine and 2-mercaptothiazoline. 2,870,093, 1-20-59, Cl. 252-137.
- Ruff, Edgar E., and J. L. Thornton, to Lever Brothers Co. Detergent composition. 2,880,178, 3-31-59, Cl. 252-137.
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- Ruff, Everett E. Self-adjusting pipe wrench. 2,887,922, 5-26-59, Cl. 81-99.
- Ruff, Herbert. Mounting head assembly for an electrically heated cutting tool. 2,896,059, 7-21-59, Cl. 219-21.



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- Ruffing, Norman R.: *See*—  
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- Ruffile, William H., Speed Development Co. Ltd. Temperature change responsive means for controlling electric circuits. 2,894,251, 7-7-59, Cl. 340—227.
- Ruffner, James H.: *See*—  
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- Rufie, George H. Switching device. 2,870,285, 1-20-59, Cl. 200—87.
- Rufolo, Anthony. Device for measuring creep. 2,891,399, 6-23-59, Cl. 73—94.
- Rufus, David, to Sylvania Electric Products Inc. Electronic tube packet. 2,881,347, 4-7-59, Cl. 313—256.
- Rug, John P.: *See*—  
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- Rugaber, Robert H.: *See*—  
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- Ruge, Arthur C., to Baldwin-Lima-Hamilton Corp. Motion load weighing system. 2,868,535, 1-13-59, Cl. 265—71.
- Rugen, Daniel L. Method and means for applying panels to a ceiling. 2,913,776, 11-24-59, Cl. 20—4.
- Rugen, Vernon L., to Deere Mfg. Co. Clutch. 2,875,873, 3-3-59, Cl. 192—18.
- Rugen, Vernon L., and M. R. Cessna, to Deere & Co. Synchronizing transmission. 2,875,627, 3-3-59, Cl. 74—339.
- Ruger, Robert D., to Curtiss-Wright Corp. Amphibious vehicle. 2,914,017, 11-24-59, Cl. 115—1.
- Ruger, William B., to Sturm, Ruger and Co., Inc. 22 caliber conversion for a Colt 45 caliber semi-automatic pistol. 2,898,693, 8-11-59, Cl. 42—77.
- Rugg, Harold H., to Westinghouse Electric Corp. Bus structure. 2,878,300, 3-17-59, Cl. 174—15.
- Ruggeberg, Wolfgang: *See*—  
Henecka, Hans, Ziegler, and Ruggeberg. 2,887,487.
- Ruggeri, John R., to International Harvester Co. Free piston engine with air compression on power stroke. 2,876,752, 3-10-59, Cl. 123—46.
- Ruggieri, Anthony J. Stepladder attachment. 2,911,133, 11-3-59, Cl. 182—124.
- Ruggiero, Alfred J., to E. D. Bullard Co. Safety hat. 2,895,136, 7-21-59, Cl. 2—3.
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- Ruggles, Percy C., to English Electric Valve Co. Ltd. Collector electrodes for klystron tubes. 2,890,375, 6-9-59, Cl. 315—538.
- Ruh, Robert P., and R. A. Davis, to The Dow Chemical Co. Oxybromination of chlorodifluoromethane. 2,871,274, 1-27-59, Cl. 260—653.8.
- Ruh, Robert P., R. A. Davis, and M. R. Broadworth, to The Dow Chemical Co. Fluorination of trichloroethylene. 2,885,427, 5-5-59, Cl. 260—653.7.
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- Ruhe, Richard K.: *See*—  
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- Ruhl, Charles A. L.: *See*—  
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- Ruhl, Charles A. L., to The New York Air Brake Co. Four position control valve having a float position. 2,916,050, 12-8-59, Cl. 137—622.
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- Ruhmann, Welton A., and J. P. McCullough. Knee riding horse. 2,888,263, 5-26-59, Cl. 272—1.
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- Ruhr, Heinrich R.: *See*—  
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- Ruhr-Stickstoff Akt.: *See*—  
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- Buchner, Karl. 2,899,395.
- Büchner, Karl and Meis. 2,905,716.
- Büchner, Karl, Meis, and Roelen. 2,879,299.
- Buchner, Karl, Meis, and Roelen. 2,881,208.
- Buchner, Karl, and Schwarz. 2,871,249.
- Feichtinger, Hans, and Linden. 2,882,199.
- Feichtinger, Hans, and Püschhof. 2,879,275.
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- Kolling, Helmut, Noeske, and Rappen. 2,892,877.
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- Kolling, Helmut, Rappen, and Reiffert. 2,871,210.
- Kolling, Helmut, and Stiebling. 2,880,163.
- Noeske, Heinz. 2,890,213.
- Noeske, Heinz, and Kolling. 2,887,517.
- Noeske, Heinz, and Roelen. 2,889,259.
- Roelen, Otto. 2,898,316.
- Schaub, Franz, Drope, and Von Hoffmann. 2,889,892.
- Schaub, Franz, von Hoffman, Roelen, and Drope. 2,911,730.
- Schnur, Friedrich. 2,870,185.
- Spengler, Herbert, Bischoff, and Dreeskamp. 2,884,783.
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- Ruijs, Frans W., to A. B. Dick Co. Exposure apparatus. 2,908,210, 10-13-59, Cl. 95—73.
- Ruiz, Honorato G. Electro-thermostatic appliances. 2,884,502, 4-28-59, Cl. 200—122.
- Ruiz, Oscar F. Machine for making tortillas. 2,907,286, 10-6-59, Cl. 107—12.
- Rulon, Richard M.: *See*—  
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- Butler, Keith H., and Rulon. 2,919,250.
- Rulon, Richard M., and W. H. Drew, to Sylvania Electric Products Inc. Curved electroluminescent lamp. 2,900,545, 8-18-59, Cl. 313—108.
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- Rulseh, Roger D., to Hamilton Mfg. Co. Combined motor protector and door switch for a laundry machine. 2,876,556, 3-10-59, Cl. 34—45.
- Rumberg, Alfred, W. Dangen, and M. Theis, to Knapsack-Griesheim Akt. Device for tightening and loosening current supply plates on electrodes in electric furnaces. 2,872,494, 2-3-59, Cl. 13—16.
- Rumble, Robert C., and H. M. Buck, to Jersey Production Research Co. Fluid flow indicator and fluid identifier. 2,890,405, 6-9-59, Cl. 324—2.
- Rumble, Robert C., and H. M. Buck, to Jersey Production Research Co. Sound monitor for subsurface packer. 2,915,739, 12-1-59, Cl. 340—18.
- Rumgay, William L.: *See*—  
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- Rummel, Roman. Process for gasifying fuels. 2,913,321, 11-17-59, Cl. 48—197.
- Rummel, Theodor, to Siemens & Halske Aktiengesellschaft. Apparatus for fusing pulverulent semiconductor material. 2,907,642, 10-6-59, Cl. 23—273.
- Rummel, Theodor, to Siemens & Halske Aktiengesellschaft. Water cooled crucible for high frequency heating. 2,908,739, 10-13-59, Cl. 13—27.
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- Rummert, Günter, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Process for carrying out exothermic chemical reactions. 2,890,929, 6-16-59, Cl. 23—1.
- Rummert, Günter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for separating pure acetylene from gas mixtures containing acetylene. 2,909,241, 10-20-59, Cl. 183—115.
- Rumpel, Harvey H., to Smith Engineering Works. Gyrotory crusher concave adjustment. 2,881,981, 4-14-59, Cl. 241—215.
- Rumsey, Herbert, Jr., to W. R. Grace & Co. Packaged sausage product and method of making same. 2,908,576, 10-13-59, Cl. 99—174.
- Rumsey, Herbert, Jr., to W. R. Grace & Co. Commercial package and method of making the same. 2,911,305, 11-3-59, Cl. 99—171.
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- Rumsey, Leo: *See*—  
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- Rumsey, Rollin D., to Houdaille Industries, Inc. Damper with thermostatic valve. 2,899,023, 8-11-59, Cl. 188—96.
- Runciman, Robert D., to The General Electric Co. Ltd. Automatic machines. 2,890,456, 6-16-59, Cl. 1—102.



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- Runde, Kenneth R. Washing and drying machines. 2,868,004, 1-13-59, Cl. 68—12.
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Baluck, Francis M., Brunner, and Runge. 2,911,087.
- Rünge, Heinz F., to Western Electric Co., Inc. Fixture for bending terminals. 2,873,787, 2-17-59, Cl. 153—20.
- Runge, Richard J., to Pan American Petroleum Corp. Seismic wavelet contraction. 2,872,996, 2-10-59, Cl. 181—5.
- Runkel, Robert W. Electrode holder. 2,889,447, 6-2-59, Cl. 219—142.
- Runken, Gerd: *See*—  
Furrer, John R., and Runken. 2,900,924.  
Furrer, John R., and Runken. 2,917,005.
- Runnalls, Oliver J. C., to United States of America, Atomic Energy Commission. Method of making alloys of beryllium with plutonium and the like. 2,875,041, 2-24-59, Cl. 75—122.7.
- Runner, John W.: *See*—  
Bricker, Carl E., and Runner. 2,916,884.  
Frayer, Theodore, and Runner. 2,900,052.
- Runner, John W., to The Goodyear Tire & Rubber Co. Self-energizing brake adjustment. 2,878,901, 3-24-59, Cl. 188—73.
- Runtou, Leslie A., to The Russell Mfg. Co. Railway journal packing. Re. 24,643, 4-28-59, Cl. 308—243.
- Runtou, Leslie A., to The Russell Mfg. Co. Anti-fraction pad. 2,872,181, 2-3-59, Cl. 267—49.
- Runtou, Leslie A., to The Russell Mfg. Co. Sealing ring. 2,892,650, 6-30-59, Cl. 288—33.
- Runtou, Leslie A., to The Russell Mfg. Co. High speed endless belt. 2,892,748, 6-30-59, Cl. 154—52.1.
- Runtou, Leslie A., to The Russell Mfg. Co. Self-lubricating bearing. 2,906,573, 9-29-59, Cl. 308—238.
- Runtou, Leslie A., to The Russell Mfg. Co. Ski or sled runner. 2,908,506, 10-13-59, Cl. 280—11.13.
- Runtou, Leslie A., to The Russell Mfg. Co. Sealing ring and thrust bearing. 2,910,329, 10-27-59, Cl. 308—163.
- Runtou, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Self-lubricating spring liner pad. 2,890,041, 6-9-59, Cl. 267—49.
- Runtou, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Railway journal bearing. 2,906,567, 9-29-59, Cl. 308—53.
- Runtou, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Ball joint actuator. 2,906,569, 9-29-59, Cl. 308—72.
- Runtou, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Windshield wiper or the like. 2,908,028, 10-13-59, Cl. 15—245.
- Runtou, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Bearing for helicopter rotor. 2,908,532, 10-13-59, Cl. 308—72.
- Runtou, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Oilless antifriction bearings. 2,908,535, 10-13-59, Cl. 308—163.
- Runtou, Leslie A., and H. C. Morton, to The Russell Mfg. Co. Collet for variable pitch propeller hub. 2,918,316, 12-22-59, Cl. 288—17.
- Runyaan, Walter R., and R. E. Anderson, to Texas Instruments Inc. Grown junction transistors. 2,873,152, 3-17-59, Cl. 148—33.
- Runyan, Wilbur C. Method of and apparatus for forming decorative bows. 2,905,368, 9-22-59, Cl. 223—46.
- Ruoti, Enzo: *See*—  
Muench, Werner, Ruoti, and Silvestri. 2,904,579.
- Rupe, Jack H.: *See*—  
Graves, Barton R., and Rupe. 2,916,914.
- Rupel, Earl E.: *See*—  
Spurlino, Pascal, Hull, and Rupel. 2,868,912.
- Rupert, Kenneth C.: *See*—  
Cresswell, Stephen G., and Rupert. 2,911,015.
- Rupert, Kenneth C., to Sylvania Electric Products Inc. Coil coating holder. 2,911,348, 11-3-59, Cl. 204—299.
- Rupert, Richard D. Double face reflector. 2,884,835, 5-5-59, Cl. 88—78.
- Rupp, Herbert E., II. Driving and braking arrangement for an automotive vehicle. 2,918,981, 12-29-59, Cl. 180—62.
- Rupp, Herbert E., II. Low slung vehicle frame. 2,919,139, 12-29-59, Cl. 280—106.
- Rupp, Walter H., to Esso Research and Engineering Co. Storage and transporation of liquefied gas. 2,897,657, 8-4-59, Cl. 62—45.
- Rupp, William L.: *See*—  
Price, Clarence A., and Rupp. 2,869,571.
- Ruppel, Alfred E.: *See*—  
James, Richard T., and Ruppel. 2,892,888.
- Ruppel, Carl D., to Orenda Engines Ltd. Turbine pump. 2,918,010, 12-22-59, Cl. 103—13.
- Ruppel, Wilhelm: *See*—  
Braun, Willy, and Ruppel. 2,905,691.
- Ruppert, Wilhelm, G. Schwedler, O. Esswein, and B. Fritz, to Metallgesellschaft Akt. Apparatus for producing hard coatings on workpieces. 2,884,894, 5-5-59, Cl. 118—48.
- Rus, Albert F., and C. C. Veale, to Western Electric Co., Inc. Electrical resistance measuring apparatus for cutting helical grooves in resistors. 2,884,746, 5-5-59, Cl. 51—37.
- Rusca, Ralph A.: *See*—  
Miller, August L., Brown, and Rusca. 2,879,549.
- Rusca, Ralph A., and R. C. Young, to United States of America, Agriculture. Self-feeding and self-doffing opener cleaner for textile fibers. 2,893,064, 7-7-59, Cl. 19—76.
- Rusch, Kenneth A., and E. Hillman, to Milprint, Inc. Art of forming tubes from thermo-plastic sheet material. 2,897,875, 8-4-59, Cl. 154—42.
- Ruschig, Heinrich: *See*—  
Ehrhart, Gustav, Ruschig, Aumüller, Stein, and Ther. 2,912,460.  
Ehrhart, Gustav, Ruschig, Schmidt-Thomé, Haede, and Fritsch. 2,912,444.
- Ruschig, Heinrich, R. Fugmann, H. Eggert, E. Fischer, and E. Lindner, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Substituted 2,3-diphenyl-1,4-dioxo-tetrahydrophthalazines and a process for preparing them. 2,874,156, 2-17-59, Cl. 260—250.
- Ruschig, Heinrich, W. Siedel, H. Leditschke, M. Schorr, D. Schmidt-Barbo, and G. Lammler, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Dicarboxylic acid-monopiperazines and a process for their manufacture. 2,875,205, 2-24-59, Cl. 260—268.
- Ruschig, Heinrich, H. Wagner, W. Aumüller, G. Korgor, J. Scholz, and A. Bander, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Benzothiazol-2-sulfonyl-ureas and a process for their manufacture. 2,891,960, 6-23-59, Cl. 260—306.6.
- Ruschig, Heinrich, and W. Aumüller, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning.  $\alpha$ -hydroxy-1,2,5,6-tetrahydrobenzylphosphinous acid and preparation thereof. 2,904,586, 9-15-59, Cl. 260—500.
- Rusciano, Frank A., to Metallurgical Processes Co. Carburizing furnaces with recuperative heating. 2,886,303, 5-12-59, Cl. 266—5.
- Rusciano, George J.: *See*—  
Polchinski, Stanley, and Rusciano. 2,899,228.
- Ruse, Raymond L.: *See*—  
Bolton, Wilbur M., and Ruse. 2,901,867.
- Ruseckas, Joseph A.: *See*—  
Flagg, John E., and Ruseckas. 2,876,453.
- Rush, Charles D., and M. W. Muehler, to American District Telegraph Co. Retarding circuit. 2,876,396, 3-3-59, Cl. 317—141.
- Rush, Dallas, to Federal Chemical Co. Charge preweighing device. 2,919,100, 12-29-59, Cl. 249—32.
- Rush, David H.: *See*—  
Martin, Harry M., and Rush. 2,905,863.
- Rush, Elton E., to Phillips Petroleum Co. Fractional crystallization apparatus. 2,890,938, 6-16-59, Cl. 23—273.
- Rush, Elton E., to Phillips Petroleum Co. Fractional crystallization process and apparatus. 2,910,516, 10-27-59, Cl. 260—674.
- Rush, Hugh M.,  $\frac{1}{2}$  to S. K. Clements. Single actuator for a plurality of control devices. 2,877,660, 3-17-59, Cl. 74—471.
- Rush, Ian C., and C. M. Finigan, to Polymer Corp. Ltd. Purification of unreacted butene recycle stream by fractional distillation. 2,886,613, 5-12-59, Cl. 260—680.
- Rush Instrument Co., Inc.: *See*—  
Most, David. 2,873,409.  
Most, David. 2,877,412.
- Rush, John A.: *See*—  
Cobb, Charles E. 2,909,440.
- Rush, John W., to Westinghouse Air Brake Co. Fluid pressure brake control apparatus with high pressure emergency feature. 2,905,508, 9-22-59, Cl. 303—85.
- Rusher, Robert L., and P. C. Yates, to E. I. du Pont de Nemours and Co. Process for increasing the soil resistance of a solid surface. 2,877,142, 3-10-59, Cl. 117—169.
- Rushford, Wilson H.: *See*—  
King, William R., and Rushford. 2,880,819.
- Rushford, Wilson H., to Phillips Petroleum Co. Process and apparatus for classifying particulate material. 2,892,689, 6-30-59, Cl. 23—314.
- Rushing, Frank C., to United States of America, Atomic Energy Commission. Rotor end cap. 2,872,105, 2-3-59, Cl. 233—27.
- Rushing, George, Jr. Cleaner for optical lenses and the like. 2,880,441, 4-7-59, Cl. 15—214.
- Rushing, Granvil L.: *See*—  
Dunkerly, Cleo K., and Rushing. 2,902,955.
- Rushing, James F.: *See*—  
Greulich, Gerald G., and Rushing. 2,905,285.
- Rushton, Alvis P., to E. I. du Pont de Nemours and Co. Bobbin drive. 2,913,868, 11-24-59, Cl. 57—130.
- Rusk, Stanley J. Combination integrator. 2,913,180, 11-17-59, Cl. 235—183.



- Ruskin, Bernard J. Fixture assembly. 2,880,264, 3-31-59, Cl. 174-67.
- Ruskin, Dan: *See*—  
Korn, Arthur, Hess, and Ruskin. 2,894,259.
- Ruskin, Henry, to Patents Management Corp. Electric stapling machine. 2,866,973, 1-6-59, Cl. 1-3.
- Ruskin, Henry, to Swingline, Inc. Stapling machine. 2,915,753, 12-8-59, Cl. 1-3.
- Ruskin, Len: *See*—  
Laube, Hans. 2,905,049.
- Ruskin, Simon L.: *See*—  
Korn, Arthur, Hess, and Ruskin. 2,894,259.
- Ruskin, Simon L., to Union Carbide Corp. Process for recovery of petroleum. 2,906,680, 9-29-59, Cl. 204-162.
- Ruskin, Simon L., to Union Carbide Corp. Irradiated concrete composition. 2,910,372, 10-27-59, Cl. 106-89.
- Rusler, George W., to Minneapolis-Honeywell Regulator Co. Crystal growing procedure. 2,892,739, 6-30-59, Cl. 148-15.
- Rusnak, George A.: *See*—  
Chabala, Leonard V., and Rusnak. 2,871,313.
- Rusoff, Irving I., to General Foods Corp. Flavor. 2,887,384, 5-19-59, Cl. 99-140.
- Rusoff, Irving I., to General Foods Corp. Flavor. 2,887,385, 5-19-59, Cl. 99-140.
- Rusoff, Irving I., to General Foods Corp. Flavor. 2,887,386, 5-19-59, Cl. 99-140.
- Rusoff, Irving I., to General Foods Corp. Flavor. 2,887,387, 5-19-59, Cl. 99-140.
- Rusoff, Irving I., to General Foods Corp. Flavor. 2,887,388, 5-19-59, Cl. 99-140.
- Rusoff, Irving I., to General Foods Corp. Chocolate product and process therefor. 2,899,309, 8-11-59, Cl. 99-23.
- Russ, Paul E., to The Gates Rubber Co. Pulley. 2,913,915, 11-24-59, Cl. 74-230.5.
- Russell, Andrew C. Carburetor construction. 2,879,045, 3-24-59, Cl. 261-13.
- Russell, Andrew C. Spark plug assembly. 2,900,546, 8-18-59, Cl. 313-125.
- Russell, Andrew C. Wall switch assembly. 2,901,581, 8-25-59, Cl. 200-153.
- Russell, Arthur G. Co., Inc.: *See*—  
Willis, Grant N. 2,918,163.
- Russell, Billy N., and R. E. Anderson, to Jersey Production Research Co. Well assembly for production of fluids from a plurality of zones. 2,906,342, 9-29-59, Cl. 166-115.
- Russell, Charles, to Bendix Aviation Corp. Propeller pitch control system. 2,915,034, 12-1-59, Cl. 115-34.
- Russell, Charles A., to National Lead Co. Process for the preparation of stabilized organotin compounds. 2,894,966, 7-14-59, Cl. 260-429.5.
- Russell, Charles A., to National Lead Co. Organotin compounds and process of preparation. 2,898,356, 8-4-59, Cl. 260-429.5.
- Russell, Charles A., to National Lead Co. Organotin compounds and process of preparation. 2,913,469, 11-17-59, Cl. 260-429.5.
- Russell, Clarence H. Automatic page turning apparatus. 2,897,618, 8-4-59, Cl. 40-104.
- Russell, Edwin R.: *See*—  
Boyd, George E., Russell, and Schubert. 2,898,185.
- Russell, F. C. Co., The: *See*—  
Kiehl, Arthur H. 2,916,112.
- Russell, Arthur H., and Laurich. 2,912,078.
- Russell, Fred J., to Inland Steel Products Co. Telescopic jack post. 2,906,490, 9-29-59, Cl. 248-354.
- Russell, George F.: *See*—  
Mann, Julius W., and Russell. 2,870,808.
- Russell, Henry H., to United States of America, Commerce. Large-capacity balance. 2,882,038, 4-14-59, Cl. 265-54.
- Russell, Howard T. Low pressure warning signal for tubeless tires. 2,915,035, 12-1-59, Cl. 116-34.
- Russell, James B., to Kaiser Aluminum & Chemical Corp. Composite article. 2,883,739, 4-28-59, Cl. 29-196.2.
- Russell, James L., to Bendix Aviation Corp. Echo object-detecting system sensitive to object velocity. 2,883,656, 4-21-59, Cl. 343-7.7.
- Russell, John A.: *See*—  
Piekarski, Julian A., and Russell. 2,903,567.
- Russell, John A., to A. O. Smith Corp. Electrode feed apparatus. 2,909,646, 10-20-59, Cl. 219-130.
- Russell, John A., and J. R. Bouille, to Joy Mfg. Co. Disintegrating mechanism for longwall continuous miner. 2,867,427, 1-6-59, Cl. 262-28.
- Russell, John D., to Joy Mfg. Co. Mining apparatus of the pivoted boom type. 2,872,171, 2-3-59, Cl. 262-29.
- Russell, John D., to Joy Mfg. Co. Loading apparatus for tunnel work. 2,907,481, 10-6-59, Cl. 214-41.
- Russell, John D., to Joy Mfg. Co. Floor clean-up mechanism for continuous mining apparatus. 2,908,374, 10-13-59, Cl. 198-9.
- Russell, John D., to Joy Mfg. Co. Articulated conveyor having tension control means. 2,910,169, 10-27-59, Cl. 198-109.
- Russell, John D. Pressure-controllable rotary welding electrodes. 2,918,564, 12-22-59, Cl. 219-84.
- Russell, John E.: *See*—  
Clapp, Daniel B., Read, Stephens, and Russell. 2,914,577.
- Russell, John G., to Parker Hannifin Corp. Fluid pressure actuated automatic shut-off valve. 2,913,217, 11-17-59, Cl. 251-46.
- Russell, John J. Liquid dispenser. 2,885,125, 5-5-59, Cl. 222-321.
- Russell, John K., and W. W. Boggs, to Luber-Finer Inc. Apparatus for handling sheets of paper. 2,878,016, 3-17-59, Cl. 271-11.
- Russell, John K., and G. J. Byrd, to Lignosol Chemicals Ltd. Drilling fluids. 2,901,429, 8-25-59, Cl. 252-8.5.
- Russell, John L., to The Bristol Co. Synchronous inverter. 2,901,571, 8-25-59, Cl. 200-90.
- Russell, Kenneth F. Apparatus for drawing wire. 2,893,544, 7-7-59, Cl. 205-20.
- Russell, Lewis S., Jr. Bin and unloading mechanism. 2,889,942, 6-9-59, Cl. 214-15.
- Russell, Linus E., to Peters & Russell, Inc. Exhaust extension. 2,868,228, 1-13-59, Cl. 138-46.5.
- Russell, Linus E., to Peters & Russell, Inc. Exhaust deflector. 2,868,229, 1-13-59, Cl. 138-46.5.
- Russell, Linus E., to Peters & Russell, Inc. Fluid pump. 2,883,939, 4-28-59, Cl. 103-178.
- Russell, Linus E., to Peters & Russell, Inc. Pump. 2,912,158, 11-10-59, Cl. 230-229.
- Russell, Louis A., to International Business Machines Corp. Magnetic core inverter circuit. 2,894,151, 7-7-59, Cl. 307-88.
- Russell, Louis A., to International Business Machines Corp. Magnetic core transfer circuit. 2,904,779, 9-15-59, Cl. 340-174.
- Russell, Louis A., to International Business Machines Corp. Magnetic core transfer circuit. 2,907,987, 10-6-59, Cl. 340-174.
- Russell, Louis A., to International Business Machines Corp. Magnetic core logical circuit. 2,910,595, 10-27-59, Cl. 307-88.
- Russell, Louis A., to International Business Machines Corp. Magnetic core logical circuit. 2,919,354, 12-29-59, Cl. 307-88.
- Russell Mfg. Co., The: *See*—  
Morton, Henry C. 2,901,388.
- Rasero, Lawrence J. 2,912,016.
- Runton, Leslie A. Re. 24,643.
- Runton, Leslie A. 2,872,181.
- Runton, Leslie A. 2,892,650.
- Runton, Leslie A. 2,892,748.
- Runton, Leslie A. 2,906,573.
- Runton, Leslie A. 2,908,506.
- Runton, Leslie A. 2,910,329.
- Runton, Leslie A., and Morton. 2,890,041.
- Runton, Leslie A., and Morton. 2,906,567.
- Runton, Leslie A., and Morton. 2,906,569.
- Runton, Leslie A., and Morton. 2,908,028.
- Runton, Leslie A., and Morton. 2,908,532.
- Runton, Leslie A., and Morton. 2,908,535.
- Runton, Leslie A., and Morton. 2,918,316.
- Russell, Mark N.: *See*—  
Winter, Paul H., and Russell. 2,881,292.
- Russell, Monica. Hair curlers. 2,910,989, 11-3-59, Cl. 132-40.
- Russell, Ralph W., to Pohatcong Hosiery Mills, Inc. Toelet. 2,866,979, 1-6-59, Cl. 2-61.
- Russell, Ralph W., to Siler City Mfg. Co., Inc. Hosiery boarding form. 2,914,226, 11-24-59, Cl. 223-75.
- Russell, Ralph W., Jr. Forging apparatus. 2,885,916, 5-12-59, Cl. 78-20.
- Russell, Ray A., to California Umbrella Co. Umbrella winch. 2,914,154, 11-24-59, Cl. 192-15.
- Russell, Robert C., to Eaton Mfg. Co. Bidirectional slip coupling. 2,868,001, 1-13-59, Cl. 64-30.
- Russell, Robert C., to Eaton Mfg. Co. Circuit apparatus for electric window lifts. 2,881,378, 4-7-59, Cl. 318-283.
- Russell, Robert C., to Eaton Mfg. Co. Two speed axle improvement. 2,882,752, 4-21-59, Cl. 74-695.
- Russell, Robert C. Torque converters. 2,911,852, 11-10-59, Cl. 74-677.
- Russell, Robert G.: *See*—  
Frickert, Philip J., and Russell. 2,886,877.
- Russell, Robert G., to Owens-Corning Fiberglas Corp. Apparatus for longitudinally feeding a multifilament, continuous strand. 2,868,358, 1-13-59, Cl. 203-183.
- Russell, Robert G., to Owens-Corning Fiberglas Corp. Apparatus for feeding molten glass. 2,883,798, 4-28-59, Cl. 49-53.
- Russell, Robert G., to Owens-Corning Fiberglas Corp. Method for producing coated glass fibers. 2,895,789, 7-21-59, Cl. 18-54.
- Russell, Robert G., to Owens-Corning Fiberglas Corp. Apparatus for production of glass fibers. 2,908,036, 10-13-59, Cl. 18-8.
- Russell, Robert G., to Owens-Corning Fiberglas Corp. Production of coated glass fibers. 2,916,347, 12-8-59, Cl. 18-54.
- Russell, Robert G., E. W. Smart, and J. D. Riley, to Owens-Corning Fiberglas Corp. Apparatus for producing thermoplastic fibers. 2,875,893, 3-3-59, Cl. 209-11.
- Russell, Robert G., and D. Denelsbeck, to Owens-Corning Fiberglas Corp. Apparatus for feeding and conveying molten glass. 2,910,806, 11-3-59, Cl. 49-14.
- Russell & Stoll Co., Inc.: *See*—  
Rostan, Robert A. 2,916,540.
- Russell, William H., Jr., to United States of America, Atomic Energy Commission. Internal cutting device. 2,892,387, 6-34-59, Cl. 90-12.



- Russell, William J.: *See*—  
Weber, Victor, Sanders, and Russell. 2,911,152.  
Weber, Victor, Tyler, and Russell. 2,902,567.  
Weber, Victor, Tyler, and Russell. 2,913,562.
- Russell, William L.: *See*—  
Carlson, Carl H., and Russell. 2,881,018.
- Russell, William N.: *See*—  
Suen, Tzeng J., and Russell. 2,893,977.
- Russell, William N., and T. J. Suen, to American Cyanamid Co. Mercapto dibasic acids as regulators for the polymerization of acrylic acids, amides and salts. 2,878,237, 3-17-59, Cl. 260—80.
- Russell, William S., and R. C. Gibson, to Parker Rust Proof Co. Alkali metal phosphate coating method for metals and article produced thereby. 2,882,189, 4-14-59, Cl. 148—6.16.
- Russell-French, Harry M.: *See*—  
Dean, Walter B., and Russell-French. 2,883,179.
- Russi, Ralph F., Jr.: *See*—  
Wilhelm, Harley A., Peterson, and Russi. 2,872,310.
- Russo, Albert J.: *See*—  
Costello, Edward L., Russo, and Seidell. 2,907,697.
- Russo, Aurelio D., to Airkem, Inc. Vapor diffusing device. 2,878,060, 3-17-59, Cl. 299—24.
- Russo, Benjamin J. Massage machine. 2,889,826, 6-9-59, Cl. 128—57.
- Russo, Jack P., and M. Ellis. Clothespin. 2,885,753, 5-12-59, Cl. 24—138.
- Russo, Vassie. Accessory container. 2,880,864, 4-7-59, Cl. 206—69.
- Russo, Walter L.: *See*—  
Maloney, Henry B., and Russo. 2,896,064.
- Russum, Gaillard R. to Johns-Manville Corp. Mixing apparatus. 2,901,227, 8-25-59, Cl. 259—81.
- Rust, David J., and J. H. Jensen, to Rylock Co., Ltd. Screen door with metallic frame. 2,894,579, 7-14-59, Cl. 160—378.
- Rust, David J., and J. H. Jensen, to Rylock Co., Ltd. Window frame. 2,918,706, 12-29-59, Cl. 20—11.
- Rust, Frederick F., to Shell Development Co. Manufacture of hydrogen peroxide. 2,871,104, 1-27-59, Cl. 23—207.
- Rust, Frederick F., and L. M. Porter, to Shell Development Co. Manufacture of hydrogen peroxide. 2,871,101, 1-27-59, Cl. 23—207.
- Rust, Frederick F., L. M. Porter, and W. E. Vaughan, to Shell Development Co. Process for the production of hydrogen peroxide. 2,871,102, 1-27-59, Cl. 23—207.
- Rust Furnace Co.: *See*—  
Conway, Leon F., and Dinneen. 2,902,254.
- Rust, John B.: *See*—  
Martin, James W., Hessel, Hammer, and Rust. 2,875,831.  
Martin, James W., Hessel, Hammer, and Rust. 2,875,832.
- Rust, John B.,  $\frac{1}{2}$  to Montclair Research Corp., and  $\frac{1}{2}$  to Ellis-Foster Co. Process for preparing copolymers of organo silicon derivatives. 2,873,265, 2-10-59, Cl. 260—46.5.
- Rust, Noel M.: *See*—  
Wright, Peter M., and Rust. 2,896,203.
- Ruston & Hornsby Ltd.: *See*—  
Feilden, Geoffrey B. R. 2,881,972.
- Rutgerswerke-Aktiengesellschaft: *See*—  
Geller, Julius, Schumacher, and Lang. 2,893,956.  
Hentschel, Herbert, and Sussenguth. 2,880,195.  
Metzger, Walter, and Mels. 2,914,504.  
Ratte, Heinrich, and Geller. 2,868,713.
- Ruth, Aquilla R., deceased, by T. M. Ruth, executrix. Cleaning tool for air line hose coupling. 2,909,795, 10-27-59, Cl. 15—104.02.
- Ruth, Harold M., to Food Machinery and Chemical Corp. Article clip. 2,909,820, 10-27-59, Cl. 24—81.
- Ruth, Helmer A., to Interlake Iron Corp. Blast furnace seal. 2,901,132, 8-25-59, Cl. 214—37.
- Ruth, Joseph P. Mining machine having crankshaft operated ripper means. 2,874,947, 2-24-59, Cl. 262—14.
- Ruth, Joseph P. Apparatus for treating gases. 2,876,080, 3-3-59, Cl. 23—284.
- Ruth, Joseph P. Sugar diffusing apparatus. 2,876,143, 3-3-59, Cl. 127—7.
- Ruth, Joseph P. Apparatus for conditioning exhaust gases from internal combustion engines. 2,877,098, 3-10-59, Cl. 23—284.
- Ruth, Joseph P. Engine exhaust gas treatment apparatus. 2,878,107, 3-17-59, Cl. 23—283.
- Ruth, Joseph P. Continuous sub-atmospheric diffusion of sugar. 2,908,596, 10-13-59, Cl. 127—45.
- Ruth, Joseph P. Mining and excavating machine of the rotary type. 2,919,121, 12-29-59, Cl. 262—7.
- Ruth, Thelma M.: *See*—  
Ruth, Aquilla R. 2,909,795.
- Ruthardt, Konrad, and H. Speidel, to W. C. Heraeus, G.m.b.H. Potentiometer electrical resistance elements of palladium base alloys. 2,890,114, 6-9-59, Cl. 75—172.
- Ruther, Westley E.: *See*—  
Draley, Joseph E., and Ruther. 2,871,176.
- Rutherford, Harry T. Bearing boring machine. 2,877,671, 3-17-59, Cl. 77—3.
- Rutherford, Jerome J., Jr.: *See*—  
Swanson, Linwood B., and Rutherford. 2,904,339.
- Ruthroff, Clyde L., to Bell Telephone Laboratories, Inc. Microwave frequency discriminator. 2,883,533, 4-21-59, Cl. 250—27.
- Ruti Machinery Works Ltd.: *See*—  
Egli, Gerhard. 2,911,012.
- Rutkowski, Hans, to H. Gerlach. Roof support structure for mine workings. 2,884,272, 4-28-59, Cl. 287—99.
- Rutland, David F.: *See*—  
Pitman, Duncan, Rutland, and Giel. 2,907,012.
- Rutland, David F., and J. C. Barclay, to Friden, Inc. Multiplying mechanism for accumulating products around a fixed decimal. 2,868,454, 1-13-59, Cl. 235—63.
- Rutledge, Chesley A., Jr. Knife scabbards. 2,903,171, 9-8-59, Cl. 224—2.
- Rutledge, Hal M., and C. M. Moore, to The Superior Switch-board & Devices Co. Ringless socket meter box with means for disconnecting the meter. 2,907,928, 10-6-59, Cl. 317—109.
- Rutledge, John J. Sandblasting nozzle and method of producing it. 2,900,851, 8-25-59, Cl. 76—101.
- Rutledge, Ralph J., Sr. Automatic baby feeder. 2,890,007, 6-9-59, Cl. 248—105.
- Rutledge, Richard E., Sr. Paint can holder and scraper. 2,873,044, 2-10-59, Cl. 220—90.
- Rutledge, Thomas F., to Air Reduction Co., Inc. Process of preparing tertiary acetylenic carbinols. 2,910,510, 10-27-59, Cl. 260—618.
- Rutten, Donald, to Railoc Co. Silage distributor. 2,867,190, 1-6-59, Cl. 119—52.
- Ruttenberg, Derald H.: *See*—  
Operhall, Theodore. 2,892,227.
- Ruttger, William J. Braking system for outboard motor carriers. 2,905,482, 9-22-59, Cl. 280—47.24.
- Ruttger, William J. Suction cup holder. 2,915,271, 12-1-59, Cl. 248—206.
- Rutz, Charles R., and V. J. Ferrante. Single delivery welding rod container. 2,896,819, 7-28-59, Cl. 221—203.
- Rutz, Richard F., to International Business Machines Corp. Current multiplication transistors and method of producing same. 2,867,732, 1-6-59, Cl. 307—88.5.
- Rutz, Richard F., to International Business Machines Corp. Bistable semiconductor device. 2,889,499, 6-2-59, Cl. 317—235.
- Rutz, Richard F., to International Business Machines Corp. Semiconductor device encapsulation. 2,898,474, 8-4-59, Cl. 250—211.
- Rutz, Richard F., to International Business Machines Corp. Semiconductor device. 2,910,634, 10-27-59, Cl. 317—235.
- Ruud Mfg. Co.: *See*—  
Lyle, John M. 2,892,465.
- Ruyle, William V., to Merck & Co., Inc.  $\Delta^9$  bisnorcholestenic acids and esters thereof. 2,895,968, 7-21-59, Cl. 260—397.1.
- Ruze, John, to The Gabriel Co. Antenna array for counteracting the effect of null regions. 2,898,593, 8-4-59, Cl. 343—853.
- Ruzek, Jan M.: *See*—  
Jackson, Clarence E., and Ruzek. 2,871,339.
- Ruzicka, Leopold, and O. Jeger, to Ciba Pharmaceutical Products Inc. Process for the manufacture of steroids. 2,868,784, 1-13-59, Cl. 260—239.59.
- Ruzicka, Leopold, and H. Heusser, to Ciba Pharmaceutical Products, Inc. Hydrophenanthryl-carboxylic acids and esters and process for preparing same. 2,889,355, 6-2-59, Cl. 260—468.5.
- Ruzicka, Otakar. Photocolorimetric device. 2,900,523, 8-18-59, Cl. 250—211.
- Ryan, Alfred J., and W. B. McDowell; said McDowell assor. to said Ryan. Flow meter. 2,896,453, 7-28-59, Cl. 73—228.
- Ryan, Benjamin F., to United States of America, Air Force. Dolly-conveyor. 2,915,207, 12-1-59, Cl. 214—84.
- Ryan, Claire S., and R. S. Lane. Can opener and radiant energy sterilizer. 2,867,865, 1-13-59, Cl. 21—102.
- Ryan, Donald J.: *See*—  
Childers, Eugene, Ellis, and Ryan. 2,910,343.
- Ryan, Edward J., Jr.: *See*—  
Dodge, William W., and Ryan. 2,896,531.
- Ryan, George R., to Abbott Laboratories. Container closure. 2,915,211, 12-1-59, Cl. 215—42.
- Ryan, Herbert A., to Senokot Pharmaceutical Products Corp. Process for manufacture of senna products. 2,908,610, 10-13-59, Cl. 167—56.
- Ryan, James F., Jr., to W. F. and John Barnes Co. Method and apparatus for aseptically canning under pressure. 2,874,523, 2-24-59, Cl. 53—22.
- Ryan, James F., Jr., to W. F. and John Barnes Co. Method and apparatus for aseptically canning. 2,885,845, 5-12-59, Cl. 53—112.
- Ryan, James F., Jr., to W. F. and John Barnes Co. Back pressure valve. 2,902,048, 9-1-59, Cl. 137—510.
- Ryan, John A., Jr. Low altitude bombing system and apparatus. 2,898,809, 8-11-59, Cl. 89—1.5.
- Ryan, John W. Vibrator toy gun. 2,892,289, 6-30-59, Cl. 46—175.
- Ryan, John W. Toy control system. 2,892,290, 6-30-59, Cl. 46—244.
- Ryan, Kenneth Y., and W. J. Waters, to Farrel-Birmingham Co., Inc. Mounting and demounting press. 2,878,559, 3-24-59, Cl. 29—252.
- Ryan, Martin A., to Phillips Petroleum Co. Hydraulic cements having an extended thickening time, methods of making the same, and processes employing the same. 2,876,841, 3-10-59, Cl. 166—31.



- Ryan, Martin A., to Phillips Petroleum Co. Thermal drill and drilling process. 2,896,914, 7-28-59, Cl. 255-1.8.
- Ryan, Rhys E., and F. L. Tocher, to M. H. Treadwell Co., Inc. Apparatus for handling and cooling cast metal cakes. 2,894,518, 7-14-59, Cl. 134-131.
- Ryan, Richard W. Operating plug for fragrance dispenser. 2,904,223, 9-15-59, Cl. 222-162.
- Ryan, Thomas R. Interchangeable ornaments for buttons. 2,880,487, 4-7-59, Cl. 24-113.
- Ryan, William H.: *See—*  
Walworth, Vivian K., and Ryan. 2,892,383.
- Ryan, William H., to Polaroid Corp. Method for eliminating unwanted images in stereoscopic light-polarizing prints. 2,887,007, 5-19-59, Cl. 88-29.
- Ryan, William H., and V. K. Walworth, to Polaroid Corp. Film stock for dichroic dye images. 2,868,077, 1-13-59, Cl. 88-65.
- Ryan, William H., and V. K. Walworth, to Polaroid Corp. Light-polarizing process and product. 2,892,382, 6-30-59, Cl. 88-65.
- Ryba, Anton, to Stempel-Hermetik G. m. b. H. Electromagnetic compressor. 2,872,101, 2-3-59, Cl. 230-55.
- Ryba, Anton, to Stempel-Hermetik G. m. b. H. Compressor. 2,872,102, 2-3-59, Cl. 230-55.
- Ryba, Anton, 30% to J. Reinisch, and 30% to E. Vinatzer. Friction coupling. 2,893,528, 7-7-59, Cl. 192-111.
- Ryba, Anton, 30% to J. Reinisch and 30% to E. Vinatzer. Slipping-less electromagnetically actuated coupling. 2,899,036, 8-11-59, Cl. 192-84.
- Rybold, Richard A., Jr. Plug and receptacle assembly. 2,871,458, 1-27-59, Cl. 339-91.
- Ryburn, Jake R., and C. F. Bonner. Roof ventilator. 2,897,742, 8-4-59, Cl. 98-42.
- Rychlewski, Thaddeus V.: *See—*  
Evans, Lyle W., Rychlewski, and Wilson. 2,898,226.
- Rychlewski, Thaddeus V., to Sylvania Electric Products Inc. Process of forming luminescent screens. 2,903,378, 9-8-59, Cl. 117-33.5.
- Rychlewski, Thaddeus V., to Sylvania Electric Products Inc. Processing of image display devices. 2,916,394, 12-8-59, Cl. 117-33.5.
- Rychlewski, Thaddeus V., and R. F. Wilson, to Sylvania Electric Products Inc. Method of producing patterns. 2,872,316, 2-3-59, Cl. 96-35.
- Rychlewski, Thaddeus V., and R. F. Wilson, to Sylvania Electric Products Inc. Image display device. 2,898,225, 8-4-59, Cl. 117-33.5.
- Ryck, Francis M., to General Motors Corp. Windshield wiper blade. 2,915,769, 12-8-59, Cl. 15-245.
- Ryck, Francis M., to General Motors Corp. Windshield wiper transmission and arm assembly. 2,915,771, 12-8-59, Cl. 15-255.
- Ryecraft, Dale, Jr., and R. B. Mortimer, to Peterson Mfg. Co., Inc. Apparatus for producing animal protein meals. 2,909,984, 10-27-59, Cl. 99-235.
- Ryd, Sven E., to Atlas Copco Aktiebolag. Pneumatic bolt applying and tightening tool. 2,910,901, 11-3-59, Cl. 81-52.3.
- Rydahl, Ernst A. H.: *See—*  
Bergstedt, Alf J. A., and Rydahl. 2,903,279.
- Rydbeck, Olof E. H. Electronic devices. 2,895,072, 7-14-59, Cl. 315-5.15.
- Rydboholms Aktiebolag: *See—*  
Corneliusson, Karl G. E., Damm, Landqvist, Linnarson, and Svansson. 2,892,470.
- Ryder, Anthony J., to The Griscom-Russell Co. Method of welding stainless steel and welded joints. 2,914,346, 11-24-59, Cl. 285-189.
- Ryder, David F., to E. I. du Pont de Nemours and Co. Agitating device. 2,869,838, 1-20-59, Cl. 259-9.
- Ryder, Elliott E., Jr.: *See—*  
Moore, Robert J., Ryder, and Jones. 2,913,412.
- Ryder, Elmer. Variable displacement pump. 2,899,903, 8-18-59, Cl. 103-120.
- Ryder, Frank A., to Stewart-Warner Corp. Automotive vehicle heating system. 2,880,718, 4-7-59, Cl. 126-116.
- Ryder, George R., to General Motors Corp. Windshield wiper assembly. 2,901,765, 9-1-59, Cl. 15-255.
- Ryder, Robert C., to American Cyanamid Co. Maleic anhydride production and catalyst therefor. 2,885,409, 5-5-59, Cl. 260-346.8.
- Ryding, Herbert C., Jr.: *See—*  
Christian, Maurice R., and Ryding. 2,914,812.  
Christian, Maurice R., and Ryding. 2,914,813.  
Christian, Maurice R., and Ryding. 2,914,814.
- Rydz, John S., to Radio Corp. of America. Cathode ray tube systems. 2,885,463, 5-5-59, Cl. 178-5.2.
- Rye, John K.: *See—*  
Kay, John G., and Rye. 2,873,019.
- Rye, Walter L., to The Cincinnati Gear Co. Workpiece loading and unloading mechanism. 2,910,919, 11-3-59, Cl. 90-1.
- Ryker, Don W., to Olin Mathieson Chemical Corp. Process for preparing propellant powder. 2,917,379, 12-15-59, Cl. 52-20.
- Ryland, Francis G.: *See—*  
Umbricht, Emil, and Ryland. 2,899,183.
- Rylander, Elmer W.: *See—*  
Goertz, Raymond C., Ferguson, Rylander, and Safranski. 2,891,168.
- Rylander, John V. Window construction. 2,876,505, 3-10-59, Cl. 20-52.2.
- Rylander, Paul N.: *See—*  
Meyerson, Seymour, and Rylander. 2,880,250.
- Rylock Co., Ltd.: *See—*  
Rust, David J., and Jensen. 2,894,579.  
Rust, David J., and Jensen. 2,918,706.
- Rymer, Russell S.: *See—*  
Cross, Grosvenor M., and Rymer. 2,890,529.
- Rynders, Wesley B., to Phillips Petroleum Co. Cylinder cleaning rack. 2,878,507, 3-24-59, Cl. 15-304.
- Ryno, Juddson B.: *See—*  
Casey, Charles L., and Ryno. 2,885,051.
- Rypinski, Albert B., W. S. J. Smith, C. Brunner, and M. J. Laverty, to Murray Mfg. Corp. Electromagnetic circuit breaker. 2,890,306, 6-9-59, Cl. 200-87.
- Ryschkeiwisch, Eugene I., to United States of America, Air Force. Stabilization of zirconia. 2,910,371, 10-27-59, Cl. 106-57.
- Ryser, Gottlieb: *See—*  
Gerecke, Max, Ryser, and Zeller. 2,912,467.  
Guex, Waldeemar, and Ryser. 2,870,208.
- Ryshavy, Rudolph L., to Bound Brook Oil-Less Bearing Co. Oil-impregnated bearing having molybdenum sulfide coating and method of making same. 2,893,793, 7-7-59, Cl. 308-240.
- Rystan Co.: *See—*  
Goldman, Benjamin. 2,917,433.
- Rywak, John, to Northern Electric Co., Ltd. Thyatron control circuit. 2,898,515, 8-4-59, Cl. 315-168.
- Ryznar, John W., to National Aluminate Corp. Finely divided metal-containing substances and process for the preparation thereof. 2,870,000, 1-20-59, Cl. 75-5.
- Ryznar, John W., to National Aluminate Corp. Treatment of metal surfaces in frictional contact to increase the friction therebetween. 2,877,716, 3-17-59, Cl. 104-1.
- Ryznar, John W., to National Aluminate Corp. Chemical method of bark removal in forestry by using borocarsenates. 2,896,375, 7-28-59, Cl. 47-57.5.
- Rzasa, Michael J.: *See—*  
Morse, Richard A., and Rzasa. 2,881,838.
- Rzeminski, Walter S., to General Motors Corp. Paper packet processing machine. 2,911,131, 11-3-59, Cl. 225-100.
- Rzeppa, Alfred H. Universal joint. 2,902,844, 9-8-59, Cl. 64-21.
- Rzewinski, Leonard J.: *See—*  
Alexander, Laurence R., and Rzewinski. 2,891,479.
- S.A.G.A. Società per Azioni: *See—*  
Boschi, Antonio. 2,887,173.
- S.a.r.l. Realisations Ultrasoniques: *See—*  
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Renaut, Paul. 2,903,886.
- S.A.S. Lavorazione Materie Plastiche (L.M.P.) di M. I. Colombo & C.: *See—*  
Colombo, Roberto. 2,902,716.  
Colombo, Roberto. 2,914,801.
- S. A. T. A. M., Societe Anonyme pour Tous Appareillages Mecaniques: *See—*  
Blanchet, Andre F. M., and Meyer. 2,898,002.  
Carriol, Louis A. 2,871,894.  
Carriol, Louis A. 2,885,119.
- S-B Mfg. Co.: *See—*  
Schulz, Alfred J. and D. A. 2,877,036.
- S & C Electric Co.: *See—*  
Baker, Charles H. 2,880,289.  
Harner, Robert H. 2,877,322.  
Lindell, Sigurd I. 2,872,549.  
Lindell, Sigurd I., and Ferguson. 2,894,101.  
Mikos, John J. 2,917,608.  
Mikos, John J. 2,917,609.  
Mikos, John J. 2,918,556.
- S.D.S. Inc.: *See—*  
Lee, Helen. 2,883,988.
- S. & E. Mfg. Co.: *See—*  
Reavis, William J. 2,877,832.
- S. and F. Co., The: *See—*  
Kaplan, Sholom E. 2,894,708.
- S-J Chemical Co.: *See—*  
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- SKB Schuchtermann & Kremer-Baum Akt. fur Aufbereitung: *See—*  
Teuteberg, Rudolf. 2,893,557.
- SKF Industries, Inc.: *See—*  
Palmgren, Nils A. 2,876,529.
- SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung: *See—*  
Dausch, Erwin. 2,867,852.  
Dausch, Erwin. 2,870,487.  
Dausch, Ernst. 2,900,675.  
Dausch, Ernst. 2,917,786.  
Fink, Heinrich. 2,872,774.  
Fink, Heinrich. 2,896,395.  
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Steichele, Joseph. 2,905,979.
- S. L. F. Engineering Co.: *See—*  
Fuhrmann, Hans, and Schwabe. 2,891,438.
- S. N. Marep: *See—*  
Dicky, Leonide. 2,896,980.
- S. O. S. B-Skod I/S: *See—*  
Snitker, Jens C. 2,910,739.



- S.p.A. Cambi Idraulici Badalini: *See*—  
Badalini, Giovanni. 2,891,419.
- S. p. A. Fratelli Borietti: *See*—  
Moro, Antonio. 2,868,150.  
Moro, Antonio. 2,871,809.
- S & S Corrugated Paper Machinery Co., Inc.: *See*—  
Connolly, Francis A. 2,902,000.  
Shields, Albert F. 2,898,818.  
Shields, Albert F. 2,898,819.  
Shields, Albert F. 2,898,821.  
Shields, Albert F. 2,902,280.  
Shields, Albert F. 2,905,067.
- S.S.S. Gears Ltd.: *See*—  
Short, Philip J. 2,913,084.  
Sinclair, Harold, and Basebe. 2,876,878.
- S. U. Carbuiretter Co. Ltd., The: *See*—  
Morris, John N. 2,899,953.  
Morris, John N. 2,915,014.
- S. & W. Sewing Machine Attachment Co.: *See*—  
Seaman, Edward L. 2,915,997.
- Saad, Albert A. One-piece self-closing container. 2,868,254, 1-13-59, Cl. 150—5.
- Saad, Theodore S., to Raytheon Mfg. Co. Directional coupler switches. 2,887,572, 5-19-59, Cl. 250—13.
- Saalfrank, Royal B., to Milton Roy Co. Variable stroke mechanisms. 2,892,352, 6-30-59, Cl. 74—44.
- Saalfrank, Royal B., to Milton Roy Co. Pump with sealing arrangement. 2,898,867, 8-11-59, Cl. 103—153.
- Saari, Oliver E., to Illinois Tool Works. Worm forming apparatus. 2,871,765, 2-3-59, Cl. 90—11.64.
- Saari, Oliver E., to Illinois Tool Works. Skew-axis gearing with plane tooth gear. 2,896,467, 7-28-59, Cl. 74—459.5.
- Saari, Oliver E., to Illinois Tool Works. Reduction gearing unit. 2,908,187, 10-13-59, Cl. 74—665.
- Saba, John M.: *See*—  
Atkinson, William J. 2,867,911.
- Sabaroff, Samuel. Radio frequency noise measurement systems. 2,883,616, 4-21-59, Cl. 324—57.
- Sabaroff, Samuel. Squelch system for communications receivers and the like. 2,892,079, 6-23-59, Cl. 250—20.
- Sabatini, John J., to Bendix Aviation Corp. Starter gearing for internal combustion engines. 2,882,733, 4-21-59, Cl. 74—6.
- Sabatini, John J., to Bendix Aviation Corp. Dental type of over-running clutch and control mechanism therefor. 2,906,382, 9-29-59, Cl. 192—41.
- Sabatino, Anthony, and J. F. Schaefer, to Globe-Union Inc. Method and apparatus for making dry charged batteries. 2,911,457, 11-3-59, Cl. 136—33.
- Sabee, Reinhardt N., to Circle Machinery & Supply Co. Machine for forming and filling foil packets. 2,913,862, 11-24-59, Cl. 53—53.
- Sabel, Edward R.: *See*—  
Bull, Glen C., Marlen, and Sabel. 2,913,973.
- Sabel, Edward R., and F. I. Galbrecht, to Haloid Xerox Inc. Photographic material processing apparatus. 2,913,974, 11-24-59, Cl. 95—94.
- Sabel, Richard H., to Flexonics Corp. Shell molding apparatus. 2,887,741, 5-26-59, Cl. 22—32.
- Saberton, Frederick R., to Metalastik Ltd. Shaft assemblies. 2,869,340, 1-20-59, Cl. 64—11.
- Sabins Dohrmann, Inc.: *See*—  
Sabins, Rolland C. 2,903,405.  
Sabins, Rolland C. 2,904,489.  
Sabins, Rolland C. 2,918,420.
- Sabins, Rolland C., to Sabins Dohrmann, Inc. Corrosion prevention system. 2,903,405, 9-8-59, Cl. 204—197.
- Sabins, Rolland C., to Sabins Dohrmann, Inc. Anode mounting apparatus. 2,904,489, 9-15-59, Cl. 204—197.
- Sabins, Rolland C. Electrolytic system. 2,910,421, 10-27-59, Cl. 204—197.
- Sabins, Rolland C., to Sabins Dohrmann, Inc. Electrolytic system. 2,918,420, 12-22-59, Cl. 204—196.
- Sable, Arthur J.: *See*—  
Gilchrist, Edgar S., and Sable. 2,913,672.  
Roper, Charles G., Gilchrist, and Sable. 2,898,543.
- Sabo, Julius J., and H. E. Butler, to General Motors Corp. Method for molding a ball-like article. 2,908,941, 10-20-59, Cl. 18—59.
- Sabo, Stephen C., to The General Tire & Rubber Co. Air spring vulcanizing mold. 2,895,168, 7-21-59, Cl. 18—35.
- Saboe, Michael S., to United States of America, Navy. Afterburner design, vaporizing type. 2,867,085, 1-6-59, Cl. 60—39.71.
- Sabol, Albert R., to Standard Oil Co. Method of preparing non-corrosive sulfurized terpenes and compositions containing the same. 2,910,462, 10-27-59, Cl. 260—139.
- Sabol, Albert R., and R. E. Karll, to Standard Oil Co. Preparation of alkaline earth salts of phosphorus sulfide-hydrocarbon reaction products. 2,875,189, 2-24-59, Cl. 260—139.
- Sabol, Albert R., and R. Q. Little, Jr., to Standard Oil Co. Hydrolysis of phosphorus sulfide-hydrocarbon reaction product. 2,900,376, 8-18-59, Cl. 260—139.
- Sabre Metal Products, Inc.: *See*—  
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- Sabre Research Corp.: *See*—  
Thompson, Tom H. 2,889,781.  
Thompson, Tom H. 2,918,008.
- Sabreen, Bernard S.: *See*—  
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Hollander, Julius, and Sabreen. 2,897,593.
- Sabuda, Josef: *See*—  
Converse, Vernon G., III, Seymour, Hohisel, and Sabuda. 2,884,113.
- Sabula, George, to John W. Collier Co., Inc. Braider carrier. 2,881,653, 4-14-59, Cl. 87—56.
- Saby, John S., to General Electric Co. Evaporative cooling system for electrical devices. 2,886,746, 5-12-59, Cl. 317—234.
- Saccardo, Pietro: *See*—  
Cevidalli, Guidobaldo, Marchi, and Saccardo. 2,902,344.
- Saccardo, Pietro, to Sincat Società Industriale Catanese S.p.A. Process for the preparation of hydrous potassium magnesium sulfate from kainite containing sodium chloride. 2,902,343, 9-1-59, Cl. 23—121.
- Sacchi, Edward M.: *See*—  
Aterno, Joseph P., Luther, Hawley, and Sacchi. 2,908,609.
- Sacchini, Columbus R., to Curtiss-Wright Corp., Marquette Metal Products Division. Making clutch spring anchor portions. 2,901,071, 8-25-59, Cl. 192—41.
- Sacchini, Columbus R., and D. R. Tomko, to Curtiss-Wright Corp., Marquette Metal Products Division. Bidirectional no-back couplings. 2,881,881, 4-14-59, Cl. 192—8.
- Sacco, Louis J., Jr.: *See*—  
Kent, Eugene A., and Sacco. 2,901,370.
- Saccomanno, Geno. Bottle cap. 2,911,123, 11-3-59, Cl. 215—48.
- Saccucci, Maria L.: *See*—  
Petrelli, Arnaldo. 2,903,317.
- Sachaczinski, Stanley F., to Philco Corp. Drying apparatus. 2,903,799, 9-15-59, Cl. 34—45.
- Sacharow, Maurice H. Attaching bracket for furniture legs and the like. 2,905,422, 9-22-59, Cl. 248—188.
- Sacharski, Edward P. Safety latch for closures. 2,918,318, 12-22-59, Cl. 292—87.
- Sacher, William S., 50% to L. Cambell, Jr. Layout instrument. 2,893,133, 7-7-59, Cl. 33—192.
- Sachs, Louis. Moisture absorbent and self-ventilating footwear. 2,869,253, 1-20-59, Cl. 36—3.
- Sachs, Walter S., & Co., Inc.: *See*—  
Soffa, Albert, and Kulicke. 2,893,297.
- Sachsenröder, Gustav, Sr., and T. Schroder. Knot-tying apparatus. 2,913,270, 11-17-59, Cl. 289—2.
- Sachsenröder, Gustav, Sr., and T. Schroder. Loop-forming and knot-tying device. 2,913,271, 11-17-59, Cl. 289—2.
- Sack, Edgar A., Jr.: *See*—  
Anderson, Arthur E., and Sack. 2,888,593.
- Sack, Edgar A., Jr., to Westinghouse Electric Corp. Display systems. 2,917,667, 12-15-59, Cl. 315—169.
- Sack, Joel, to Baldwin-Lima-Hamilton Corp. Loading apparatus for horizontal metal working machines. 2,900,090, 8-18-59, Cl. 214—1.
- Sack, Joel, to Baldwin-Lima-Hamilton Corp. Handling device for feeding tools to a metal working machine. 2,900,095, 8-18-59, Cl. 214—95.
- Sack, Lewis H. Bird feeder. 2,890,681, 6-16-59, Cl. 119—52.
- Sack, Werner, to Jenaer Glaswerk Schott & Gen. Method of producing structural parts of a combination of glass and plastics. 2,908,591, 10-13-59, Cl. 117—124.
- Sacket Sporting Goods Co.: *See*—  
Blees, William A. 2,895,737.
- Sackett, A. J., & Sons Co.: *See*—  
Sackett, Walter J. 2,871,510.  
Sackett, Walter J. 2,877,956.
- Sackett, Charles E. Artificial limbs. 2,897,512, 8-4-59, Cl. 3—22.
- Sackett, Loren C., to B. Walker. Safety engine analyzer synchronizer. 2,907,948, 10-6-59, Cl. 324—16.
- Sackett, Robert L. Anti-skid water ski. 2,918,684, 12-29-59, Cl. 9—310.
- Sackett, Walter J., to The A. J. Sackett & Sons Co. Granulator. 2,871,510, 2-3-59, Cl. 18—1.
- Sackett, Walter J., to The A. J. Sackett & Sons Co. Dual purpose mill. 2,877,956, 3-17-59, Cl. 241—189.
- Sackin, Milton: *See*—  
Gill, Joseph, and Sackin. 2,873,320.
- Sacks, Bernard. System for utilizing heat removed from a refrigerated space. 2,883,836, 4-28-59, Cl. 62—196.
- Sacks, Jacob M.: *See*—  
Pawley, Myron G., and Sacks. 2,881,244.
- Sackur, Otto: *See*—  
Debay, Andre, and Sackur. 2,899,449.
- Saco-Lowell Shops: *See*—  
Anderson, Gordon C., and Hopkinson. 2,898,729.  
Hill, Clarence W., and Hopkinson. 2,870,597.  
Paterson, Peter S. 2,897,549.  
Pray, Lester W. 2,867,006.
- Sacony Foundations, Inc.: *See*—  
Di Tullio, Flavia. 2,896,632.
- Sacre, Leo D., to Motorola, Inc. Tuning mechanism. 2,877,351, 3-10-59, Cl. 250—40.
- Saczawa, Matthew F.: *See*—  
Budney, Michael P., H. S. and T. W., and Saczawa. 2,905,027.  
Budney, Michael P., H. S. and T. W., and Saczawa. 2,911,885.



- Sada, Pietro. Machine for slicing and canning food products at plastic state, particularly meat. 2,911,776, 11-10-59, Cl. 53-63.
- Sadin, Sidney A.: *See*—  
Freedman, Louis, Merritt, and Sadin. 2,888,381.
- Sadler, Alexander G. Offset bender. 2,908,317, 10-13-59, Cl. 153-39.
- Sadler, Carl L., R. H. Eisengrein, and G. G. Hermanson, to Sundstrand Machine Tool Co. Control means. 2,885,566, 5-5-59, Cl. 307-57.
- Sadler, James E.: *See*—  
Bornzin, James H., Sadler, and Fachini. 2,884,754.
- Sadler, Peter, to N.G.N. Electrical Ltd. Diffusion vacuum pumps. 2,899,126, 8-11-59, Cl. 230-101.
- Sadolin & Holmblad A/S: *See*—  
Clauson-Kaas, Niels K. F. W., and Elming. 2,875,207.
- Sadowsky, Charles, to Milrose Sales Corp. Folding table with hinged top. 2,887,348, 5-19-59, Cl. 311-80.
- Sadowsky, Maurice J., Jr.: *See*—  
Schwendemann, Edward T., Sadowsky, and Murway. 2,894,856.
- Sadowsky, Meier, to Philco Corp. Vibration or shock detecting device. 2,892,950, 6-30-59, Cl. 250-217.
- Sadowsky, Meier, and S. L. Parsons, to Philco Corp. Method of manufacturing electrical apparatus. 2,870,010, 1-20-59, Cl. 96-35.
- Sadtler, Philip B., to Chicago Bridge & Iron Co. Method and apparatus for recompression evaporation. 2,895,546, 7-21-59, Cl. 159-24.
- Saegert, Marie S.: *See*—  
Scavullo, Angelo C. 2,878,172.
- Saeks, Alvin L. Moth preventive and deodorant dispensers. 2,878,061, 3-17-59, Cl. 299-24.
- Saeman, Walter C. Rotary furnace installations and method of processing charges therein. 2,878,004, 3-17-59, Cl. 263-32.
- Saeman, Walter C., to Olin Mathieson Chemical Corp. Crystallization. 2,883,273, 4-21-59, Cl. 23-295.
- Safarik, Norman E., and H. B. Lougheed. Trap for crustaceans. 2,910,801, 11-3-59, Cl. 43-105.
- Safe Flight Instrument Corp.: *See*—  
Greene, Leonard M. 2,881,635.
- Safe Stop Corp.: *See*—  
Friz, Gerhard. 2,877,869.
- Safe-Pack Container Co.: *See*—  
O'Neil, John G. 2,891,713.  
O'Neil, John G. 2,915,952.
- Safer Electronic Fire Alarm, Inc.: *See*—  
Sierer, Payson. 2,899,674.
- Safetee Glass Co.: *See*—  
Gee, Robert E., and Gibbs. 2,899,333.
- Safe-T-Systems Corp.: *See*—  
Thompson, Willie M. S. 2,878,077.
- Safety Automatic Brake Corp.: *See*—  
Hemphill, Stanley R. 2,871,999.
- Safety Bath Rail, Inc.: *See*—  
Ronan, William J. 2,896,899.
- Safety Electrical Equipment Corp.: *See*—  
Vercella, Rudolph A. 2,919,394.
- Safety Industries, Inc.: *See*—  
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Dodds, Robert B., Conley, and Seidel. 2,879,004.
- Safeway Stores, Inc.: *See*—  
Rowland, George H., and Williams. 2,911,303.
- Saffer, Alfred, and R. Landau, to Mid-Century Corp. Chemical process. 2,909,575, 10-20-59, Cl. 260-671.
- Saffir, Jacob A., to The Dentists' Supply Co. of New York. Artificial teeth. 2,888,747, 6-2-59, Cl. 32-8.
- Saffir, Jacob A., to The Dentists' Supply Co. of New York. Clasps for denture prosthesis. 2,889,625, 6-9-59, Cl. 32-5.
- Saffir, Jacob A. Projection screen. 2,906,169, 9-29-59, Cl. 88-28.9.
- Saffer, John L., to Chrysler Corp. Snap clip. 2,876,515, 3-10-59, Cl. 24-73.
- Safford, Lewis A., to The New York Air Brake Co. Dual brake cylinder with lock. 2,873,579, 2-17-59, Cl. 60-97.
- Safford, Lewis A., to The New York Air Brake Co. Safety valve. 2,873,760, 2-17-59, Cl. 137-529.
- Safford, Moyer M., to General Electric Co. Thermostabilization of polyvinyl chloride with heavy metal containing zeolites. 2,867,605, 1-6-59, Cl. 260-45.75.
- Safford, Moyer M., to General Electric Co. Polyethylene composition containing organopolysiloxane resin. 2,888,419, 5-26-59, Cl. 260-29.1.
- Safford, Moyer M., and R. L. Myers, to General Electric Co. Blends of organopolysiloxane, polybutadiene and di- $\alpha$ -cumyl peroxide and method of curing same. 2,867,603, 1-6-59, Cl. 260-45.5.
- Safanoff, Albert: *See*—  
Emmert, George W., and Safanoff. 2,910,217.  
Lerner, Louis L., and Safanoff. 2,880,914.
- Safranek, William H.: *See*—  
Bride, John E., Faust, and Safranek. 2,886,500.
- Safranek, William H., and H. R. Miller, to American Zinc Institute. Zinc plating. 2,905,603, 9-22-59, Cl. 204-55.
- Safranski, Lenard M.: *See*—  
Goertz, Raymond C., Ferguson, Rylander, and Safranski. 2,891,168.
- Safstrom, Gustaf A. Nasal air filter. 2,890,695, 6-16-59, Cl. 128-148.
- Saf-T-Brake Valve Co., Inc.: *See*—  
Margida, Frank J. 2,902,043.
- Sagady, Alexander J.: *See*—  
Dolza, John, and Sagady. 2,879,046.
- Sage, Bruce H., to Texaco Development Corp. Process for conducting gaseous reactions. 2,908,733, 10-13-59, Cl. 260-679.
- Sage, Cleo B.: *See*—  
Bowen, Kermit A. 2,899,748.
- Sage, Paul, to Societe a responsabilite limitee: "Societe des Mecaniques Verdol." Double twist spindles. 2,873,570, 2-17-59, Cl. 57-58.72.
- Sage, Richard W.: *See*—  
Hemminger, Charles E., Welty, Taff, and Sage. 2,901,415.
- Sage, Robert A.: *See*—  
Leigh, Marjorie W., Welty, Sage, and Bailly. 2,911,358.
- Sage, Richard W., and D. D. MacLaren, to Esso Research and Engineering Co. Hydroforming and apparatus therefor. 2,910,431, 10-27-59, Cl. 208-159.
- Sage, Robert A.: *See*—  
Bowen, Kermit A. 2,899,748.
- Sage, Robert H.: *See*—  
Smith, Ernest F., Barragato, Oakwood, and Sage. 2,906,122.
- Sage, Roy D., to Atomic Energy of Canada Ltd. Valve for use with radioactive fluids. 2,883,145, 4-21-59, Cl. 251-61.
- Sage, Stanley J., and E. H. Dana. Safety lock for doors. 2,874,988, 2-24-59, Cl. 292-347.
- Sage, Wannie L.: *See*—  
Gram, Arthur J., Jr., and Sage. 2,891,493.
- Sage, Warren F.: *See*—  
Harrison, Clarence L., and Sage. 2,891,318.
- Sager, Karl E. Editor for sound recording and reproducing devices. 2,901,548, 8-25-59, Cl. 179-100.1.
- Sager, Leonard H., to Soriano Ceramics, Inc. Display package unit. 2,878,933, 3-24-59, Cl. 206-79.
- Saggese, Benjamin J.: *See*—  
Zuerker, Siegfried J., and Saggese. 2,894,182.
- Saggese, Edward J.: *See*—  
Krewson, Charles F., and Saggese. 2,868,634.
- Saginaw Furniture Shops, Inc.: *See*—  
Gaines, Harry B. 2,869,956.
- Saginaw Wire Products Inc.: *See*—  
Hoern, Joseph H. 2,869,590.  
Staples, Lynn W. 2,870,823.  
Staples, Lynn W., and Strout. 2,875,818.
- Sagura, John J.: *See*—  
Allen, Charles F. H., and Sagura. 2,870,015.
- Sahagian, Edward H. Hydraulic stabilizing system for vehicles. 2,869,892, 1-20-59, Cl. 280-124.
- Sahagian, Edward H. Stabilizing means for the air springs of an automobile. 2,869,893, 1-20-59, Cl. 280-124.
- Sahagun, Armen N., to Pacific Semiconductors, Inc. Vibratory feeder. 2,908,376, 10-13-59, Cl. 198-33.
- Sahaydak, Miroslaw: *See*—  
Heggie, Robert, Hainer, and Sahaydak. 2,891,868.
- Sahlberg, Carl G. I., to Aktiebolaget Bofors. Cartridge guiding device. 2,907,251, 10-6-59, Cl. 89-47.
- Saholt, Orville J., to United States of America, Navy. Pressure-actuated stepping switch. 2,875,292, 2-24-59, Cl. 200-82.
- Saholt, Orville J., to United States of America, Navy. Pressure actuated switch. 2,891,120, 6-16-59, Cl. 200-82.
- Sahula, George J., to Sheller Mfg. Corp. Steering wheel. 2,905,019, 9-22-59, Cl. 74-493.
- Sahyun Laboratories: *See*—  
Faust, John A., and Sahyun. 2,919,274.
- Sahyun, Melville: *See*—  
Faust, John A., and Sahyun. 2,919,274.
- Sahyun, Melville, to Chas. Pfizer & Co., Inc. Pharmaceutical composition containing 2-(1,2,3,4-tetrahydro-1-naphthyl)-imidazole. 2,890,984, 6-16-59, Cl. 167-65.
- Saia A.G.: *See*—  
Weber, Artur. 2,884,499.  
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- Saia, Anthony: *See*—  
Lipson, Samuel, Rosenthal, and Saia. 2,889,703.
- Saiberlich, Erwin W., to Fox River Tractor Co. Auxiliary bodies for trucks. 2,881,024, 4-7-59, Cl. 296-35.
- Saiberlich, Erwin W., to Fox River Tractor Co. Material feed mechanism for sand and chip spreaders. 2,891,655, 6-23-59, Cl. 198-64.
- Saidel, William R., to Foil Cartons, Inc. Reclosable cartons. 2,907,511, 10-6-59, Cl. 229-17.
- Sailor, George E. Supplementary room structure for a house trailer. 2,913,775, 11-24-59, Cl. 20-2.
- Saint, Nathaniel. Auxiliary fuel system. 2,867,395, 1-6-59, Cl. 244-135.
- St. Anne's Board Mill Co. Ltd.: *See*—  
Sheldon, George H. 2,881,673.  
Thomas, Reginald J. 2,881,668.  
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Thomas, Reginald J. 2,881,671.  
Thomas, Reginald J. 2,881,672.  
Thomas, Reginald J. 2,881,675.  
Thomas, Reginald J. 2,881,676.  
Thomas, Reginald J. 2,881,677.  
Thomas, Reginald J. 2,881,678.  
Thomas, Reginald J., and Smith. 2,881,669.



- St. Clair, Theodore A., to The Weatherhead Co. Appliance regulator. 2,904,068, 9-15-59, Cl. 137—505.41.
- St. Clair, Theodore A., and R. C. Krall, to The Weatherhead Co. Pressure regulator. 2,898,930, 8-11-59, Cl. 137—116.3.
- St. Clair, William E., to Koppers Co., Inc. Epoxy resins. 2,892,809, 6-30-59, Cl. 260—54.
- St. Clair, William E., to Koppers Co., Inc. Process for preparing epoxyalkyl aryl ethers. 2,892,849, 6-30-59, Cl. 260—348.6.
- St. Cyr, William H., Sr.: *See—*  
Castonguay, Leon H., and St. Cyr. 2,886,059.
- Saintespruit, Rose B. P., nee Meunier, to Lignes Telegraphiques et Telephoniques. Magnetic amplifiers. 2,897,297, 7-28-59, Cl. 179—171.
- St. Francis Valley Farms Co.: *See—*  
Harmon, Alton O. 2,874,490.
- Saint-Frison, Louis H. N.: *See—*  
Boussu, Gabriel X. R., Neuville, and Saint-Frison. 2,884,040.
- St. George, Ernest C., to Kenneth D. Clardy. Identification camera. 2,916,977, 12-15-59, Cl. 95—18.
- St. Germain, Wilfrid H., to Aerosol Research Co. Aerosol valve. 2,881,808, 4-14-59, Cl. 141—21.
- Saint-Hilaire, Albert B., to Pyral Societe Anonyme. Apparatus for the deposit of a coating on a flexible band and in particular for the deposit of magnetic sound tracks on cinematographic films. 2,891,506, 6-23-59, Cl. 118—415.
- St. Hilaire, Joseph L. 50% to B. J. Stansbury Inc. Hair clip. 2,888,938, 6-2-59, Cl. 132—48.
- St. John, Alexander N. T., and B. M. Walker, to Resistoflex Corp. Reinforced polytetrafluoroethylene pipe and method of making it. 2,888,042, 5-26-59, Cl. 138—55.
- St. John, Andrew D.: *See—*  
Shapiro, Leo, and St. John. 2,884,837.
- St. John, Dale E.: *See—*  
McIntosh, Robert B., and St. John. 2,907,902.
- St. John, Grant E.: *See—*  
Moister, Clarence R., and St. John. 2,888,594.
- St. John, John H., to Hoyer Industries, Inc. Trace brightening circuit. 2,875,402, 2-24-59, Cl. 324—16.
- St. John, John H., to Hoyer Industries, Inc. Sweep circuit. 2,887,613, 5-19-59, Cl. 315—26.
- St. John, Sylvester L., to Dike, Thompson & Sanborn. Method of making a pile fabric. 2,902,397, 9-1-59, Cl. 154—78.
- St. John, Willard M., Jr.: *See—*  
Uraneck, Carl A., and St. John. 2,888,442.
- St. John, William, and T. A. Hoffmann, to Westinghouse Electric Corp. Fine wire drawing furnace. 2,908,490, 10-13-59, Cl. 263—3.
- St. John's University: *See—*  
Kreysa, Frank J. 2,918,466.
- St. Johnston, Andrew, to International Business Machines Corp. Electronic digital computing machines. 2,895,671, 7-21-59, Cl. 235—157.
- St. Laurent, Herbert L. Transport mechanism. 2,903,958, 9-15-59, Cl. 99—336.
- St. Marie, Hilaire F.: *See—*  
Anderson, Leroy E., and St. Marie. 2,880,017.
- Sainton, Joseph B.: *See—*  
Bullock, Mark W., and Sainton. 2,918,631.
- St. Palley, Stephen L. Automatic gunsight. 2,906,160, 9-29-59, Cl. 88—22.
- St. Palley, Zoltan O. Cast insert for die. 2,890,506, 6-16-59, Cl. 22—196.
- St. Peter Rosary Co., The: *See—*  
Goddard, William F. 2,912,770.
- St. Pierre, Eugene, to Hemphill Co. Yarn control mechanism for knitting machines. 2,881,607, 4-14-59, Cl. 66—140.
- St. Pierre, Eugene, to Hemphill Co. Sinker cap for circular knitting machines. 2,893,227, 7-7-59, Cl. 66—107.
- St. Pierre, Eugene, to Hemphill Co. Pick for knitting machines. 2,898,752, 8-11-59, Cl. 66—48.
- St. Pierre, Henry. Animal feeder construction. 2,914,023, 11-24-59, Cl. 119—52.
- St. Regis Paper Co.: *See—*  
Browning, Randolph M. 2,897,730.
- Goodrich, John J. 2,885,141.
- Lee, Harry E. 2,891,716.
- Leptien, Elmer E. 2,872,094.
- Lienart, Marcel. 2,893,184.
- Parsons, Willard J., and Anderson. 2,880,857.
- Pope, John T. 2,882,941.
- Schmied, Joseph M. 2,868,093.
- Sisson, James B. 2,872,965.
- Sisson, James B. 2,917,217.
- Titchenal, Oliver R. 2,887,292.
- Sainty, Christopher L., to Structural Concrete Components Ltd. Composite floor structure. 2,892,341, 6-30-59, Cl. 72—68.
- Sair, Louis, to The Griffith Laboratories, Inc. Proteinaceous soy composition and method of preparing. 2,881,076, 4-7-59, Cl. 99—14.
- Saives, Léon, to Regie Nationale des Usines Renault. Method for treating cast iron castings. 2,901,384, 8-25-59, Cl. 143—3.
- Saives, Léon, to Regie Nationale des Usines Renault. Method of heat treating cast iron. 2,901,386, 8-25-59, Cl. 148—21.8.
- Saives, Léon, to Regie Nationale des Usines Renault. Method for producing malleabilized castings. 2,906,651, 9-29-59, Cl. 148—3.
- Sajeck, George. Gas demand equipment. 2,893,386, 7-7-59, Cl. 128—142.
- Sakagami, Tomihei. Driving mechanism capable of transmitting swinging and feathering motions. 2,871,710, 2-3-59, Cl. 74—70.
- Sakamoto, Tutae: *See—*  
Maruyama, Taketo, Sakamoto, Tamura, Kawahara, and Okubo. 2,896,252.
- Sakata, George, and J. D. Powers, to The Black-Clawson Co. Refiner control system. 2,887,277, 5-19-59, Cl. 241—256.
- Sakata, Rikita: *See—*  
Suyama, Hidenari, Kobayashi, Sakata, Hata, Uzumaki, Ishii, Kiyota, and Haioka. 2,890,927.
- Sakornbut, Songe S., to Monsanto Chemical Co. Impregnating composition. 2,893,881, 7-7-59, Cl. 106—15.
- Sakornbut, Songe S., to Monsanto Chemical Co. Preservative composition comprising tetraalkali metal pyrophosphate, a polychlorophenate and a heavy metal salt. 2,904,466, 9-15-59, Cl. 167—38.5.
- Sakowski, Walter J.: *See—*  
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- Sakraida, Carl R., and R. H. Wellman, to General Motors Corp. Free piston construction. 2,880,709, 4-7-59, Cl. 123—46.
- Saks, David and F., to Candlestick Flower Arranger, Inc. Candlestick flower arranger. 2,876,587, 3-10-59, Cl. 47—41.
- Saks, Fay: *See—*  
Saks, David and F. 2,876,587.
- Saks, William W., to Vitro Corp. of America. Multivibrator. 2,880,322, 3-31-59, Cl. 250—36.
- Sakurai, Ryoichi, T. Tanabe, and H. Nagao. Synthetic fiber preparation. 2,902,335, 9-1-59, Cl. 18—54.
- Sala, Antillo. Self-regulating circulating and cooling system. 2,887,308, 5-19-59, Cl. 261—36.
- Saladrigas, Francisco. Transit. 2,915,827, 12-8-59, Cl. 33—72.
- Salak, Michael: *See—*  
Keating, Charles R., Jr., and Salak. 2,902,752.
- Salathiel, Richard A.: *See—*  
Graham, John W., Perkins, Prokop, and Salathiel. 2,873,423.
- Salava, Frank R. Artificial denture. 2,909,836, 10-27-59, Cl. 32—2.
- Salbeck, Raymond E., and F. H. Drummond, Jr., deceased, by N. Drummond, administratrix, to Western Electric Co., Inc. Loading and unloading apparatus for a press. 2,910,727, 11-3-59, Cl. 18—16.
- Saldarini, Albert: *See—*  
Chodroff, Saul, Saldarini, and Tracy. 2,906,663.
- Sale, Anthony E.: *See—*  
Wright, Peter M., and Sale. 2,914,669.
- Sale, William H., to Klasing Hand Brake Co. Railway journal boxes. 2,878,081, 3-17-59, Cl. 308—88.
- Sale, William H., to Klasing Hand Brake Co. Lubricating means for car axles. 2,886,381, 5-12-59, Cl. 308—88.
- Sale, William H., to Klasing Hand Brake Co. Devices for retaining lubricant in car axle bearings. 2,895,749, 7-21-59, Cl. 286—5.
- Sale, William H., to Klasing Hand Brake Co. Sealing device for railway car truck journal boxes. 2,906,566, 9-29-59, Cl. 308—47.
- Salem-Brosius, Inc.: *See—*  
Vogeli, Harry. 2,880,844.
- Salem Calking Co.: *See—*  
Berker, Ralph C. 2,908,134.
- Salem, Samuel, to The General Tire and Rubber Co. Method for treating fiber cords. 2,898,664, 8-11-59, Cl. 28—76.
- Salem, Samuel, R. E. Bingham, and D. Anderson, to The General Tire and Rubber Co. Cord fabric with removable weft thread. 2,898,665, 8-11-59, Cl. 28—78.
- Salem Tool Co., The: *See—*  
McCarthy, Vincent J. 2,880,707.
- Salengro, Paul A. Power-driven tools. 2,899,934, 8-18-59, Cl. 121—13.
- Salensky, George A.: *See—*  
Gusmer, Frederick E., and Salensky. 2,890,836.
- Salerno, James: *See—*  
Hardin, Clyde D., and Salerno. 2,908,870.
- Salerno, Joseph R. Door assembly in a vending machine for frozen confections. 2,901,305, 8-25-59, Cl. 312—35.
- Salerno, Joseph R. Feed mechanism for containers. 2,915,219, 12-1-59, Cl. 221—113.
- Sales Affiliates, Inc.: *See—*  
McDonough, Everett G. 2,889,833.
- Salgo, Francis J., to General Electrodynamics Corp. Bulb and bulb spacer for camera tube. 2,897,389, 7-28-59, Cl. 313—65.
- Salick, Ralph A. Christmas-tree support having tree top fastening means. 2,909,356, 10-20-59, Cl. 248—361.
- Salisbury, Alvin B., Jr., to Ankh Laboratories, Inc. Apparatus for testing metabolic agents. 2,871,168, 1-27-59, Cl. 195—139.
- Salisbury, Alvin B., Jr., to Ankh Laboratories, Inc. Apparatus for mixing and administering medicines. 2,872,924, 2-10-59, Cl. 128—216.
- Salisbury, Clifton A., to H. B. Egan Mfg. Co. Clamping apparatus. 2,894,283, 7-14-59, Cl. 18—18.
- Salisbury, Ellsworth C., to Mundean Mfg. Co. Dispenser. 2,913,142, 11-17-59, Cl. 221—105.
- Salisbury, Frederick L., to Varian Associates. Electron discharge device. 2,892,121, 6-23-59, Cl. 315—5.39.



- Salisbury, Frederick L., and W. G. Abraham, to Varian Associates. Reflex klystron. 2,899,599, 8-11-59, Cl. 315-5.21.
- Salisbury, John D., W. W. Klein, and C. F. Hansen, to United States of America, Atomic Energy Commission. Electronic phase control circuit. 2,883,536, 4-21-59, Cl. 250-27.
- Salisbury, Maurice B., and L. L. Ellis. Pneumatic hammer concrete router and scarifier. 2,904,320, 9-15-59, Cl. 262-15.
- Salisbury, Winfield W., to Zenith Radio Corp. Acceleration amplifier. 2,870,675, 1-27-59, Cl. 89-1.
- Salivar, Charles J., to Chas. Pfizer & Co., Inc. Aqueous calcium dioxetetracycline antibiotic composition. 2,903,395, 9-8-59, Cl. 167-65.
- Saller, Henry A., to United States of America, Atomic Energy Commission. Fabrication of uranium-aluminum alloys. 2,917,383, 12-15-59, Cl. 75-214.
- Saller, Henry A., and J. R. Keeler, to United States of America, Atomic Energy Commission. Jacketing uranium. 2,894,890, 7-14-59, Cl. 204-193.2.
- Sallmann, Richard: *See*—  
Beriger, Ernst, and Sallmann. 2,908,605.
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- Salmén, August L.: *See*—  
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- Salmet, Gaston, to North American Philips Co., Inc. Frequency-doubling circuit arrangement. 2,904,685, 9-15-59, Cl. 250-27.
- Salmi, Albert E. Decorative bow and method of making the same. 2,869,264, 1-20-59, Cl. 41-10.
- Salminen, Ilmari F.: *See*—  
Bush, Walter M., Salminen, and Thirtle. 2,908,573.
- Salminen, Ilmari F., C. R. Barr, and A. Loria, to Eastman Kodak Co. Photographic color couplers containing fluoroalkylcarbonamide groups. 2,895,826, 7-21-59, Cl. 96-55.
- Salmon, Benjamin J. M.: *See*—  
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- Salmon, Donald B., and R. C. Haynes, to Hoke Inc. Valve stem packing. 2,900,201, 8-18-59, Cl. 286-34.
- Salmon, Reginald D., F. J. L. Turner, and A. F. Burr, to Creed and Co. Ltd. Printing telegraph apparatus. 2,882,972, 4-21-59, Cl. 164-113.
- Salmon, Royce, to Union Oil Co. of California. Distillation column control. 2,915,462, 12-1-59, Cl. 208-353.
- Salmons, Jerome C., to Goodman Mfg. Co. Belt conveyor. 2,880,851, 4-7-59, Cl. 198-192.
- Salmonson, Sven A. Apparatus for preconditioning chips in a digester. 2,901,039, 8-25-59, Cl. 162-246.
- Salna, Karl, to The Frank G. Hough Co. Electrical bucket positioner for tractor loaders. 2,876,921, 3-10-59, Cl. 214-140.
- Salo, John: *See*—  
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- Saloga, Walter J. Stone breaker. 2,882,888, 4-21-59, Cl. 125-23.
- Salomon, François M. M. B. Ship stabilizing apparatus. 2,906,230, 9-29-59, Cl. 114-125.
- Salomon, Georges P. J. Safety thrust block for skis. 2,899,211, 8-11-59, Cl. 280-1135.
- Salomon, Jacob. Pivotal mounted reciprocating cutter for a continuously moving suctionally held web. 2,916,956, 12-15-59, Cl. 83-163.
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- Salomone, Rynold A., to General Electric Co. Fuse-puller switch. 2,899,521, 8-11-59, Cl. 200-133.
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- Saloranta, Arvo E., and E. Puronto. Fuse for shells. 2,870,713, 1-27-59, Cl. 107-78.
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- Salsbury, Jason M.: *See*—  
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- Salsbury's, Dr. Laboratories: *See*—  
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- Salt Water Control, Inc.: *See*—  
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- Salter, Douglas R., to Hickok Mfg. Co. Inc. Neck apparel. 2,879,516, 3-31-59, Cl. 2-145.
- Salter, Frank S., to The Loewy Engineering Co. Ltd. Thrust-transmitting means. 2,904,009, 9-15-59, Cl. 121-38.
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- Salton, Harry D., to McGraw-Edison Co. Forced-cooled transformer having winding temperature relay. 2,917,701, 12-15-59, Cl. 323-44.
- Saltz, Fred, to International Business Machines Corp. Printer carriage control means. 2,884,852, 5-5-59, Cl. 101-93.
- Saltz, Morris A. Apparatus for dispensing and inserting hooks in drapes and the like. 2,903,696, 9-15-59, Cl. 1-1.
- Saltz, Morris A. Drapery hanger segregating and aligning apparatus. 2,913,099, 11-17-59, Cl. 198-33.
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- Saltzman, Henry, to General Precision Laboratory Inc. Microwave antenna array. 2,908,905, 10-13-59, Cl. 343-771.
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- Salz, Edwin T.: *See*—  
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- Salzberg, Paul L., to E. I. du Pont de Nemours and Co. Corrosion inhibitor by means of 1,2-dithiolanes. 2,912,386, 11-10-59, Cl. 252-395.
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- Salzmänn, Karl. Fishing-line leading bob. 2,872,752, 2-10-59, Cl. 43-44.9.
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- Sam, Joseph, to Bristol Laboratories Inc. Heterocyclic amides of N alkyl piperidine carboxylic acids. 2,870,148, 1-20-59, Cl. 260-247.5.
- Sambraus, Adolf. Clarification plant for service and waste waters. 2,880,877, 4-7-59, Cl. 210-530.
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- Samdahl, Russell H., to G. W. Farland. Dance instruction device. 2,871,580, 2-3-59, Cl. 35-29.
- Samin, Daniel C. M.: *See*—  
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- Samios, George: *See*—  
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- Samiran, David. Quick disconnect fastener. 2,875,494, 3-3-59, Cl. 24-215.
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- Samko, Alexander. Air ventilator. 2,893,304, 7-7-59, Cl. 98-45.
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- Sammons, James W. Fishing pole carrier for automobiles. 2,907,506, 10-6-59, Cl. 224-42.1.
- Samolis, Alfonso, to Hehr Mfg. Co. Window fastener construction. 2,902,727, 9-8-59, Cl. 20-11.
- Sampietro, Achilles C.: *See*—  
Gammon, Howard M., and Sampietro. 2,868,438.  
Hall, George V. B., Sampietro, and Hannum. 2,891,718.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Fuel pump control system. 2,893,369, 7-7-59, Cl. 123-179.
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- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Hydraulically operated gas compressor. 2,909,315, 10-20-59, Cl. 230-52.
- Sampietro, Achilles C., to Thompson Ramo Wooldridge Inc. Fuel injection pump. 2,910,056, 10-27-59, Cl. 123-140.



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- Sampo, Inc.: *See*—  
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- Sampsel, Kenneth E., to Westinghouse Electric Corp. Laundry apparatus. 2,914,935, 12-1-59, Cl. 68-12.
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- Sampsel, Virginia: *See*—  
Sampsel, Ralph R. 2,879,909.
- Sampsel, Virginia R.: *See*—  
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- Sampson Construction Co., Inc.: *See*—  
Sampson, Darwin L., Glass, and Richardson. 2,914,302.
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- Sampson, Frederick W., to General Motors Corp. Brake structure. 2,910,145, 10-27-59, Cl. 188-78.
- Sampson, Lawrence R., and G. W. Lampman, to General Motors Corp. Spark plug nipple. 2,904,769, 9-15-59, Cl. 339-26.
- Sampson, Richard E., to Bigelow-Liptak Corp. Furnace wall. 2,870,624, 1-27-59, Cl. 72-101.
- Sams, Martin: *See*—  
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- Sams, Herbert W., to Scripto, Inc. Leakproof ink tube for ball point pen. 2,871,824, 2-3-59, Cl. 120-42.4.
- Sams, Herbert W., to Scripto, Inc. Large capacity ball point ink reservoir tube. 2,883,969, 4-28-59, Cl. 120-47.4.
- Samsel, Richard W.: *See*—  
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- Samsel, Richard W., to General Electric Co. Apparatus for determining vibration characteristics. 2,873,604, 2-17-59, Cl. 73-67.1.
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- Samuel, Arthur J., to Gulf Research & Development Co. Aerosol dispensers and like pressurized packages. 2,904,229, 9-15-59, Cl. 222-394.
- Samuel, George A., to Metal Diffusions, Inc. Chromizing coating. 2,885,301, 5-5-59, Cl. 117-22.
- Samuel, George A., to Metal Diffusions, Inc. Chromizing method and composition. 2,899,332, 8-11-59, Cl. 117-22.
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- Samuels, Abe, and J. F. Callison. Adjustable orthopedic support. 2,899,758, 8-18-59, Cl. 36-71.
- Samuels, Abe O., to Maryland Devices, Inc. Nasal adaptor for valved dispenser. 2,906,265, 9-29-59, Cl. 128-198.
- Samuels, Albert S., Sr. Method of examining and classifying diamonds. 2,909,961, 10-27-59, Cl. 88-14.
- Samuels, Abraham M.: *See*—  
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- Samuelson, Hans O., to Aktiebolaget Rosenblads Patent. Process in recovering sulphur from waste sulphite lye. 2,872,289, 2-3-59, Cl. 23-129.
- Samuelson, Hans O., to Mo och Domsjo aktiebolag. Process of treating wood pulp. 2,902,481, 9-1-59, Cl. 260-212.
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- Smith, John R. 2,887,112.
- Sanborn, Daniel S., to McCulloch Motors Corp. Two-stroke cycle engine. 2,916,023, 12-8-59, Cl. 123-32.
- Sanborn, Homer G., Jr.: *See*—  
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- Sanborn, Walter F., and J. N. MacDuff, to Pneumafil Corp. Anchoring device for electronic equipment. 2,917,266, 12-15-59, Cl. 248-361.
- Sanchez, Enrique. Baby's shoe. 2,883,771, 4-28-59, Cl. 36-50.
- Sanchez, Federico G. Centrifugal separator. 2,883,054, 4-21-59, Cl. 210-85.
- Sanchis, Jose. Liquid dispensing device. 2,885,127, 5-5-59, Cl. 222-481.
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- Sand, John F., to The Gemex Corp. Wrist watch band connector. 2,870,511, 1-27-59, Cl. 24-265.
- Sandage, Ned R. Retractable trailer hitch. 2,889,155, 6-2-59, Cl. 280-491.
- Sandback, Jonas. Method for drying wood. 2,884,707, 5-5-59, Cl. 34-36.
- Sandberg, Fritz E., to Ford Motor Co. Vehicle wheel spindle. 2,916,295, 12-8-59, Cl. 280-96.1.
- Sandberg, Nels H., to Waldorf Paper Products Co. Method of making pulp. 2,872,314, 2-3-59, Cl. 92-6.
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- Sandberg, Robert E., to De Luxe Metal Furniture Co. Vertically adjustable and knockdown shelf structure. 2,912,120, 11-10-59, Cl. 211-147.
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- Sander, Howard H., to United States of America, Atomic Energy Commission. Pressure transducer. 2,907,897, 10-6-59, Cl. 307-88.5.
- Sanders Associates, Inc.: *See*—  
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- Butler, Jesse L. 2,870,440.
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- Cann, Alfred J. 2,876,351.
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- Hayner, Paul F. Re. 24,741.
- Hayner, Paul F. 2,880,708.
- Hayner, Paul F., and Olsen. 2,896,588.
- Karabats, Christopher. 2,887,605.
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- Kline, Jack, and Richmond. 2,901,707.
- Mercer, William R. 2,871,346.
- Misek, Victor A. 2,870,415.
- Sanders, Royden C., Jr. 2,876,390.
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- Sommers, Donald J., and Wilson. 2,877,429.
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- Tally, Sidney K. 2,887,558.
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- Walker, Clifford R. 2,918,836.
- Wilson, William J. 2,896,177.
- Sanders, G. G.: *See*—  
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- Sanders, Grady H., to Graniteville Co. Pile cutting machine. 2,895,209, 7-21-59, Cl. 26-10.
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- Sanders, Herbert L., E. A. Knaggs, and M. L. Nussbaum. Emulsifiers and toxicants containing the same. 2,872,368, 2-3-59, Cl. 167-42.
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- Sanders, Ralph G.: *See*—  
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- Sanders, Richard F.: *See*—  
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- Sanders, W. H. (Electronics), Ltd.: *See*—  
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- Sanders, Wilbur E., Sr.: *See*—  
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- Sanders, William G., to The Supaslot Angle Co. (G. B.) Ltd. Constructional element. 2,906,380, 9-29-59, Cl. 189—34.
- Sanders, William J.: *See*—  
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- Sanderson, Billy B. Door-actuated, seat-restraining lock for automobiles. 2,908,530, 10-13-59, Cl. 296—65.
- Sanderson, Kenneth E., and R. E. Milligan, to Draper Corp. Loom control means. 2,884,016, 4-28-59, Cl. 139—336.
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- Sandhage, Ellsworth R., and G. S. Bott, to American Cyanamid Co. Powder filling machine for bottles. 2,907,357, 10-6-59, Cl. 141—59.
- Sandiford, Denis J. H.: *See*—  
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- Sandin, Jerome, and E. O. Shepard, to Westinghouse Electric Corp. Time delay devices for circuit interrupters. 2,875,382, 2-24-59, Cl. 317—36.
- Sandison, Alexander G., to The William Kennedy & Sons Ltd. Device for screening pulp. 2,899,069, 8-11-59, Cl. 210—405.
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- Sandoz A.G.: *See*—  
Jucker, Ernst, Ebnöther, and Lindenmann. 2,903,460.  
Jucker, Ernst, Rissi, Suess, Vogel, and Wolff. 2,883,389.  
Kappeler, Markus, and Frisch. 2,904,543.  
Merian, Ernest, and Nicolaus. 2,909,561.  
Merian, Ernest, Nicolaus, and Wehrli. 2,870,137.  
Ruckstuhl, Hans. 2,868,776.  
Ruckstuhl, Hans, and Wehrli. 2,909,515.  
Schoenauer, Wolfgang. 2,870,172.  
Steinemann, Willy. 2,873,267.  
Steinemann, Willy. 2,873,268.  
Steinemann, Willy. 2,879,265.  
Steinemann, Willy. 2,895,951.  
Stoll, Arthur, Bourquin, and Renz. 2,902,491.
- Sandoz, Inc.: *See*—  
Stiller, Frank P. 2,888,388.
- Sandoz Ltd.: *See*—  
Hagen, Joseph. 2,908,124.  
Jucker, Ernst, Ebnöther, and Lindenmann. 2,904,549.  
Jucker, Ernst, Rissi, Suess, Vogel, and Wolff. 2,871,241.  
Steinemann, Willy. 2,895,951.  
Steinemann, Willy. 2,901,473.  
Stoll, Arthur, Bourquin, and Renz. 2,902,491.  
Stoll, Arthur, Renz, and Bourquin. 2,902,486.
- Sandoz Trust: *See*—  
Egli, Hermann. 2,874,021.  
Guenthard, Jacques, and Peter. 2,894,800.  
Locher, Arthur, and Dürst. 2,884,331.  
Locher, Arthur, and Dürst. 2,884,332.  
Merian, Ernst. 2,873,270.  
Merian, Ernest. 2,879,269.  
Merian, Ernest. 2,891,942.  
Senn, Otto. 2,870,135.  
Stoll, Arthur, Jucker, and Lindenmann. 2,883,387.  
Thummel, Ludwig, and Aeberhardt. 2,869,968.  
Wiedemann, Erwin. 2,899,619.
- Sandrock, Harold, to Times Facsimile Corp. Web control for facsimile recorder. 2,884,299, 4-28-59, Cl. 346—136.
- Sands, Charles E.: *See*—  
Kinney, David C., and Sands. 2,877,996.
- Sands, Eugene A.: *See*—  
Brown, Edgar A., and Sands. 2,885,148.
- Sands, Hillard J., to Harvard Mfg. Co. Bedframe and center support therefor. 2,882,535, 4-21-59, Cl. 5—305.
- Sands, Hillard J., to Harvard Mfg. Co. Bedframe clamp. 2,883,222, 4-21-59, Cl. 287—103.
- Sands, Hillard J., to Harvard Mfg. Co. Bedframe center support. 2,900,647, 8-25-59, Cl. 5—202.
- Sands, Peter W., to Seeger Refrigerator Co. Hydraulic bulge fixture. 2,903,987, 9-15-59, Cl. 113—44.
- Sands, Seymour, to E. I. du Pont de Nemours and Co. Process and product. 2,869,435, 1-20-59, Cl. 92—3.
- Sands, William F., to Radio Corp. of America. Receiver tuned by inductors with tracking by initial positionment of coils on cores. 2,882,392, 4-14-59, Cl. 250—20.
- Sandt, Bernd W., and P. J. Wayne, to E. I. du Pont de Nemours and Co. Bonding polytetrafluoroethylene resins. 2,914,438, 11-24-59, Cl. 154—139.
- Sandvig, Robert L., to Thor Power Tool Co. Drill bit. 2,890,021, 6-9-59, Cl. 255—64.
- Sandvikens Jernverks Aktiebolag: *See*—  
Almén, Bengt S. O. 2,899,788.  
Almén, Bengt S. O. 2,911,707.  
Bergstrom, Eskil N. 2,884,700.  
Haglund, Didrik W. 2,888,247.  
Haglund, Didrik W. 2,889,138.  
Hjälsten, John A. 2,884,227.  
Ohlsson, Fall J. O. W. 2,899,739.  
Rossander, Bror L. E. 2,875,110.
- Sandvold, Knut, to Elektrokemisk A-S. Arrangement for electric smelting furnaces. 2,871,278, 1-27-59, Cl. 13—17.
- Sandy Hill Iron & Brass Works, The: *See*—  
Fusco, James J. 2,876,684.
- Sandys, Peter A. Screwdrivers. 2,908,304, 10-13-59, Cl. 145—50.
- Sandza, Joseph G.: *See*—  
Fried, John H., and Sandza. 2,910,409.
- Sanford, Arthur C. Hanger strap. 2,911,690, 11-10-59, Cl. 20—94.
- Sanford, Charles L. Building blocks. 2,888,820, 6-2-59, Cl. 72—44.
- Sanford, Emil, to Allen B. Du Mont Laboratories, Inc. Cathode ray sweep correction system. 2,869,026, 1-13-59, Cl. 315—24.
- Sanford, Emil, to Allen B. Du Mont Laboratories, Inc. Cathode-ray tube. 2,879,435, 3-24-59, Cl. 315—1.
- Sanford, David P.: *See*—  
Huck, William F., Albrecht, and Sanford. 2,911,079.
- Sanford Process Co., Inc.: *See*—  
Franklin, John B. 2,897,125.  
Franklin, John B. 2,905,600.
- Sanford, Ray S.: *See*—  
Sedergren, Erling D. 2,880,823.
- Sanford, Robert A.: *See*—  
Patinkin, Seymour H., and Sanford. 2,867,674.  
Patinkin, Seymour H., and Sanford. 2,915,568.
- Sanford, Robert A., to Sinclair Refining Co. Process for producing durene. 2,874,200, 2-17-59, Cl. 260—674.
- Sanford, Robert A., and S. M. Kovach, to Sinclair Refining Co. Process for preparing indans. 2,916,529, 12-8-59, Cl. 260—668.
- Sanford, Roy S., to The Autovre Co. Garment hanger bracket. 2,888,224, 5-26-59, Cl. 248—214.
- Sanford, Roy S., to Roy S. Sanford & Co. Carton sealing. 2,916,860, 12-15-59, Cl. 53—38.
- Sanford, Roy S., and J. O. Eames, to said Sanford, W. A. Eaton, E. D. Sedergren, said Eames, and R. H. Casler. Method and means for cooling friction elements. 2,889,897, 6-9-59, Cl. 188—264.
- Sanford, Roy S., and G. T. Howe, to Roy S. Sanford & Co. Process for producing gelatin relief images on printing plates. 2,892,711, 6-30-59, Cl. 96—35.
- Sanford, Roy S., and J. O. Eames, to The Autovre Co. Garment hanger support. 2,902,172, 9-1-59, Cl. 211—100.
- Sanford, Roy S., & Co.: *See*—  
Sanford, Roy S., and Howe. 2,892,711.  
Sanford, Roy S. 2,916,860.



- Sanford, Russell T. Hospital bed. 2,870,460, 1-27-59, Cl. 5-63.
- Sangamo Electric Co.: *See*—  
Geiger, Herman R., Jr. 2,883,840.
- Sanger, Herbert H. Portable carrying case or envelope. 2,886,085, 5-12-59, Cl. 150-1.6.
- Sanger, Richard B., to Allen B. Du Mont Laboratories, Inc. Alarm system. 2,870,325, 1-20-59, Cl. 250-2.
- Sangster, Arlon G., to Sundstrand Machine Tool Co. Apparatus for automatically relatively positioning workholders, tools and the like. 2,876,650, 3-10-59, Cl. 74-365.
- Sangster, Raymond C., to Hughes Aircraft Co. Method of producing semiconductor crystal bodies. 2,895,858, 7-21-59, Cl. 148-1.5.
- Sanicom Co., Inc.: *See*—  
Arvintz, Abraham A. and R. A., and Arvins. 2,877,724.
- Sankyo Co., Ltd.: *See*—  
Imai, Kaneo, Ikeda, Tanaka, Sugawara. 2,868,839.  
Sato, Yoshinobu, and Mishima. 2,894,953.
- Sanner, George E., to Westinghouse Electric Corp. Combination mixer-duplexer. 2,909,655, 10-20-59, Cl. 250-20.
- Sanner, Weldon E., and R. W. Decker. Ditch digger. 2,911,735, 11-10-59, Cl. 37-98.
- Sannes, Earl A., to Duwamish Mfg. Co. Roofing mop and method of making the same. 2,905,958, 9-29-59, Cl. 15-229.
- Sanni, Dominic A., to General Packets, Inc. Shaker dispenser packet. 2,918,168, 12-22-59, Cl. 206-56.
- Sano, Julian H., to Colvin Laboratories, Inc. Pressure transducer nonresponsive to vibrations. 2,892,170, 6-23-59, Cl. 338-42.
- Sans, Salvatore, and L. Weiss, to Saw Mill River Industries, Inc. Garment racks. 2,896,789, 7-28-59, Cl. 211-37.
- Sansom, Raymond E.: *See*—  
Van Valkenburg, Howard E., and Sansom. 2,883,861.
- Sansum, Robert D.: *See*—  
Parkes, Stanley, and Sansum. 2,883,926.  
Parkes, Stanley, Merriman, and Sansum. 2,880,667.
- Santa Anita Mfg. Corp.: *See*—  
Vogel, William K. and M. C. 2,885,967.
- Santamaria, Salvatore, and A. R. Topfer, to Philco Corp. Mechanical apparatus. 2,872,645, 2-3-59, Cl. 324-158.
- Santangelo, Clifford L. Firearm locking device. 2,887,807, 5-26-59, Cl. 42-1.
- Sant Angelo, Michael A., to Sperry Rand Corp. Phase comparison servomechanism and rate-taking apparatus therefor. 2,907,939, 10-6-59, Cl. 313-30.
- Santay Corp.: *See*—  
Polleck, Vincent A., and Wright. 2,902,924.
- Santilli, Alcide: *See*—  
Corwin, Jerome, Roseman, Santilli, and Stein. 2,907,997.
- Santmyer, Philip H.: *See*—  
Stone, Bobbie D., Seifter, and Santmyer. 2,912,793.
- Santora, Arthur C., to E. I. du Pont de Nemours and Co. Process for sealing porous formations. 2,889,883, 6-9-59, Cl. 166-33.
- Santos, John R. L., to William E. Hooper and Sons Co. Dryer felt connection. 2,873,494, 2-17-59, Cl. 24-33.
- Santuci, Robert L., Sr. Cereal canister. 2,906,439, 9-29-59, Cl. 222-183.
- Sanymetal Products Co., Inc.: *See*—  
Benham, Kent W. 2,876,873.  
Benham, Kent W. 2,876,874.  
Benham, Kent W. 2,878,531.
- Sanzenbacher, Charles W., and J. Huebler, to Surface Combustion Corp. Gas generator. 2,897,158, 7-28-59, Cl. 252-372.
- Saper, Earl P. Portable immersion electric liquid heater. 2,888,547, 5-26-59, Cl. 219-41.
- Sapers, Ira: *See*—  
Cook, Alton A., and Sapers. 2,902,472.
- Saperstein, Henry G.: *See*—  
Goldfarb, Adolph E., and Saperstein. 2,873,884.
- Saporito, Frederick A.: *See*—  
Seltzer, Edward, and Saporito. 2,902,368.
- Sapper, David I., to E. I. du Pont de Nemours and Co. Heat-sealable polyethylene terephthalate film and process. 2,898,237, 8-4-59, Cl. 117-138.8.
- Sapper, David I., to E. I. du Pont de Nemours and Co. Weatherable film and process for producing same. 2,917,402, 12-15-59, Cl. 117-33.3.
- Sarabia Mandl, Enrique. Foldable seat, chiefly a baby-car. 2,867,448, 1-6-59, Cl. 280-36.
- Sarabia, Oscar A., to Monsanto Chemical Co. Polymerization inhibitor. 2,915,138, 12-1-59, Cl. 183-115.
- Sarabia, Oscar A., to Monsanto Chemical Co. Polymerization inhibitor. 2,915,139, 12-1-59, Cl. 183-115.
- Sarabia, Oscar A., to Monsanto Chemical Co. Polymerization inhibitor. 2,915,140, 12-1-59, Cl. 183-115.
- Sarabia, Oscar A., to Monsanto Chemical Co. Polymerization inhibitor. 2,915,141, 12-1-59, Cl. 183-115.
- Sarabia, Oscar A., to Monsanto Chemical Co. Polymerization inhibitor. 2,915,142, 12-1-59, Cl. 183-115.
- Sarah, Thomas F., to The Enterprise Mfg. Co. Strand end attacher for a spinning reel. 2,870,977, 1-27-59, Cl. 242-125.2.
- Sarah, Thomas F., to The Enterprise Mfg. Co. Enclosed spinning reel. 2,903,201, 9-8-59, Cl. 242-84.2.
- Sarah, Thomas F., to The Enterprise Mfg. Co. Closed face spinning reel. 2,903,202, 9-8-59, Cl. 242-84.2.
- Sarah, Thomas F., to The Enterprise Mfg. Co. Push button type enclosed spinning reel. 2,911,165, 11-3-59, Cl. 242-84.2.
- Saraban, Bernard L.: *See*—  
Ross, Harold D., Saraban, Astrahan, Housman, and Thomas. 2,914,248.
- Saran Yarns Co.: *The: See*—  
Genovese, Anthony L., Sr., Batchelor, Belli, Garlock, and A. L. Genovese, Jr. 2,888,215.
- Saranac Machine Co.: *See*—  
Donnell, Frederick L. 2,884,274.
- Sard, Eugene W.: *See*—  
Close, Richard N., Kaspen, Sard, and White. 2,917,737.
- Särdaal, Per W. F. Foot rasps for removing of cellostites. 2,898,914, 8-11-59, Cl. 128-304.
- Sardella, John. Wheel rims for tires of trucks and the like. 2,879,106, 3-24-59, Cl. 301-31.
- Sardella, John J., to Raytheon Mfg. Co. Transistor packages. 2,888,736, 6-2-59, Cl. 29-25.3.
- Sardeson, Robert: *See*—  
Dye, Glen M., Sardeson, and Winter. 2,902,914.  
Kallenberg, Karl J., and Sardeson. 2,872,585.
- Sardinas, Joseph L., and G. M. Shull, to Chas. Pizer & Co., Inc. Oxygenation of steroids in the 11 $\beta$  position by spondylocladium. 2,876,170, 3-3-59, Cl. 195-51.
- Sardinas, Joseph L., J. B. Routien, and G. M. Shull, to Chas. Pizer & Co., Inc. Oxygenation of steroids in the 11 $\beta$  position by Chaetomella. 2,882,205, 4-14-59, Cl. 195-51.
- Sardo, William H., Jr.: *See*—  
De Pew, Thomas N., Sardo, and Koenig. 2,873,935.
- Sare, Carl R., to The W. W. Sly Mfg. Co. Dust collector. 2,867,289, 1-6-59, Cl. 183-61.
- Sarett, David P.: *See*—  
Bardash, Manuel L., and Sarett. 2,917,710.
- Sarett, Lewis H.: *See*—  
Arth, Glen E., and Sarett. 2,868,805.  
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Beyler, Roger E., and Sarett. 2,888,457.
- Sarett, Lewis H., to Merck & Co., Inc. Chemical compounds and processes for preparing the same. 2,884,419, 4-28-59, Cl. 260-239.55.
- Sarett, Lewis H., to Merck & Co., Inc.  $\Delta^4$ -3,20-diketo-11-oxygenated-17 $\alpha$ -hydroxypregnadienes and 9-fluoro derivatives thereof. 2,912,446, 11-10-59, Cl. 260-397.45.
- Sarett, Lewis H., and W. F. Johns, to Merck & Co., Inc. Sulfonic acid esters of 1-(2-hydroxyethyl)-2-methylal dodecahydrophenanthrene compounds and processes of preparing the same. 2,891,967, 6-23-59, Cl. 260-340.9.
- Sarett, Lewis H., and W. F. Johns, to Merck & Co., Inc. 2,4b-dimethyl-1-(2-hydroxyethyl)-2-methylal dodecahydrophenanthrene compounds and processes of preparing the same. 2,893,999, 7-7-59, Cl. 260-340.9.
- Sarett, Lewis H., G. I. Poos, and W. F. Johns, to Merck & Co., Inc. 2,4b-dimethyl-1-acetaldehyde-2-( $\beta$ -keto-propyl)-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydrophenanthrene-4,7-dione and methods of preparing the same. 2,894,000, 7-7-59, Cl. 260-340.9.
- Sarett, Lewis H., G. I. Poos, and W. F. Johns, to Merck & Co., Inc. 2,4b-dimethyl-1-acetaldehyde-2-( $\beta$ , $\alpha$ -dihydroxyisobutyl)-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydrophenanthrene-4,7-dione and methods of preparing the same. 2,894,001, 7-7-59, Cl. 260-340.9.
- Sarett, Lewis H., G. I. Poos, and W. F. Johns, to Merck & Co., Inc. 2,4b-dimethyl-1-acetaldehyde-2-methylal-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydrophenanthrene-4,7-dione and methods of preparing the same. 2,894,002, 7-7-59, Cl. 260-340.9.
- Sarett, Lewis H., J. Constantin, and G. E. Arth, to Merck & Co., Inc. 6 $\beta$ -hydroxy- $\Delta^4$ -pregnenes. 2,905,678, 9-22-59, Cl. 260-397.45.
- Sarett, Lewis H., and W. F. Johns, to Merck & Co., Inc. Preparation of 11-oxygenated  $\Delta^4$ -3-ethylenedioxy-20-keto-17-isopregnenes. 2,909,519, 10-20-59, Cl. 260-239.55.
- Sarge, Theodore W.: *See*—  
Abernethy, Nelson W., Diss, and Sarge. 2,872,424.
- Sargeant, Homer I., to Hughes Aircraft Co. Shock absorbing structure. 2,890,766, 6-16-59, Cl. 188-1.
- Sargeant, Walter E., to General Motors Corp. Power supply means. 2,905,832, 9-22-59, Cl. 307-72.
- Sargeant, Walter E., to General Motors Corp. Timing control circuit. 2,905,904, 9-22-59, Cl. 331-35.
- Sargent & Co.: *See*—  
Wardwell, George W., Jr. 2,890,074.
- Sargent, Donald E., to General Electric Co. Catalysts. 2,892,801, 6-30-59, Cl. 252-474.
- Sargent, E. H., & Co.: *See*—  
Karr, Ralph J. 2,898,200.  
Malmstadt, Howard V. 2,878,106.
- Sargent, Edmund B., to General Telephone Laboratories, Inc. Mold for molding telephone handsets. 2,874,414, 2-24-59, Cl. 18-42.
- Sargent Engineering Corp.: *See*—  
Valenti, Peter. 2,907,223.
- Sargent & Greenleaf, Inc.: *See*—  
Shmorhun, John G. 2,884,778.
- Sargent, Jack. Volume flowmeter. 2,892,346, 6-30-59, Cl. 73-194.



- Sargent, Neil A., and W. M. Davis, to Monsanto Chemical Co. Method for producing aerogels. 2,868,280, 1-13-59, Cl. 159-47.
- Saris, Aris P.: *See*—  
Hatch, Howard E. 2,873,256.
- Sark, Ward T., to Haggard & Marcussen Co. Adjustable headboard clamping device. 2,907,054, 10-6-59, Cl. 5-298.
- Sarka, Albert J., to Wean Equipment Corp. Apparatus for treating strip and the like. 2,873,803, 2-17-59, Cl. 164-89.
- Sarkar, Asim K.: *See*—  
Adams, Dennis A. W., and Sarkar. 2,875,106.
- Sarkes Tarzian, Inc.: *See*—  
Eannarino, George. 2,896,305.  
Krepps, James E., Jr. 2,871,358.  
Meadows, Stanley R. 2,909,934.  
Roberts, William B. 2,873,414.
- Sarko, Anatole: *See*—  
La Rocca, Rudolph J., and Sarko. 2,917,746.
- Sarles, George A. Helmet radios including a transistor amplifier. 2,904,645, 9-15-59, Cl. 179-171.
- Sarnecki, Wilhelm, and H. Pommer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of quaternary phosphonium halides. 2,905,717, 9-22-59, Cl. 260-606.5.
- Sarno, Dante H.: *See*—  
Snider, Warren L., Sarno, and Liedholm. 2,895,897.
- Sarno, Dante H., to Shell Development Co. Process for upgrading of straight run gasoline by a combination of catalytic reforming and isomerization. 2,913,393, 11-17-59, Cl. 208-79.
- Sarno, Frank, 10% to J. F. Falco. Shoe scraper. 2,904,127, 9-15-59, Cl. 182-107.
- Sarong, Inc.: *See*—  
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Lax, Leona. 2,875,765.
- Sarracino, Marcello, to Pirelli Societa per Azioni. Tape-stretching control device for electric cable wrapping machines. 2,875,570, 3-3-59, Cl. 57-13.
- Sarrett, Homer J., Jr.: *See*—  
Benedict, Bruce C., and Sarrett. 2,879,219.
- Sarring, Ernest J.: *See*—  
Kile, Otho, and Sarring. 2,896,537.
- Sarro, Silvio. Toilet tissue holding bracket. 2,879,012, 3-24-59, Cl. 242-55.2.
- Sarson, Alan E.: *See*—  
Jesty, Leslie C., and Sarson. 2,892,883.
- Sarson, Alan E., to Marconi's Wireless Telegraph Co. Ltd. Television, tele-cinematograph and like apparatus. 2,902,540, 9-1-59, Cl. 178-6.8.
- Sarto, Jorma O., to Chrysler Corp. Multiple stage choke control. 2,901,229, 8-25-59, Cl. 261-39.
- Sartor, Raymond W., to Dresser Operations, Inc. Rock bit. 2,885,185, 5-5-59, Cl. 253-313.
- Sartori, Mario F., to E. I. du Pont de Nemours and Co. Anthraquinone vat dyes. 2,893,998, 7-7-59, Cl. 260-316.
- Sarver, Carter L. Tractor hitch assembly. 2,879,080, 3-24-59, 280-478.
- Sasaki, Noburo. Apparatus for the recovery of fine carbonic fuel particles from slurry by ultrasonic waves. 2,907,455, 10-6-59, Cl. 209-5.
- Sasena, John J.: *See*—  
Van Niel, Clarence R., and Sasena. 2,916,115.
- Sass, Earl J., and A. J. Torre, to Radio Corp. of America. Radio communications systems. 2,873,309, 2-10-59, Cl. 178-5.4.
- Sass, Karl: *See*—  
Oden, Hoeckley, Epinatjeff, Sass, and Hehr. 2,919,310.
- Sass, Karl, to International Standard Electric Corp. Arrangement for assessing charges in telephonic P.B.X. systems. 2,887,537, 5-19-59, Cl. 179-7.1.
- Sass, Samuel: *See*—  
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- Sassaman, John R.: *See*—  
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- Sassaman, Paul H.: *See*—  
Kerstetter, Donald R., and Sassaman. 2,889,483.
- Sassaman, Walter R.: *See*—  
Teiser, Sidney, and Sassaman. 2,897,080.
- Sasse, Klaus, R. Wegler, and F. Grewe, to Farbenfabriken Bayer Akt. Thio- and dithio-carboxylic acid esters and a process for their manufacture. 2,872,450, 2-3-59, Cl. 260-281.
- Sasse, Klaus, R. Wegler, and F. Grewe, to Farbenfabriken Bayer Aktiengesellschaft. Thiocarbonic acid esters and their production. 2,904,553, 9-15-59, Cl. 260-326.
- Sasse, Raymond M. Driving glove holder. 2,870,502, 1-27-59, Cl. 24-17.
- Sasserson, Curtis F., to Pennsylvania Furnace and Iron Co. Light unit for vehicles. 2,883,520, 4-21-59, Cl. 240-57.
- Sasso, John: *See*—  
Sheets, Chester R., and Sasso. 2,909,890.
- Sassoon, Judah R.: *See*—  
Boker, Samuel J., Lazarus, and Sassoon. 2,896,533.
- Satchwell, Leonard. Resistance grids. 2,870,308, 1-20-59, Cl. 201-69.
- Sato, Toshio: *See*—  
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- Sato, Yoshinobu, and H. Mishima, to Sankyo Co., Ltd. Process for the production of pyridine derivative. 2,894,953, 7-14-59, Cl. 260-295.5.
- Satre, Bernt O.: *See*—  
Rice, Lon C., Satre, and Snyder. 2,883,517.
- Satrana, Daniel, and G. Rak, to Vitro Corp. of America. Method of coating. 2,913,385, 11-17-59, Cl. 204-181.
- Sattler, Emil, and W. Oettinger. Process for purifying crude benzene. 2,910,517, 10-27-59, Cl. 260-674.
- Sattler, Helmut: *See*—  
Kurzke, Herbert, and Sattler. 2,917,779.
- Sattler, Karl C. Sounding toy. 2,898,704, 8-11-59, Cl. 46-178.
- Sattler, Robert E., to Phillips Petroleum Co. Automatic purging of liquid methane tanks. 2,916,889, 12-15-59, Cl. 62-55.
- Sattley Co.: *See*—  
Merrell, Allen W. 2,898,721.
- Sattmann, Erhard, and W. Schafer. Pencil sharpening machine with a removable chip container. 2,896,578, 7-28-59, Cl. 120-96.
- Sauber, Charles J. Method of renewing the female member of a snap fastener. 2,906,014, 9-29-59, Cl. 29-401.
- Säuberlich, Willy, and A. Hieckther, to Maschinenfabrik Gobel G. m. b. H. Drive mechanism for proofing press. 2,873,672, 2-17-59, Cl. 101-153.
- Saubestre, Edward B.: *See*—  
Arnaut, Arnold D., and Saubestre. 2,907,702.  
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- Saubestre, Edward B., to Sylvania Electric Products Inc. Copper sensitizers. 2,872,359, 2-3-59, Cl. 117-213.
- Saubestre, Edward B., to Sylvania Electric Products Inc. Solderable zinc alloy coating. 2,884,350, 4-28-59, Cl. 148-614.
- Saubestre, Edward B., to Sylvania Electric Products Inc. Bright plating solution and method. 2,900,314, 8-18-59, Cl. 204-43.
- Saubestre, Edward B., and A. D. Arnaut, to Sylvania Electric Products Inc. Electroplating of zinc-tin alloys. 2,898,274, 8-4-59, Cl. 204-43.
- Saubestre, Edward B., and E. P. Bulan, to Sylvania Electric Products Inc. Addition materials for improving plating speeds. 2,900,313, 8-18-59, Cl. 204-43.
- Saucy, Gabriel: *See*—  
Montavon, Marc, and Saucy. 2,902,515.
- Sauer, Edgar, and E. Aschbacher, to Zeiss Ikon A. G. Stuttgart. Photoelectric exposure meters. 2,889,740, 6-9-59, Cl. 88-23.
- Sauer, Edgar, and W. Zink, to Zeiss Ikon A.G. Single lens mirror reflex cameras. 2,891,454, 6-23-59, Cl. 95-42.
- Sauer, Fred P., Jr. Oar supports. 2,885,696, 5-12-59, Cl. 9-1.
- Sauer, Frederick: *See*—  
De Zeeuw, John R., and Sauer. 2,910,360.
- Sauer, Hans, to Comar Electric Co. Strap type instrument mounting. 2,869,098, 1-13-59, Cl. 339-75.
- Sauer, Hans, to Comar Electric Co. Electromagnetic relay. 2,882,368, 4-14-59, Cl. 200-87.
- Sauer, Hans, to Comar Electric Co. Electromagnetic relay. 2,882,460, 4-14-59, Cl. 317-197.
- Sauer, Hans, to Comar Electric Co. Electromagnetic relay with spring loaded armature. 2,896,132, 7-21-59, Cl. 317-199.
- Sauer, Herman C., to United States Rubber Co. Apparatus for molding and curing belts. 2,867,845, 1-13-59, Cl. 18-17.
- Sauer, Herman C., to United States Rubber Co. Apparatus for molding V-belts. 2,883,701, 4-28-59, Cl. 18-6.
- Sauer, James F., to Barber-Greene Co. Bituminous batch plant and actuating system therefor. 2,873,955, 2-17-59, Cl. 259-154.
- Sauer, J. P., & Sohn, Gesellschaft mit beschränkter Haftung: *See*—  
Diesfeld, Franz. 2,916,944.
- Sauer, Jack. Vertically movable doll. 2,888,776, 6-2-59, Cl. 46-61.
- Sauer, James F.: *See*—  
Barber, Harry A., and Sauer. 2,893,600.  
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- Sauer, Liselotte. Process for making a sponge-like insulating material from textile scraps and product resulting therefrom. 2,884,385, 4-28-59, Cl. 260-2.5.
- Sauer, Louis E., to Westinghouse Electric Corp. Electrostatic liquid cleaners. Re. 24,751, 12-15-59, Cl. 204-305.
- Sauer, Louis E., to Westinghouse Electric Corp. Electrostatic liquid cleaners. 2,876,193, 3-3-59, Cl. 204-305.
- Sauer, Wilbur C. Blade mounting means for rotary disc type mower. 2,875,569, 3-3-59, Cl. 56-295.
- Sauer, Willy: *See*—  
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- Sauerman, Ernst C., to Gaw-O'Hara Envelope Co. Combination envelope. 2,872,098, 2-3-59, Cl. 229-72.
- Sauerman, Ernst C. Envelope printing machine and multi-colored printing attachment therefor. 2,896,536, 7-28-59, Cl. 101-175.
- Sauerman, Ernst C., to Gaw-O'Hara Envelope Co. Inking mechanism for printing machines. 2,896,539, 7-28-59, Cl. 101-366.



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 Egli, Hermann. 2,874,021.  
 Guenthard, Jacques, and Peter. 2,894,800.  
 Locher, Arthur, and Dürst. 2,884,331.  
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 Merian, Ernst. 2,873,270.  
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 Senn, Otto. 2,870,135.  
 Stoll, Arthur, Jucker, and Lindenmann. 2,883,387.  
 Thummel, Ludwig, and Aeberhardt. 2,869,968.  
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- Saul, George A.: *See*—  
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 Baker, Joseph W., and Saul. 2,906,661.  
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- Saul, George A., to Monsanto Chemical Co. Haloalkenyl phosphorothioates. 2,892,751, 6-30-59, Cl. 167-22.
- Saul, Samuel, Jr. Storage rack frame. 2,916,153, 12-8-59, Cl. 211-49.
- Saul, Tom W. Railroad tie plate shim. 2,905,390, 9-22-59, Cl. 238-309.
- Saulnier, Theodore A., Jr., to Radio Corp. of America. Method of applying films to cathode ray tube screens. 2,903,377, 9-8-59, Cl. 117-33.5.
- Sauls, Thomas W., to Tennessee Corp. Fungicidal composition. 2,897,114, 7-28-59, Cl. 167-42.
- Saunders, Alfred P., to Wildt and Co. Ltd. Circular seamless hose knitting machine. 2,879,652, 3-31-59, Cl. 66-14.
- Saunders, Alton. Soil aerating implement. 2,910,127, 10-27-59, Cl. 172-21.
- Saunders, Charles. Boat construction. 2,896,228, 7-28-59, Cl. 9-6.
- Saunders, Charles E., to United States of America, Navy. Synthetic lubricant. 2,894,909, 7-14-59, Cl. 252-34.7.
- Saunders, Charles L.: *See*—  
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- Saunders, Clarence L., to Sylvania Electric Products Inc. Method for assembling travelling wave tubes. 2,869,217, 1-20-59, Cl. 29-25.14.
- Saunders, Edward B. Slip-cover. 2,904,104, 9-15-59, Cl. 155-182.
- Saunders, Harry C.: *See*—  
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- Saunders, John C., and J. Lazarus, to Ciba Pharmaceutical Products Inc. Therapeutic compositions and method for treating Parkinsonism. 2,903,396, 9-8-59, Cl. 167-65.
- Saunders, Marvin R.: *See*—  
 Witter, Melvin L. 2,884,000.
- Saunders, Orson V., to General Motors Corp. Door latch. 2,869,952, 1-20-59, Cl. 312-214.
- Saunders, Orson V., to General Motors Corp. Refrigerating apparatus. 2,894,379, 7-14-59, Cl. 62-377.
- Saunders, Orson V., to General Motors Corp. Refrigerating apparatus. 2,909,910, 10-27-59, Cl. 62-275.
- Saunders, Orson V., and C. F. Petkewitz, to General Motors Corp. Refrigerating apparatus. 2,894,378, 7-14-59, Cl. 62-337.
- Saunders, Percy A., 50% to W. R. Walker. Baled hay loading and unloading attachment. 2,883,030, 4-21-59, Cl. 198-7.
- Saunders, Rhoderick K.: *See*—  
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- Saunders, Seymour G., and J. A. Holcomb; said Saunders assor. to Stribuload Inc., and said Holcomb assor. to Wolverine Porcelain Enameling Co. Structural panel construction. 2,911,076, 11-3-59, Cl. 189-34.
- Saunders, Henry D., to United States of America, Navy. Water discrimination fuze. 2,900,912, 8-25-59, Cl. 102-76.
- Saur, Roger L.: *See*—  
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- Saurenman, Dean F., and M. P. Lebourg, to Schlumberger Well Surveying Corp. Borehole apparatus. 2,876,413, 3-3-59, Cl. 324-10.
- Saurer, Adolph, Ltd.: *See*—  
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- Saurer, Curt, to U. S. Universal Joints Co. Universal coupling. 2,876,635, 3-10-59, Cl. 64-14.
- Sause, Robert, and W. E. Stephen, to Imperial Chemical Industries Ltd. Treatment of cellulosic materials. 2,892,674, 6-30-59, Cl. 8-116.2.
- Sausser, Clara W. M.: *See*—  
 Sausser, John M. 2,911,498.
- Sausser, John M., deceased, by C. W. M. Sausser, administratrix, to Consolidated Electronics Industries Corp. Co-axial relay. 2,911,498, 11-3-59, Cl. 200-104.
- Saussol, Fernand, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Method of preparing activated alumina from commercial alpha alumina trihydrate. 2,915,365, 12-1-59, Cl. 23-142.
- Sauter, Bobbie S., to The Deutsch Fastener Corp. Method of forming expandable end blind rivets. 2,887,694, 5-26-59, Cl. 10-27.
- Sauter, John D., to The Clark Controller Co. Loop control with phototubes. 2,897,370, 7-28-59, Cl. 250-219.
- Sauter, John D., to The Clark Controller Co. Strip loop control systems. 2,907,565, 10-6-59, Cl. 271-2.2.
- Sauter, John D., and W. Few, to The Clark Controller Co. Constant condition regulating system. 2,884,580, 4-28-59, Cl. 318-283.
- Sauter, Karl, to Luwa S.A. Spray drying apparatus. 2,889,873, 6-9-59, Cl. 159-4.
- Sauteron, Jean: *See*—  
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- Sautier & Jaeger: *See*—  
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- Sauvage, Joseph M. J. Drafting arrangement for textile fibres. 2,895,178, 7-21-59, Cl. 19-134.
- Sauvage, Joseph M. J. Comb for textile machine. 2,901,778, 9-1-59, Cl. 19-29.
- Sauvago, Willard L. Cartridge holder. 2,889,974, 6-9-59, Cl. 224-20.
- Savage, Byron B. Drive mechanism. 2,902,128, 9-1-59, Cl. 192-104.
- Savage, Eugene M. Wire solder feeding mechanism. 2,871,333, 1-27-59, Cl. 219-27.
- Savage, Guy, Jr.: *See*—  
 Gordon, Garland R., and Savage. 2,873,535.
- Savage, James L.: *See*—  
 Grindle, Eugene L., and Savage. 2,900,817.
- Savage, John, and B. O. Smith to The British Iron and Steel Research Association. Casting of metals. 2,889,596, 6-9-59, Cl. 22-57.2.
- Savage, Kenneth W. and L. H., to The Lithibar Co. Impulse valve. 2,894,713, 7-14-59, Cl. 251-21.
- Savage, Leonard H.: *See*—  
 Savage, Kenneth W. and L. H. 2,894,713.
- Savage, Newton K.: *See*—  
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- Savage, Richard M., to General Electric Co. Process for the preparation of flame-retardant silicone rubber and composition thereof. 2,891,033, 6-16-59, Cl. 260-37.
- Savage, Robert H., and R. Schuit, to Knoll Associates, Inc. Supporting structure. 2,900,014, 8-18-59, Cl. 155-196.
- Savard, Edwin E. Guide for armature winding. 2,895,690, 7-21-59, Cl. 242-13.
- Savarieau, Henri, to Société Anonyme R. Alkan & Cie. Devices for fastening and ejecting auxiliary apparatus on aircrafts. 2,888,294, 5-26-59, Cl. 294-83.
- Savet, Paul H.: *See*—  
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- Savet, Paul H., to American Bosch Arms Corp. Triangle computer. 2,879,941, 3-31-59, Cl. 235-186.
- Savich, Alfred L.: *See*—  
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- Savidge, Roland E., to General Electric Co. Alloy and articles made therefrom. 2,888,345, 5-26-59, Cl. 75-128.
- Savignac, Alphonse L. Pie crust baker. 2,890,317, 6-9-59, Cl. 219-19.
- Saville, Arthur K., to E. I. du Pont de Nemours and Co. Vat dye printing. 2,907,624, 10-6-59, Cl. 8-70.
- Saville Enterprises, Inc.: *See*—  
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- Saville, Eric J., ½ to Raymond S. Hunt, Jr. Relief valve. 2,917,072, 12-15-59, Cl. 137-469.
- Saville, Robert W.: *See*—  
 Antalek, John J., and Saville. 2,914,276.
- Savit, Carl H., to Western Geophysical Co. of America. Pressure sensitive device. 2,902,668, 9-1-59, Cl. 340-17.
- Savke, Kurt G. C.: *See*—  
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- Savke, Kurt G. C., to American Hospital Supply Corp. Bumper structure. 2,873,993, 2-17-59, Cl. 293-62.
- Savoca, Joseph L., and W. F. Ellis, to Socony Mobil Oil Co., Inc. Method of sealing moving bed conversion reactor. 2,880,170, 3-31-59, Cl. 208-173.
- Savona, Salvatore J., to Lockheed Aircraft Corp. Method for threading wires through insulation. 2,876,534, 3-10-59, Cl. 29-433.
- Savory, David B., to General Electric Co. Control apparatus. 2,899,649, 8-11-59, Cl. 331-172.
- Savoy Brass Mfg. Co., Inc.: *See*—  
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- Sawade, Ernest. Drill press turret device. 2,911,858, 11-10-59, Cl. 77-25.
- Sawicki, Alfred T., to American District Telegraph Co. De-feat resistant burglar alarm contact. 2,912,540, 11-10-59, Cl. 200-87.
- Sawin, Raymond R., to O. F. Mossberg & Sons, Inc. Box-type cartridge magazine. 2,895,248, 7-21-59, Cl. 42-50.
- Sawle, David R., to United States of America, Atomic Energy Commission. Continuous alpha air monitor. 2,892,091, 6-23-59, Cl. 250-71.
- Saw Mill River Industries, Inc.: *See*—  
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- Sawyer, C. E.: *See*—  
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- Sawyer, Carl W., and R. W. Handley, deceased (M. P. Handley, administratrix), to United States of America, Atomic Energy Commission. Process of extracting uranium and radium from ores. 2,894,804, 7-14-59, Cl. 23-14.5.
- Sawyer, Donald W., and A. C. Lundahl. Rotating plates for parallax measurement. 2,871,563, 2-3-59, Cl. 33-1.
- Sawyer, Edward W., to Imperial Chemical Industries Ltd. Purification of benzole using hydrogen. 2,883,441, 4-21-59, Cl. 260-674.
- Sawyer, Edgar W., Jr.: *See*—  
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- Sawyer, Edgar W., Jr., and W. W. Gary, to Minerals & Chemicals Corp. of America. Inorganic animal litter and method for making the same. 2,895,873, 7-21-59, Cl. 167-42.



- Sawyer, Robert W., to General Electric Co. Electric heating. 2,916,594, 12-8-59, Cl. 219-19.
- Sawyer, Webster M.: *See—*  
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- Sawyers, Charlie F., to Sawyers Furniture Co., Inc. Sectional seating furniture. 2,914,118, 11-24-59, Cl. 155-196.
- Sawyers Furniture Co., Inc.: *See—*  
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- Sawyer's Inc.: *See—*  
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- Saxe, Walter E., to The Conveyor Co. Vibrating screen. 2,915,183, 12-1-59, Cl. 209-367.
- Saxenmeyer, George J., to International Business Machines Corp. Control circuit. 2,919,382, 12-29-59, Cl. 315-163.
- Saxman, Duane S., to Kennametal Inc. Percussion drill bit. 2,879,973, 3-31-59, Cl. 255-64.
- Saxonburg Ceramics: *See—*  
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- Saxony Electronics, Inc.: *See—*  
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- Tone, John W., and Bentzman. 2,885,527.
- Saxton, James B., and J. J. Bachmayer, to National Bundle Tye Co. Bundle tying machine. 2,867,166, 1-6-59, Cl. 100-4.
- Saxton, Lawrence G.: *See—*  
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- Saxton, Millard F., to The Engineered Products Co. Magnetic door catch. 2,909,384, 10-20-59, Cl. 292-251.5.
- Saxton, William R., and B. B. Mithel, to Canadian International Paper Co. Manufacture of regenerated cellulose. 2,898,222, 8-4-59, Cl. 106-165.
- Saxty, Lionel J.: *See—*  
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- Say, Alan W., to The Plessey Co. Ltd. Rotary fluid displacement pump. 2,887,064, 5-19-59, Cl. 103-126.
- Say, Donald, to Sylvania Electric Products Inc. Flanged anode for beam power tubes. 2,894,165, 7-7-59, Cl. 313-217.
- Sayer, Harold F. Combination hair dye applying device. 2,895,486, 7-21-59, Cl. 132-9.
- Sayers, Winston, and D. J. Wangelin, to The Pure Oil Co. Analytical test apparatus. 2,902,857, 9-8-59, Cl. 73-53.
- Sayigh, Adnan A. R., to The Carwin Co. Improvement in the method for the manufacture of nitrobenzene-sulfonate. 2,892,866, 6-30-59, Cl. 260-503.
- Sayko, Andrew F.: *See—*  
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- Sayko, Andrew F., to Esso Research and Engineering Co. Process for treating asphalts in presence of quinone dioxime. 2,909,498, 10-20-59, Cl. 260-28.5.
- Saylor, Charles P., and E. G. Rodebaugh. Tool-handle connection with damped resilient bond. 2,917,849, 12-15-59, Cl. 306-20.
- Saylor, John W.: *See—*  
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- Sayre, Allyn T., Jr., to The Pure Oil Co. Well logging process. 2,910,587, 10-27-59, Cl. 250-43.5.
- Sayre, David, to United States of America, Navy. Optical computer. 2,883,655, 4-21-59, Cl. 343-7.
- Sayre, Edwin D., to General Electric Co. Nozzle vane support for turbines. 2,914,300, 11-24-59, Cl. 253-78.
- Sayre & Fisher Co.: *See—*  
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- Sayre, Robert E.: *See—*  
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- Sayre, Robert L.: *See—*  
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- Sbaiz, Antonio. Thermal engines, particularly I.C. engines. 2,895,459, 7-21-59, Cl. 123-80.
- Scadden, William F. R. Chemical supply means for pruning shears. 2,870,573, 1-27-59, Cl. 47-1.
- Scaff, Jack H.: *See—*  
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- Scal, Robert K-F, to United States of America, Navy. Miniature radar sub-assembly. 2,879,455, 3-24-59, Cl. 317-101.
- Scal, Robert K-F, to United States of America, Navy. Combined pressure cooling system and chassis for miniaturized radar. 2,890,863, 6-16-59, Cl. 257-22.
- Scal, Robert K-F, and C. O. Lindseth, to United States of America, Navy. Miniature radar assembly. 2,889,493, 6-2-59, Cl. 317-101.
- Scalera, Mario, A. S. Tomcufcik, and W. B. Hardy, to American Cyanamid Co. Nitro- and amino-naphthotriazole quinones. 2,879,274, 3-24-59, Cl. 260-308.
- Scalera, Mario, F. Brody, C. L. Zimmerman, and A. B. Ulmes, to American Cyanamid Co. Cuprous complexes of organic cyano compounds and process of making same. 2,911,425, 11-3-59, Cl. 260-433.
- Scalero, Giuseppe: *See—*  
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- Scallet, Barrett L.: *See—*  
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- Sowell, Ernest A., Curtin, Hall, and Scallet. 2,897,086.
- Scallou, Frank J. Black-out vent for photographic darkroom and the like. 2,885,940, 5-12-59, Cl. 98-37.
- Scamman, John F.: *See—*  
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- Scandia Packaging Machinery Co.: *See—*  
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- Scandurra, Aldo M.: *See—*  
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- Scanlan, Michael J. B.: *See—*  
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- Scanlan, Warren F., and A. M. McGuire, to Precise Vac-U-Tronic, Inc. Vacuum cleaner system. 2,914,789, 12-1-59, Cl. 15-314.
- Scanland, Joseph E.: *See—*  
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- Scanland, Joseph E., to New Monarch Machine and Stamping Co. Supporting stand. 2,903,212, 9-8-59, Cl. 248-48.
- Scanley, Clyde S., and E. K. Fields, to Standard Oil Co. Lubricant compositions containing thiopyrones. 2,897,153, 7-28-59, Cl. 252-48.2.
- Scanlon, Earl J., and A. L. Jokl, to Continental Motors Corp. Generator stator construction. 2,885,580, 5-5-59, Cl. 310-258.
- Scanlon, George R. Heat exchanger. 2,909,362, 10-20-59, Cl. 257-249.
- Scanlon, John J., to Bell Telephone Laboratories, Inc. Transistor pulse transmission circuits. 2,906,891, 9-29-59, Cl. 307-88.5.
- Scanlon, William F.: *See—*  
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- Scanlon, William F., to Sylvania Electric Products Inc. Television apparatus. 2,903,689, 9-8-59, Cl. 340-367.
- Scannell, John W.: *See—*  
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- Scanoptic, Inc.: *See—*  
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- Scarborough Associates, Inc.: *See—*  
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- Scarborough, Robert W., and W. Voigt, to The Martin Co. Turbojet engine arrangement utilizing evaporative cooling. 2,874,537, 2-24-59, Cl. 60-35.6.
- Scarborough, William M., to North American Aviation, Inc. Three-axis torque and displacement detector. 2,878,445, 3-17-59, Cl. 324-34.
- Scarborough, Alfred D., to Thompson Ramo Wooldridge Inc. Gating circuits for electronic computers. 2,892,103, 6-23-59, Cl. 307-88.5.
- Scardamalia, Theodore G., and F. Muto. Boot jack. 2,883,097, 4-21-59, Cl. 223-114.
- Scarlet, Ted, Pennant. 2,888,900, 6-2-59, Cl. 116-173.
- Sernato, Thomas J., M. I. Zielinski, and S. E. Hilblom, to International Harvester Co. Mower operating mechanism. 2,895,277, 7-21-59, Cl. 56-25.
- Scarrott, Gordon G., and K. C. Johnson, to Ferranti, Ltd. Digital-analogue converter. 2,870,437, 1-20-59, Cl. 340-347.
- Scarrott, Gordon G., W. J. Harwood, and K. C. Johnson, to Ferranti Ltd. Delay stages for electrical pulses. 2,883,534, 4-21-59, Cl. 250-27.
- Scarselli, Thomas L. Ventilated bed enclosure. 2,898,837, 8-11-59, Cl. 98-33.
- Scatchard, Thomas L., to The New York Air Brake Co. Diffusion pump. 2,905,373, 9-22-59, Cl. 230-101.
- Scatchard, Thomas L., to The New York Air Brake Co. Diffusion ejector pump. 2,905,374, 9-22-59, Cl. 230-101.
- Scatley, Byron L., and D. C. Parker, to United States of America, Air Force. Oblique aerial photographic plotting template. 2,894,327, 7-14-59, Cl. 33-1.
- Scavarda, Giuseppe: *See—*  
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- Scavetto, Samuel M. Curtain tieback device. 2,867,873, 1-13-59, Cl. 24-73.
- Scavullo, Angelo C., to V. K., C., and F. Scavullo, M. S. Saegert, and M. S. Scott. Production of silver-plated stainless steel ware. 2,878,172, 3-17-59, Cl. 204-40.
- Scavullo, Charles: *See—*  
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- Scavullo, Victor K.: *See—*  
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- Scavuzzo, William J., and F. Romeo, to Purolator Products, Inc. Filter unit. 2,878,936, 3-24-59, Cl. 210-90.
- Scelzo, Frank, Jr. Golf practice device. 2,894,755, 7-14-59, Cl. 273-192.
- Schaaber, Otto. Casting process. 2,877,525, 3-17-59, Cl. 22-200.1.
- Schaad, Raymond E., to Universal Oil Products Co. Nitrohydrocarbon gels. 2,891,852, 6-23-59, Cl. 52-5.
- Schaaf, Edward J.: *See—*  
Greedy, Edwin F., and Schaaf. 2,910,070.
- Schaaf, Robert P., to The M. W. Kellogg Co. Unitary vessel catalytic reactor, regenerator and vacuum stripper. 2,895,811, 7-21-59, Cl. 23-288.



- Schaaf, Willard A., and L. E. Simes, II, to Whirlpool Corp. Pilotless ignition device and system for the safe ignition of gases and vapors. 2,869,633, 1-20-59, Cl. 158-128.
- Schaafsma, Albert: *See*—  
Hoog, Han, and Schaafsma. 2,871,254.
- Schaafsma, Bernard R., and O. Ratsep, to Colgate-Palmolive Co. Process for the preparation of granular compositions. 2,874,123, 2-17-59, Cl. 252-99.
- Schaale, Robert G.: *See*—  
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- Schaap, Jacob A.: *See*—  
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Duin, Hendrik J., and Schaap. 2,919,197.
- Schaap, Ward B., to United States of America, Atomic Energy Commission. Recovery of uranium values from residues. 2,900,226, 8-18-59, Cl. 23-14.5.
- Schaap, Willem F. C., to The Babcock & Wilcox Co. Vapour generating and vapour heating unit. 2,905,154, 9-22-59, Cl. 122-478.
- Schaber, Donald R.: *See*—  
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- Schaberg, Johannes G., to Minneapolis-Honeywell Regulator Co. Gyroscopic devices. 2,876,643, 3-10-59, Cl. 74-5.7.
- Schacher, Paul F.: *See*—  
Scherer, Otto, and Schacher. 2,884,452.
- Schachner, Kurt, and H. Stieger. Water-borne motor-powered towing device for control by a waterskier. 2,914,018, 11-24-59, Cl. 115-6.1.
- Schacht, Clifford A., Jr., to Overhead Door Corp. Upwardly acting door assembly. 2,869,637, 1-20-59, Cl. 160-201.
- Schacht, Elmer C. Colostomy device. 2,914,063, 11-24-59, Cl. 128-283.
- Schacht, Gunter H., to General Telephone Laboratories, Inc. Rotary Switch. 2,894,096, 7-7-59, Cl. 200-105.
- Schacht, Wilhelm: *See*—  
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- Schachte, John H. Automatic weighing and loading apparatus. 2,903,230, 9-8-59, Cl. 249-58.
- Schachtel, Irving I., to Sonotone Corp. Portable radio broadcast receiver with removable speaker. 2,878,375, 3-17-59, Cl. 250-16.
- Schack, Alfred, to Rekuperator K.-G. Dr.-Ing. Schack & Co. Radiation recuperators. 2,917,285, 12-15-59, Cl. 257-246.
- Schackmann, Heinrich: *See*—  
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- Schad, Ernest A.: *See*—  
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- Schade, B. D.: *See*—  
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- Schade, Harald J. G., to Passavant Werke. Combined rake and crushing system. 2,910,181, 10-27-59, Cl. 210-162.
- Schade, Hubert, and M. Thiel, to VEB Leuna-Werke "Walter Ulbricht". Process of preparing 3-thiazolines. 2,886,571, 5-12-59, Cl. 260-306.7.
- Schade, Georg, K.-G.: *See*—  
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- Schade, Harald J. G., to Passavant Werke. Crushing machine. 2,911,099, 11-3-59, Cl. 210-174.
- Schade, Hugh: *See*—  
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- Schade, Otto H., to Radio Corp. of America. Electron tube structure. 2,871,391, 1-27-59, Cl. 313-238.
- Schädlich, Alfred: *See*—  
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- Schadt, Conrad F.: *See*—  
Perkins, William A., Grinnell, and Schadt. 2,868,318.
- Schaedler, Raymond J., to Chicago Pneumatic Tool Co. Core box vibrator. 2,880,974, 4-7-59, Cl. 259-1.
- Schaefer, Arthur E., to Waugh Equipment Co. Journal lubricators. 2,907,613, 10-6-59, Cl. 308-243.
- Schaefer, Carl A., and R. F. Gottsacker, to Square D Co. Motor driven switch. 2,902,551, 9-1-59, Cl. 200-24.
- Schaefer, Carl F., to United Aircraft Corp. Force ratio transducer. 2,910,870, 11-3-59, Cl. 73-407.
- Schaefer, Carl F., and K. Schwartzwalder, to General Motors Corp. Method of firing alumina ceramics. 2,867,888, 1-13-59, Cl. 25-157.
- Schaefer, Earl F., to Owens-Illinois Glass Co. Protective coating for decorated glassware and method of application. 2,895,846, 7-21-59, Cl. 117-12.
- Schaefer, Earl H.: *See*—  
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- Schaefer, Edward E. Display hanger. 2,905,369, 9-22-59, Cl. 223-95.
- Schaefer, Edward J. Bearing assembly. 2,877,068, 3-10-59, Cl. 308-236.
- Schaefer, Edward J. Plugging of single phase motors. 2,886,756, 5-12-59, Cl. 318-210.
- Schaefer, Edward J. Cable connector. 2,906,986, 9-29-59, Cl. 339-60.
- Schaefer, Edward J. Motor pump unit. 2,915,978, 12-8-59, Cl. 103-87.
- Schaefer, Emil M. Partitioned carton. 2,899,122, 8-11-59, Cl. 229-28.
- Schaefer, Emmett A. Mop having removable pocket-type mop head. 2,908,931, 10-20-59, Cl. 15-228.
- Schaefer, Frederic C., to American Cyanamid Co. Preparation of mono-substituted s-triazines. 2,878,250, 3-17-59, Cl. 260-248.
- Schaefer, Frederic C., and L. A. Landers, to American Cyanamid Co. Dioxo-bis-guanamines and resins therefrom. 2,901,464, 8-25-59, Cl. 260-67.6.
- Schaefer, Fridolin, to Robert Bosch G.m.b.H. Commutator. 2,889,476, 6-2-59, Cl. 310-235.
- Schaefer, Hans F., Jr., and F. Pulsifer, to United Shoe Machinery Corp. Sewing machine thread take-up. 2,903,985, 9-15-59, Cl. 112-57.
- Schaefer, Harold W., and F. W. Edwards, to Philco Corp. Apparatus for treating foodstuffs. 2,906,104, 9-29-59, Cl. 62-264.
- Schaefer Inc.: *See*—  
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- Schaefer, James C.: *See*—  
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- Schaefer, John F.: *See*—  
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- Schaefer, Lawrence W. Push-type floor mop. 2,890,470, 6-16-59, Cl. 15-221.
- Schaefer, Louis F.: *See*—  
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- Schaefer, Peter R.: *See*—  
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- Schaefer, Peter R., T. J. Wojciak, and S. H. Royennr, to Union Carbide Corp. Gas shielded metal arc welding torch. 2,873,355, 2-10-59, Cl. 219-130.
- Schaefer, Ralph A., to Clevite Corp. Bearing and method of making same. 2,902,748, 9-8-59, Cl. 29-149.5.
- Schaefer, Robert J., to Johnson & Johnson. Corrugated dressing. 2,896,618, 7-28-59, Cl. 128-156.
- Schaefer, Robert L., to Republic Molding Corp. Utility containers. 2,916,161, 12-8-59, Cl. 211-126.
- Schaefer, Wilbur J., to The Interior Steel Equipment Co. Door latch mechanism. 2,912,271, 11-10-59, Cl. 292-336.3.
- Schaeffer, George W.: *See*—  
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- Schaeffer, William D.: *See*—  
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- Schaeffer, William D., to Union Oil Co. of California. Werner complexes of metal cyanides. 2,876,226, 3-3-59, Cl. 260-270.
- Schaeffer, William D., to Union Oil Co. of California. Werner complexes of isouquinoline. 2,876,227, 3-3-59, Cl. 260-270.
- Schaeffer, William D., to Union Oil Co. of California. Werner complexes of metal formates. 2,903,456, 9-8-59, Cl. 260-270.
- Schaeffer, William D., and W. S. Dorsey, to Union Oil Co. of California. Werner complexes of 4-acetyl-pyridine. 2,905,684, 9-22-59, Cl. 260-270.
- Schaeffgen, John R.: *See*—  
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- Schaer, Glenn R.: *See*—  
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- Schaer, Glenn R., to Diamond Gardner Corp. Electroformed screens. 2,870,068, 1-20-59, Cl. 204-11.
- Schaer, Glenn R., to Bradley Mining Co. Antimony plating process. 2,918,414, 12-22-59, Cl. 204-29.
- Schaer, Glenn R., to Bradley Mining Co. Antimony plating process. 2,918,415, 12-22-59, Cl. 204-34.
- Schaer, Glenn R., and J. G. Beach, to United States of America, Navy. Protective metal coatings for molybdenum. 2,886,499, 5-12-59, Cl. 204-41.
- Schaeren, Sidney F., and W. T. Moreland, to Chas. Pfizer & Co., Inc. Bixin and nor-bixin esters. 2,891,087, 6-16-59, Cl. 260-463.
- Schaetti, Norbert: *See*—  
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- Schaetzly, Raymond F., to Oil Equipment Mfg. Co., Inc. Liquid-level-controlled filling device. 2,881,809, 4-14-59, Cl. 141-209.
- Schaeve, Donald K., to Barber-Colman Co. Control system with stepped output transistor amplifier. 2,908,829, 10-13-59, Cl. 307-88.5.
- Schaevizt Bros., Inc.: *See*—  
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Schaevizt, Charles S. 2,872,740.
- Schaevizt, Charles S., to Schaevizt Bros., Inc. Recapping machine. 2,872,704, 2-10-59, Cl. 18-18.
- Schaevizt, Charles S., to Schaevizt Bros., Inc. Drying machine. 2,872,740, 2-10-59, Cl. 34-68.
- Schaevizt Engineering: *See*—  
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- Schaevizt, Herman, to Schaevizt Engineering. Angular accelerometer. 2,912,657, 11-10-59, Cl. 336-30.
- Schafer, Bertram. Deodorizing device. 2,873,488, 2-17-59, Cl. 21-108.
- Schafer, Curtiss R., to The Liquidometer Corp. Compensated fuel gage bridge. 2,867,120, 1-6-59, Cl. 73-304.
- Schafer-Flottmann & Co. G. m. b. H.: *See*—  
Schafer, Fritz, and Brockmann. 2,873,049.
- Schafer, Fritz, and A. Brockmann, to Schafer-Flottmann & Co. G. m. b. H. Process and apparatus for distributing a fluidized solid material. 2,873,049, 2-10-59, Cl. 222-1.
- Schäfer, Georg, to Chemische Werke Huls Akt. Process for the production of p-ylene. 2,904,605, 9-15-59, Cl. 260-668.
- Schafer, George. Windshield wiper with magnetically actuated flexible blade. 2,893,041, 7-7-59, Cl. 15-253.



- Schafer, John P., to Bell Telephone Laboratories, Inc. Gyromagnetic polarizing device. 2,907,964, 10-6-59, Cl. 333-98.
- Schafer, Kugelfischer Georg & Co.: *See*—  
Brand, Karl. 2,903,309.
- Schafer, Leonhard O. Apparatus for assembling pre-formed parts of pulled sugar candy. 2,901,851, 9-1-59, Cl. 41-2.
- Schafer, Vernon, Jr., to General Motors Corp. Expansion joint. 2,893,371, 7-7-59, Cl. 123-188.
- Schafer, Werner, R. Wegler, and L. Eue, to Farbenfabriken Bayer Akt. 3-furfurylidene-amino-1,2,4-triazole and process for producing same. 2,870,144, 1-20-59, Cl. 260-240.
- Schafer, Willy (Wilhelm): *See*—  
Sattmann, Erhard, and Schafer. 2,896,578.
- Schaff, Rudolf: *See*—  
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- Schaffan, Stephen. Device for securing miniature rails to miniature railway bed units. 2,901,819, 9-1-59, Cl. 29-241.
- Schaffer, Arthur. Mixer valve. 2,893,429, 7-7-59, Cl. 137-625.41.
- Schaffer, Herman W., and W. Speicher, to General Electric Co. Brush mechanism. 2,894,239, 7-7-59, Cl. 339-8.
- Schaffer, Norman G., to Western Electric Co., Inc. Covers for automotive vans. 2,882,093, 4-14-59, Cl. 296-137.
- Schaffer, William D.: *See*—  
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- Schaffert, Roland M., and J. F. Hansen, to Haloid Xerox Inc. Xerographic plate. 2,901,349, 8-25-59, Cl. 96-1.
- Schaffhauser, William V., to Plastic Wire & Cable Corp. Breather cable. 2,910,524, 10-27-59, Cl. 174-15.
- Schafroth, Werner. Table stapling machine. 2,894,262, 7-14-59, Cl. 1-13.
- Schafroth, Werner. Stapling machine. 2,897,502, 8-4-59, Cl. 1-49.
- Schafroth, Werner. Air operated control means for stapling machines. 2,897,503, 8-4-59, Cl. 1-101.
- Schafroth, Werner. Movable stapling head and mounts therefor. 2,900,637, 8-25-59, Cl. 1-13.
- Schagen, Pieter: *See*—  
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Heijne, Leopold, Dorrestein, Bruining, and Schagen. 2,890,359.
- Schagen, Pieter, to North American Philips Co., Inc. Television camera tube. 2,887,611, 5-19-59, Cl. 315-11.
- Schagen, Pieter, to North American Philips Co., Inc. Glow-indicator tube. 2,917,651, 12-15-59, Cl. 313-210.
- Schaich, Wilbur A.: *See*—  
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- Schaich, Wilbur A., to Owens-Illinois Glass Co. Applying device. 2,912,708, 11-17-59, Cl. 15-132.7.
- Schaich, Wilbur A., to Owens-Illinois Glass Co. Ball applicator having shiftable ball support. 2,913,746, 11-24-59, Cl. 15-132.7.
- Schaich, Wilbur A., and R. C. Gasmire, to Owens-Illinois Glass Co. Ball-type dispensing package. 2,910,712, 11-3-59, Cl. 15-132.7.
- Schaines, Joseph A.: *See*—  
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- Schake, Richard P.: *See*—  
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- Schak, Robert F., to Western Electric Co., Inc. Capacitor-charging systems. 2,891,209, 6-16-59, Cl. 320-1.
- Schall, Elmer J., to Bendix Aviation Corp. Method of forming anchoring clutch for two-speed coaster brake. 2,875,509, 3-3-59, Cl. 29-159.2.
- Schaller, Francis X., Jr.: *See*—  
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- Schaller, Harold G. Double lobe cam shaft. 2,877,752, 3-17-59, Cl. 123-90.
- Schaller, Johannes. Shoe soles with twistable shank. 2,897,611, 8-4-59, Cl. 36-30.
- Schaller, John, Jr., H. Thau, and J. K. Duncan, to American Photocopy Equipment Co. Procedure and apparatus for making a binding element having nested fingers. 2,910,729, 11-3-59, Cl. 18-19.
- Schallus, Erich, and A. Gotz, to Knapsack-Griesheim Aktiengesellschaft. Process for carrying out endothermic reactions at high temperatures. 2,916,534, 12-8-59, Cl. 260-679.
- Schalm, Oscar W., and D. O. Noorlander, to The Regents of The University of California. Milking machine and teat cup assembly therefor. 2,896,573, 7-28-59, Cl. 119-14.36.
- Schamber, Alice M. Girdle. 2,904,048, 9-15-59, Cl. 128-540.
- Schamel, Clyde H.: *See*—  
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- Schampers, Paul P. M.: *See*—  
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- Schanda-Seyferth, Maria. Cover or blanket convertible into a coat. 2,911,648, 11-10-59, Cl. 2-69.
- Schandroch, Josef, to H.-W. Meyer. Process of and apparatus for the continuous manufacture of cellulose or hemicellulose from cellulosic fibrous materials. 2,876,098, 3-3-59, Cl. 92-6.
- Schane, Philip, Jr., and W. U. Taylor, to United States Steel Corp. Open-hearth steelmaking process. 2,878,115, 3-17-59, Cl. 75-52.
- Schankler, Harold, to The F R Corp. Electrical photoflash device. 2,894,174, 7-7-59, Cl. 315-230.
- Schantz, Socrates J. Folding canopy for vending stand trailers. 2,896,706, 7-28-59, Cl. 160-62.
- Schaper, Otto F. Carrier landing trainer. 2,883,763, 4-28-59, Cl. 35-12.
- Schaper, William A., to Motorola, Inc. Transistor unit. 2,869,053, 1-13-59, Cl. 317-235.
- Schapiro, Abraham, to The Shasta Water Co. Effervescent drink concentrate and method of making same. 2,868,646, 1-13-59, Cl. 99-78.
- Schapiro, Eugene: *See*—  
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- Schappel, Joseph W., to American Viscose Corp. Textile material of regenerated cellulose containing a polyacrylamide. 2,901,813, 9-1-59, Cl. 28-82.
- Schappert, Hans M., to Koppers Co., Inc. Polymerization processes. 2,885,339, 5-5-59, Cl. 260-94.9.
- Schappert, Hans M., to Koppers Co., Inc. Polymerization processes. 2,918,460, 12-22-59, Cl. 260-94.9.
- Schara, Earl M. Self-cleaning eating table. 2,886,837, 5-19-59, Cl. 15-4.
- Schardt, Rudolf, to Dresser Industries, Inc. Motion transmitting members. 2,887,890, 5-26-59, Cl. 74-110.
- Scharein, Otto H. Apparatus for sorting pipes and the like according to length. 2,907,458, 10-6-59, Cl. 209-82.
- Schares, Roger W. Dispensing container for support upon an edge of a receptacle. Re. 2,462,1, 3-17-59, Cl. 99-171.
- Scharfen, Hans H., to Hermann Scharfen, Maschinenfabrik. Disc slicing machine for foods. 2,912,026, 11-10-59, Cl. 146-102.
- Scharfen, Hermann, Maschinenfabrik: *See*—  
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- Scharner, George A. Stainless sheet metal work surfaces. 2,884,649, 5-5-59, Cl. 4-187.
- Scharmer, George A., to The Duct-Less Hood Co., Inc. Kitchen conditioner. 2,886,124, 5-12-59, Cl. 183-4.3.
- Scharnagl, Günther: *See*—  
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- Scharpf, Alwin: *See*—  
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- Scharringhausen, Paul J. Portable vacuum nozzle for filling tanks. 2,882,935, 4-21-59, Cl. 141-43.
- Scharstein, Ernst, K. Lutz, and H. Falkenberg, to Siemens-Schuckertwerke Akt. Alternating-current systems with intermittently operating squirrel-cage motors energized from synchronous alternators. 2,887,641, 5-19-59, Cl. 318-148.
- Schart, Ludwig. Automatic ground load releasing devices for load carrying parachutes. 2,919,154, 12-29-59, Cl. 294-83.
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Marsh, Glenn A., and Schaschl. 2,888,642.
- Schatzman, George W., to Houdaille Industries, Inc. Fender and fender shield construction. 2,892,637, 6-30-59, Cl. 280-153.
- Schaub, Franz, W. Drope, and W. von Hoffmann, to Ruhrchemie-Akt. Lock for the discharge of solids separated from gaseous media by means of cyclones. 2,889,892, 6-9-59, Cl. 183-85.
- Schaub, Franz, W. von Hoffman, O. Roelen, and W. Drope, to Ruhrchemie Aktiengesellschaft. Drying of divided solid materials. 2,911,730, 11-10-59, Cl. 34-57.
- Schaub, Lise C., and J. F. Blaski, to Kaiser Aluminum & Chemical Corp. Panel assembly. 2,887,192, 5-19-59, Cl. 189-34.
- Schaub, Robert E., and M. J. Weiss, to American Cyanamid Co. 7-substituted thio-4-androstenes. 2,908,694, 10-13-59, Cl. 260-397.4.
- Schauenstein, Erwin, to Nitritfabrik Aktiengesellschaft. Process for the conversion of normally water-insoluble organic substances into water-soluble form and substances produced by said process. 2,919,287, 12-29-59, Cl. 260-398.
- Schauer, Lawrence B.: *See*—  
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- Schaufelberger, Felix A., to American Cyanamid Co. Nitric acid leaching process. 2,916,357, 12-8-59, Cl. 23-200.
- Schaufelberger, Henry W.: *See*—  
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- Schauffler, David J., to McGraw-Edison Co. Differential measuring systems. 2,886,780, 5-12-59, Cl. 324-140.
- Schaumer, Theo B., to Munsingwear, Inc. Brassiere. 2,888,931, 6-2-59, Cl. 128-482.
- Schaupp, Ralph H. Combination ice box and air cooler for automobiles. 2,891,390, 6-23-59, Cl. 62-312.
- Schechter, William H.: *See*—  
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- Schechter, William H., to Callery Chemical Co. Production of alkanol-boron fluoride complex. 2,889,370, 6-2-59, Cl. 260-606.5.
- Schechter, William H., to Callery Chemical Co. Process for production of trimethoxyboroxine. 2,891,086, 6-16-59, Cl. 260-462.
- Schechter, William H., to Callery Chemical Co. Method of producing aluminum borohydride. 2,913,306, 11-17-59, Cl. 23-14.



- Schechter, William H., and R. H. Shakely, to Callery Chemical Co. Production of boron hydrides. 2,888,326, 5-26-59, Cl. 23-204.
- Schechtman, David. Self-adjusting holder for flat articles. 2,879,897, 3-31-59, Cl. 211-43.
- Scheck, Charles J. and W. Slide damper for ventilating outlet. 2,909,983, 10-27-59, Cl. 98-101.
- Scheck, William: *See*—
- Scheck, Charles J. and W. 2,909,983.
- Schechter, George, and W. J. Kroeger, to United States of America, Army. Sheet propellant. 2,918,005, 12-22-59, Cl. 102-49.
- Schedl, Karl, and K. Becker, to General Motors Corp. Hydraulic shock absorber. 2,911,072, 11-3-59, Cl. 188-88.
- Schedling, Johann: *See*—
- Maas, Friedrich J., and Schedling. 2,868,317.
- Scheel, Henry V.: *See*—
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- Scheel, Joachim E., to Siemens & Halske Aktiengesellschaft. Discharge vessel cooled by radiation. 2,909,702, 10-20-59, Cl. 315-538.
- Scheel, Walther F., to Rockwell-Standard Corp. Shaft bearing mounting. 2,892,662, 6-30-59, Cl. 308-36.1.
- Scheeline, Harold W.: *See*—
- Smith, Brook I., Scheeline, and Boston. 2,905,629.
- Scheeline, Harold W., and W. E. Catterall, to Esso Research and Engineering Co. Purification of amyl alcohol. 2,874,096, 2-17-59, Cl. 202-40.
- Scheer, Kurt E.: *See*—
- Becker, Josef, Scheer, and Egelhaaf. 2,917,041.
- Scheerbarth, Maximilian, to North American Philips Co., Inc. Housing for electro-acoustic apparatus. 2,872,997, 2-10-59, Cl. 181-31.
- Scheffbauer, Rupert J.: *See*—
- Dean, Russell T., and Scheffbauer. 2,867,593.
- Scheffel, John W.: *See*—
- Fischer, Paul W., Kenny, and Scheffel. 2,903,407.
- Scheffler, Heinrich: *See*—
- Kottler, August, and Scheffler. 2,867,664.
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- Scheffler, Heinz: *See*—
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- Walach, Bruno, Kottler, and Scheffler. 2,880,246.
- Scheffler, Paul H., Jr., to Westinghouse Electric Corp. Lubrication system. 2,888,097, 5-26-59, Cl. 184-6.
- Scheffler, Paul H., Jr., and R. R. Young, to Westinghouse Electric Corp. Turbine apparatus. 2,888,286, 5-26-59, Cl. 288-13.
- Schefflow, Oliver W.: *See*—
- Martin, Francis J., and Schefflow. 2,887,091.
- Scheg, Marcian A.: *See*—
- Ferm, Glenn O., and Scheg. 2,914,663.
- Schegk, Ernst, and G. Schrader, to Farbenfabriken Bayer Akt. Thiophosphoric acid esters and their production. 2,894,017, 7-7-59, Cl. 260-461.
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- Scheibe, Elias W., to General Motors Corp. Hydraulic lash adjuster. 2,902,015, 9-1-59, Cl. 123-90.
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- Krall, Friedrich, Scheibe, and Schuster. 2,890,258.
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- Scheibel, Kurt and M., to VEB Spezialmaschinenwerk Limbach. Multi-needle table embroidery machine. 2,896,562, 7-28-59, Cl. 112-103.
- Scheibel, Margarethe: *See*—
- Scheibel, Kurt and M. 2,896,562.
- Scheibner, Edwin J.: *See*—
- Atalla, Martin M., Scheibner, and Tannenbaum. 2,899,344.
- Scheich, Richard J.: *See*—
- Kingdon, Ralph H., and Scheich. 2,889,428.
- Scheid, John L., to Union Tank Car Co. Filter underdrain system. 2,873,857, 2-17-59, Cl. 210-293.
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- Sylvester, Arthur D., and Scheiding. 2,875,543.
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- Reiner, Stewart, Hughes, and Scheiner. 2,877,308.
- Scheinert, Alfred: *See*—
- Hennig, Walter, Scheinert, Taubert, and Strehle. 2,911,894.
- Scheinpflug, Gunter: *See*—
- Stuiber, Walter, and Scheinpflug. 2,905,297.
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- Scheldorf, Randal D., to Radio Corp. of America. Limiter circuit. 2,892,935, 6-30-59, Cl. 250-27.
- Schele, Enrique, to National Rubber Machinery Co. Washing machine. 2,918,811, 12-29-59, Cl. 68-4.
- Schell, Carl M., to General Motors Corp. Door opener. 2,889,787, 6-9-59, Cl. 109-63.5.
- Schell, Carl M., to General Motors Corp. Refrigerating apparatus. 2,896,312, 7-28-59, Cl. 29-157.3.
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- Schelling, George C., to Bausch & Lomb Optical Co. Lens surfacing machine. 2,880,556, 4-7-59, Cl. 51-124.
- Schelp, Helmut R., to The Garrett Corp. Air cycle air conditioning system. 2,892,322, 6-30-59, Cl. 62-314.
- Schelp, Helmut R., to The Garrett Corp. Engine supercharging apparatus. 2,918,787, 12-29-59, Cl. 60-13.
- Schelp, Helmut R., to The Garrett Corp. Means for cooling the peripheral rim of a centrifipetal turbine wheel. 2,919,103, 12-29-59, Cl. 253-39.15.
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- Garcia, Gelasio F., and Schemansky. 2,896,997.
- Schemmel, Otto J. Fluid operated compressors, and the like. 2,888,194, 5-26-59, Cl. 230-162.
- Schempp, Roy: *See*—
- Andresen, William F., Jr., and Schempp. 2,867,158.
- Schenck, Carl, Maschinenfabrik G. m. b. H.: *See*—
- Federn, Klaus, and Hack. Re. 24,620.
- Schenck, Harold A.: *See*—
- McGarvey, John A., Schenck, and Adamick. 2,914,318.
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- Schendel, Herbert M., to Beckman Instruments, Inc. Encased variable resistance device. 2,914,744, 11-24-59, Cl. 338-164.
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- Otto, Harold M. 2,872,847.
- Schenectady Varnish Co., Inc.: *See*—
- McNaughtan, Thomas J. 2,906,789.
- Sheffer, Howard E., and Meyer. 2,889,304.
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- Henderson, Frank J., and Schenk. 2,918,020.
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- Oppliger, Walter, Peyer, Schenkel, and Glenz. 2,918,475.
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- Schenkengell, Emerich, to G. M. Pfaff A.G. Resistance heating device. 2,910,568, 10-27-59, Cl. 219-19.
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- Schenker, Bernard, to Sprague Electric Co. Wave filter. 2,918,635, 12-22-59, Cl. 333-79.
- Schenker, Bernard, R. W. Lord, and J. P. Campbell, to Sprague Electric Co. Encased electric filter. 2,918,633, 12-22-59, Cl. 333-70.
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Geddes, Norman B., and King. 2,914,190.  
Goldstein, Daniel. 2,908,426.  
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Mittleman, Myron B. 2,914,165.  
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- Schepman, Berne A., to The Bimco Corp. Filter construction. 2,867,330, 1-6-59, Cl. 210-392.
- Scherba, George J., to United States Steel Corp. Bearing seal for rolling mill roll. 2,906,565, 9-29-59, Cl. 308-36.3.
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- Scherbatskoy, Serge A. Scanning method. 2,904,629, 9-15-59, Cl. 178-6.8.
- Scherbatskoy, Serge A., to PGAC Development Co. Simultaneous neutron and gamma ray well logging system. 2,911,536, 11-3-59, Cl. 250-83.6.
- Scherber, Helene: See—  
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- Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Rotating heat exchanger. 2,911,197, 11-3-59, Cl. 257-1.
- Scherenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Reverse driving lights. 2,911,620, 11-3-59, Cl. 340-74.
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- Scherenberg, Hans O., and R. E. Uhlenhaut, to Daimler-Benz Aktiengesellschaft. Internal combustion piston engine. 2,904,025, 9-15-59, Cl. 123-140.
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- Scherer, George J., to Cramer Posture Chair Co., Inc. Spring loaded locking mechanism for chair pedestal. 2,909,212, 10-20-59, Cl. 155-88.
- Scherer, Karl, and Sauer. Device for the conversion of mechanical oscillatory energy into electrical oscillatory energy. 2,901,936, 9-1-59, Cl. 84-1.04.
- Scherer, Otto: See—  
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- Scherer, Otto, to Farbwerke Hoechst Akt. vormalis Meister & Bruning. Production of 1,1-difluoro-1,2,2-trichloroethane. 2,870,224, 1-20-59, Cl. 260-653.7.
- Scherer, Otto, and P. F. Schacher, to Farbwerke Hoechst Akt. vormalis Meister Lucius & Bruning. Vinylsulfonyl fluorides and preparation thereof. 2,884,452, 4-28-59, Cl. 260-543.
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- Scherer, R. P., Corp.: See—  
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Scherer, Robert P. 2,877,533.  
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Stanley, John F., and Bradley. 2,870,062.
- Scherer, Robert P., to R. P. Scherer Corp. Apparatus for drying gelatin capsules. 2,877,563, 3-17-59, Cl. 34-57.
- Scherer, Robert P., to R. P. Scherer Corp. Hypo jet injector. 2,902,994, 9-8-59, Cl. 128-173.
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- Schering A.G.: See—  
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Gould, David H., Hershberg, and Shapiro. 2,900,400.  
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- Schermer, Eugene B.: See—  
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- Scherr, Maurice. Glove construction. 2,907,046, 10-6-59, Cl. 2-159.
- Scherrer, Kurt, to Starrfrasmachines A.G. Method and means for copying work pieces. 2,914,991, 12-1-59, Cl. 90-13.1.
- Scherry, George A., to Grayhill. Electric terminal for insulating base. 2,892,177, 6-23-59, Cl. 339-220.
- Scherry, George A., to Grayhill. Molding machine. 2,900,662, 8-25-59, Cl. 18-5.
- Schertel, Hanns V. Hydrofoil system. 2,917,016, 12-15-59, Cl. 114-66.5.
- Scherz, Louis, to The American Pad & Textile Co. Adjustable caps and like structures. 2,869,137, 1-20-59, Cl. 2-197.
- Scherzinger, Bruno, to Mechanical Pin Resetter Co., Ltd. Bowling alley pin resetting machine. 2,902,281, 9-1-59, Cl. 273-43.
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- Schesvold, Orland S., and D. M. Breslow, to Curtition Corp. Folding door. 2,913,045, 11-17-59, Cl. 160-84.
- Schetelich, Alan A.: See—  
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- Schetelich, Alan A., and J. L. Betts, Jr., to Esso Research and Engineering Co. Esterification of dicarboxylic acids with stoichiometric quantities of higher aliphatic alcohols. 2,883,416, 4-21-59, Cl. 260-475.
- Schettel, Arthur R.: See—  
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- Schettini, Stephen A.: See—  
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- Schetz, Ferdinand C. Illuminator for lady's handbag. 2,911,521, 11-3-59, Cl. 240-6.45.
- Scheu, Lester W., to The Firestone Tire & Rubber Co. Uniform tension-maintaining motor control. 2,875,388, 2-24-59, Cl. 318-7.
- Scheub, John N.: See—  
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- Scheuchzer, André: See—  
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- Scheuchzer, Fredy and A. Track ballast machine. 2,914,867, 12-1-59, Cl. 37-104.
- Scheuer, Ernst, and T. J. Howells, to International Alloys Ltd. Method of sealing interstices in refractory materials and apparatus made of the same. 2,906,644, 9-29-59, Cl. 117-71.
- Scheuer, Fred F., and P. M. Marx, to H. Glatt. Dusting device with disposable replaceable soft paper laminae. 2,870,475, 1-27-59, Cl. 15-231.
- Scheuerer, Guenter: See—  
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- Scheuerpflug, Hans, to Maschinenfabrik Augsburg-Nürnberg A. G. Vehicle-mounted revolving crane with folding jib. 2,874,851, 2-24-59, Cl. 212-144.
- Scheuerpflug, Hans, to Maschinenfabrik Augsburg-Nürnberg A. G. Vehicle with motor mounted on swingable arm. 2,893,502, 7-7-59, Cl. 180-64.
- Scheuerpflug, Hans, to MAN Maschinenfabrik Augsburg-Nürnberg-A.G. Rotary automobile crane. 2,910,189, 10-27-59, Cl. 212-59.
- Scheuffele, Robert, & Co.: See—  
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- Scheurer, Hans: See—  
Kern, Rudolf, Scheurer, Zorn, and Kruppke. 2,895,914.
- Scheurer, Otto R., to Tokheim Corp. Dispenser nozzle receptacle. 2,900,111, 8-18-59, Cl. 222-74.



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- Schey, Robert, and R. E. James, to The New York, Chicago and St. Louis Railroad Co. Load confining skid for use in railway cars. 2,873,692, 2-17-59, Cl. 105-366.
- Schiappa, Antonio, to Moore Fabrics, Inc. Shuttleless loom. 2,918,093, 12-22-59, Cl. 134-124.
- Schiavi, Vincent, to The Formgrading and Press Machine Corp. Form-grading and pressing machines for roadways. 2,902,908, 9-8-59, Cl. 94-39.
- Schibley, Raymond D., to Westinghouse Electric Corp. Oven door window. 2,877,761, 3-17-59, Cl. 126-200.
- Schicht, Heinrich, to W. Ferd Klingelberg Sohn. Gear lapping apparatus. 2,904,934, 9-22-59, Cl. 51-26.
- Schick, Frederick A., and D. W. Erskine, to Allis-Chalmers Mfg. Co. Radiator core for tractor vehicles. 2,902,264, 9-1-59, Cl. 257-130.
- Schick Inc.: See—  
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Gray, Norman A. 2,915,816.  
Kachline, Harold S. 2,910,770.  
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- Schick, Martin J.: See—  
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- Schick, Robert L., and B. E. Robinson, to Toledo Scale Corp. Label printing device. 2,918,000, 12-22-59, Cl. 101-378.
- Schibel, William. Spreader device. 2,874,880, 2-24-59, Cl. 222-177.
- Schieber, John R.: See—  
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- Schieber Mfg. Co.: See—  
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- Schiefer, Ernest H. Portable hand tape folder. 2,916,079, 12-8-59, Cl. 154-1.8.
- Schiel, Fred A., Sr. Pattern forming apparatus. 2,918,096, 12-22-59, Cl. 144-134.
- Schiermeier, Knapel F., to Shell Development Co. Textile lubricants. 2,913,407, 11-17-59, Cl. 252-8.7.
- Schiermeier, Knapel F., to Shell Development Co. Metal working lubricant. 2,913,411, 11-17-59, Cl. 252-33.3.
- Schiese Aktiengesellschaft: See—  
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- Schieser, Warren J., J. F. Kelley, and D. G. Marshall, to National Industrial Products Co. Injection molding machine with weigh-feeder and plunger position control. 2,873,478, 2-17-59, Cl. 18-30.
- Schieser, Warren J., J. F. Kelley, and D. G. Marshall, to National Industrial Product Co. Net weighing machine. 2,890,013, 6-9-59, Cl. 249-16.
- Schies Akt.: See—  
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- Schlewe, Arthur J., and K. Chen, to Westinghouse Electric Corp. Magnetic coupled transistor oscillator. 2,915,710, 12-1-59, Cl. 331-112.
- Schiff, Arthur: See—  
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- Schiff, Robert D. Radiant ceiling heater. 2,897,337, 7-28-59, Cl. 219-34.
- Schiff & Stern, Gesellschaft mit beschränkter Haftung: See—  
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- Schiffman, Bernard. Automobile accessory. 2,869,144, 1-20-59, Cl. 5-94.
- Schiffman, Murray M. Information indicating devices. 2,869,250, 1-20-59, Cl. 35-9.
- Schifter, Herbert E. Double valve construction and the like. 2,905,487, 9-22-59, Cl. 284-19.
- Schiks, Albart, to Opt. Werke C. A. Steinheil Sohn G.m.b.H. Setting device for photographic objectives. 2,907,257, 10-6-59, Cl. 95-64.
- Schilberg, Arnold G., to A. O. Smith Corp. Brake beam and head assembly. 2,888,110, 5-26-59, Cl. 188-219.6.
- Schilberg, Arnold G., to A. O. Smith, Corp. Pressed steel truck wheel. 2,890,911, 6-16-59, Cl. 301-13.
- Schilberg, Arnold G., to A. O. Smith Corp. Method of fabricating vehicle control arms. 2,902,753, 9-8-59, Cl. 29-416.
- Schildhauer, Walter E., and M. Skuza, to The Carborundum Co. Process for producing silicon carbide bodies. 2,907,972, 10-6-59, Cl. 338-332.
- Schildknecht, Calvin E., and H. W. Linde, to Air Reduction Co., Inc. Face mask and similar devices having body-conforming means. 2,917,045, 12-15-59, Cl. 128-141.
- Schiller, Georg: See—  
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- Schiller, James C.: See—  
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- Schiller, Paul. Mechanism for self-propelled machines. 2,867,135, 1-6-59, Cl. 74-700.
- Schiller, Sigge: See—  
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- Schilling, August H.: See—  
Brueckner, Paul. 2,884,584.
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- Schiltz, Bruce A. Overhead traveling dispenser unit. 2,893,422, 7-7-59, Cl. 137-355.17.
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- Schimmel, Henry and M. M. Overskirt. 2,903,707, 9-15-59, Cl. 2-221.
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- Schindei, Arnold, to Bendix Aviation Corp. Pressure fluid system relief valve. 2,882,922, 4-21-59, Cl. 137-491.
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- Schindler, Walter, to Geigy Chemical Corp. New indole derivatives. 2,883,394, 4-21-59, Cl. 260-319.
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Shannon, Jack F., Barnard, and Schink. 2,870,729.
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- Schirmer, Robert M., to Phillips Petroleum Co. Burner. 2,918,118, 12-22-59, Cl. 158-4.
- Schirmer, Walter E., to Clark Equipment Co. Drive mechanism for trailer. 2,872,992, 2-10-59, Cl. 180-14.
- Schirneker, Hans L.: See—  
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- Schirp, Hubert: See—  
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- Schlack, Paul, to Bobingen Aktiengesellschaft für Textil-Faser. Process for making filaments from polyvinyl alcohol polyamide mixture and product. 2,895,786, 7-21-59, Cl. 18-54.
- Schlackman, Joseph, and R. A. Benoit, to Royal Metal Mfg. Co. Overbed table and connecting linkage therefor. 2,906,575, 9-29-59, Cl. 311-38.
- Schladebach, Gert, to A. W. Lehr. Foldable invalid or bath chair. 2,896,693, 7-28-59, Cl. 155-30.
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- Schlador, Calvin. Hook baiter. 2,885,814, 5-12-59, Cl. 43-4.
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- Schlage, Ernest L., to Schlage Lock Co. Lock spindle structure. 2,917,337, 12-15-59, Cl. 292-336.5.
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- Schlatter, Hans A. Resistance welding machine. 2,897,339, 7-28-59, Cl. 219-101.
- Schlatter, Maurice J., and F. G. Lum, to California Research Corp. Certain isophthalic and orthophthalic acid alkyl resins. 2,895,932, 7-21-59, Cl. 260-22.
- Schlatter, Rudolph: *See*—  
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- Schlechter, Edward E. Lens cleaning device. 2,908,923, 10-20-59, Cl. 15-136.
- Schlee, Richard: *See*—  
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- Schlegel, Kurt: *See*—  
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- Schleicher, Arthur R., to Phillips Petroleum Co. Oil recovery by in situ combustion. 2,889,882, 6-9-59, Cl. 166-11.
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- Schleicher, Harold E., to The Arrow-Hart & Hegeman Electric Co. Overload relay switch with ambient temperature compensation. 2,908,786, 10-13-59, Cl. 200-116.
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- Schleifer, Morton D.: *See*—  
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- Schleifer, Morton D., to Bulova Watch Co. Inc. Belt drive means for an oscillating type of dry shaver. 2,903,789, 9-15-59, Cl. 30-43.
- Schlemm, Norman H., Jr., to Westinghouse Electric Corp. Pulse generator. 2,909,681, 10-20-59, Cl. 307-106.
- Schlenker, Arthur, to Bulova Watch Co., Inc. Waterproof watch case. 2,913,869, 11-24-59, Cl. 58-90.
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- Schlesinger, Kurt, to Motorola, Inc. Deflection yoke. 2,881,341, 4-7-59, Cl. 313-76.
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- Schlesinger, Kurt, to Motorola, Inc. Synchronous detecting system for color television. 2,885,467, 5-5-59, Cl. 178-5.4.
- Schlesinger, Kurt, to Motorola, Inc. Electrostatic deflection system. 2,904,712, 9-15-59, Cl. 313-78.
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- Schleyer, E. C. Pump Co., Inc.: *See*—  
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- Schlichting, Herbert R.: *See*—  
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- Schlichting, Karl F., to Nordischer Maschinenbau Rud. Baader. Method of transporting fish for cutting. 2,887,715, 5-26-59, Cl. 17-45.
- Schlichting, Karl F., to Nordischer Maschinenbau Rud. Baader. Tool and guide control apparatus for fish dressing machines. 2,893,052, 7-7-59, Cl. 17-3.
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- Schlieben, Ernest W. Convertiplane with tiltable cylindrical wing. 2,868,476, 1-13-59, Cl. 244-7.
- Schlieker, Willy H., F. Kunz, and W. Pletsch, to Walzwerk Neviges, Willy H. Schlieker & Co. Apparatus for welding and cutting of sheet metal. 2,912,563, 11-10-59, Cl. 219-78.
- Schlienger, Max P., to Universal-Cyclops Steel Corp. Electrode-engaging apparatus. 2,906,799, 9-29-59, Cl. 13-17.
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- Schliephacke, Fridtjof F., to A. Lorenz. Reclining chair and the like. 2,871,918, 2-3-59, Cl. 155-106.
- Schliephacke, Fridtjof F., to A. Lorenz. Seating unit having adjustable leg rest. 2,871,919, 2-3-59, Cl. 155-106.
- Schliephacke, Fridtjof F., to A. Lorenz. Leg rest mechanism for reclining seating units. 2,873,791, 2-17-59, Cl. 155-106.
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- Schliephacke, Fridtjof F., to A. Lorenz. Leg-rest and control arrangement for chair. 2,888,978, 6-2-59, Cl. 155-106.
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- Schliephacke, Fridtjof F., to A. Lorenz. Leg-rest and control arrangement for chair. 2,892,485, 6-30-59, Cl. 155-106.
- Schliephacke, Fridtjof F., to A. Lorenz. Reclining chairs. 2,906,318, 9-29-59, Cl. 155-106.
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- Schliephacke, Fridtjof F., to A. Lorenz. Adjustable reclining chair. 2,918,109, 12-22-59, Cl. 155-106.
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- Schlosser, Carl E., and T. D. Whitenack, Jr., to Engelhard Industries, Inc. High pressure vapor arc lamp. 2,880,369, 3-31-59, Cl. 315-49.
- Schlosser, Johann C., to The De Laval Separator Co. Method and means for the automatic exchange of weft cops on looms. 2,871,889, 2-3-59, Cl. 139-241.
- Schlossmacher, Hubert: See—  
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- Schlossmacher, Hubert, to Kurt Korber & Co. K-G. Device for loosening up tobacco. 2,873,746, 2-17-59, Cl. 131-109.
- Schlossmacher, Hubert, to Kurt Korber & Co. K-G. Method and apparatus for separating and loosening tobacco leaf bundles. 2,873,747, 2-17-59, Cl. 131-149.
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- Schlotmann, Karl, and C. Nitsche, to Maschinenfabrik Stromag G.m.b.H. Flexible couplings. 2,893,223, 7-7-59, Cl. 64-13.
- Schlotthauer, Joseph S., L. E. Snyder, and L. R. Lyons, to Titanium Metals Corp. of America. Separation of halides. 2,897,918, 8-4-59, Cl. 183-119.
- Schlotzhauer, Allan T.: See—  
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- Schlough, Leon H. and W. E. Apparatus for splitting stone slabs and the like. 2,912,970, 11-17-59, Cl. 125-23.
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Saurenman, Dean F., and Lebourg. 2,876,413.  
Schuster, Nick A. 2,878,443.  
Schuster, Nick A. 2,885,632.  
Schuster, Nick A. 2,891,728.  
Soloway, Sidney. 2,880,373.  
Soloway, Sidney. 2,893,213.  
Swain, William H. 2,884,492.  
Tanguy, Denis R. 2,888,309.  
Welz, Wilbur C. 2,884,590.
- Schlumbohm, Peter. Method of pumping fluids centrifugally. 2,877,865, 3-17-59, Cl. 183-63.
- Schlumbohm, Peter. Vacuum flask combination. 2,883,082, 4-21-59, Cl. 215-6.
- Schlumbohm, Peter. Filtration equipment, especially for making coffee. 2,897,970, 8-4-59, Cl. 210-474.
- Schlumbohm, Peter. Apparatus for evaporating a liquid under reduced pressure. 2,909,909, 10-27-59, Cl. 62-268.
- Schlumbohm, Peter. Friction pumps. 2,910,223, 10-27-59, Cl. 230-127.
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- Schlums, Otto W., to Whitin Machine Works. Top roll for drawing mechanism. 2,884,665, 5-5-59, Cl. 19-142.
- Schlums, Otto W., to Whitin Machine Works. Anti-friction top roll. 2,885,247, 5-5-59, Cl. 308-187.
- Schlüter, Heinrich, to Firma Heinrich Schluter. Cigar treating apparatus. 2,885,995, 5-12-59, Cl. 118-5.
- Schmah, Josef: See—  
Magg, Alfred H., Jedlitschka, Schrode, and Schmah. 2,906,138.
- Schmalenbach, Adolf, to Koppers Co., Inc. Process for purification of benzene. 2,898,389, 8-4-59, Cl. 260-674.
- Schmall, Wilbur A., to General Electric Co. Shutter mechanism for combination cooking appliance. 2,912,922, 11-17-59, Cl. 99-340.
- Schmall, Wilbur A., and P. M. Kropp, Jr., to General Electric Co. Flasher unit for cooking appliance. 2,913,563, 11-17-59, Cl. 219-20.
- Schmaus, Siegfried A. H., to American Machine and Metals, Inc. Adjustable linkage for measuring device. 2,918,546, 12-22-59, Cl. 200-83.
- Schmecht, Edward W.: See—  
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- Schmechtig, Paul R.: See—  
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- Schmeken, Heinz: See—  
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- Schmelzer, Albert, L. Nussler, and K.-H. Gehringer, to Farbenfabriken Bayer Akt. Water-insoluble azo dyestuffs and process for their manufacture. 2,878,244, 3-17-59, Cl. 260-164.
- Schmerling, Louis: See—  
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- Schmerling, Louis, to Universal Oil Products Co. Polymerization of olefins to solid polymers. 2,878,240, 3-17-59, Cl. 260—93.7.
- Schmerling, Louis, to Universal Oil Products Co. Bicyclic compounds containing nuclearly substituted halogen. 2,881,223, 4-7-59, Cl. 260—648.
- Schmerling, Louis, to Universal Oil Products Co. Alkylation of non-olefinic hydrocarbons. 2,882,324, 4-14-59, Cl. 260—666.
- Schmerling, Louis, to Universal Oil Products Co. De-arylation of polyarylalcanes. 2,885,452, 5-5-59, Cl. 260—668.
- Schmerling, Louis, to Universal Oil Products Co. Preparations of compounds having a benzyl-benzyl halide structure. 2,886,604, 5-12-59, Cl. 260—649.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of alkylamino aromatic compounds. 2,887,514, 5-19-59, Cl. 260—577.
- Schmerling, Louis, to Universal Oil Products Co. Insecticides and preparation thereof. 2,894,993, 7-14-59, Cl. 260—619.
- Schmerling, Louis, to Universal Oil Products Co. Condensation of aromatic hydrocarbons with polychlorocycloolefins. 2,894,994, 7-14-59, Cl. 260—650.
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- Schmerling, Louis, to Universal Oil Products Co. Preparation of substituted ortho-polymethylene aromatic hydrocarbons. 2,901,517, 8-25-59, Cl. 260—668.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of mono- and diarylphosphines. 2,902,517, 9-1-59, Cl. 260—606.5.
- Schmerling, Louis, to Universal Oil Products Co. Hydrocarbon hydrocracking process and catalyst thereof. 2,905,628, 9-22-59, Cl. 208—112.
- Schmerling, Louis, to Universal Oil Products Co. Hydrocarbon hydrocracking process with a boron chloride and aluminum metal catalyst. 2,905,663, 9-22-59, Cl. 208—108.
- Schmerling, Louis, to Universal Oil Products Co. Condensation of conjugated cycloalkadienes with p-dioxenes and resultant products. 2,905,697, 9-22-59, Cl. 260—340.3.
- Schmerling, Louis, to Universal Oil Products Co. Partial dehalogenation of halobicyclo compounds. 2,905,725, 9-22-59, Cl. 260—648.
- Schmerling, Louis, to Universal Oil Products Co. Preparation of polycyclic halogenated compounds. 2,911,447, 11-3-59, Cl. 260—648.
- Schmerling, Louis, to Universal Oil Products Co. Bicyclic organic compounds containing a large proportion per unit mass of halogen. 2,912,356, 11-10-59, Cl. 167—30.
- Schmerling, Louis, to Universal Oil Products Co. Polymerization of olefins to solid polymers. 2,914,517, 11-24-59, Cl. 260—93.7.
- Schmerling, Louis, to Universal Oil Products Co. Dehydrohalogenation of halobicyclo compounds. 2,914,571, 11-24-59, Cl. 260—648.
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- Schmerling, Louis, and J. P. Luvisi, to Universal Oil Products Co. Self-condensation of haloalkylaromatic compounds. 2,895,997, 7-21-59, Cl. 260—649.
- Schmerling, Louis, and J. P. Luvisi, to Universal Oil Products Co. Nuclear alkylation of aromatic compounds. 2,916,532, 12-8-59, Cl. 260—671.
- Schmertz, William E. *See—*
- Sterick, Harrison D., and Schmertz. 2,910,747.
- Schmertz, William E., to Libbey-Owens-Ford Glass Co. Multiple sheet glazing units. 2,875,794, 3-3-59, Cl. 141—346.
- Schmerzler, Lawrence J. Method and apparatus for extracting pure water. 2,902,414, 9-1-59, Cl. 202—46.
- Schmid, Arthur W. *See—*
- Hughes, Charles W., Schmid, and Hallam. 2,912,941.
- Schmid, Christoph, to Deutsche Erdöl-Aktiengesellschaft. Method of moulding metal cylinders. 2,904,863, 9-22-59, Cl. 22—202.
- Schmid, Hans, and H. Hürlimann, to Landis & Gyr A.G. Remote control receiver for central remote control installations utilizing audio-frequency signals superimposed on the mains network. 2,901,643, 8-25-59, Cl. 307—140.
- Schmid, John H. *See—*
- Baker, Albert A., and Schmid. 2,875,453.
- Schmid, John H., to J. A. Zurn Mfg. Co. Combination wall mounted water closet and flush tank with siphon leg. 2,878,483, 3-24-59, Cl. 4—14.
- Schmid, Leonard J., to General Motors Corp. Manufacture of bearings. 2,908,056, 10-13-59, Cl. 22—123.
- Schmid, Leopold F. Steering wheel. 2,894,413, 7-14-59, Cl. 74—552.
- Schmid, Max *See—*
- Mory, Rudolf, Stoecklin, and Schmid. 2,914,539.
- Schmid, Max, and W. Mueller, to Ciba Ltd. Fat-soluble azodyestuffs. 2,888,452, 5-26-59, Cl. 260—163.
- Schmid, Max, and H. Streiff, to Ciba Ltd. New acid amide azo-pigment-dyestuffs. 2,888,453, 5-26-59, Cl. 260—174.
- Schmid, Otto, L. Biele, and W. Seifried, to Oesterreichische Stickstoffwerke Akt. Process of making bis-carbamic acid ester compounds. 2,878,279, 3-17-59, Cl. 260—482.
- Schmid, Roy J., to General Motors Corp. Hand control mechanism for vehicles. 2,874,587, 2-24-59, Cl. 74—489.
- Schmid, William *See—*
- Allison, Blaine M., and Schmid. 2,894,284.
- Schmid, Wolfgang *See—*
- Voester, Reinhold and W., and Schmid. 2,872,695.
- Schmid, Wolfgang K. Electric tracer control system for machines such as machine tools. 2,887,635, 5-19-59, Cl. 318—19.
- Schmidinger, Joseph. Thermo-responsive switch. 2,906,835, 9-29-59, Cl. 200—88.
- Schmidle, Claude J. *See—*
- Mausfield, Richard C., Morrison, and Schmidle. 2,874,119.
- Schmidlein, Joseph A. *See—*
- Kun, Kenneth A., and Schmidlein. 2,918,452.
- Schmidlin, Julius *See—*
- Reichstein, Tadeus, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,904,545.
- Wettstein, Albert, Anner, and Schmidlin. 2,883,378.
- Schmidt, Alfred O., to Kearney & Trecker Corp. Lubricant distributor. 2,884,838, 5-5-59, Cl. 90—11.
- Schmidt, Arthur B., to Western Electric Co., Inc. Apparatus for electrically testing articles. 2,877,411, 3-10-59, Cl. 324—62.
- Schmidt, Benjamin F. Fluid actuated mercury piston pump. 2,883,935, 4-28-59, Cl. 103—44.
- Schmidt, Benjamin F. Fish hook clamping tool. 2,918,744, 12-29-59, Cl. 43—4.
- Schmidt, Bertil J. M., and K. G. Olsson, to Casius Corp. Ltd. Plaster composition. 2,905,566, 9-22-59, Cl. 106—170.
- Schmidt, Bertram A. Flywheel system. 2,914,962, 12-1-59, Cl. 74—572.
- Schmidt, Carl O., Jr. *See—*
- Reser, George G., Pickens, and Schmidt. 2,885,726.
- Schmidt, Carl O., Jr., to The Cincinnati Butchers Supply Co. Hide puller. 2,897,537, 8-4-59, Cl. 17—21.
- Schmidt, Carl O., Jr., to The Cincinnati Butcher's Supply Co. Closure means. 2,900,104, 8-18-59, Cl. 220—57.
- Schmidt, Carl O., Jr., to The Cincinnati Butchers Supply Co. Excoriator. 2,902,711, 9-8-59, Cl. 17—21.
- Schmidt, Carl O., Jr., to The Cincinnati Butchers' Supply Co. Food chopper knife mounting. 2,905,217, 9-22-59, Cl. 146—96.
- Schmidt, Charles L., and C. K. Stoddard, to National Lead Co. Continuous process for the production of titanium metal. 2,882,143, 4-14-59, Cl. 75—84.5.
- Schmidt, Clayton E., to Schmidt Mfg. Co. Reed frame. 2,869,587, 1-20-59, Cl. 139—192.
- Schmidt, Edward G. *See—*
- Stone, Carl R., and Schmidt. 2,875,977.
- Schmidt, Edward G., and J. E. Svabek, Jr., to Crane Co. Flapper valve. 2,876,458, 3-10-59, Cl. 4—57.
- Schmidt, Edward R., to General Dynamics Corp. Telephone system subscriber line insulation testing circuit. 2,868,899, 1-13-59, Cl. 179—175.2.
- Schmidt, Edwin L. *See—*
- Cornwell, John W., Haselton, and Schmidt. 2,883,106.
- Schmidt, Erich *See—*
- Steinmetz, Lawrence, and Schmidt. 2,908,908.
- Schmidt, Erich, and K. Wamsler, to Farbenfabriken Bayer Aktiengesellschaft. Carbodiimides. 2,905,713, 9-22-59, Cl. 260—551.
- Schmidt, Erich, F. Moosmüller, and R. Schnegg, to Farbenfabriken Bayer Aktiengesellschaft. Process of improving the dyeing properties of cellulose, cellulose esters and esters by reaction with a carbodiimide compound employing a copper salt catalyst. 2,906,749, 9-29-59, Cl. 260—231.
- Schmidt, Ernest C. *See—*
- Bridgman, Joseph M., and Schmidt. 2,913,975.
- Cooper, Hugh S., Schaefer, and Schmidt. 2,877,110.
- Schmidt, Ernst *See—*
- Lebsanft, Kurt, and Schmidt. 2,901,383.
- Schmidt, Ernst, to Rheinbau G.m.b.H. Lattice girder. 2,879-661, 3-31-59, Cl. 72—61.
- Schmidt, Eva-Marie M. H. *See—*
- Schmidt, Ferdinand, and Eggersgluess. 2,868,589.
- Schmidt, Ferdinand, deceased, and W. Eggersgluess; E.-M. M. H. Eggersgluess, nee Schmidt, sole heir of said F. Schmidt. Arrangement for removing stable dung from stables. 2,868,589, 1-13-59, Cl. 302—14.
- Schmidt, Frank P. Pulse control of programming device for aircraft. 2,867,394, 1-6-59, Cl. 244—77.
- Schmidt, Fred A. Tension control for web printing machines. 2,892,597, 6-30-59, Cl. 242—75.42.
- Schmidt, Fred H. *See—*
- Sloan, David H., Yockey, and Schmidt. 2,882,406.
- Schmidt, Fred H., to United States of America, Atomic Energy Commission. Calutron protective circuit. 2,888,564, 5-26-59, Cl. 250—41.9.
- Schmidt, Frederick G. *See—*
- Edmunds, William H., and Schmidt. 2,882,359.
- Schmidt, Frederick G., to I-T-E Circuit Breaker Co. Motor operated circuit breakers. 2,870,288, 1-20-59, Cl. 200—92.
- Schmidt, Frederick G., to I-T-E Circuit Breaker Co. Sealing means for molded case breaker operating handle. 2,878,347, 3-17-59, Cl. 200—168.
- Schmidt, Fritz *See—*
- Eitel, Kurt, Schmidt, and Mauthe. 2,897,166.
- Schmidt, Fritz, to International Standard Electric Corp. Zone prohibiting circuit. 2,897,277, 7-28-59, Cl. 179—18.
- Schmidt, George S. Quiver. 2,897,864, 8-4-59, Cl. 150—1.5.



- Schmidt, Gunter, to International MacGregor Organization (I. M. G. O.). Device for controlling hatch-covers and like panels on ships, railway-cars and the like with the assistance of an endless, driven chain. 2,869,859, 1-20-59, Cl. 268-18.
- Schmidt, Gunter. Stepless change speed transmission. 2,913,916, 11-24-59, Cl. 74-230.17.
- Schmidt, Hans, to J. P. Bemberg Akt. Protective separator for cone-bobbins. 2,876,898, 3-10-59, Cl. 206-65.
- Schmidt, Hans, and G. Dunkel, to Licentia Patent-Verwaltungs-G.m.b.H. Method for producing twin pistons. 2,896,316, 7-82-59, Cl. 29-411.
- Schmidt, Heinz, and H. Fischer, to Taylorix Organisation, Stiegler, Hausser & Co. Feed-in mechanism or attachment for bookkeeping, calculating and like machines. 2,887,207, 5-19-59, Cl. 197-128.
- Schmidt, Henry, Jr., and R. F. Ledford, to Industrial Filter & Pump Mfg. Co. Filtering apparatus. 2,901,115, 8-25-59, Cl. 210-331.
- Schmidt, Jacob H. Tapered-shaft and hub-element locking and releasing means. 2,876,573, 3-10-59, Cl. 41-9.
- Schmidt, Jacob H. Electrical switches. 2,899,513, 8-11-59, Cl. 200-67.
- Schmidt, Johann H. F. D.: See—  
Nieuwenhuis, Willem E., and Schmidt. 2,882,132.
- Schmidt, John: See—  
Baker, Edward G., Obszarny, and Schmidt. 2,882,367.
- Schmidt, John A., to Sierra Electronic Corp. Tuning assembly. 2,878,680, 3-24-59, Cl. 74-10.
- Schmidt, Josef, and H. Weber, to Firma Carl Still. Process for recovering low boiling point hydrocarbons. 2,894,601, 7-14-59, Cl. 183-114.6.
- Schmidt, Josef, H. Weber, and H. Von Holt, to Firma Carl Still. Process for recovering low boiling point hydrocarbons, especially ethylene. 2,909,579, 10-20-59, Cl. 260-683.
- Schmidt, Joseph J.: See—  
McCauley, Norman, and Schmidt. 2,877,756.
- Schmidt, Joseph J. Piston rings. 2,867,482, 1-6-59, Cl. 309-44.
- Schmidt, Karl H., to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Room disinfection by means of volatile substances in the form of aerosols. 2,900,301, 8-18-59, Cl. 167-39.
- Schmidt, Karl-Heinz, and R. Heep, to Rand-Goetze Corp. V-shaped sealing ring. 2,893,800, 7-7-59, Cl. 309-44.
- Schmidt, Karl, Metallschmelzwerk G.m.b.H.: See—  
Schmidt, Werner. 2,890,039.
- Schmidt, Knute M.: See—  
Bley, Rudolph S., Carter, Edgar, Graybeal, and Schmidt. 2,898,627.
- Schmidt, Leon A.: See—  
Rockstrom, Leonard, and Schmidt. 2,897,893.
- Schmidt, Leon A., and L. Rockstrom, to Cameron Machine Co. Counter roll stripper. 2,877,960, 3-17-59, Cl. 242-68.
- Schmidt, Lewis W., small interests to numerous assignees. Beet impelling and deflecting unit. 2,884,975, 5-5-59, Cl. 146-85.
- Schmidt Lithograph Co.: See—  
Schmidt, Morton. 2,898,105.
- Schmidt, Louis F.: See—  
Hewitt, John E., Schmidt, and Gardner. 2,868,924.
- Schmidt, Ludwig. Fishing line float. 2,876,581, 3-10-59, Cl. 43-44.95.
- Schmidt, Ludwig. Fishing float. 2,876,582, 3-10-59, Cl. 43-44.95.
- Schmidt, Ludwig, and H. Scheffler, to C. H. Boehringer Sohn. Central nervous system stimulant. 2,892,753, 6-30-59, Cl. 167-65.
- Schmidt Mfg. Co.: See—  
Schmidt, Clayton E. 2,869,587.
- Schmidt, Maximilian P., and O. Süss. Light-sensitive material for the photomechanical reproduction and process for the production of images. 2,907,653, 10-6-59, Cl. 96-33.
- Schmidt, Morton, to Schmidt Lithograph Co. Pallet for sheet feeding machine. 2,898,105, 8-4-59, Cl. 271-62.
- Schmidt, Paul.: See—  
Druey, Jean, and Schmidt. 2,868,803.
- Schmidt, Paul. Pulse jet engine with acceleration chamber. 2,872,780, 2-10-59, Cl. 60-35.6.
- Schmidt, Paul. Overhead toolbox. 2,903,316, 9-8-59, Cl. 312-253.
- Schmidt, Paul F., to Philco Corp. Electrochemical method and solution therefor. 2,909,470, 10-20-59, Cl. 204-14.
- Schmidt, Reinhold C., Jr. Machine tool accessory. 2,908,303, 10-13-59, Cl. 144-290.
- Schmidt, Robert C., and J. C. Filmer, to Varian Associates. Charged particle emitter apparatus. 2,888,591, 5-26-59, Cl. 313-305.
- Schmidt, Samuel S. Automatic hydraulic power unit. 2,896,410, 7-28-59, Cl. 60-52.
- Schmidt, Stanley A., and F. H. Hardy, to General Electric Co. Meter mounting. 2,880,380, 3-31-59, Cl. 317-109.
- Schmidt, Theodore F. Folding stand. 2,867,485, 1-6-59, Cl. 311-84.
- Schmidt, Vernon E., to The Baldwin Piano Co. Code generator. 2,907,996, 10-6-59, Cl. 340-345.
- Schmidt, Warren J.: See—  
Mindt, Frederick E., and Schmidt. 2,900,603.
- Schmidt, Warren J., to Westinghouse Electric Corp. Electrical measuring device. 2,871,421, 1-27-59, Cl. 317-167.
- Schmidt, Warren J., and F. V. Kadri, to Westinghouse Electric Corp. Alternating current responsive devices. 2,871,448, 1-27-59, Cl. 324-138.
- Schmidt, Warren J., and W. Axman, to Westinghouse Electric Corp. Magnetic damping assembly. 2,879,479, 3-24-59, Cl. 324-152.
- Schmidt, Warren J., and W. Axman, to Westinghouse Electric Corp. Meter circuit protective means. 2,889,494, 6-2-59, Cl. 317-108.
- Schmidt, Warren J., and E. T. Rudy, to Westinghouse Electric Corp. Electrical measuring device. 2,900,604, 8-18-59, Cl. 324-138.
- Schmidt, Werner, to Karl Schmidt Metallschmelzwerk G.m.b.H. Apparatus for the introduction of substances into liquids of high specific gravity. 2,890,039, 6-9-59, Cl. 266-34.
- Schmidt, Wilhelm: See—  
Baffrey, Anton R., Hofmeir, Schmidt, and Hormann. 2,895,034.
- Schmidt, Willi, to Alfred Teves Maschinen- und Armaturen-fabrik K.G. Linkage for vehicle power drives. 2,911,850, 11-10-59, Cl. 74-526.
- Schmidt, William C., to The Cincinnati Butchers' Supply Co. Agitating apparatus. 2,869,840, 1-20-59, Cl. 259-45.
- Schmidt, William C., to The Cincinnati Butchers' Supply Co. Self locking agitator assembly. 2,869,842, 1-20-59, Cl. 259-109.
- Schmidt, William C., to The Cincinnati Butchers' Supply Co. Agitating apparatus. 2,879,043, 3-24-59, Cl. 259-45.
- Schmidt, William D., and A. F. Townsend, to The Hald Machine Co. Grinding machines. 2,909,009, 10-20-59, Cl. 51-88.
- Schmidt, Willy A., and R. F. Coles, to General Aniline & Film Corp. 5-amino-8-hydroxyquinolines as coupling components for azine dye images. 2,886,436, 5-12-59, Cl. 96-55.
- Schmidt, Wolfgang: See—  
Lautenschlager, Hans, Friederich, Schmidt, and Dachs. 2,907,755.
- Schmidt-Barbo, Dieter: See—  
Ruschig, Heinrich, Siedel, Leditschke, Schorr, Schmidt-Barbo, and Lammier. 2,875,205.
- Schmidt-Nickels, Wilhelm: See—  
Randall, David I., and Schmidt-Nickels. 2,870,168.
- Schmidt-Nickels, Wilhelm, and C. M. Smith, to General Aniline & Film Corp. Polypyrazolone pigments. 2,903,462, 9-8-59, Cl. 260-310.
- Schmidt-Thomé, Josef: See—  
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- Schmidt-Thomé, Georg: See—  
Pascheda, Heinrich, and Schmidt-Thomé. 2,879,305.
- Schmied, Joseph M., to St. Regis Paper Co. Method and apparatus for setting up box blanks. 2,868,093, 1-13-59, Cl. 93-49.
- Schmieding, Warren H. F.: See—  
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- Vogel, Arthur E. 2,903,271.
- Schmier, Jacob, to Rodale Mfg. Co., Inc. Combination plug-in electrical socket and switch. 2,905,779, 9-22-59, Cl. 200-51.17.
- Schmit, Roger A., to Teletype Corp. Backspace mechanism. 2,886,638, 5-12-59, Cl. 178-25.
- Schmitt, Friedrich: See—  
Heyden, Rudi, Plapper, and Schmitt. 2,890,096.
- Schmitt, Hans, G. Siebel, D. Altenpohl, H. Hug, and J. Nuesch, to Aluminium-Industrie-Aktien-Gesellschaft. Aluminum foil for electrolytic condensers. 2,886,432, 5-12-59, Cl. 75-138.
- Schmitt, James C.: See—  
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- Schmitt, Joy B.: See—  
Peeps, Donald J., and Schmitt. 2,905,198.
- Schmitt, Milton G.: See—  
Downs, Martin L., and Schmitt. 2,868,685.
- Schmitt, Otto L., and F. E. Lawrence, to Larré Laboratories, Inc. Cervical cannulas. 2,896,614, 7-28-59, Cl. 128-131.
- Schmitt, Robert O., to The Buckeye Cellulose Corp. Miscella refining. 2,878,275, 3-17-59, Cl. 260-426.
- Schmitt, William F., to Sperry Rand Corp. Shifting register with passive intermediate storage. 2,888,667, 5-26-59, Cl. 340-174.
- Schmitter, Walter P., to The Falk Corp. Speed reducer. 2,869,384, 1-20-59, Cl. 74-420.
- Schmitter, Walter P., to The Falk Corp. Variable speed transmission. 2,874,582, 2-24-59, Cl. 74-230.17.
- Schmitter, Walter P., to The Falk Corp. Shaft coupling. 2,893,224, 7-7-59, Cl. 64-14.
- Schmitter, Walter P., to The Falk Corp. Flexible shaft-coupling. 2,907,188, 10-6-59, Cl. 64-11.
- Schmitz, Adolf, and G. Cramer, to Th. Goldschmidt, A.G. Amphoteric surface-active organic compounds. 2,907,791, 10-6-59, Cl. 260-519.
- Schmitz, Andreas: See—  
Graulich, Wilhelm, Schmitz, Berlenbach, and Muller. 2,897,101.
- Schmitz, Doris R., to Bell Telephone Laboratories, Inc. Miniature inductive assembly. 2,889,524, 6-2-59, Cl. 336-192.



- Schmitz, Howard E., to Shell Development Co. Method of inhibiting squawking in mineral oil transmission fluids. 2,913,415, 11-17-59, Cl. 252-78.
- Schmitz, James E. and V. O. Combination foot controlled swing cut-off miter and rip saw. 2,872,955, 2-10-59, Cl. 143-46.
- Schmitz, John V., and E. J. Lawton, to General Electric Co. Process of applying protective coatings by means of high energy electrons. 2,900,277, 8-18-59, Cl. 117-93.
- Schmitz, Joseph: *See*—  
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- Schmitz-Josten, Robert, to Farbenfabriken Bayer Aktiengesellschaft. Process for polymerizing ethylenically unsaturated compounds using a sulfur containing catalyst. 2,900,360, 8-18-59, Cl. 260-45.4.
- Schmitz, Ludwig: *See*—  
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- Schmitz, Paul: *See*—  
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- Schmitz, Richard P. Post hole tamper. 2,884,842, 5-5-59, Cl. 94-49.
- Schmitz, Vincent O.: *See*—  
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- Schmitz, William R.: *See*—  
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- Hawkinson, Alfred T., and Schmitz. 2,910,504.
- Schmolka, Irving R., to Colgate-Palmolive Co. Purification of sulfated higher aliphatic acid esters. 2,894,009, 7-7-59, Cl. 260-400.
- Schmorde, John H., to L. C. Grover. Multiposter. 2,876,568, 3-10-59, Cl. 40-36.
- Schmoyer, Richard L., to Shick Inc. Head guard for electric shaver. 2,878,563, 3-24-59, Cl. 30-90.
- Schmuck, Peter, to Firma Contina Bureaux- und Rechenmaschinenfabrik Aktiengesellschaft. Lens mount holder for optical elements. 2,898,832, 8-11-59, Cl. 95-64.
- Schmued, Edgar: *See*—  
Villepigue, Julius G., and Schmued. 2,869,464.
- Schmued, Edgar, to Northrop Aircraft, Inc. Rocket and launching mechanism. 2,871,762, 2-3-59, Cl. 89-1.7.
- Schmutz, Jean, to The Wander Co. Thioxanthene derivative. 2,905,590, 9-22-59, Cl. 167-65.
- Schmutz, Julius, to Schmutz Mfg. Co., Inc. Printing roll and strip. 2,871,783, 2-3-59, Cl. 101-377.
- Schmutz, Julius, to Schmutz Mfg. Co., Inc. Ink fountain. 2,887,048, 5-19-59, Cl. 101-363.
- Schmutz Mfg. Co., Inc.: *See*—  
Schmutz, Julius. 2,871,783.  
Schmutz, Julius. 2,887,048.
- Schmutzler, Alfred F., to American Cyanamid Co. Alkyd resins containing reactive pigments stabilized with alkyl esters of phosphoric acid. 2,881,145, 4-7-59, Cl. 260-22.
- Schnabel, Ernst, to Resistoflex Corp. Heated hose assembly. 2,883,513, 4-21-59, Cl. 219-46.
- Schnabel, Fred C. Article holder for sun visors. 2,908,434, 10-13-59, Cl. 224-42.42.
- Schnabel, Herbert W.: *See*—  
Rinker, Royden C., and Schnabel. 2,893,854.
- Schnable, David E.: *See*—  
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- Schnable, George L., to Philco Corp. Method of chemically plating metals. 2,873,214, 2-10-59, Cl. 117-130.
- Schnable, George L., to Philco Corp. Method of chemically plating metals. 2,873,216, 2-10-59, Cl. 117-200.
- Schnable, George L., to Philco Corp. Method of electrodepositing metals. 2,873,233, 2-10-59, Cl. 204-32.
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- Schnable, George L., to Philco Corp. Method of fabricating semiconductor devices. 2,897,587, 8-4-59, Cl. 29-487.
- Schnacke, Richard N., to Kaiser Aluminum & Chemical Corp. Apparatus for continuous casting. 2,891,291, 6-23-59, Cl. 22-57.2.
- Schnacke, Walter H. Internal combustion engine starter. 2,868,186, 1-13-59, Cl. 123-185.
- Schnaith, Robert F., and M. L. Kalinowski, to Standard Oil Co. Color stable heater oils. 2,906,611, 9-29-59, Cl. 44-72.
- Schnapf, Abraham: *See*—  
Leidy, Harold W., Brelsford, and Schnapf. 2,902,597.
- Schnapp, James, and H. Werner, to Ronson Corp. Power driven shaver and hair trimmer. 2,873,520, 2-17-59, Cl. 30-34.
- Schneeberger, Richard F., and H. O. Schwartz, to Rudolph Wurlitzer Co. Electric organ control circuit. 2,913,947, 11-24-59, Cl. 84-1.08.
- Schneck, Lawrence A.: *See*—  
Treffeisen, Donal R., and Schneck. 2,891,742.
- Schnee, Marvin, and R. J. Wohl. End grip retainer for electron tubes. 2,877,975, 3-17-59, Cl. 248-316.
- Schneeberger, Robert J., to Westinghouse Electric Corp. dolph Wurlitzer Co. Organ structure and filter panel. 2,895,366, 7-21-59, Cl. 84-1.
- Schneeberger, Robert J., to Westinghouse Electric Corp. Loaded dielectric X-ray detector. 2,879,400, 3-24-59, Cl. 250-83.3.
- Schneeberger, Robert J., to Westinghouse Electric Corp. Bombardment conducting target. 2,900,555, 8-18-59, Cl. 313-355.
- Schneeman, Justin G. Vertical industrial X-ray fluoroscope. 2,894,140, 7-7-59, Cl. 250-52.
- Schnegg, Robert: *See*—  
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- Schneible, Claude B., Co., Inc.: *See*—  
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- Schneider, A., G.m.b.H.: *See*—  
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- Schneider, Abraham: *See*—  
Donnell, Conrad K., Kennedy, and Schneider. 2,890,994.  
Johnson, Herbert L., Reif, and Schneider. 2,914,470.
- Schneider, Abraham, to Sun Oil Co. Polymerization of ethylene with an aluminum halide and a metal oxide as catalyst. 2,878,241, 3-17-59, Cl. 260-94.9.
- Schneider, Abraham, to Sun Oil Co. Removal of sulfur, nitrogen and oxygen compounds with organic isocyanate and water. 2,907,710, 10-6-59, Cl. 208-236.
- Schneider, Abraham, and A. P. Stuart, to Sun Oil Co. Refines lubricating oil with sulfur trioxide and alkali. 2,885,355, 5-5-59, Cl. 208-285.
- Schneider, Abraham, and C. K. Donnell, to Sun Oil Co. Hydrocarbon conversion. 2,908,628, 10-13-59, Cl. 208-65.
- Schneider, Alfred, to A. Schneider G.m.b.H. Dry size and method of making the same. 2,915,410, 12-1-59, Cl. 106-239.
- Schneider, Arthur H. Sign. 2,902,786, 9-8-59, Cl. 40-144.
- Schneider Brothers Co.: *See*—  
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- Schneider, Carl R.: *See*—  
Leonard, Carl L., Schneider, and Sheppard. 2,906,372.
- Schneider, Caspar C. Process for the manufacture of hollow articles from resin impregnated cellulosic materials. 2,877,498, 3-17-59, Cl. 18-47.5.
- Schneider, Charles. Foldable sofa bed. 2,878,490, 3-24-59, Cl. 5-2.
- Schneider, Charles, and I. Penn, to Penn Cork & Closures Inc. Closure. 2,884,148, 4-28-59, Cl. 215-6.
- Schneider, Dana J., and F. H. Tennis, to Hydraulic Unit Specialties Co. Control valve for fluid pressure operated mechanisms. Re. 24,734, 11-17-59, Cl. 137-621.
- Schneider, Edward B., to North American Aviation, Inc. Method of heat treating metals employing an oxidation scale inhibitor. 2,900,272, 8-18-59, Cl. 117-46.
- Schneider, Edward B., and E. G. Stevens, to North American Aviation, Inc. High temperature protective coating for metals. 2,898,253, 8-4-59, Cl. 148-13.1.
- Schneider, Emmor V., to The Alliance Mfg. Co., Division of Consolidated Electronics Industries Corp. Brush holder structure. 2,883,567, 4-21-59, Cl. 310-247.
- Schneider, Emmor V., to The Alliance Mfg. Co., Division of Consolidated Electronics Corp. Armature construction. 2,916,684, 12-8-59, Cl. 318-325.
- Schneider, Ernst W., to Societe d'Equipements Industriels et Laitiers. Comminuting machine. 2,889,118, 6-2-59, Cl. 241-46.
- Schneider, Frederick E. W., to Engel & Gibbs Ltd. Erection systems for gyroscopes. 2,900,826, 8-25-59, Cl. 74-5.47.
- Schneider, George W., to Milton Roy Co. Control system for regulating the position of a control element. 2,880,705, 4-7-59, Cl. 121-41.
- Schneider, Gerhard O. K., to General Dynamics Corp. Electronic switching telephone system. 2,886,656, 5-12-59, Cl. 179-27.
- Schneider, Hans: *See*—  
Pleuger, Friedrich W., and Schneider. 2,876,370.
- Schneider, Hans, to Sulzer Freres, Societe Anonyme. Precision casting mold and method of making the same. 2,875,485, 3-3-59, Cl. 22-193.
- Schneider, Harold N.: *See*—  
Greenwood, Allan, Lee, and Schneider. 2,892,912.
- Schneider, Harold N., to General Electric Co. Fluid blast circuit interrupter. 2,897,324, 7-28-59, Cl. 200-148.
- Schneider, Harry D., to United States Rubber Co. Building form. 2,908,040, 10-13-59, Cl. 18-41.
- Schneider, Hedwig: *See*—  
Schneider, Hermann and Hedwig. 2,867,357.
- Schneider, Heinrich, to Schneider Brothers Co. Hydraulic turbo brakes. 2,889,013, 6-2-59, Cl. 188-90.
- Schneider, Helmut G.: *See*—  
Goering, Hans G., Schneider, and Spillane. 2,914,357.
- Schneider, Helmut G., D. W. Young, and J. P. Rocca, to Esso Research and Engineering Co. Wax-polyethylene-polyisobutylene. 2,876,204, 3-3-59, Cl. 260-28.5.
- Schneider, Henry J.: *See*—  
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- Schneider, Henry J., to Rohm & Haas Co. Preparation of vinyl sulfides. 2,890,224, 6-9-59, Cl. 260-329.
- Schneider, Henry J., to Rohm & Haas Co. Vinylolation of mercaptans. 2,910,480, 10-27-59, Cl. 260-306.
- Schneider, Herbert A., to Bell Telephone Laboratories, Inc. Self-correcting pulse circuits. 2,876,352, 3-3-59, Cl. 250-27.
- Schneider, Herbert A., to Bell Telephone Laboratories, Inc. Frequency divider circuits. 2,888,557, 5-26-59, Cl. 250-27.
- Schneider, Hermann, and Hedwig, nee Hommel. Fillable container. 2,867,357, 1-6-59, Cl. 222-212.



- Schneider, Jacob. Coupling for rock drill. 2,904,312, 9-15-59, Cl. 255—64.
- Schneider, Jos., & Co.: *See*—  
Klemt, Gunter. 2,879,693.  
Klemt, Gunter. 2,906,172.  
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- Schneider, Jos., & Co., Optische Werke: *See*—  
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- Schneider, Kurt R., to Eureka Specialty Printing Co. Inter-mittent driving mechanism. 2,915,160, 12-1-59, Cl. 192—139.
- Schneider, Kurt R., K. and W. C. Hein, to Eureka Specialty Printing Co. Article feeding apparatus. 2,907,567, 10-6-59, Cl. 271—35.
- Schneider, Michael, to Seasonmaster, Inc. Door hinge structure. 2,903,735, 9-15-59, Cl. 16—176.
- Schneider, Oscar: *See*—  
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- Schneider, Oscar K., to Plan Hold Corp. Friction-type binder. 2,869,210, 1-20-59, Cl. 24—251.
- Schneider Paas, Alfred C.: *See*—  
Leimbach, Johann, and Schneider Pass. 2,879,687.
- Schneider, Paul L., H. J. Cromwell, and W. H. Taylor, to General Motors Corp. Clutch for engine starting device. 2,900,057, 8-18-59, Cl. 192—45.1.
- Schneider, Paul L., H. J. Cromwell, and W. H. Taylor, to General Motors Corp. Clutch for an engine starting device. 2,904,148, 9-15-59, Cl. 192—45.1.
- Schneider, Rachelle: *See*—  
Spiegel, Israel, and Schneider. 2,895,971.
- Schneider, Ralph J., to Minneapolis-Honeywell Regulator Co. Switch apparatus. 2,895,032, 7-14-59, Cl. 200—152.
- Schneider, Richard C.: *See*—  
Winslow, James C., and Schneider. 2,911,860.
- Schneider, Richard E., to Columbia-Southern Chemical Corp. Production of alkaline earth metal silicates. 2,905,531, 9-22-59, Cl. 23—110.
- Schneider, Robert A.: *See*—  
Altemus, Daniel F., and Schneider. 2,871,031.
- Schneider, Rudolf, to Farbenfabriken Bayer Akt. Distillation apparatus. 2,895,886, 7-21-59, Cl. 202—158.
- Schneider, Samuel F. Anti-popping device for still picture film projectors. 2,917,855, 12-22-59, Cl. 40—152.
- Schneider, Stanley: *See*—  
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Moore, James K., and Schneider. 2,909,680.
- Schneider, Stanley, to Burroughs Corp. Transistor-magnetic core relay complementing flip flop. 2,903,601, 9-8-59, Cl. 307—88.
- Schneider, Tony,  $\frac{1}{2}$  to H. J. Gerdin. Container opener. 2,910,769, 11-3-59, Cl. 30—1.5.
- Schneider, Wilhelm. Dial-indicating slide gauge for millimeters and inches. 2,898,684, 8-11-59, Cl. 33—147.
- Schneider, William P.: *See*—  
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Magerlein, Barney J., Spero, Hogg, and Schneider. 2,884,421.  
Spero, George B., Magerlein, Schneider, and Hogg. 2,884,420.
- Schneider, William P., to The Upjohn Co. Producing 17-hydroxy 20-keto steroids by the use of osmium tetroxide and an organic polyvalent iodo oxide. 2,875,217, 2-24-59, Cl. 260—397.45.
- Schneider, Wilma J.: *See*—  
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- Schneiderman, Abraham: *See*—  
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- Schneidewind, Edward A., to General Motors Corp. Window regulator mechanism. 2,873,612, 2-17-59, Cl. 74—89.
- Schneier, Max., and A. O. Levine, to Aansworth, Ltd. Drop leaf shirt holder. 2,881,964, 4-14-59, Cl. 223—88.
- Schneierson, A. J., & Son, Inc.: *See*—  
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- Schneithorst Catering Co.: *See*—  
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- Schnell, Carl,  $\frac{1}{2}$  to The Griffith Laboratories, Inc. Method of comminuting meat. Re. 24,683, 8-18-59, Cl. 99—108.
- Schnell, Carl. Plucking device for feathers, hairs or the like. 2,900,661, 8-25-59, Cl. 17—11.1.
- Schnell, Carl,  $\frac{1}{2}$  to The Griffith Laboratories, Inc. Com-minuting machine. 2,906,310, 9-29-59, Cl. 146—192.
- Schnell, Charles T., to Industrialtiebolaget Luxor. Phonographs for placing the pick-up arm needle in the correct initial playing position on a sound disc record to be played. 2,914,329, 11-24-59, Cl. 274—15.
- Schnell, Ernst E.: *See*—  
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- Schnell, Ernst E., to Deere & Co. Clutch for grain drill. 2,881,883, 4-14-59, Cl. 192—23.
- Schnell, Ernst E., to Deere & Co. Grain drill gate operating arrangement. 2,890,666, 6-16-59, Cl. 111—67.
- Schnell, Eugen: *See*—  
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- Schnell, Hermann: *See*—  
Raichle, Karl, Schwebberg, and Schnell. 2,879,249.
- Schnell, Hermann, to Farbenfabriken Bayer Akt. Denture and process of making. 2,886,890, 5-19-59, Cl. 32—2.
- Schnell, Hermann, and D. Steuer, to Farbenfabriken Bayer Akt. Prostheses and processes for their production. 2,874,466, 2-24-59, Cl. 32—2.
- Schnell, Hermann, K. Raichle, and W. Biedermann, to Farbenfabriken Bayer Aktiengesellschaft. Process for the manufacture of trimethylene oxide compounds containing hydroxyl groups. 2,910,483, 10-27-59, Cl. 260—333.
- Schnell, Hermann, J. Nentwig, K. Hintzmann, K. Raichle, and W. Biedermann,  $\frac{1}{2}$  to Farbenfabriken Bayer Aktien-gesellschaft, and  $\frac{1}{2}$  to Mobay Chemical Co. Surface active polymeric trimethylene oxide derivatives with polyether side-chains, and process for producing same. 2,917,468, 12-15-59, Cl. 260—2.
- Schnell, Steve, to Wagner Electric Corp. Ratio changer. 2,876,625, 3-10-59, Cl. 60—54.5.
- Schneller, George H.: *See*—  
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- Schneller, Joseph W., and R. H. Slowinski, to National Gypsum Co. Wall lath finishing clip. 2,893,234, 7-7-59, Cl. 72—46.
- Schnellpressenfabrik Akt. Heidelberg: *See*—  
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Büttner, Artur. 2,895,414.  
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Büttner, Artur. 2,901,179.
- Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft: *See*—  
Schuenemann, Hans-Bernhard, and Schwabach. 2,909,070.  
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- Schnering, Charles J.: *See*—  
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- Schneyer, Raymond G.: *See*—  
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- Schnick, Arthur W.: *See*—  
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- Schnider, Louis M., and R. L. Spichtig. Egg cleaning machine. 2,880,432, 4-7-59, Cl. 15—3.16.
- Schnider, Otto: *See*—  
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Lutz, August H., and Schnider. 2,916,498.
- Schnider, Otto, and R. Urban, to Hoffmann-La Roche Inc. 2,4-dimethyl-5-sulfanilamidopyrimidine. 2,900,218, 6-9-59, Cl. 260—239.75.
- Schnier, I. F., Co., Inc.: *See*—  
Schnier, Robert F., and McFarland. 2,873,038.
- Schnier, Robert F., and F. McFarland, to I. F. Schnier Co., Inc. Stopper for wire-banded bottles. 2,873,038, 2-10-59, Cl. 215—047.
- Schnur, Friedrich, to Ruhrchemie Akt., and Lurgi Gesellschaft für Warmetechnik m. b. H. Working up of products from the catalytic hydrogenation of carbon monoxide. 2,870,185, 1-20-59, Cl. 260—450.
- Schob, Fred O., to Harbison-Walker Refractories Co. Brick press batch distributor. 2,908,062, 10-13-59, Cl. 25—103.
- Schober, Josef. Trap for lavatories, sinks, and the like. 2,889,847, 6-9-59, Cl. 137—247.35.
- Schober, William R.: *See*—  
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- Schoch, Emil. Electrical resistor structure. 2,875,310, 2-24-59, Cl. 201—69.
- Schoch, Jacques J., to Grovar, Inc. Gas turbine power plant system. 2,918,790, 12-29-59, Cl. 60—35.6.
- Schoch, Thomas J., and C. C. Spencer, to Corn Products Refining Co. Starch matrix material containing imbedded material and process for preparing same. 2,876,160, 3-3-59, Cl. 167—82.
- Schock, Richard U.: *See*—  
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- Schock, Richard U., to Abbott Laboratories. Synthetic anti-bacterials. 2,885,400, 5-5-59, Cl. 260—249.9.
- Schock, Richard U., to Abbott Laboratories. Bis-quinoliniums. 2,901,484, 8-25-59, Cl. 260—286.
- Schock, Robert E., to Radio Corp. of America. Indicator system. 2,887,678, 5-19-59, Cl. 340—248.
- Schock, Walter E., to Bendix Aviation Corp. Automatic braking device. 2,873,148, 2-10-59, Cl. 303—63.
- Schodorf, Otto L., Sr., to Schodorf Truck Body & Equipment Co. Clamping bracket for plate glass. 2,887,231, 5-19-59, Cl. 211—41.
- Schodorf Truck Body & Equipment Co.: *See*—  
Schodorf, Otto L., Sr. 2,887,231.
- Schoen, Alice L.: *See*—  
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- Schoen, Andre, deceased, by A. L. Schoen, executrix, to General Aniline & Film Corp. Vesicular prints and process of making same. 2,908,572, 10-13-59, Cl. 96—49.



- Schoen, Herbert M.: *See*—  
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- Schoen, Pieter & Zoon N.V.: *See*—  
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- Schoen, Roger W.: *See*—  
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- Schoen, Seymour, to The National Cash Register Co. Transistor record driver. 2,900,215, 8-18-59, Cl. 346-74.
- Schoen, Seymour, and C. A. Krause, to The National Cash Register Co. Dynamic pulse gating transistor circuitry. 2,873,384, 2-10-59, Cl. 307-88.5.
- Schoenauer, Wolfgang, to Sandoz A. G. Pigment dyestuffs of the anthraquinone series. 2,870,172, 1-20-59, Cl. 260-368.
- Schoenberg, Otto W.: *See*—  
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- Schoenberger, Philip J. Cigarette holder. 2,868,212, 1-13-59, Cl. 131-174.
- Schoenberger, Robert L., Jr., to R. R. Donnelley & Sons Co. Machine for forming hinge joints in cased books. 2,893,022, 7-7-59, Cl. 11-1.
- Schoenberger, W. J., Co., The: *See*—  
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Matthews, Birchard L., and Zarybnicky. 2,881,829.
- Schoeneberg, Carl W., to Automatic Devices, Inc. Scaffold structure. 2,891,820, 6-23-59, Cl. 304-40.
- Schoeneberg, Werner A. P., and F. Fortess, to Celanese Corp. of America. Coloring of cellulose-cellulose triacetate textiles. 2,892,668, 6-30-59, Cl. 8-24.
- Schoenewaldt, Erwin F.: *See*—  
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- Schoenewaldt, Erwin F., to Merck & Co., Inc. Steroid esters and methods of preparing same. 2,878,269, 3-17-59, Cl. 260-397.45.
- Schoenfeld, Donald B.: *See*—  
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- Schoenfeld, Milton H. and D. B. Venetian blind slat-cleaning device. 2,896,243, 7-28-59, Cl. 15-244.
- Schoengrun, Emile R. Quasi-elastic magnetic device. 2,869,563, 1-20-59, Cl. 137-43.
- Schoenholz, Daniel, and B. Berkeley, to Easy Glitter Wax Co. Self-spraying wax polish and method for its production. 2,907,664, 10-6-59, Cl. 106-10.
- Schoenike, Edgar O.: *See*—  
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- Schoening, Peter K.: *See*—  
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- Schoenmaker, Adrianus. Precision marking and drawing instrument. 2,883,753, 4-28-59, Cl. 33-104.
- Schoenoff, Waldemar P., and P. Vargo, to General Electric Co. Electric lamp making apparatus. 2,917,869, 12-22-59, Cl. 49-2.
- Schoenrock, Arthur A., Jr. Control means for flush valves. 2,918,248, 12-22-59, Cl. 251-21.
- Schoenster, Peter J.: *See*—  
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- Schoenster, Peter J., and M. E. Ebert, to Alfred Hofmann & Co. Selvege straightening means for flat knitting machines. 2,907,195, 10-6-59, Cl. 66-147.
- Schoenwald, Alexander, to P. Wall Mfg. Co. Blow torches. 2,870,825, 1-27-59, Cl. 158-33.
- Schoepe, Adolf, to American Hardware Corp. Cylindrical lock set. 2,870,621, 1-27-59, Cl. 70-146.
- Schoepfle, Blaine O., B. S. Marks, and P. W. Robitschek, to Hooker Chemical Corp. Flame resistant unsaturated polyester composition containing an organic antimony compound. 2,913,428, 11-17-59, Cl. 260-28.5.
- Schoepfel, John F., to Lear, Inc. Rate switch. 2,906,128, 9-29-59, Cl. 74-5.34.
- Schoepfel, John F., S. L. Varner, and F. W. Herr, to Lear, Inc. Electrolyte containing a ketone, an alkaline earth metal iodide, and iodine. 2,899,393, 8-11-59, Cl. 252-62.2.
- Schoepfel, John F., and D. I. Critoph, to Lear, Inc. Means for supporting a gyroscope gimbal. 2,909,064, 10-20-59, Cl. 74-5.
- Schoer, John. Tractor wheel puller. 2,881,515, 4-14-59, Cl. 29-267.
- Schoessow, Earl E.: *See*—  
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- Schoessow, Earl E., to The Babcock & Wilcox Co. High pressure closure. 2,877,042, 3-10-59, Cl. 292-256.
- Schoessow, Earl E., to The Babcock & Wilcox Co. Closure for a pressure vessel. 2,888,292, 5-26-59, Cl. 292-256.73.
- Schofield, E. L., Inc.: *See*—  
Schofield, Earl L. 2,900,172.
- Schofield, Earl L., to E. L. Schofield, Inc. Heater for motor vehicles. 2,900,172, 8-18-59, Cl. 257-137.
- Schofield, H. Bruce. Two-stage power apparatus. 2,869,190, 1-20-59, Cl. 22-68.
- Schofield, Harold: *See*—  
Woods, Joseph, and Schofield. 2,897,647.
- Schofield, Wentworth H., to United States of America, Army. Gun fire dead area control apparatus. 2,913,961, 11-24-59, Cl. 89-41.
- Schohan, George. Full-wave magnetic amplifier arrangements. 2,919,395, 12-29-59, Cl. 323-89.
- Scholdstrom, Karl O. R., to Svenska Aktiebolaget Gas-accumulator. Photoelectric device. 2,884,542, 4-28-59, Cl. 250-216.
- Schöler, Alfred, to Vorwerk & Sohn. Curtain suspending devices. 2,884,055, 4-28-59, Cl. 160-348.
- Scholes, Thomas: *See*—  
Smith, Eric, and Scholes. 2,914,788.
- Scholin, Carl W.: *See*—  
Scholin, Harold W. and C. W. 2,915,921.  
Scholin, Harold W. and C. W. 2,919,333.
- Scholin, Harold W. and C. W. Indexing mechanism. 2,915,921, 12-8-59, Cl. 74-815.
- Scholin, Harold W. and C. W. Electrical switch mechanism. 2,919,333, 12-29-59, Cl. 200-160.
- Scholl, Edward C., to United Gilsonite Laboratories. Water reducible texture paint. 2,880,104, 3-31-59, Cl. 106-128.
- Scholl Mfg. Co., Inc. The: *See*—  
Levitt, Milton R. 2,888,013.  
Levitt, Milton R. 2,918,056.  
Levitt, Milton R. 2,918,057.  
Levitt, Milton R. 2,918,058.  
Levitt, Milton R. 2,918,059.
- Scholl, Walter H. Illuminated changeable color lawn sprinkler. 2,877,052, 3-10-59, Cl. 299-4.
- Scholl, William M. Stabilizing and foot supporting sandal. 2,894,338, 7-14-59, Cl. 36-8.5.
- Scholl, William M. Plastic foam powder puff. 2,904,814, 9-22-59, Cl. 15-244.
- Scholl, William M. Method of fitting an orthopedic article of footwear. 2,917,757, 12-22-59, Cl. 12-146.
- Scholl, William M. Bonded fleece laminated cushioning insole. 2,917,807, 12-22-59, Cl. 23-80.
- Scholl, William M. Foot cushioning devices. 2,917,842, 12-22-59, Cl. 36-71.
- Scholl, William M. Foot cushioning device with secured pad. 2,917,843, 12-22-59, Cl. 36-71.
- Scholl, William M. Laminated foot cushioning device with pocketed lift. 2,917,844, 12-22-59, Cl. 36-71.
- Scholl, William M. Foot cushioning and supporting device. 2,917,845, 12-22-59, Cl. 36-71.
- Scholl, William M. Foot supporting cushion. 2,917,846, 12-22-59, Cl. 36-71.
- Scholl, William M. Foot cushioning device with added lift. 2,917,847, 12-22-59, Cl. 36-71.
- Scholl, William M. Light weight foot supporting device. 2,917,848, 12-22-59, Cl. 36-71.
- Scholl, William M. Shock absorbing insole and arch cushion. 2,917,849, 12-22-59, Cl. 36-71.
- Scholl, William M. Long wearing foot relieving device. 2,917,850, 12-22-59, Cl. 36-71.
- Scholl, William M. Medicinal plaster or bandage. 2,918,062, 12-22-59, Cl. 128-153.
- Scholle Chemical Corp.: *See*—  
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- Scholle, William R., to Scholle Chemical Corp. Container for fluent materials. 2,898,027, 8-4-59, Cl. 229-14.
- Schollenberger, Charles S., to The B. F. Goodrich Co. Simulated vulcanizates of polyurethane elastomers. 2,871,218, 1-27-59, Cl. 260-45.4.
- Schollenberger, Charles S., to The B. F. Goodrich Co. Polyurethane elastomers from hydroxyl poly (alkylene oxide)s, aliphatic glycols and diphenyl diisocyanates. 2,899,411, 8-11-59, Cl. 260-77.5.
- Schollkopf, Gottfried. Safety stop for spindles. 2,902,818, 9-8-59, Cl. 57-132.
- Scholtes, Donald R., to Westinghouse Electric Corp. Electric discharge apparatus. 2,879,386, 3-24-59, Cl. 250-27.
- Scholz, Edwin R. Collapsible rack. 2,893,568, 7-7-59, Cl. 211-178.
- Scholz, Hans, to Dortmund-Hoerder Huttenunion Aktiengesellschaft. Apparatus for the combustion of liquid fuels. 2,905,234, 9-22-59, Cl. 158-76.
- Scholz, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for preventing the agglomeration of hexamethylene tetramine. 2,912,435, 11-10-59, Cl. 260-248.5.
- Scholz, Josef: *See*—  
Ruschig, Heinrich, Wagner, Aumüller, Korgner, Scholz, and Bander. 2,891,960.
- Scholz, Ole G., to North American Philips Co., Inc. Radiator for short-wave devices. 2,897,494, 7-28-59, Cl. 343-749.
- Scholz, Karl, to M. Braun. Method of applying a ferromagnetic surface to a base utilizing iron carbonyl and oxygen. 2,919,207, 12-29-59, Cl. 117-106.
- Schomers, William H. Ski mounted vehicle. 2,905,479, 9-22-59, Cl. 280-16.
- Schön, Richard, to Vyzkumny a zkusební letecký ústav. Stabilizing system for helicopter aircraft. 2,919,081, 12-29-59, Cl. 244-17.13.
- Schonbeck, Heinz, to Deutsche Gasrusswerke G.m.b.H. Granulating process and apparatus. 2,888,334, 5-26-59, Cl. 23-314.
- Schonberg, Endre, and K. Wilbrink, to American Enka Corp. Polyamide coating composition dissolved in heated azeotropic mixture of 2-chloro-ethanol and water and method of application. 2,882,186, 4-14-59, Cl. 117-161.
- Schone, Paul H., to National-Standard Co. Metal sheet handling apparatus. 2,880,846, 4-7-59, Cl. 198-102.
- Schonfeld, Fred W., to United States of America, Atomic Energy Commission. Plutonium-thorium alloys. 2,904,429, 9-15-59, Cl. 75-122.7.
- Schonfeld, Fred W., and C. R. Tipton, Jr., to United States of America, Atomic Energy Commission. Plutonium-aluminum alloys. 2,885,283, 5-5-59, Cl. 75-122.5.



- Schonfeld, Fred W., and A. S. Coffinberry, to United States of America, Atomic Energy Commission. Plutonium-uranium alloy. 2,902,362, 9-1-59, Cl. 75—122.7.
- Schonfeld, Henry. Split bolt radially expandable to size and locked by means of tapered core pin. 2,892,376, 6-30-59, Cl. 85—2.
- Schönherr, Manfred, to Institut Für Werkzeugmaschinen. Control devices for hydraulic drives. 2,917,028, 12-15-59, Cl. 121—147.
- Schonhoff, John A., and W. J. Borkowski, to Maryland Shipbuilding and Drydock Co. Dummy load resistor. 2,868,932, 1-13-59, Cl. 201—57.
- Schonrock, Edwin A. Long wheel base tandem unit for dump trucks and trailers. 2,883,237, 4-21-59, Cl. 298—17.
- Schonstedt, Erick O. Saturable measuring device and magnetic core therefor. 2,916,696, 12-8-59, Cl. 324—43.
- Schönzeit, Hyman G. Laminating apparatus. 2,903,040, 9-8-59, Cl. 154—1.
- Schoonmaker, Edward B.: *See—*  
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- Schoonoever, Silas M. Trowel filing tool. 2,871,729, 2-3-59, Cl. 76—82.
- Schopf, Homer G.: *See—*  
Newell, Robert C., and Schopf. 2,885,819.
- Schopp, James C., to Radio Corp. of America. Multi-beam convergence system. 2,903,622, 9-8-59, Cl. 315—27.
- Schoppe & Faeser G.m.b.H.: *See—*  
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- Schopper, Erwin, and B. Schumacher. Apparatus for the treatment of substances with corpuscular rays. 2,899,556, 8-11-59, Cl. 250—49.5.
- Schor, Ferdinand W., to Standard Coil Products Co., Inc. Synchronizing circuit for color television receivers. 2,884,481, 4-28-59, Cl. 178—5.4.
- Schor, Joseph. Pie cutter. 2,873,780, 2-17-59, Cl. 146—150.
- Schork, Rudolf: *See—*  
Puttfarcken, Heinrich, and Schork. 2,901,034.
- Schorken, Frederick L.: *See—*  
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- Schorr, Manfred: *See—*  
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- Schory, Kenneth P., M. Turko, and J. H. Konefes, to Amana Refrigeration, Inc. Refrigerator door structure. 2,898,174, 8-4-59, Cl. 312—295.
- Schory, Kenneth P., and M. Turko, to Amana Refrigeration, Inc. Refrigerator door structure. 2,903,315, 9-8-59, Cl. 312—214.
- Schossberger, Frederick V., and D. K. Werle, to Uarco Inc. Manifold sheet having a frangible coating thereon. 2,890,969, 6-16-59, Cl. 117—36.
- Schott, Andrew F. Abacus with magnetic means for holding unit counters in position. 2,872,742, 2-10-59, Cl. 35—33.
- Schott, Arthur K.: *See—*  
Bennett, James T., and Schott. 2,882,971.
- Schott, Arthur K., to G. F. Wales. Perforating implement having means to align the punch and die. 2,893,488, 7-7-59, Cl. 164—110.
- Schott, Charles W., to Crucible Steel Co. of America. Method of recovering difficultly oxidizable metals from alloys, grinding dust, ores, mill scale and the like. 2,902,359, 9-1-59, Cl. 75—82.
- Schott, Donald E., to Thomas C. Wilson, Inc. Torque controls. 2,884,814, 5-5-59, Cl. 74—785.
- Schott, Gaylord A. Attachment for spray containers. 2,868,421, 1-13-59, Cl. 222—473.
- Schott, Howard H.: *See—*  
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Burmeister, Earl R., and Schott. 2,878,601.
- Schott, John E., to Socony Mobil Oil Co., Inc. Greases stabilized with organic carbonates. 2,871,191, 1-27-59, Cl. 252—40.5.
- Schott, John E., to Socony Mobil Oil Co., Inc. Grease composition and method of preparation thereof. 2,898,297, 8-4-59, Cl. 252—36.
- Schott, Lawrence A. Direct drive variable ratio hydraulic transmission of the automatic or manual type. 2,874,533, 2-24-59, Cl. 60—19.
- Schott, Lewis: *See—*  
McAneuy, Michael J. 2,870,503.
- Schott, Lewis M.: *See—*  
Crammond, Earle D. 2,914,827.
- Schott Metal Products Co.: *See—*  
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- Schott, Stuart: *See—*  
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- Schott, Stuart, and V. L. Hansley, to National Distillers and Chemical Corp. Process of preparing massive zirconium particles. 2,880,084, 3-31-59, Cl. 75—84.5.
- Schotz, Otto W.: *See—*  
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Neracher, Carl A., Dunn, Iavelli, Syrov, and Schotz. 2,916,933.  
Neracher, Carl A., Dunn, Iavelli, Syrov, and Schotz. 2,916,936.  
Neracher, Carl A., Dunn, Iavelli, Syrov, and Schotz. 2,916,940.
- Patterson, Herbert F., and Schotz. 2,916,935.
- Schouteden, Ferdinand L.: *See—*  
Van Lohuizen, Otto E., Mouton, and Schouteden. 2,867,650.
- Schouten, Wilhelmus J., to N.V. Het Spoorwegbouwbedrijf. Screening device for a revolving tool. 2,896,679, 7-28-59, Cl. 144—251.
- Schow, Charles C. Traction controlling means. 2,868,538, 1-13-59, Cl. 267—67.
- Schowalter, Clarence H., and L. J. Grauel, to Fairbanks, Morse & Co. Fuel control mechanism for diesel engines. 2,908,258, 10-13-59, Cl. 123—27.
- Schowerer, George J., and M. Sorkin, to Champlain Co., Inc. Registration control apparatus. 2,888,260, 5-26-59, Cl. 271—2.6.
- Schrack, Eduard. Control circuit for magnetic switch. 2,906,927, 9-29-59, Cl. 317—151.
- Schrade, Theodore G. Child's behavior recording and incentive device. 2,918,730, 12-29-59, Cl. 35—23.
- Schrade, William A., and R. D. Clemson, to Clemson Bros., Inc. Lawn mower wheel. 2,871,647, 2-3-59, Cl. 56—249.
- Schrader, Constance A. Child's toilet seat. 2,888,686, 6-2-59, Cl. 4—239.
- Schrader, Gerhard: *See—*  
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Lorenz, Walter, and Schrader. 2,902,493.  
Schegk, Ernst, and Schrader. 2,894,017.  
Schegk, Ernst, and Schrader. 2,916,509.
- Schrader, Gerhard, to Farbenfabriken Bayer Akt. Thiophosphoric acid esters and process for their manufacture. 2,870,191, 1-20-59, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Akt. Substituted mercaptoalkyl esters of phosphoric acids and their derivatives. 2,881,201, 4-7-59, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Akt. Thiophosphoric acid esters and their production. 2,894,973, 7-14-59, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and their production. 2,909,557, 10-20-59, Cl. 260—461.
- Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic acid esters and a process for their production. 2,918,488, 12-22-59, Cl. 260—461.
- Schrader, Gerhard, and R. Mersch, to Farbenfabriken Bayer Akt. O,O-dimethyl-O-(4-chloro-3-nitrophenyl)-thiophosphoric acid esters and their preparation. 2,870,187, 1-20-59, Cl. 260—461.
- Schrader, Gerhard, and W. Lorenz, to Farbenfabriken Bayer Aktiengesellschaft. Phenyl sulfoxo and lower alkyl sulfoxo O,O-di (lower alkyl) thiophosphate esters and process for preparation. 2,910,500, 10-27-59, Cl. 260—461.
- Schrader, Gerhard, and H. Schlor, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and their production. 2,912,452, 11-10-59, Cl. 260—461.
- Schrader, Gerhard, and W. Lorenz, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphoric acid esters and their production. 2,914,530, 11-24-59, Cl. 260—248.
- Schrader, Loren E., to Ironrite Inc. Emergency release mechanism for ironing machine. 2,878,599, 3-24-59, Cl. 38—58.
- Schrader, Loren E., to Ironrite, Inc. Emergency release mechanism. 2,895,240, 7-21-59, Cl. 38—59.
- Schrader, Paul G.: *See—*  
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- Schrader, Robert J.: *See—*  
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- Schrader, Victor H., to E. I. du Pont de Nemours and Co. Forwarding device. 2,907,291, 10-6-59, Cl. 112—211.
- Schrage, Frederick S., to G. D. Shawver. Sectional vehicle. 2,895,279, 7-21-59, Cl. 56—26.
- Schraivogel, Rainer A., to North American Philips Co., Inc. Communication system for the transmission of signals through a cable. 2,881,396, 4-7-59, Cl. 333—16.
- Schram, Orland L.: *See—*  
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- Schrameck, Jack E., and O. H. Soles, to Westinghouse Electric Corp. Switchgear apparatus. 2,919,316, 12-29-59, Cl. 200—50.
- Schramm, Arthur G. Elevatable wide bed trailers. 2,905,345, 9-22-59, Cl. 214—505.
- Schramm, Arthur G. Manually operated open bed elevatable trailers. 2,905,481, 9-22-59, Cl. 280—43.18.
- Schramm, Carl H., to Lockheed Aircraft Corp. Movable ballast system for aircraft. 2,916,232, 12-8-59, Cl. 244—93.
- Schramm, Charles H.: *See—*  
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- Schramm, Edward, to Onondaga Pottery Co. Sagger pin. 2,908,960, 10-20-59, Cl. 25—153.
- Schramm, Harry B.: *See—*  
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- Schramm, Harry B., to Otis Engineering Corp. Locking means for well tools. 2,901,045, 8-25-59, Cl. 166—125.
- Schramm, Harry B., and J. V. Fredd, to Otis Engineering Corp. Well tools. 2,894,586, 7-14-59, Cl. 166—125.
- Schramm, Harry B., and P. S. Sizer, to Otis Engineering Corp. Pressure responsive valve. 2,911,997, 11-10-59, Cl. 137—461.
- Schramm, Henry W.: *See—*  
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- Schramm, Henry W., W. H. Tollefarud, and A. G. Parkes, to Surface Combustion Corp. Atmosphere furnace. 2,917,297, 12-15-59, Cl. 263-21.
- Schramm, Martin G. Spark modifier for spark plugs and ignition systems. 2,899,478, 8-11-59, Cl. 123-148.
- Schrampp, Joseph M., to United States of America, Air Force. Ruggedized attenuator insert. 2,895,117, 7-14-59, Cl. 338-309.
- Schrank, Edwin P., to Seiberling Rubber Co. Sidewall buffing machine for pneumatic tires. 2,893,172, 7-7-59, Cl. 51-3.
- Schrank, George I.: *See—*  
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- Schranz, Hubert, to Metallgesellschaft A.G. Process of reducing the consistency of solid-and-liquid mixtures. 2,899,392, 8-11-59, Cl. 252-60.
- Schraufstatter, Ernst, and W. Grab, to Schenley Industries, Inc. Acyl derivatives of 4,6-dihydroxy-isophthalic acid. 2,903,444, 9-8-59, Cl. 260-211.
- Schray, Walter H.: *See—*  
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- Schreck, Irvin F. Front wheel drive tow tractor. 2,878,884, 3-24-59, Cl. 180-12.
- Schreiber, Albert: *See—*  
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- Schreiber, Carl W., to Owens-Illinois Glass Co. Glassware transfer mechanism. 2,904,161, 9-15-59, Cl. 198-25.
- Schreiber, Charles A., to Dorr-Oliver Inc. Feedwells for sedimentation tanks. 2,894,637, 7-14-59, Cl. 210-519.
- Schreiber, Charles F. Radius grinding fixture. 2,883,808, 4-28-59, Cl. 51-218.
- Schreiber, Charles M.: *See—*  
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- Schreiber, Ernst, to VEB Werk für Fernmeldewesen. Circuit arrangement for electrical musical instruments. 2,897,361, 7-28-59, Cl. 250-27.
- Schreiber, Ernst, to VEB Werk für Fernmeldewesen. Electrical musical instrument. 2,907,244, 10-6-59, Cl. 84-119.
- Schreiber, Everett R. Gun barrel and gun stock assembly. 2,867,931, 1-13-59, Cl. 42-75.
- Schreiber, L. D., & Co., Inc.: *See—*  
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Hannon, Gilbert H., and De Nucci. 2,903,793.
- Schreiber, Louis, to Carolina Textile Engraving Co. Machine for making photoprints on printing cylinders. 2,898,834, 8-11-59, Cl. 95-77.5.
- Schreiber, Patrick Q. R. Machine for cutting leaf tobacco. 2,874,739, 2-24-59, Cl. 146-119.
- Schreiber, Patrick Q. R. Machine for cutting leaf tobacco. 2,910,103, 10-27-59, Cl. 146-119.
- Schreiber, William F., to Sylvania Electric Products, Inc. Cathode ray tube counting device. 2,870,369, 1-20-59, Cl. 315-10.
- Schreiber, William F., to Sylvania Electric Products Inc. Cathode ray tube counting device. 2,903,616, 9-8-59, Cl. 315-10.
- Schreiber, William F., to Technicolor Corp. Spurious contour reduction system. 2,916,549, 12-8-59, Cl. 178-7.5.
- Schreiner, Edmund D.: *See—*  
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- Schreiner, George A., to Cluett, Peabody & Co., Inc. Compressive shrinking machine. 2,885,763, 5-12-59, Cl. 26-18.6.
- Schreiner, Kenneth E., to International Business Machines Corp. Synchronization of display means to specific microsecond interval. 2,875,951, 3-3-59, Cl. 235-153.
- Schreiner, Louis W., to Raytheon Mfg. Co. Tunable end-load lines with screw adjustment for tracking tuning capacitors. 2,871,359, 1-27-59, Cl. 250-40.
- Schreiner, Max P., to Texas Instruments Inc. Gas soldering tool. 2,878,359, 3-17-59, Cl. 219-26.
- Schreiner, Paul E., to Continental Steel Corp. Bundle receiving and stripping mechanism for wire draw blocks. 2,910,171, 10-27-59, Cl. 205-20.
- Schreiner, Warren C., and N. Walen, Jr., to The M. W. Kellogg Co. Method of removing acidic components from gaseous mixtures. 2,912,301, 11-10-59, Cl. 23-3.
- Schremp, Frederick W., to Sperry Rand Corp. Variable letter space and margin control mechanism for typewriters. 2,899,007, 12-29-59, Cl. 197-84.
- Schremp, Ernst, to Pitney-Bowes, Inc. Piece printing and ejecting device. 2,871,781, 2-3-59, Cl. 101-235.
- Schrenk, Alfred, to Gebrüder Buehler. Apparatus for the production of alimentary paste products. 2,905,109, 9-22-59, Cl. 107-4.
- Schrenk, Alfred, to Gebrüder Buehler. Apparatus for the drying of spaghetti and the like. 2,918,728, 12-29-59, Cl. 34-1.
- Schrenk, Hans A., to American Enka Corp. Method and apparatus for forming cords. 2,913,867, 11-24-59, Cl. 57-58.3.
- Schrenk, Hans A., and P. van Dijk, to American Enka Corp. Thread twisting apparatus. 2,893,198, 7-7-59, Cl. 57-77.3.
- Schrenk, Hans A., and J. W. I. Heijnis, to American Enka Corp. Plying device. 2,902,817, 9-8-59, Cl. 57-58.36.
- Schreter, Robert E., and A. J. Turpin, to Hauck Mfg. Co. Proportional mixer. 2,905,543, 9-22-59, Cl. 48-184.
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- Schreyer, Edward P. Steam generators. 2,875,314, 2-24-59, Cl. 219-38.
- Schreyer, Ralph C., to E. I. du Pont de Nemours and Co. Catalyst compositions comprising a titanium dibalide. 2,899,416, 8-11-59, Cl. 260-94.9.
- Schricker, Otto, Jr., to Esso Research and Engineering Co. Hydroforming process with molybdena on alumina-silica catalyst. 2,916,439, 12-8-59, Cl. 208-136.
- Schrider, Alfred: *See—*  
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- Schriever, Arnold A., and V. L. Johnson. Cow barn gutter grate. 2,868,169, 1-13-59, Cl. 119-28.
- Schriever, William W., to Jersey Production Research Co. Vertical velocity dynamic geophone. 2,902,667, 9-1-59, Cl. 340-17.
- Schriner, John E., to The Eagle-Picher Co. Method of making multi-surfaced sheet material. 2,914,437, 11-24-59, Cl. 154-95.
- Schriner, John E., and C. R. Masters, to The Eagle-Picher Co. Method of making a contoured floor mat. 2,915,427, 12-1-59, Cl. 154-110.
- Schrock, Norman B., C. J. Clement, Jr., and G. O. Herreman, to Hewlett-Packard Co. Probe assembly. 2,894,205, 7-7-59, Cl. 324-72.5.
- Schrode, Anton: *See—*  
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- Schroder, Anton: *See—*  
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- Schroder & Co.: *See—*  
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- Schroder, Franz G. Steam power installations. 2,918,798, 12-29-59, Cl. 60-73.
- Schröder, Heinrich, to International Standard Electric Corp. Polarized relay. 2,911,574, 11-3-59, Cl. 317-150.
- Schröder, Konstantin: *See—*  
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- Schroder, Lothar: *See—*  
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- Schroder, Theodor: *See—*  
Sachsenröder, Gustav, Sr., and Schroder. 2,913,270.  
Sachsenröder, Gustav, Sr., and Schroder. 2,913,271.
- Schroeder, Albert A.: *See—*  
Schroeder, George M., and A. A. 2,912,210.
- Schroeder, Alfred C.: *See—*  
Gibson, Walter G., and Schroeder. 2,882,335.  
Gibson, Walter G., and Schroeder. 2,899,495.  
Gibson, Walter G., and Schroeder. 2,916,544.  
Pritchard, Dalton H., and Schroeder. 2,884,480.  
Pritchard, Dalton H., and Schroeder. 2,892,028.
- Schroeder, Arlo E. Automatic shotgun choke. 2,883,782, 4-28-59, Cl. 42-79.
- Schroeder, Arthur C., to Schroeder Machines Corp. Package handling apparatus. 2,879,637, 3-31-59, Cl. 53-61.
- Schroeder, Arthur M. Stack top. 2,903,956, 9-15-59, Cl. 98-84.
- Schroeder Brothers Corp.: *See—*  
Schroeder, John S. 2,870,786.  
Schroeder, John S. 2,882,854.
- Schroeder, Carl J., to The Chemical Rubber Co. Racks for washing machine. 2,875,916, 3-3-59, Cl. 220-19.
- Schroeder, Carl W.: *See—*  
Condo, Fred E., and Schroeder. 2,886,472.
- Schroeder, Carl W., to Shell Development Co. Polyepoxide emulsions and method of treating textiles therewith. 2,872,427, 2-3-59, Cl. 260-29.2.
- Schroeder, Carl W., to Shell Development Co. Polyepoxide emulsions and method of treating textiles therewith. 2,872,428, 2-3-59, Cl. 260-29.2.
- Schroeder, Carl W., to Shell Development Co. Process for treating textile materials and resulting products. 2,886,473, 5-12-59, Cl. 117-143.
- Schroeder, Carl W., to Shell Development Co. Process for treating fibrous materials to improve adhesion to rubber and resulting products. 2,902,398, 9-1-59, Cl. 154-139.
- Schroeder, Carl W., to Shell Development Co. Treatment of synthetic textiles with a polyepoxide having a plurality of 1,2 epoxy groups. 2,903,381, 9-8-59, Cl. 117-138.8.
- Schroeder, Carl W., to Shell Development Co. Salts of polyamine polyepoxide adducts and their use as curing agents for polyepoxides. 2,909,448, 10-20-59, Cl. 117-141.
- Schroeder, Carl W., to Shell Development Co. Preparation of paper having improved wet strength. 2,913,356, 11-17-59, Cl. 117-155.
- Schroeder, Charles J.: *See—*  
Johnson, Samuel J., and Schroeder. 2,891,612.
- Schroeder, Charles S., to The Yale & Towne Mfg. Co. Inching control for torque transmission. 2,883,015, 4-21-59, Cl. 192-4.
- Schroeder, Charles S., to The Yale & Towne Mfg. Co. Concealed door closer. 2,899,701, 8-18-59, Cl. 16-64.
- Schroeder, Charles S., to The Yale & Towne Mfg. Co. Arm adjustment for concealed door closer. 2,903,733, 9-15-59, Cl. 16-49.
- Schroeder, Charles W., to Thomas J. Lipton, Inc. Manufacture of an improved tea product. 2,891,866, 6-23-59, Cl. 99-77.



- Schroeder, Christie L.: *See*—  
Jackson, Nolan, C. and Schroeder. 2,872,718.
- Schroeder, Collin H., and K. P. Link, to Wisconsin Alumni Research Foundation. Process for the preparation of 4-hydroxycoumarin derivatives. 2,872,457, 2-3-59, Cl. 260—343.2.
- Schroeder, Donald E.: *See*—  
Gallagher, William P., Stolle, and Schroeder. 2,886,106.
- Schroeder, George F., to Sperry Rand Corp., Ford Instrument Co. Division. Correction system for mass shift in gyros. 2,895,339, 7-21-59, Cl. 74—5.47.
- Schroeder, George M. and A. A. Fluorescent lighting transformer mounting. 2,912,210, 11-10-59, Cl. 248—346.
- Schroeder, George W., to General Electric Co. Range oven control. 2,889,800, 6-9-59, Cl. 116—124.
- Schroeder, Hansjuergen, and C. J. Grundmann, to Olin Mathieson Chemical Corp. Novel 2,4 bis (alkyl and haloalkyl substituted)-6-hydroxy 1,3,5 triazine amidine salts. 2,876,221, 3-3-59, Cl. 260—248.
- Schroeder, Hansjuergen, and C. J. Grundmann, to Olin Mathieson Chemical Corp. Halo triazines. 2,880,207, 3-31-59, Cl. 260—248.
- Schroeder, Harry J., to Allis-Chalmers Mfg. Co. Swing control for tractor mounted implements. 2,908,401, 10-13-59, Cl. 212—68.
- Schroeder, Henry: *See*—  
Cruise, John H. and Schroeder. 2,878,792.
- Schroeder, Henry, and J. H. Cruise, to Combustion Engineering, Inc. Separately fired radiant superheater. 2,905,157, 9-22-59, Cl. 122—485.
- Schroeder, Herman E.: *See*—  
McCormack, William B., and Schroeder. 2,891,915.
- Schroeder, Hubert: *See*—  
Geffcken, Walter, and Schroeder. 2,868,076.
- Schroeder, John O., to Radio Corp. of America. Zero output impedance amplifier. 2,886,659, 5-12-59, Cl. 179—171.
- Schroeder, John S., to Schroeder Brothers Corp. Oil reservoir for hydraulic equipment. 2,870,786, 1-27-59, Cl. 137—587.
- Schroeder, John S., to Schroeder Brothers Corp. Pressure indicator. 2,882,854, 4-21-59, Cl. 116—117.
- Schroeder, Juel P., to Union Carbide Corp. Composition of vinyl chloride homopolymer and chloroprene homopolymer and method of making same. 2,870,115, 1-20-59, Cl. 260—45.5.
- Schroeder, Karl: *See*—  
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- Schroeder, Kenneth C.: *See*—  
Denend, Lowell E., and Schroeder. 2,905,129.
- Schroeder Machines Corp.: *See*—  
Schroeder, Arthur C. 2,879,637.
- Schroeder, Sarah: *See*—  
Johnson, Samuel J., and Schroeder. 2,891,612.
- Schroeder, Simon E., to Fox River Mfg. Co. Remote control mechanism for motor boats. 2,867,131, 1-6-59, Cl. 74—472.
- Schroeder, Simon E., to Fox River Mfg. Co. Single lever throttle and shift control. 2,867,132, 1-6-59, Cl. 74—472.
- Schroeder, Simon E., to Fox River Mfg. Co. Transmission wire or core for control mechanism. 2,871,718, 2-3-59, Cl. 74—501.
- Schroeder, Simon E., to Fox River Mfg. Co. Hydraulic control mechanism for motor boats and other uses. 2,891,498, 6-23-59, Cl. 114—150.
- Schroeder, Walter, to The Cincinnati Milling Machine Co. Machine tool transmission. 2,889,755, 6-9-59, Cl. 90—22.
- Schroeder, Walter, to The Cincinnati Milling Machine Co. Machine tool transmission. 2,912,906, 11-17-59, Cl. 90—215.
- Schroedter, Willburt W., to Combustion Engineering, Inc. Vapor heater. 2,867,415, 1-6-59, Cl. 257—241.
- Schroedter, Willburt W., to Combustion Engineering, Inc. Furnace wall for forced once-through boiler. 2,896,591, 7-28-59, Cl. 122—235.
- Schroedter, Willburt W., and E. M. Powell, to Combustion Engineering, Inc. Method of operating a waistline vapor generator. 2,869,519, 1-20-59, Cl. 122—478.
- Schroer, Walter E., V. Trybinski, Jr., and I. H. Walling, to Loose Leaf Metals Co. Locking mechanism for binders. 2,902,039, 9-1-59, Cl. 129—13.
- Schroeter, Gerhard: *See*—  
Mitchell, Tony, and Schroeter. 2,886,832.
- Schroll, Franz, to Elektroschmelzwerk Kempton G.m.b.H. Process for manufacturing green silicon carbide. 2,913,313, 11-17-59, Cl. 23—208.
- Schroll, Gene E., to Ethyl Corp. Process for producing aryloxyphenyl silanes. 2,914,548, 11-24-59, Cl. 260—448.2.
- Schrom, Edward C., to General Electric Co. Faulty coil detector. 2,901,693, 8-25-59, Cl. 324—52.
- Schrot, Ernest H.: *See*—  
De Cola, Rinaldo E., Carlson, and Schrot. 2,898,563.
- Schröter, Kurt: *See*—  
Walterscheid-Müller, Bernhard, and Schröter. 2,909,047.
- Schroter, Paul M. Angle block. 2,913,830, 11-24-59, Cl. 33—174.
- Schroth, John J., to Link-Belt Co. Vibrating screens. 2,899,059, 8-11-59, Cl. 209—403.
- Schroth, John J., to Link-Belt Co. Vibrating screen. 2,899,060, 8-11-59, Cl. 209—403.
- Schroth, John J., to Link-Belt Co. Vibrating screen. 2,899,061, 8-11-59, Cl. 209—408.
- Schroth, Raymond A.: *See*—  
Hollander, Louis P., and Schroth. 2,894,780.
- Schrotzberger, Edward T., to Beckman Instruments, Inc. Oscillating motor circuit and switch. 2,910,598, 10-27-59, Cl. 310—39.
- Schrougham, Benton. Rotary internal combustion engine. 2,897,798, 8-4-59, Cl. 123—13.
- Schrum, Robert W., to Sinclair Refining Co. Rust inhibiting composition. 2,881,140, 4-7-59, Cl. 252—395.
- Schrunk, Gerald W. Coat hanger. 2,908,428, 10-13-59, Cl. 223—88.
- Schub, Albert F.: *See*—  
Farr, Alton E., Grimes, and Schub. 2,881,646.
- Schubert, Albert E., to General Electric Co. Dual temperature refrigeration. 2,867,099, 1-6-59, Cl. 62—502.
- Schubert, Bernhard: *See*—  
Körber, Kurt, Schubert, and Stelzer. 2,902,040.
- Ritscher, Arthur, and Schubert. 2,918,197.
- Schubert, Bernhard, to Kurt Korber & Co. K. G. Conveying and gluing apparatus for filter cigarette tip wrappers. 2,873,719, 2-17-59, Cl. 118—247.
- Schubert, Dale L., to Industrial Development Co. Method of making crosscut wood flakes and sawmill cross grain flaking planer therefor. 2,898,958, 8-11-59, Cl. 144—172.
- Schubert, David W.: *See*—  
Bock, James A., McDaniel, and Schubert. 2,910,430.
- Schubert, Elliot N.: *See*—  
Dybalski, Jack N., Riegler, Du Brow, and Schubert. 2,919,204.
- Schubert, Ernest J., to Westinghouse Electric Corp. Diode matrix. 2,879,458, 3-24-59, Cl. 317—234.
- Schubert, Ernest J., to Burroughs Corp. Diode matrix. 2,915,686, 12-1-59, Cl. 317—234.
- Schubert, Ernest J., to Westinghouse Electric Corp. Driver means for magnetic elements. 2,917,639, 12-15-59, Cl. 307—88.
- Schubert, Friedrich, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of alkali metal chromate from chrome ores. 2,904,396, 9-15-59, Cl. 23—56.
- Schubert, Jack: *See*—  
Boyd, George E., Russell, and Schubert. 2,898,185.
- Schubert, Paul, to J. P. Bemberg Akt. Continuous production of cellulose solution. 2,893,884, 7-7-59, Cl. 106—167.
- Schubert, Paul, to J. P. Bemberg Aktiengesellschaft. Recovery of copper and ammonia from waste liquors from the manufacture of regenerated cellulose. 2,904,399, 9-15-59, Cl. 23—147.
- Schubring, Norman W.: *See*—  
Hanzys, Eugene A., and Schubring. 2,889,705.
- Schubring, Norman W., to General Motors Corp. Ultrasonic surface testing device. 2,912,854, 11-17-59, Cl. 73—67.7.
- Schuch, Kurt, to VEB Carl Zeiss Jena. Mounts for a composite optical lens combination. 2,894,430, 7-14-59, Cl. 88—57.
- Schuchardt, Hans, to Joh. Vaillant, K.G. Safety-coupled main and pilot gas valves. 2,917,062, 12-15-59, Cl. 137—66.
- Schuchman, Frederick E., and S. A. Norris, Jr., to Homestead Valve Mfg. Co. Apparatus for vapor spray cleaning. 2,908,030, 10-13-59, Cl. 15—322.
- Schucht, Peter: *See*—  
Leypold, Dieter, and Schucht. 2,892,042.
- Schuchtermann & Kremer-Baum Akt. Für Anfbereitung: *See*—  
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- Teuteberg, Rudolf. 2,894,629.
- Schuck, Oscar H., to United States of America, Navy. Automatic relative position plotter. 2,872,272, 2-3-59, Cl. 346—8.
- Schuck, Oscar H., to Minneapolis-Honeywell Regulator Co. Automatic pilot apparatus for convertible aircraft. 2,887,285, 5-19-59, Cl. 244—77.
- Schueler, Hassan E., and P. W. Jacobsohn. Cavity examining instrument with self-contained illuminating rod and source. 2,911,968, 11-10-59, Cl. 128—6.
- Schueler, Lyle B., W. F. Cantieri, and O. C. Stout, to Diamond Power Specialty Corp. Air cooled blower-type cleaner. 2,904,260, 9-15-59, Cl. 239—132.
- Schueller, Otto. Motor-compressor unit. 2,918,209, 12-22-59, Cl. 230—239.
- Schuenemann, Hans-Bernhard, and T. Schwabach, to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Reciprocating carriage drive. 2,909,070, 10-20-59, Cl. 74—27.
- Schuerch, Anton: *See*—  
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- Schuerger, Thomas R.: *See*—  
Dykeman, George, and Schuerger. 2,878,003.
- Schuesler, Walter E. Flap-equipped cap. 2,878,479, 3-24-59, Cl. 2—172.
- Schuessler, Albert G., and C. B. Swain, to Swift & Co. Treatment of oil and gas wells. 2,869,643, 1-20-59, Cl. 166—42.
- Schuessler, Fred W.: *See*—  
Lemmon, Norman E., and Schuessler. 2,906,709.
- Schuessler, John C., to Leach Corp. Magnetic shuttle device. 2,919,324, 12-29-59, Cl. 200—93.
- Schuessler, Karl E.: *See*—  
Glassman, Louis H., Kemelhor, and Schuessler. 2,889,746.



- Schuessler, Karl E., to United States of America, Navy. Gun blast suppressor. 2,872,848, 2-10-59, Cl. 89—14.
- Schuetz, Clyde C., and R. Ericson, to United States Gypsum Co. Intumescent fire-retarding bituminous coating composition and roofing made therefrom. 2,893,889, 7-7-59, Cl. 117—30.
- Schuetz, James W., to Blaw-Knox Co. Pipe lowering device. 2,896,796, 7-28-59, Cl. 214—1.
- Schuetz, Hilmar O.: *See*—  
Payton, John H., and Schuetze. 2,906,627.
- Schuffan, Paul M., and J. Neill, to The British Oxygen Co. Ltd. Separation of gas mixtures. 2,915,880, 12-8-59, Cl. 62—13.
- Schuffan, Paul M., and A. D. Littlewood, to The British Oxygen Co. Ltd. Separation of air. 2,915,882, 12-8-59, Cl. 62—30.
- Schuh, George. Auxiliary starter. 2,876,645, 3-10-59, Cl. 74—8.
- Schuh, Niles F.: *See*—  
Hulsey, Ronald E., Reeder, and Schuh. 2,917,638.  
Reeder, James R., Schuh, and Lowry. 2,885,568.
- Schuh, Niles F., J. R. Reeder, L. R. Lowry, Jr., and R. E. Hulsey, to Westinghouse Electric Corp. Generator control and protective system. 2,885,569, 5-5-59, Cl. 307—87.
- Schuhmann, Richard L., and L. R. Zehnder, to American Duplex Co. Coffee grinder. 2,900,140, 8-18-59, Cl. 241—36.
- Schuhmaschinenfabrik Hanke & Co., G.m.b.H.: *See*—  
Allgayer, August. 2,909,792.
- Schulde, Felix: *See*—  
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- Schuldt, Donald A.: *See*—  
Cragg, Arthur C., and Schuldt. 2,901,182.
- Schulenburg, Edward J. Sign revolving mechanism. 2,911,744, 11-10-59, Cl. 40—33.
- Schulenburg, Wilhelm, to Alim Corp. Fire retardant composition and method of coating therewith. 2,881,088, 4-7-59, Cl. 117—33.
- Schulenburg, Wilhelm, to Chemische Fabrik Grunau Aktien-gesellschaft. Fire extinguishing method. 2,901,428, 8-25-59, Cl. 252—7.
- Schuler, Alfred, to Protona Produktionsgesellschaft fur elektro-akustische Gerate G.m.b.H. Centrifugal contact-breakers. 2,899,515, 8-11-59, Cl. 200—80.
- Schuler, Frederic W.: *See*—  
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- Schuler, L. A. G.: *See*—  
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Meyercoerd, Fritz. 2,912,084.  
Ott, Josef, Hackel, Hummel, Wiedemann, and Sigel. 2,914,362.
- Schuler, Reginald G.: *See*—  
Crampton, Gale W., Barter, and Schuler. 2,9918,657.
- Schuler, Wilhelm A., to Chemische Fabrik Promonta, G.m.b.H. Phenothiazine compounds. 2,901,478, 8-25-59, Cl. 260—243.
- Schulke, Robert W.: *See*—  
Fitz, Kenneth E., Schulke, and Wolfe. 2,885,156.
- Schulken, Roger M., Jr.: *See*—  
Young, De Walt S., Schulken, and Moore. 2,875,176.
- Schuller, Walter H., W. M. Thomas, S. T. Moore, and R. R. House, to American Cyanamid Co. Cellulose web of improved dry strength containing a polymer comprising carboxylic groups, amide groups, and quaternary ammonium groups and method for producing same. 2,884,058, 4-28-59, Cl. 162—168.
- Schuller, Werner. Apparatus for drawing fine threads of fibers of glass or the like. 2,880,457, 4-7-59, Cl. 18—8.
- Schulman, Bernard L., to Esso Research and Engineering Co. Classification of particulate solids in fluid coking. 2,872,390, 2-3-59, Cl. 202—14.
- Schulman, Bernard L., and W. G. May, to Esso Research and Engineering Co. Recovering dust from gaseous streams. 2,886,518, 5-12-59, Cl. 208—161.
- Schulman, James H., to United States of America, Navy. Radiophotoluminescent compound and method of making same. 2,874,133, 2-17-59, Cl. 260—515.
- Schulman, Sol. Liquid wax applying and dispensing device. 2,902,703, 9-8-59, Cl. 15—131.
- Schulmerich Electronics, Inc.: *See*—  
Kunz, Jacob T. 2,873,640.  
Kunz, Jacob T. 2,898,795.
- Schuls, Allie L. Fish holders. 2,891,275, 6-23-59, Cl. 17—8.
- Schult, Hans W., to Solo Cup Co. Blow off conveyor device for paper cups or the like. 2,912,282, 11-10-59, Cl. 302—2.
- Schulte, Clifford L., J. G. Schwarzbeck, and M. Hust, to U. S. Industries, Inc. Main spindle drive for lathes and the like. 2,873,613, 2-17-59, Cl. 74—334.
- Schulte, Frederick E., to Collins Radio Co. Gyroscopic erection system. 2,879,671, 3-31-59, Cl. 74—5.47.
- Schulte, Frederick E., to Collins Radio Co. Magnetic backlash eliminator. 2,893,257, 7-7-59, Cl. 74—409.
- Schulte, Frederick J. Invalid handling apparatus. 2,914,110, 11-24-59, Cl. 155—28.
- Schulte, Wilhelm, to L. & C. Steinmuller G. m. b. H. Shaking grates especially for burning different kinds of fuel. 2,873,702, 2-17-59, Cl. 110—101.
- Schulte, William E., and A. E. Sorensen. Machine for fabricating metal structure. 2,868,952, 1-13-59, Cl. 219—87.
- Schultheis, Eugene W., and R. M. Brumbaugh, to Ampex Corp. Magnetic tape machine. 2,893,653, 7-7-59, Cl. 242—55.12.
- Schultheis, Harry B., Jr., to Bendix Aviation Corp. Code transmission systems. 2,906,822, 9-29-59, Cl. 178—53.1.
- Schultheis, Heinz: *See*—  
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- Schultheis, Heinz, W. Kallert, and D. Delfs,  $\frac{1}{2}$  to Farben-fabriken Bayer Aktiengesellschaft, and  $\frac{1}{2}$  to Mobay Chemical Co. Process for the production of rubber-like polyurethanes. 2,912,414, 11-10-59, Cl. 260—75.
- Schultheiss, Alvin J.: *See*—  
Piker, Herbert M., and Schultheiss. 2,872,066.
- Schultz, Arthur B., to United States of America, Atomic Energy Commission. Fuel rod clusters. 2,898,280, 8-4-59, Cl. 204—193.2.
- Schultz, Arthur D., to Eaton Mfg. Co. Fuel container closure. 2,874,867, 2-24-59, Cl. 220—44.
- Schultz, Arthur N., to Auto Specialties Mfg. Co. Shot blast machine. 2,887,826, 5-26-59, Cl. 51—9.
- Schultz, Blanche R., to General Electric Co. Domestic appliance. 2,889,442, 6-2-59, Cl. 219—35.
- Schultz, Charles F. Magnetic pick-up device. 2,911,871, 11-10-59, Cl. 84—1.15.
- Schultz, Edward. Household utility jack. 2,910,270, 10-27-59, Cl. 254—98.
- Schultz, Edward H., Jr., to The Nagel-Chase Mfg. Co. Flat belt pulley. 2,875,625, 3-3-59, Cl. 74—230.8.
- Schultz, Edward H., Jr., to The Nagel-Chase Mfg. Co. Rigid wheel bracket. 2,911,666, 11-10-59, Cl. 16—40.
- Schultz, Eugene C., to Marlin-Rockwell Corp. Shield for rotatable members. 2,902,300, 9-1-59, Cl. 286—5.
- Schultz, Forrest O. E., to Midland-Ross Corp. Brake booster unit. 2,878,647, 2-24-59, Cl. 60—54.6.
- Schultz, Forrest O. E., to The Midland Steel Products Co. Relay valves. 2,883,997, 4-28-59, Cl. 137—102.
- Schultz, Frank A., to Western Electric Co., Inc. Methods of molding plastic material around flexible inserts. 2,876,499, 3-10-59, Cl. 18—59.
- Schultz, Frank A., and R. W. Strickland, to Western Electric Co., Inc. Article severing and discharging mechanism. 2,872,979, 2-10-59, Cl. 164—48.
- Schultz, Frank A., and J. R. Waldron, to Western Electric Co., Inc. Device for guiding wires having parts attached thereto. 2,876,493, 3-10-59, Cl. 18—5.
- Schultz, Fritz, to Farbenfabriken Bayer Akt. Recovery of kallikrein. 2,874,088, 2-17-59, Cl. 167—74.
- Schultz, Guillermo. Plastic utility holder for nail enamel bottle. 2,888,020, 5-26-59, Cl. 132—73.5.
- Schultz, Harold B., to Bendix Aviation Corp. Hydraulic reaction control in a power steering system. 2,893,505, 7-7-59, Cl. 180—79.2.
- Schultz, Harold W.: *See*—  
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Vosler, Edward J., and Schultz. 2,867,898.
- Schultz, Henry J., to B. Walker. Supporting and tilting means for Venetian blinds. 2,918,968, 12-29-59, Cl. 160—177.
- Schultz, Herman J., to Direct Image Offset Corp. Machine for de-embossing lithographic printing plates by pressing each plate against a rotating cylinder by axially spaced pressing rolls. 2,895,529, 7-21-59, Cl. 153—32.
- Schultz, Howard C. Pressure-vacuum clysis unit. 2,876,768, 3-10-59, Cl. 128—214.
- Schultz, Kristian: *See*—  
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- Schultz, Margaret F.: *See*—  
Anderson, Lindson P., and Schultz. 2,870,028.
- Schultz, Melvin L., to Radio Corp. of America. Photovoltaic apparatus. 2,877,284, 3-10-59, Cl. 136—89.
- Schultz, Merle A.: *See*—  
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- Schultz, Richard: *See*—  
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- Schultz, Robert J.: *See*—  
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- Schultz, Theodore H.: *See*—  
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- Schultz, Theodore J., to United States of America, Navy. Miniature condenser microphone. 2,868,894, 1-13-59, Cl. 179—111.
- Schultz, Thomas H.: *See*—  
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- Schultz, Thomas W., and W. I. Crabel, Gar Wood Industries, Inc. Hydraulic drive for ditcher conveyor. 2,879,612, 3-31-59, Cl. 37—97.
- Schultz, Vernon A. Refrigeration evaporator coil with electric heating means. 2,877,630, 3-17-59, Cl. 62—276.
- Schultz, Werner F.: *See*—  
Kehm, Paul H., and Schultz. 2,912,595.
- Schultz, Werner F., to General Motors Corp. Cap device for a filler pipe. 2,893,233, 7-7-59, Cl. 70—172.
- Schultz, Wilfred R., to Tempire Products Corp. Combined hot and cold fluid dispensing apparatus. 2,912,142, 11-10-59, Cl. 222—124.
- Schultz, William J., and C. F. van Bennekom, to General Electric Co. Time switch assembly. 2,900,463, 8-18-59, Cl. 200—38.
- Schultz, William L., to Steelman Products Corp. Tire spreading tools. 2,915,283, 12-1-59, Cl. 254—50.4.



- Schultze, Harold E.: *See*—  
Funkhouser, Mearick, and Schultze. 2,869,685.
- Schultze, Harold E., to General Motors Corp. Shock absorber packing having line engagement. 2,880,022, 3-31-59, Cl. 286-30.
- Schultze, Helmuth A. Constant angular velocity joint. 2,900,810, 8-25-59, Cl. 64-21.
- Schultze, Henry C.: *See*—  
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- Schultze, Karl: *See*—  
Hettche, Otto, and Schultze. 2,895,329.
- Schultze, Kurt H., to Herbert Lindner, G. m. b. H. Thread generating machine. 2,871,634, 2-3-59, Cl. 51-232.
- Schultze, Werner, and H. Gossen, to P. Gossen & Co., G. m. b. H. Apparatus for determining the color temperature of a source of light. 2,886,712, 5-12-59, Cl. 250-71.
- Schulz, Alfred J. and D. A., to S-B Mfg. Co. Door latch oscillatable in either of two planes for opening. 2,877,036, 3-10-59, Cl. 292-60.
- Schulz, August: *See*—  
Boje, Herbert H., and Schulz. 2,918,039.
- Schulz, Dale M., to The James Whitcomb Riley Memorial Assn. Strip-adaptor for spectrophotometers. 2,869,414, 1-20-59, Cl. 88-14.
- Schulz, Donald A.: *See*—  
Schulz, Alfred J. and D. A. 2,877,036.
- Schulz, Erich. Process of producing coke from mixture of coke breeze and coal. 2,907,698, 10-6-59, Cl. 202-25.
- Schulz, George W., and J. O. Gambee, to Ford Motor Co. Self adjusting servo. 2,889,896, 6-9-59, Cl. 188-196.
- Schulz, Helmut W.: *See*—  
Hess, Lawrence G., and Schulz. 2,898,366.  
Hess, Lawrence G., and Schulz. 2,898,367.
- Schulz, Richard B. Shielding panel and joint construction. 2,876,275, 3-3-59, Cl. 174-35.
- Schulz, Richard B. Shielded transformer. 2,904,762, 9-15-59, Cl. 336-84.
- Schulz, Wallace W., to United States of America, Atomic Energy Commission. Method of dissolving metallic uranium. 2,897,047, 7-28-59, Cl. 23-14.5.
- Schulz, Wallace W., to United States of America, Atomic Energy Commission. Removal of chloride from aqueous solutions. 2,898,203, 8-4-59, Cl. 23-312.
- Schulz, William E., to E. I. du Pont de Nemours and Co. Blasting initiator. 2,882,819, 4-21-59, Cl. 102-28.
- Schulze, Ernst A. L.: *See*—  
Umbria, Elmar J., and Schulze. 2,879,175.
- Schulze, Ferdinand, to E. I. du Pont de Nemours and Co. Formaldehyde as an assistant in the dyeing of polyester fibers and blends thereof at high temperatures. 2,869,969, 1-20-59, Cl. 8-55.
- Schulze, George R., to Minneapolis-Honeywell Regulator Co. Detection and signaling apparatus. 2,870,434, 1-20-59, Cl. 340-227.
- Schulze, Harald, to Sperry Products Inc. Methods and means for coupling an ultrasonic transducer to a test specimen. 2,873,391, 2-10-59, Cl. 310-8.3.
- Schulze, Harvey F. Wind-responsive louver construction. 2,894,445, 7-14-59, Cl. 98-95.
- Schulze, Heinz, to General Aniline & Film Corp. Preparation of amides. 2,898,353, 8-4-59, Cl. 260-404.
- Schulze, Heinz, to General Aniline & Film Corp. Process of preparing certain halogenated 1,3-disubstituted-5-pyrazolones. 2,899,443, 8-11-59, Cl. 260-310.
- Schulze, Joachim, and J. Hofmann, to VEB Buchungsmaschinenwerk Karl-Marx-Stadt. Electronic calculating machines provided with an arrangement for rounding off electronic counters. 2,916,211, 12-8-59, Cl. 235-160.
- Schulze, John J., to Charles Bruning Co., Inc. Feed rollers for photo-conductive insulating material. 2,894,744, 7-14-59, Cl. 271-51.
- Schulze, Karl: *See*—  
Zabka, Franz, and Schulze. 2,883,518.
- Schulze, Kurd-Jürgen, to American Enka Corp. Apparatus for treating a warp of threads. 2,886,878, 5-19-59, Cl. 28-28.
- Schulze, Reinhart, and H. Broschke, to Ernst Leitz G. m. b. H. Hardness-testing device. 2,917,919, 12-22-59, Cl. 73-81.
- Schulze, Robert E., to Culligan, Inc. Method and manner of protecting galvanized surfaces against corrosion. 2,881,091, 4-7-59, Cl. 117-71.
- Schulze, Wallace M., to General Electric Co. Pivot point probe. 2,893,242, 7-7-59, Cl. 73-188.
- Schum, Eugene F., and H. J. Wimmer, to United States of America, Navy. Turbine blade with corrugated strut. 2,906,495, 9-29-59, Cl. 253-39.15.
- Schumacher, Berthold: *See*—  
Schopper, Erwin, and Schumacher. 2,899,556.
- Schumacher, Clarence A. Work clamp for use on a drill press. 2,884,821, 5-5-59, Cl. 77-63.
- Schumacher, Edwin F., and J. N. Moses, to Devco & Reynolds Co., Inc. Paint compositions. 2,915,411, 12-1-59, Cl. 106-253.
- Schumacher, Ernest A., to The Martin Co. Flanged pipe coupling having an external welded band clamp. 2,896,978, 7-28-59, Cl. 285-408.
- Schumacher, F. E., Co., The: *See*—  
Espenschied, Virgil F. 2,917,790.
- Schumacher, Frank A., to General Electric Co. Refrigerating system including hot gas defrosting circuit. 2,907,184, 10-6-59, Cl. 62-278.
- Schumacher, Joseph N., to R. J. Reynolds Tobacco Co. Tobacco. 2,905,576, 9-22-59, Cl. 131-17.
- Schumacher, Richard: *See*—  
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- Schumacher, Robert A.: *See*—  
Wemyss, James C., Jr., and Schumacher. 2,877,115.
- Schumacher, Walter B., to Sperry Rand Corp. Vehicle load cover retaining means. 2,911,254, 11-3-59, Cl. 296-100.
- Schumacher, William C. Sequential switch. 2,892,999, 6-30-59, Cl. 340-364.
- Schumacher, Wilhelm W. B., to Ontario Research Foundation. Apparatus for spectrochemical analysis and structural analysis of solids, fluids and gases by means of X-rays. 2,908,821, 10-13-59, Cl. 250-53.
- Schumag Schumacher Metallwerke Gesellschaft mit beschränkter Haftung: *See*—  
Herrmann, Heinrich. 2,896,379.  
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Walkling, Helmut. 2,909,014.
- Schuman, Albert: *See*—  
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- Schuman, Ralph H., to The Warner & Swasey Co. Contour follower apparatus. 2,908,252, 10-13-59, Cl. 121-41.
- Schuman, Seymour C.: *See*—  
Johnson, Clarence A., and Schuman. 2,913,396.
- Schuman, Seymour C., to Hydrocarbon Research, Inc. Heavy oil conversion with low coke formation. 2,875,150, 2-24-59, Cl. 208-107.
- Schumann, Alec, to Cosmocord Ltd. Electromechanical transducers. 2,918,538, 12-22-59, Cl. 179-100.41.
- Schumann, Edward L.: *See*—  
Allen, Robert E., Palopoli, Schumann, Day, and Feil. 2,891,957.  
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Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,561.  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,562.  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,563.  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,564.  
Van Campen, Marcus G., Jr., Allen, Palopoli, and Schumann. 2,877,269.
- Schumann, Fred, to Aladdin Industries, Inc. Touch responsive lamp or the like. 2,896,131, 7-21-59, Cl. 317-149.
- Schumann, Joseph M., 25% to Alta Engineering Co. Safety door latch. 2,908,155, 10-13-59, Cl. 70-181.
- Schumb, Martin T., to The Murray Co. of Texas, Inc. Speed reducer with detachable drive motor. 2,868,031, 1-13-59, Cl. 74-425.
- Schumer, Louis. Key retainer. 2,889,697, 6-9-59, Cl. 70-456.
- Schumm, Erwin. Apparatus for adjusting needles on manually operated knitting apparatus. 2,914,933, 12-1-59, Cl. 66-75.
- Schumpelt, Karl, to Sel-Rex Precious Metals, Inc. Low stress electrodeposited rhodium. 2,895,889, 7-21-59, Cl. 204-47.
- Schumpelt, Karl, to Sel-Rex Corp. Low stress electrodeposited rhodium. 2,895,890, 7-21-59, Cl. 204-47.
- Schumpelt, Karl, to Sel-Rex Corp. Gold plated electrical contact and similar elements. 2,897,584, 8-4-59, Cl. 29-199.
- Schunck, Horst L. P., to Kortenbach & Rau Kommanditgesellschaft. Lawn umbrella. 2,910,078, 10-27-59, Cl. 135-27.
- Schunemann, Carl F., to Thompson Ramo Wooldridge, Inc. Lining switch. 2,889,553, 6-2-59, Cl. 343-876.
- Schunemann, Carl F., and G. E. Jacques, to Thompson Products, Inc. Electric motor control system. 2,884,581, 4-28-59, Cl. 318-467.
- Schünemann, Hans-Bernhard, to Schnellpressenfabrik Koenig & Bauer Akt. Cylinder printing machine. 2,886,973, 5-19-59, Cl. 74-27.
- Schünemann, Hans-Bernhard, to Schnellpressenfabrik Koenig & Bauer Akt. Drive of sheet-feeding device with sheet-feeders with printing machines. 2,887,317, 5-19-59, Cl. 271-51.
- Schunemann, Hans-Bernhard, to Schnellpressenfabrik Koenig & Bauer Akt. Sheet-feeding device for printing machines with continuously rotating impression cylinder. 2,892,630, 6-30-59, Cl. 271-51.
- Schunemann, Hans-Bernhard, to Schnellpressenfabrik Koenig & Bauer Akt. Sheet-fed rotogravure machine for multi-colour printing. 2,896,535, 7-28-59, Cl. 101-152.
- Schuneman, Robert F.: *See*—  
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- Schupak, Eugene: *See*—  
Borland, Jean W., and Schupak. 2,880,154.
- Schupp, Alfred J. Dispensing cabinet. 2,916,187, 12-8-59, Cl. 221-154.
- Schur, Milton O., to Olin Mathieson Chemical Corp. Laminated filter tip. 2,882,970, 4-21-59, Cl. 164-61.
- Schur, Milton O., to Olin Mathieson Chemical Corp. Impregnating device and process. 2,897,777, 8-4-59, Cl. 118-38.
- Schur, Milton O., to Olin Mathieson Chemical Corp. Method of and apparatus for cutting and collocating filter tip. 2,898,998, 8-11-59, Cl. 164-61.
- Schur, Milton O., to Olin Mathieson Chemical Corp. Filter for tobacco smoke. 2,905,184, 9-22-59, Cl. 131-208.



- Schur, Milton O., to Olin Mathieson Chemical Corp. Smoking device. 2,915,069, 12-1-59, Cl. 131-10.
- Schurecht, Harry G., to Champion Spark Plug Co. Spark plug insulators containing  $\text{ThO}_2$ . 2,886,453, 5-12-59, Cl. 106-39.
- Schurecht, Harry G., to Champion Spark Plug Co. Spark plug seal. 2,898,395, 8-4-59, Cl. 174-152.
- Schurecht, Harry G., to Champion Spark Plug Co. Spark plug insulators containing stannic oxide. 2,917,394, 12-15-59, Cl. 106-46.
- Schurger, Garner H., to Giddings & Lewis Machine Tool Co. Machine tool table. 2,885,915, 5-12-59, Cl. 77-64.
- Schurger, Garner H., and R. F. Hecker, to Giddings & Lewis Machine Tool Co. Machine tool. 2,890,629, 6-16-59, Cl. 90-16.
- Schurger, Garner H., and M. P. Morgan, to Giddings & Lewis Machine Tool Co. Feed reel mechanism for machine tools. 2,892,389, 6-30-59, Cl. 90-15.
- Schurich, Herbert, and O. Bunge. Actuator of a hand knitting apparatus. 2,904,978, 9-22-59, Cl. 66-78.
- Schuricht, Henry A. Device for lowering parts without undue impact. 2,890,780, 6-16-59, Cl. 193-27.
- Schurman, Donald R., to The Waterbury Farrel Foundry & Machine Co. Ball header. 2,916,952, 12-15-59, Cl. 78-41.
- Schurman, Glenn A.: See—  
Blake, Francis G., and Schurman. 2,888,663.
- Schurman, Glenn A., to California Research Corp. Cable assembly method and apparatus. 2,869,226, 1-20-59, Cl. 29-421.
- Schurman, Jack V., to Colgate-Palmolive Co. Process for the preparation of fatty acid dihydroxy alkyl amides. 2,877,246, 3-10-59, Cl. 260-404.
- Schürmann, Max-Otto, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for mixing viscous liquids. 2,917,291, 12-15-59, Cl. 259-7.
- Schurr, Charles A., to Square D Co. Electric motor resonant control circuit. 2,872,633, 2-3-59, Cl. 318-240.
- Schurr, Hans, and H. Stahlecker, to Wurttembergische Spindelfabrik G. m. b. H. Spindle driving mechanism. 2,869,317, 1-20-59, Cl. 57-105.
- Schurr, Hans and H. Stahlecker. Resilient bearing structure. 2,908,533, 10-13-59, Cl. 308-152.
- Schurr, Vernon D., to Technitrol Engineering Co., Inc. Highly stable electronic amplifier. Re. 24,756, 12-15-59, Cl. 324-123.
- Schussler, Alfred: See—  
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- Schüssler, Kurt: See—  
Fülling, Heinrich, Schüssler, and Rudolph. 2,887,534.
- Schustack, Edward H. Tube-mounting device. 2,894,757, 7-14-59, Cl. 279-5.
- Schuster, Curt, and R. Gehm, to Badische Anilin- & Soda-Fabrik Akt. Anion exchange compounds. 2,878,183, 3-17-59, Cl. 210-37.
- Schuster, John A. Apparatus for holding and cleaning severed animal feet. 2,870,478, 1-27-59, Cl. 17-1.
- Schuster, Ludwig K., and A. L. Baldi, Jr., to Kelsey-Hayes Co. Process of coating metal and resulting articles. 2,911,332, 11-3-59, Cl. 148-6.2.
- Schuster, Nick A.: See—  
Ferre, Maurice C., Schuster, and Segesman. 2,880,389.
- Schuster, Nick A., to Schlumberger Well Surveying Corp. Magnetic resonance apparatus. 2,878,443, 3-17-59, Cl. 324-5.
- Schuster, Nick A., to Schlumberger Well Surveying Corp. Apparatus for electrical well logging. 2,885,632, 5-5-59, Cl. 324-1.
- Schuster, Nick A., to Schlumberger Well Surveying Corp. Electronic computing apparatus for computing a root or a power of the ratio of two quantities. 2,891,728, 6-23-59, Cl. 235-61.
- Schuster, Rolf: See—  
Krall, Friedrich, Scheibe, and Schuster. 2,890,258.
- Schuster, Wilhelm: See—  
Melzer, Wolfgang, and Schuster. 2,917,404.
- Schusteritz, Ludwig, to Nordmark-Werke Gesellschaft mit Beschränkter Haftung. New process for the production of hydroalides of amino-alkylated barbituric acids. 2,883,381, 4-21-59, Cl. 260-247.5.
- Schusteritz, Ludwig, and V. Wolf, to Nordmark-Werke Gesellschaft mit beschränkter Haftung. Piperazine derivatives and the production thereof. 2,870,152, 1-20-59, Cl. 260-268.
- Schusterius, Carl. Electrical resistance elements and method of producing the same. 2,892,988, 6-30-59, Cl. 338-9.
- Schut, Sam P. Flooring tool. 2,884,035, 4-28-59, Cl. 145-1.
- Schutt, Hartwig: See—  
Raacke, Bernhard, Blaser, Stein, Schirp, and Schutt. 2,900,386.
- Blaser, Bruno, Stein, and Schütt. 2,913,488.
- Schutt, Hartwig, to Henkel & Cie. G.m.b.H. Production of  $\alpha, \alpha'$ -dicarboxy-substituted pyrrole derivatives. 2,898,344, 8-4-59, Cl. 260-326.3.
- Schütt, Hartwig, to Henkel & Cie. G.m.b.H. Process for the thermal rearrangement of salts of cyclic carboxylic acids. 2,919,273, 12-29-59, Cl. 260-250.
- Schütt, Hartwig, to Henkel & Cie. G.m.b.H. Production of salts of indole carboxylic acid compounds. 2,919,280, 12-29-59, Cl. 260-319.
- Schutt, Hartwig, and W. Stein, to Henkel & Cie. G.m.b.H. Process for the production of aromatic homocyclic or heterocyclic di- and polycarboxylic acids. 2,912,437, 11-10-59, Cl. 260-295.5.
- Schutt, Norman C., to Powers Chemco, Inc. Flexible sheet support for photographic device. 2,914,289, 11-24-59, Cl. 248-363.
- Schutte, Alfred H.: See—  
Matlachowsky, Stefan. 2,876,527.
- Matlachowsky, Stefan. 2,886,949.
- Matlachowsky, Stephan. 2,908,357.
- Schutte, August H.: See—  
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- Schutte, Caspar W.: See—  
Ligthelm, Salomon P., and Schutte. 2,917,392.
- Schutte, Ethel M., to The Comfy Mfg. Co. Slip covers. 2,884,993, 5-5-59, Cl. 155-182.
- Schutte, Ethel M., to The Comfy Mfg. Co. Cover for cushion in upholstered furniture. 2,895,542, 7-21-59, Cl. 155-182.
- Schutte, Laurent J., to Super-Steel Products Co. Room air conditioning system. 2,900,891, 8-25-59, Cl. 98-40.
- Schutte, Otto, to Robert Bosch G.m.b.H. Electronic fuel injection control system. 2,910,054, 10-27-59, Cl. 123-32.
- Schutten, Johan, to North American Philips Co., Inc. Device for determining very low gas pressures. 2,904,749, 9-15-59, Cl. 324-33.
- Schutz, Harold R.: See—  
Bowe, George R., Schutz, and Suchocki. 2,908,598.
- Schutz, Joseph M., to The Firestone Tire & Rubber Co. Self sealing pneumatic tire. 2,905,220, 9-22-59, Cl. 152-330.
- Schutz, Karl H., to Jos. Schneider & Co., Optische Werke. Thread coupling for photographic objectives or the like. 2,897,736, 8-4-59, Cl. 95-11.
- Schutz, Karl H., to Jos. Schneider & Co., Optische Werke. Depth-of-field indicator for photographic objectives. 2,916,980, 12-15-59, Cl. 95-64.
- Schutz, Karl H., and F. Werner, to Jos. Schneider & Co., Optische Werke. Automatic depth of focus indicator for photographic objectives. 2,916,981, 12-15-59, Cl. 95-64.
- Schutz, Georg H., to Alweg-Forschung, Gesellschaft mit beschränkter Haftung. Railway switch assemblies. 2,903,972, 9-15-59, Cl. 104-96.
- Schutze, Henry G., and A. D. Suttle, Jr., to Esso Research and Engineering Co. Conversion of organic compounds by radiation. 2,914,452, 11-24-59, Cl. 204-162.
- Schutznier, Edwin J. Portable ratio tester for transformers. 2,910,646, 10-27-59, Cl. 324-55.
- Schuur, Gerrit: See—  
Kreps, Robert W. F., de Wit, and Schuur. 2,915,557.
- Schuyler, Garrett L.: See—  
Girouard, Philias H., Schuyler, and Baller. 2,870,678.
- Schuyler, Ralph A. Magnetic sound recording machine. 2,912,178, 11-10-59, Cl. 242-55.12.
- Schuyler, Ralph A. Magnetic sound recording machine. 2,912,179, 11-10-59, Cl. 242-55.12.
- Schuyler, Thomas C., to Fargo Mfg. Co., Inc. Line splice clamp. 2,901,725, 8-25-59, Cl. 339-272.
- Schwab, August: See—  
Gärtner, Günter, Schwab, and Harz. 2,900,540.
- Schwab, Bruce B., to North American Aviation, Inc. Remote emergency traffic control system. 2,903,674, 9-8-59, Cl. 340-33.
- Schwab, Carl M., to Otis Engineering Corp. Well tools. 2,908,333, 10-13-59, Cl. 166-218.
- Schwab, H. W. Textile Corp.: See—  
Schwab, Harold W. 2,869,588.
- Schwab, Harold W., to H. W. Schwab Textile Corp. Woven fabric. 2,869,588, 1-20-59, Cl. 139-383.
- Schwab, Max, deceased; O. B. Schwab, nee Bonner, sole devisee of said M. Schwab. Electric sewing machines. 2,872,885, 2-10-59, Cl. 112-219.
- Schwab, Olga B.: See—  
Schwab, Max and O. B. 2,872,885.
- Schwab, Richard L., to Westinghouse Electric Corp. Transformer cooling system control. 2,896,152, 7-21-59, Cl. 323-44.
- Schwabach, Theo: See—  
Schuenemann, Hans-Bernhard, and Schwabach. 2,909,070.
- Schwabe, Karl: See—  
Fuhrmann, Hans, and Schwabe. 2,891,438.
- Schwabe, William E., to Union Carbide Corp. Method of improving the quality and productivity of electric arc furnace steel. 2,909,422, 10-20-59, Cl. 75-10.
- Schwager, August C., to Schwager-Wood Corp. High voltage circuit interrupting and isolating apparatus. 2,872,550, 2-3-59, Cl. 200-145.
- Schwager, August C., to Schwager-Wood Corp. Current surge arrester. 2,887,549, 5-19-59, Cl. 200-146.
- Schwager, Henry H., to Schwager-Wood Corp. Encapsulated vacuum insulated circuit breaker. 2,870,298, 1-20-59, Cl. 200-144.
- Schwager-Wood Corp.: See—  
Schwager, August C. 2,872,550.
- Schwager, August C. 2,887,549.
- Schwager, Henry H. 2,870,298.
- Schwahn, Josef, to Zeiss Ikon A.G. Shutters for photographic cameras. 2,891,457, 6-23-59, Cl. 95-64.
- Schwaiger, Frank H., R. C. Gadsby, and J. Schwaiger, to Anheuser-Busch, Inc. Straining tank. 2,916,421, 12-8-59, Cl. 195-135.



- Schwaiger, Joseph: *See*—  
Schwaiger, Frank H., Gadsby, and Schwaiger. 2,916,421.
- Schwaiger, Odilo L., to Daimler-Benz Akt. Rotor for a radial blower. 2,899,129, 8-11-59, Cl. 230-134.
- Schwalbach, Joseph C., to Baso Inc. Modulating fuel control apparatus. 2,874,904, 2-24-59, Cl. 236-1.
- Schwamb, George T., to Burndy Corp. Insulating cover for pressurized panel. 2,868,895, 1-13-59, Cl. 174-138.
- Schwan, Clarence F., to The Reliance Electric & Engineering Co. Induction frequency changer. 2,867,738, 1-6-59, Cl. 310-160.
- Schwan, Clarence F., to The Reliance Electric & Engineering Co. Heat exchanger for dynamoelectric machine. 2,915,656, 12-1-59, Cl. 310-57.
- Schwaneke, Alfred E.: *See*—  
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- Schwaneke, Alfred E., to A-M Corp. Reverse bimetal thermostat. 2,881,300, 4-7-59, Cl. 219-25.
- Schwaneke, Alfred E., to Dormeyer Corp. Timer mechanism. 2,906,194, 9-29-59, Cl. 99-329.
- Schwaneke, Alfred E., and H. P. Randick, to A-M Co. Speed governor. 2,876,215, 3-3-59, Cl. 200-80.
- Schwaneke, Alfred E., and H. P. Randick, to A-M Co. Compensated speed governor. 2,876,316, 3-3-59, Cl. 200-80.
- Schwaneke, Alfred E., and H. P. Randick, to A-M Co. Compensated speed governor. 2,876,317, 3-3-59, Cl. 200-80.
- Schwaneke, Fred C., to Dormeyer Corp. Steam table grill. 2,867,712, 1-6-59, Cl. 219-43.
- Schwaneke, Fred C., to Dormeyer Corp. Electric iron. 2,871,589, 2-3-59, Cl. 38-77.
- Schwaneke, Fred C., to Dormeyer Corp. Electric iron. 2,880,530, 4-7-59, Cl. 38-77.
- Schwaneke, Fred C., to Dormeyer Corp. Switch. 2,896,041, 7-21-59, Cl. 200-73.
- Schwaneke, Fred C., to Dormeyer Corp. Cooking vessel. 2,910,571, 10-27-59, Cl. 219-44.
- Schwaneke, Fred C., and J. E. Tucker, to Dormeyer Corp. Tea basket and vaporizer. 2,900,895, 8-25-59, Cl. 99-284.
- Schwank, Gunther, deceased; Rheinisch-Westfälische Revision Treuhand Akt. (Treuhand Akt.) and W. Franken, executors, to American Infra Red Radiant Co., Inc. Gas burners. 2,870,830, 1-27-59, Cl. 158-114.
- Schwank, Ludwig: *See*—  
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- Schwarzman, Alexander, to Spencer Kellogg and Sons, Inc. Preparation of drying oil by modification and copolymerization of soy bean oil with a vinyl monomer. 2,912,396, 11-10-59, Cl. 260-22.
- Schwarz, Morton, to Morton Chemical Co. Rodenticidal compositions comprising a 2-acyl 1,3-indandione and an ethylenediamine tetraacetate. 2,880,132, 3-31-59, Cl. 167-46.
- Schwarz, Edward G., and C. L. Duren, to Link Aviation, Inc. Servo multiplier having reduced error. 2,904,253, 9-15-59, Cl. 235-194.
- Schwartz, Albert. Winding stem construction for watches. 2,892,303, 6-30-59, Cl. 58-68.
- Schwartz, Albert B., to Socony Mobil Oil Co., Inc. Attrition-resistant inorganic oxide gels and method for preparing the same. 2,900,349, 8-18-59, Cl. 252-317.
- Schwartz, Albert B., to Socony Mobil Oil Co., Inc. Treatment of inorganic hydrogels. 2,914,486, 11-24-59, Cl. 252-455.
- Schwartz, Alfred J. C. Catamenial device and method of forming same. 2,905,175, 9-22-59, Cl. 128-270.
- Schwartz, Anthony M.: *See*—  
Minor, Francis W., and Schwartz. 2,875,167.
- Schwartz, Anthony M., to The Gillette Co. Opalescent detergent composition. 2,891,912, 6-23-59, Cl. 252-152.
- Schwartz, Bernard, to Sylvania Electric Products Inc. Electrode for glow-discharge device. 2,879,433, 3-24-59, Cl. 315-353.
- Schwartz, Bertram, to Hughes Aircraft Co. Semiconductor translating devices. 2,874,076, 2-17-59, Cl. 117-200.
- Schwartz, Daniel M., to The Eimco Corp. Material handling machine. 2,886,192, 5-12-59, Cl. 214-130.
- Schwartz, David L. Self-aerating bait bucket. 2,883,789, 4-28-59, Cl. 43-57.
- Schwartz, David L. Insulation block holding device for power saws. 2,898,955, 8-11-59, Cl. 143-171.
- Schwartz, Harold A., to Patchogue-Plymouth Corp. Twisted paper yarn. 2,871,652, 2-3-59, Cl. 57-167.
- Schwartz, Harold A., to Patchogue-Plymouth Corp. Pile rugs and rug-bases and composite yarns therefor. 2,901,005, 8-25-59, Cl. 139-420.
- Schwartz, Harold H., to Empire Brushes, Inc. Clamp-type mop for engaging multiple strand elements. 2,870,473, 1-27-59, Cl. 15-229.
- Schwartz, Harold H., to Empire Brushes, Inc. Head construction for multiple-strand mops. 2,902,704, 9-8-59, Cl. 15-229.
- Schwartz, Harold H., to Empire Brushes, Inc. Fountain detergent brushes and controls therefor. 2,908,445, 10-13-59, Cl. 239-317.
- Schwartz, Harold O.: *See*—  
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- Schwartz, Richard F., and Schwartz. 2,913,947.
- Schwartz, Harry, to General Electric Co. Variable resistor. 2,909,751, 10-20-59, Cl. 338-190.
- Schwartz, Henry A., to Cheese Machinery Co. Cheese mold. 2,879,593, 3-31-59, Cl. 31-42.
- Schwartz, Herbert. Method for inhibiting the formation and growth of slime in water systems. 2,873,249, 2-10-59, Cl. 210-64.
- Schwartz, Jacob D. Dental impression tube. 2,878,565, 3-24-59, Cl. 32-19.
- Schwartz, Jacob D. Dental setup. 2,893,054, 7-7-59, Cl. 18-57.
- Schwartz, James, and G. E. Stark, to R. R. Donnelley & Sons Co. Columnar type form and removable type slugs for such form. 2,900,901, 8-25-59, Cl. 101-368.
- Schwartz, James W. Multiple panel glazing units. 2,909,814, 10-27-59, Cl. 20-565.
- Schwartz, James W., to Radio Corp. of America. Line phosphor, color tube, registration system. 2,917,571, 12-15-59, Cl. 178-54.
- Schwartz, James W., and P. E. Kaus, to Radio Corp. of America. Deflection system. 2,915,672, 12-1-59, Cl. 315-13.
- Schwartz, John J., to Brown & Bigelow. Key chain and coin holder article. 2,892,537, 6-30-59, Cl. 206-38.
- Schwartz, Louis. Mattress cover and method of making same. Re. 24,591, 1-20-59, Cl. 5-354.
- Schwartz, Louis E. Teaching device. 2,910,785, 11-3-59, Cl. 35-8.
- Schwartz, Max M., deceased; M. G. Schwartz, executrix. Method of preparing elastomeric plastigels. 2,872,429, 2-3-59, Cl. 260-306.
- Schwartz, Melvin M.: *See*—  
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- Schwartz, Minnie G.: *See*—  
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- Schwartz, Nathan, and C. S. Wax. Hinged hood for open pickup trucks. 2,912,276, 11-10-59, Cl. 296-100.
- Schwartz, Ralph E., to H. H. Jamieson. Method for making battery separator. 2,889,390, 6-2-59, Cl. 136-148.
- Schwartz, Robert A. D., and S. W. Lindheim. Ceiling and lighting construction. 2,888,113, 5-26-59, Cl. 189-85.
- Schwartz, Samuel M., and D. Gross, to Velveray Corp. Method and apparatus for flocking and removing excess flock. 2,881,087, 4-7-59, Cl. 117-19.
- Schwartz, Sol. Protective covers for photographic transparencies. 2,867,927, 1-13-59, Cl. 40-158.
- Schwartz, Sol. Packing means for pile fabrics. 2,895,604, 7-21-59, Cl. 206-61.
- Schwartz, William A. Chair and horizontal carrier for invalids. 2,915,112, 12-1-59, Cl. 155-30.
- Schwartzkopf, Lewis J.: *See*—  
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- Schwartzman, Louis H.: *See*—  
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- Schwartzman, Louis H., and B. B. Corson, to Koppers Co., Inc. 2,6-dimethylstyrene polymers. 2,913,440, 11-17-59, Cl. 260-88.1.
- Schwartztrauber, George H. Fish lure. 2,876,580, 3-10-59, Cl. 43-42.06.
- Schwartztrauber, George H. Connector for a fish line and fish hook. 2,901,856, 9-1-59, Cl. 43-42.72.
- Schwartzwalder, Karl: *See*—  
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- Somers, Arthur V., and Schwartzwalder. 2,906,909.
- Schwarz, Adolf: *See*—  
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- Schwarz, Dr., Arzneimittelfabrik G. m. b. H.: *See*—  
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- Schwarz, George, to Powers Chemco, Inc. Etching bath. 2,890,943, 6-16-59, Cl. 41-42.
- Schwarz, Heinrich: *See*—  
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- Schwarz, Herman, K.G.: *See*—  
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- Schwarz, Joseph H., to The Yale & Towne Mfg. Co. Hydraulic clamp operating circuit. 2,916,171, 12-8-59, Cl. 214-653.
- Schwarz, Karl H.: *See*—  
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- Schwarz Laboratories, Inc.: *See*—  
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- Riedl, Wolfgang. 2,898,374.
- Town, Bernard W. 2,867,654.
- Schwarz, Meyer, and P. J. Franklin, to United States of America, Army. Wetting agent for ion-exchange resin battery. 2,895,000, 7-14-59, Cl. 136-100.
- Schwarz, Robert, W. Kuchen, and F. Weigel, to Siemens-Schuckertwerke, Akt. Organosilicon condensation products and processes for producing them. 2,901,449, 8-25-59, Cl. 260-18.
- Schwarzbeck, John G.: *See*—  
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- Schwarzenbach, Earl E., and W. A. Streuer, to Oak Mfg. Co. Interlock mechanism. 2,876,301, 3-3-59, Cl. 200-5.
- Schwarzenbek, Eugene F., to The M. W. Kellogg Co. Platinum catalyst. 2,897,137, 7-28-59, Cl. 208-140.
- Schwarzer, Fritz. Power supply. 2,896,096, 7-21-59, Cl. 307-150.
- Schwarzshans, Helmut: *See*—  
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- Brilli, Franz. 2,894,792.  
 Herz, William, and E. Pipitz. 2,874,065.  
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 Schwarzmayr, Ludwig. Combustion gas heating system. 2,917,240, 12-15-59, Cl. 237-69.  
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   Brown, Julius L., Odierno, Schwarzschild, Viasmsensky, and Wenig. 2,872,866.  
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 Schwebel, Adolf, to MABEG Maschinenbau G.m.b.H. Sheet feeder for printing and other sheet handling machines. 2,900,186, 8-18-59, Cl. 271-62.  
 Schwebs, Robert K. Apparatus for coating the ends of corn ears with wax. 2,903,996, 9-15-59, Cl. 118-23.  
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   Singer, Josef, Bayer, and Schwechten. 2,891,971.  
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   Hollmann, Hans E., and Schwede. 2,872,529.  
 Schwede, Otto G. Isotope separator. 2,917,628, 12-15-59, Cl. 250-41.9.  
 Schwedler, Gottfried: See—  
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 Schwegler, Matthias M. Fish hook extractor. 2,870,564, 1-27-59, Cl. 48-53.5.  
 Schwegler, Roy F., to J. I. Case Co. Two-way plow. 2,868,307, 1-13-59, Cl. 172-225.  
 Schwegler, Roy F., to J. I. Case Co. Tractor mounted plow. 2,897,904, 8-4-59, Cl. 172-269.  
 Schwegler, Roy F., to J. I. Case Co. Swivel plow. 2,906,354, 9-29-59, Cl. 172-449.  
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   Nagorsen, Hans, and Schweickert. 2,906,002.  
 Schweickert, Hans, and J. Haus, to Siemens-Schuckertwerke Akt. Apparatus for preparing rod-shaped, crystalline bodies, particularly semiconductor bodies. 2,893,847, 7-7-59, Cl. 23-273.  
 Schweickert, Hans, and J. A. Herlet, to Siemens-Schuckertwerke Aktiengesellschaft. Method of manufacturing selenium rectifier cells. 2,914,837, 12-1-59, Cl. 29-25.3.  
 Schweizer, Leonard B., to Miles Laboratories, Inc. Method of producing citric acid by fermentation. 2,916,420, 12-8-59, Cl. 195-36.  
 Schweikert, Edward W. Safety holders for ear ornaments. 2,878,660, 3-24-59, Cl. 63-14.  
 Schweikhard, George A.  $\frac{1}{4}$  to Gadget-Of-The-Month Club, Inc. Utility box. 2,880,918, 4-7-59, Cl. 223-107.  
 Schweim, Walter C. Manual rotator for antenna. 2,900,154, 8-18-59, Cl. 248-45.  
 Schweinberg, Fred M., to Koppers Co., Inc. Tilting ladle. 2,881,488, 4-14-59, Cl. 22-82.  
 Schweinberg, Fred M., to Koppers Co., Inc. Tilting ladle. 2,910,746, 11-3-59, Cl. 22-85.  
 Schweiss, Walter W., to Philco Corp. Non-linear device varying impedance match between antenna and radio frequency stages. 2,897,353, 7-28-59, Cl. 250-20.  
 Schweisthal, Frederick G., to Stewart-Warner Corp. Automatically controlled pneumatically powered lubricator. 2,893,515, 7-7-59, Cl. 184-15.  
 Schweiler, Walter, to Maschinenfabrik Schweiler A. G. Collector for yarn bobbins. 2,873,063, 2-10-59, Cl. 232-43.1.  
 Schweiler, Walter, to Maschinenfabrik Schweiler A. G. Mechanism for segregating and arranging cops and the like, in an orderly manner. 2,873,883, 2-17-59, Cl. 221-171.  
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   Bader, Erich, and Schweitzer. 2,870,118.  
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   Kloepfer, Harry, and Schweitzer. 2,892,730.  
 Schweitzer, Otto, and E. Bäder, to Deutsch Gold- und Silber-Scheideanstalt vormals Roessler. Self-hardening surface coating compositions. 2,874,080, 2-17-59, Cl. 148-6.14.  
 Schweitzer, Paul H., and A. W. Hussmann. Air-cooled, port-scavenged, two-stroke cycle engine with rotating piston. 2,902,987, 9-8-59, Cl. 123-41.16.  
 Schweitzer, William K., Jr., to The Dow Chemical Co. Vinyl aromatic polymers stabilized with dimethylalkylene diamines. 2,873,264, 2-10-59, Cl. 260-45.9.

- Schweitzer, William K., Jr., to The Dow Chemical Co. Compositions of vinyl aromatic polymers and synthetic rubber stabilized with tetra-(2-hydroxyalkyl)alkylene diamines. 2,873,232, 3-17-59, Cl. 260-45.5.  
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 Schweitzer, William K., Jr., to The Dow Chemical Co. Vinyl aromatic polymers stabilized with oximes. 2,911,385, 11-3-59, Cl. 260-45.9.  
 Schweitzer, William V., to The American Hardware Corp. Door lock. 2,912,846, 11-17-59, Cl. 70-216.  
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   Zuercher, Anthony J., and Schweizer. 2,911,213.  
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   Amsler, Rudolf. 2,890,626.  
 Scheller, Edmund F., to General Motors Corp. Refrigerating apparatus with condensate director. 2,878,655, 3-24-59, Cl. 62-285.  
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   Boyd, Robert E., and Schwend. 2,916,989.  
 Schwendemann, Edward T., M. J. Sadowsky, Jr., and E. Murway, to Inland Steel Co. Apparatus for and method of controlling the coating thickness in continuous galvanizing. 2,894,856, 7-14-59, Cl. 117-114.  
 Schwenger, Karl C., to Daimler-Benz Aktiengesellschaft. Process for the internal calibration of single- or multiple-part ball guide tubes. 2,914,839, 12-1-59, Cl. 29-148.4.  
 Schwenk, Ulrich: See—  
   Van Raay, Hans G., and Schwenk. 2,913,505.  
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 Schwenk, Willy, E. Bayer, C. Hagemann, and E. Haberle, to Robert Bosch, G.m.b.H. Power-operated, rotary impact-type hand tool. 2,907,240, 10-6-59, Cl. 81-52.3.  
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 Schwerdhofer, Hans J., to Fichtel & Sachs A.G. Automatically engaging and disengaging ratchet pawl mechanism for changeable speed drive coaster brakes for bicycles. 2,895,576, 7-21-59, Cl. 192-6.  
 Schwerdtle, Arthur. Process for producing alkali metal methyl arsonates. 2,889,347, 6-2-59, Cl. 260-442.  
 Schwertfeger, Walter J. Egg cartons. 2,893,619, 7-7-59, Cl. 229-29.  
 Schwesinger, Gerhard, to United States of America, Army. Lenticulated rear projection screen. 2,870,673, 1-27-59, Cl. 88-28.93.  
 Schwesinger, Gerhard, to United States of America, Army. Optical system for non intermittent motion pictures. 2,896,504, 7-28-59, Cl. 88-16.8.  
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 Schwettman, Roy E., to Link-Belt Co. Geared flexible shaft couplings. 2,899,807, 8-18-59, Cl. 64-9.  
 Schwidofsky, Kurt, to Carl Zeiss. Comparator for determining coordinates of a point on a pattern. 2,916,961, 12-15-59, Cl. 88-14.  
 Schwenbacher, Georges,  $\frac{1}{4}$  to Lumiprint-Zindler K.G. Apparatus for the production of photographic copies. 2,903,954, 9-15-59, Cl. 95-77.5.  
 Schwimmer, Paul W. Remotely located supply system and apparatus for a camera. 2,868,067, 1-13-59, Cl. 88-17.  
 Schwindt, Johannes, to W. C. Heraeus, G.m.b.H. Vacuum coating. 2,885,997, 5-12-59, Cl. 118-49.  
 Schwing, Friedrich W. Hoeing-shovel loader. 2,881,932, 4-14-59, Cl. 214-147.  
 Schwing, Friedrich W. Equipment for conveying pulpy or plastic materials. 2,889,174, 6-2-59, Cl. 302-17.  
 Schwinger, Abram. Cold water coffee brewer. 2,878,746, 3-24-59, Cl. 99-283.  
 Schwinhorst, Walter A. Apparatus for dispensing flocking material. 2,889,083, 6-2-59, Cl. 222-193.  
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 Schwinn, Frank W. Manually operated control device. 2,902,882, 9-8-59, Cl. 74-533.  
 Schwinn, Richard C., W. G. Sterzer, and F. R. Werner, to The National Cash Register Co. Record material feeding and printing equipment for cash registers. 2,884,857, 5-5-59, Cl. 101-260.  
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   Weir, Thomas J. 2,879,755.  
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- Schwyzler, Robert, to Ciba Pharmaceutical Products, Inc. Process for the manufacture of an amino-acid. 2,917,519, 12-15-59, Cl. 260-326.3.
- Schwyzler, Robert, B. Iselin, and M. Feurer, to Ciba Pharmaceutical Products Inc. Process for the manufacture of gramicidin S. 2,912,427, 11-10-59, Cl. 260-112.
- Schwyzler, Robert, B. Iselin, W. Rittel, and P. Sieber, to Ciba Pharmaceutical Products Inc. Process for the manufacture of amino carboxylic acid esters and peptide reactants therefor. 2,917,502, 12-15-59, Cl. 260-112.
- Schymik, Walter H., to I-T-E Circuit Breaker Co. Welded isolated phase bus. 2,874,207, 2-17-59, Cl. 174-99.
- Schymik, Walter H., to I-T-E Circuit Breaker Co. Enclosed bus sector. 2,877,289, 3-10-59, Cl. 174-99.
- Schytill, Franz, to Metallgesellschaft Akt. Process for treating comminuted solids with gases. 2,893,839, 7-7-59, Cl. 23-177.
- Schytill, Franz, to Lurgi Gesellschaft für Chemie und Huttenwesen m.b.H. Production of phosphate fertilizers soluble in citric acid. 2,916,372, 12-8-59, Cl. 71-45.
- Scialla, Michael, to Curtiss-Wright Corp. Combined variable area nozzle and aerodynamic brake. 2,880,575, 4-7-59, Cl. 60-35.54.
- Scibetta, Paul C., and L. B. Higdon, to United States of America, Navy. Lapping machine. 2,898,710, 8-11-59, Cl. 51-157.
- Scientific Design Co., Inc.: *See*—  
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- Scigliano, Joseph J., to The Dow Chemical Co. Cleaning spinnerettes. 2,907,687, 10-6-59, Cl. 134-5.
- Scinta, Anthony C.: *See*—  
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- Scites, Joe,  $\frac{1}{2}$  to I. Tuggle. Safety constructions for refrigerators. 2,869,486, 1-20-59, Cl. 109-63.5.
- Sciullo, Charles V., to The Waterbury Farrel Foundry & Machine Co. Method of forging a nut blank having a bore with a projecting key. 2,871,492, 2-3-59, Cl. 10-86.
- Sciarba, Jack L., to Motorola, Inc. Transistor oscillator. 2,887,574, 5-19-59, Cl. 250-20.
- Sciarba, Jack L., to Motorola, Inc. Manual volume control for transistor audio stage utilizing both variable attenuation and variable degeneration. 2,891,146, 6-16-59, Cl. 250-20.
- Scoazec, Roger G.: *See*—  
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- Scobel, Ben, to Quick Point Pencil Co., Inc. Writing media for ball point pen. 2,882,172, 4-14-59, Cl. 106-22.
- Scobey, Fred J.: *See*—  
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- Scoccia, Arno. Awaing or like construction. 2,894,296, 7-14-59, Cl. 20-57.5.
- Scoffel, Robert O., to Bell Telephone Laboratories, Inc. Wide-range automatic gain control. 2,910,550, 10-27-59, Cl. 179-171.
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- Scofield, Raymond C., to Phillips Petroleum Co. Dehydration of gases containing acetylene and removal of acetylene therefrom. 2,871,979, 2-3-59, Cl. 183-115.
- Scofield, Raymond C., to Phillips Petroleum Co. Regenerative hydrocarbon cracking process in series. 2,875,148, 2-24-59, Cl. 208-64.
- Scofield, Raymond C., to Phillips Petroleum Co. Recovery and purification of acetylene. 2,900,044, 8-18-59, Cl. 183-115.
- Scofield, Raymond C., and J. A. Weedman, to Phillips Petroleum Co. Combined liquid-vapor phase separation process. 2,905,637, 9-22-59, Cl. 208-311.
- Scoggin, Baxter I., Jr., to Cook Chemical Co. Pump-type liquid sprayer having hold-down cap. 2,870,943, 1-27-59, Cl. 222-182.
- Sconce, Freddie O., and R. A. Taylor, Jr.  $\frac{1}{2}$  to Stone Crest Studios, Inc. Contour analysis of stereo pairs of aerial photographs. 2,871,759, 2-3-59, Cl. 88-24.
- Sconzo, Thomas G. Jalousies. 2,902,731, 9-8-59, Cl. 20-62.
- Sconzo, Thomas G. Toggle lock device for jalousies. 2,905,984, 9-29-59, Cl. 20-62.
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- Scorgie, Donald G. High accuracy voltage reference. 2,876,642, 3-10-59, Cl. 73-361.
- Scorgie, Donald G., to United States of America, Navy. Push-pull magnetic amplifier. 2,885,631, 5-5-59, Cl. 323-89.
- Scorgie, Donald G. High speed magnetic amplifier. 2,909,723, 10-20-59, Cl. 323-89.
- Scott, Archie. Transmission lift. 2,901,218, 8-25-59, Cl. 254-150.
- Scott, Arthur D., W. B. Greenlee, deceased (by H. B. Greenlee, administratrix), G. H. Evans, and W. G. Sinn; said administratrix and said Evans assors. of  $\frac{1}{2}$  to said Scott and  $\frac{1}{2}$  to said Sinn. Fashion previewing projector. 2,899,860, 8-18-59, Cl. 88-24.
- Scott, Arthur L., to Soo Valley Co. Package for fishing line. 2,912,102, 11-10-59, Cl. 206-56.
- Scott, Arthur L., and S. W. Trehwella, to Columbia Products Co. Apparatus and method for producing tapered glass rods. 2,918,104, 12-22-59, Cl. 154-17.
- Scott, Ben R. Combination coat and pants hanger. 2,875,932, 3-3-59, Cl. 223-91.
- Scott, Benjamin F.: *See*—  
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- Scott, Carleton B., to Collier Carbon and Chemical Corp. Sulfurized tetrathiosphosphates. 2,867,561, 1-6-59, Cl. 167-22.
- Scott, Carleton B., to Collier Carbon and Chemical Corp. Fungicidal and bactericidal compositions. 2,868,687, 1-13-59, Cl. 167-22.
- Scott, Carleton B., to Union Oil Co. of California. Organo-phosphorus polymers. 2,871,202, 1-27-59, Cl. 260-2.
- Scott, Carleton B., to Union Oil Co. of California. Aromatic hydrocarbon isomer separation with an antimony trihalide. 2,888,496, 5-26-59, Cl. 260-674.
- Scott, Carleton B., to Collier Carbon and Chemical Corp. Method of destroying fungi and nematodes employing trimethyl thiophosphite. 2,897,110, 7-28-59, Cl. 167-22.
- Scott, Carleton B., to Collier Carbon and Chemical Corp. Oxidation of alkyl phosphites. 2,909,555, 10-20-59, Cl. 260-461.
- Scott, Carleton B., and W. D. Schaeffer, to Union Oil Co. of California. Process for converting a xylene feed mixture to para-xylene and styrene. 2,879,313, 3-24-59, Cl. 260-669.
- Scott, Carleton B., and W. L. Wasley, to Union Oil Co. of California. Organo-phosphorus condensation products. 2,897,228, 7-28-59, Cl. 260-461.
- Scott, Carleton B., I. D. Webb, and J. W. Yale, Jr., to Collier Carbon and Chemical Corp. Method of destroying nematodes employing dimethyl polysulfides. 2,917,429, 12-15-59, Cl. 167-22.
- Scott, Carleton B., W. D. Schaffer, and T. F. Doumani, to Union Oil Co. of California. Manufacture of para-xylene. 2,918,505, 12-22-59, Cl. 260-672.
- Scott, Charles G. Self-winding mechanism for watches. 2,867,078, 1-6-59, Cl. 58-82.
- Scott, Charles H.: *See*—  
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- Scott, Charles J., and K. S. G. Pertwee, to General Electric Co. Vaporization coating process and alloy therefor. 2,904,451, 9-15-59, Cl. 117-97.
- Scott, Charles R., and D. G. Grenley, to The Dow Chemical Co. Process for coating perishable foodstuffs. 2,872,325, 2-3-59, Cl. 99-166.
- Scott, Cleveland R.: *See*—  
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Cobb, Raymond L., and Scott. 2,917,495.
- Scott, David R.: *See*—  
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- Scott, David R., J. A. Chesebrough, and H. F. Elliott, to Hewlett-Packard Co. Drive mechanism. 2,877,657, 3-17-59, Cl. 74-393.
- Scott, Edward F.: *See*—  
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- Scott, Edwin D., to American Forging & Socket Co. Adjustable seat track assembly. 2,907,371, 10-6-59, Cl. 155-14.
- Scott, Elmer T., to Johnston Testers, Inc. Hydrostatically balanced adjustable flow bean and locking device therefor. 2,917,270, 12-15-59, Cl. 251-96.
- Scott, Ernest R. Bathtub railing. 2,885,690, 5-12-59, Cl. 4-185.
- Scott, Ethel: *See*—  
Mandel, Henri. 2,874,493.  
Mandel, Henri. 2,899,774.
- Scott, Everette C. Method and apparatus for producing granulated food products. 2,900,256, 8-18-59, Cl. 99-56.
- Scott & Fetzer Co., The: *See*—  
MacFarland, Charles H. 2,900,768.  
MacFarland, Charles H. 2,913,756.  
Scott, George H. 2,897,604.
- Scott, Floyd L., to Hughes Tool Co. Earth boring drill. 2,901,223, 8-25-59, Cl. 255-302.
- Scott, Frances: *See*—  
McGuire, Clarence V. 2,884,662.
- Scott, George H., to The Scott & Fetzer Co. Demonstration accessory for vacuum cleaners. 2,897,604, 8-4-59, Cl. 35-13.
- Scott, George H. Musical time indicator. 2,903,937, 9-15-59, Cl. 84-484.
- Scott, George V.: *See*—  
Allen, John M., and Scott. 2,879,231.
- Scott, George W. Joint for an angularly adjustable wrench head. 2,886,998, 5-19-59, Cl. 81-177.9.
- Scott, George W., and W. R. MacLay, to International Business Machines Corp. Spring drive apparatus. 2,915,906, 12-8-59, Cl. 74-125.5.
- Scott, Gerald: *See*—  
Batty, John W., Lambert, Scott, and Seed. 2,913,481.



- Scott, Gerald, to Imperial Chemical Industries Ltd. Oxidation process. 2,872,460, 2-3-59, Cl. 260-364.
- Scott, Gerald, and F. E. G. Tate, to Imperial Chemical Industries Ltd. Manufacture of anthracenes. 2,889,381, 6-2-59, Cl. 260-670.
- Scott, Harold E. B., to Vickers Ltd. Doctors for paper and like machines. 2,890,473, 6-16-59, Cl. 15-256.5.
- Scott, Harry R.: *See*—  
Lantz, Ray F., Scott, Perl, and Clark. 2,911,810.
- Scott, Hayes O., and R. L. Pietsch, to The Engineered Products Co. Magnetic door stop. 2,888,289, 5-26-59, Cl. 292-201.
- Scott, Hayes O., and R. L. Pietsch, to The Engineered Products Co. Magnetic catch. 2,888,291, 5-26-59, Cl. 292-251.5.
- Scott, Homer G. Swivel spring snap opener. 2,884,823, 5-5-59, Cl. 81-3.
- Scott, Howard M., to Radio Corp. of America. Modulation or gain control system and method. 2,883,626, 4-21-59, Cl. 332-49.
- Scott, Ian J. C., to Holley Carburetor Co. Impulse ignition device. 2,905,831, 9-22-59, Cl. 307-10.
- Scott, James G., R. A. Freeman, and R. T. Houston, to American Percussion Tool Co. Well drilling equipment. 2,868,507, 1-13-59, Cl. 255-4.6.
- Scott, Jesse: *See*—  
Bowness, George W., and Scott. 2,872,239.
- Scott, John J.: *See*—  
Glabucke, Allen F., and Scott. 2,884,683.
- Scott, J. O., to The Atlantic Refining Co. Drilling fluid. 2,867,584, 1-6-59, Cl. 252-8.5.
- Scott, John W., to California Research Corp. Demetallization of hydrocarbon fractions. 2,902,429, 9-1-59, Cl. 208-89.
- Scott, John W., Jr., to California Research Corp. Preparation of iron group hydrogenation catalyst support on molybdenum oxide-alumina support. 2,878,193, 3-17-59, Cl. 252-465.
- Scott, John W., Jr., to California Research Corp. Catalyst and method of catalyst preparation. 2,889,287, 6-2-59, Cl. 252-455.
- Scott, John W., Jr., to California Research Corp. Free floating piston reactor. 2,898,199, 8-4-59, Cl. 23-252.
- Scott, John W., Jr., to California Research Corp. Shale retorting. 2,899,365, 8-11-59, Cl. 202-87.
- Scott, John W., Jr., H. M. Lavender, Jr., and W. J. Rossi, to California Research Corp. Adsorption separation process. 2,870,230, 1-20-59, Cl. 260-674.
- Scott, John W., Jr., and R. V. Luthy, to California Research Corp. Production of durene from fractions containing polyalkyl benzenes having 9 to 10 carbon atoms per molecule. 2,910,514, 10-27-59, Cl. 260-671.
- Scott, Johnny N., to Phillips Petroleum Co. Process for the peroxide treatment of blends of polymers of 1-olefins and hydrogenated diene polymers and products thereof. 2,877,206, 3-10-59, Cl. 260-45.5.
- Scott, Joseph F. Musical toy piano with music box. 2,882,778, 4-21-59, Cl. 84-95.
- Scott, Junius D.: *See*—  
Kast, George, Gilbert, and Scott. 2,885,617.
- Scott, Larkin B.: *See*—  
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- Scott, Larkin B., and E. L. McCarthy, to The Perkin-Elmer Corp. Optical image director. 2,887,935, 5-26-59, Cl. 95-4.5.
- Scott, Larkin B., and R. Losch, to The Perkin-Elmer Corp. Limit stop mechanism. 2,903,893, 9-15-59, Cl. 74-10.2.
- Scott, Larren O. Flag securing attachment. 2,906,234, 9-29-59, Cl. 116-173.
- Scott, Lawrence B.: *See*—  
Bondi, Arnold A., and Scott. 2,913,439.
- Scott, Lewis A., to Omark Industries, Inc. Attachment for converting a portable circular saw to a chain saw. 2,879,814, 3-31-59, Cl. 143-32.
- Scott, Loren F. Excavating apparatus. 2,910,274, 10-27-59, Cl. 255-19.
- Scott, Margaret S.: *See*—  
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- Scott, Merl G., to Cabot Shops, Inc. Hydraulic braking apparatus. 2,874,808, 2-24-59, Cl. 188-77.
- Scott, Milton J., to Monsanto Chemical Co. Modified melamine laminating resins. 2,903,603, 10-13-59, Cl. 154-140.
- Scott, Milton J., to Monsanto Chemical Co. Process of treating textile yarns. 2,909,447, 10-20-59, Cl. 117-139.5.
- Scott, O. M., & Sons Co.: *The: See*—  
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West, John R. 2,889,082.
- Scott, Orin W., to Beech Aircraft Corp. Constant speed propeller with self-contained pump and governor. 2,911,050, 11-3-59, Cl. 170-160.21.
- Scott Paper Co.: *See*—  
Britt, Kenneth W. 2,890,540.  
Holcroft, Donald E. 2,900,024.  
Powers, William R., and Volz. 2,900,278.
- Scott, Pete J. Car parking tower. 2,899,085, 8-11-59, Cl. 214-16.1.
- Scott, Peter: *See*—  
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- Scott, Platho P., Jr., to Pan American Petroleum Corp. Composition for plugging highly permeable formations. 2,873,250, 2-10-59, Cl. 252-8.5.
- Scott, Ralph C. Picture hanger device. 2,898,064, 8-4-59, Cl. 248-31.
- Scott, Ray W. Lacing cutter. 2,874,774, 2-24-59, Cl. 164-37.
- Scott, Raymond. Keyboard operated electrical musical instrument. 2,871,745, 2-3-59, Cl. 84-1.25.
- Scott, Raymond E.: *See*—  
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- Scott, Robert C., and W. H. Hogan, to Cleveland Pneumatic Industries, Inc. Landing gear construction. 2,892,626, 6-30-59, Cl. 267-64.
- Scott, Robert E., to Gagnier Fibre Products Co. Fastener. 2,894,301, 7-14-59, Cl. 24-73.
- Scott, Robert E., to Gagnier Fibre Products Co. Fastener. 2,910,750, 11-3-59, Cl. 24-73.
- Scott, Robert F. Apparatus for packaging flat flexible articles. 2,869,302, 1-20-59, Cl. 53-255.
- Scott, Robert H., to General Motors Corp. Fluid lock differential. 2,894,416, 7-14-59, Cl. 74-710.5.
- Scott, Robert J.: *See*—  
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- Scott, Roy L. Egg processing plant. 2,886,173, 5-12-59, Cl. 209-121.
- Scott, Thomas R., G. King, and J. M. Wilson, to International Standard Electric Corp. Production of semi-conductor material for rectifiers. 2,910,394, 10-27-59, Cl. 148-1.5.
- Scott, Vernah L. Pet commode. 2,883,963, 4-28-59, Cl. 119-1.
- Scott, Victor L. Hot seat. 2,904,031, 9-15-59, Cl. 126-204.
- Scott Viner Co.: *The: See*—  
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- Scott, Warren H.: *See*—  
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- Scott, William E.: *See*—  
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- Scott, William F.: *See*—  
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- Scott, William J.: *See*—  
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- Scott, William J., to The British Thomson-Houston Co. Ltd. Sealed rectifier units for T. R. cells. 2,903,660, 9-8-59, Cl. 333-98.
- Scott, William J., to The British Thomson-Houston Co. Ltd. Ultra high frequency waveguide systems. 2,916,707, 12-8-59, Cl. 333-13.
- Scott, William M., Jr., to I-T-E Circuit Breaker Co. Instantaneous lockout release for automatic recloser. 2,905,786, 9-22-59, Cl. 200-89.
- Scott, William M., Jr., and J. B. Cataldo, to I-T-E Circuit Breaker Co. Bus duct unit for electrical distribution system. 2,884,548, 4-28-59, Cl. 307-147.
- Scott & Williams, Inc.: *See*—  
Bley, William G. 2,871,806.  
Felker, Maurice H. 2,903,871.  
Folsom, George I. 2,909,048.  
Lawson, Robert H. 2,890,577.  
Lawson, Robert H., and Bristow. 2,912,839.  
McDonough, John J. 2,902,845.  
McKinley, George H., and Whitehead. 2,896,434.  
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Page, Frank R. 2,913,890.  
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- Scottish Oils Ltd.: *See*—  
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- Scottish Mechanical Light Industries Ltd.: *See*—  
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- Scovill Mfg. Co.: *See*—  
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Binks, Chester J. 2,899,981.  
Blake, Charles B., and Cady. 2,900,073.  
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Deist, James C. 2,904,667.  
Harris, William H. 2,872,034.  
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Lawlor, Martin T. 2,889,065.  
Mackey, Charles W. 2,891,565.  
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- Seoville, Ray R. Case for electronic modular units. 2,892,009, 6-23-59, Cl. 174-52.
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- Scow, Kenneth B.: *See*—  
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- Scozzafava, Milton V.: *See*—  
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- Scozzafava, Milton V., and R. E. Busch, to Clary Corp. Paper feeding device. 2,879,993, 3-31-59, Cl. 271-2.1.
- Scragg, Ernest P. R., and A. Dobson, to Ernest Scragg & Sons Ltd. False twisting devices for textile yarns and the like. 2,872,769, 2-10-59, Cl. 57-77.45.



- Scragg, Ernest, & Sons Ltd.: *See*—  
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- Scram Bros.: *See*—  
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- Scram, Calvin D.: *See*—  
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- Scram, Seymour: *See*—  
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- Scramlin, Henry W. Telephone switch. 2,910,548, 10-27-59, Cl. 179-159.
- Scranton, Charles J., to Allis-Chalmers Mfg. Co. Means for mounting pickup fingers on draper conveyer. 2,869,711, 1-20-59, Cl. 198-198.
- Screven, Thomas F. Switching panel for testing watt-hour meters. 2,890,413, 6-9-59, Cl. 324-74.
- Screw Machine Products Co.: *See*—  
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- Scribner, Albert W. Metal cutting. 2,895,211, 7-21-59, Cl. 29-106.
- Scripto, Inc.: *See*—  
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- Scriptomatic, Inc.: *See*—  
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- Scripture, Edward W., Jr., S. W. Benedict, and P. B. Jacox, to American-Marietta Co. Hydraulic cement compositions, ingredients, and methods of making same. 2,868,659, 1-13-59, Cl. 106-90.
- Scripture, Edward W., Jr., and S. W. Benedict, to American-Marietta Co. Hydraulic cement compositions. 2,872,329, 2-3-59, Cl. 106-92.
- Scriven, Albert K., Jr., to S. Curtis and Son, Inc. Carton construction and method of making the same. 2,913,967, 11-24-59, Cl. 93-36.
- Scrifer, Richard M.: *See*—  
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- Scruggs, Charles H. Quail feeder. 2,896,575, 7-28-59, Cl. 119-51.
- Scuderi, John, to Eastman Machine Co. Paper pattern cutting machine. 2,877,550, 3-17-59, Cl. 30-228.
- Scudi, John V., S. J. Childress, and D. B. Reisner, to Wallace & Thernan Inc. Sulfapyridine-1-oxides. 2,881,166, 4-7-59, Cl. 260-239.8.
- Scuito, Thomas J., to General Dynamics Corp. Electronic counter. 2,871,399, 1-27-59, Cl. 315-8.6.
- Scuito, Thomas J., to General Electric Co. Automatic signal control system. 2,874,216, 2-17-59, Cl. 178-66.
- Scullen, Hugh J. Jet pumps in refrigeration system. 2,887,857, 5-26-59, Cl. 62-300.
- Scully, Frank P., to Scully Signal Co. Whistle for signaling device for use in filling tanks. 2,910,956, 11-3-59, Cl. 116-109.
- Scully, John F., to Monroe Calculating Machine Co. Distributor. 2,893,403, 8-4-59, Cl. 178-53.1.
- Scully-Jones and Co.: *See*—  
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- Scully Signal Co.: *See*—  
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Scully, Frank P. 2,910,956.
- Scully, Thomas J., to General Electric Co. Electric circuit interrupter. 2,908,787, 10-13-59, Cl. 200-144.
- Scully, Vincent. Apparatus for lifting and transporting patients. 2,891,256, 6-23-59, Cl. 5-86.
- Scura, Vincent G., to Duhl-Chek Corp. Coin-actuated electric numbering machine. 2,872,008, 2-3-59, Cl. 194-9.
- Seaborg, Glenn T.: *See*—  
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- Seaborg, Glenn T., to United States of America, Atomic Energy Commission. Extraction of plutonium values from organic solutions. 2,918,349, 12-22-59, Cl. 23-14.5.
- Seaborg, Glenn T., to United States of America, Atomic Energy Commission. Solvent extraction process for plutonium. 2,882,124, 4-14-59, Cl. 23-14.5.
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- Seager, Donald B., to Lockheed Aircraft Corp. Stall roll control device for vertical take-off airplane. 2,886,264, 5-12-59, Cl. 244-42.
- Seagrave, Earl M., Jr.: *See*—  
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- Seal, Russell R., Jr.: *See*—  
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- Sealco Mfg. Inc.: *See*—  
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- Seale, Homer T. Pressure-fluid-operated vise. 2,896,487, 7-28-59, Cl. 81-17.2.
- Seale, Virgil L.: *See*—  
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- Seale, William L., to J. I. Case Co. Fertilizer distributor. 2,913,150, 11-17-59, Cl. 222-310.
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- Sealor Corp.: *See*—  
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- Sealpack Corp.: *See*—  
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- Seal-Spout Corp.: *See*—  
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- Seaman-Andwall Corp.: *See*—  
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- Seaman, David J. Closure structure. 2,904,819, 9-22-59, Cl. 16-50.
- Seaman, Edward L., to S. & W. Sewing Machine Attachment Co. Box pleating attachment for sewing machines. 2,915,997, 12-8-59, Cl. 112-132.
- Seaman, Harry J., to Seaman-Andwall Corp. Vehicle mounted apparatus. 2,892,558, 6-30-59, Cl. 214-140.
- Seaman, Louis, and S. Karp. Chair-bed with floating vibrator housing. 2,905,170, 9-22-59, Cl. 128-33.
- Seaman, Philip H.: *See*—  
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- Seaman, Stewart E. Apparatus for forming a fibrous web from a liquid suspension. 2,907,388, 10-6-59, Cl. 162-305.
- Seamans, Robert C., Jr., H. P. Whitaker, F. P. Wilkins, and S. A. Wingate, to Research Corp. Autopilot. 2,868,481, 1-13-59, Cl. 244-77.
- Seamless Rubber Co., The: *See*—  
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- Seamon, Thomas L. Spring-biased soap ejector. 2,908,995, 10-20-59, Cl. 45-28.
- Sear, Derek W., and A. P. Osborne, to Dunlop Rubber Co. Ltd. Adhesive compositions. 2,891,917, 6-23-59, Cl. 260-17.
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- Searight, Charles E. Apparatus for applying thermoplastic markers to roadways. 2,875,675, 3-3-59, Cl. 94-39.
- Searle, G. D., & Co.: *See*—  
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- Dornfeld, Clinton A. 2,867,665.
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- Dornfeld, Clinton A. 2,884,461.
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- Hoehn, Willard M. 2,874,179.
- Hoehn, Willard M. 2,880,229.
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- Jiu, James. 2,910,486.
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- Johns, William F., and Mueller. 2,911,418.
- Krimmel, Carl P. 2,907,772.
- Krimmel, Carl P. 2,907,773.
- Levy, Harold, and Mednick. 2,919,286.
- Loken, Bjarte. 2,871,246.
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- Löken, Bjarte, and Flores. 2,880,213.
- Miramontes, Luis. 2,912,362.
- Miramontes, Luis E., and Romero. 2,892,833.
- Miramontes, Luis E., Romero, and Ahuad Farjat. 2,878,246.
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- Mueller, George P. 2,885,411.
- Mueller, George P. 2,911,406.
- Pappo, Raphael. 2,891,948.
- Pappo, Raphael. 2,907,758.
- Pappo, Raphael. 2,911,404.
- Pappo, Raphael. 2,913,455.
- Pappo, Raphael. 2,913,467.
- Pappo, Raphael. 2,919,285.
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- Robinson, Richard A. 2,908,691.
- Tweit, Robert C. 2,897,196.
- Voegtli, Walter. 2,876,235.
- Voegtli, Walter, and Robinson. 2,907,764.
- Searle, Norman E., to E. I. du Pont de Nemours and Co. Herbicidal compositions and their preparation. 2,882,140, 4-14-59, Cl. 71—2.3.
- Searle, Norman E., and D. E. Wolf, to E. I. du Pont de Nemours and Co. Fungicidal compositions and methods employing lipoic acids. 2,871,154, 1-27-59, Cl. 167—22.
- Searle, Ronald W. Log debarking machine having universally mounted and inwardly biased cutters. 2,918,952, 12-29-59, Cl. 144—208.
- Searles, Thomas F. Tone varying attachment for a string musical instrument. 2,893,282, 7-7-59, Cl. 84—313.
- Sears, Daniel S.: *See*—
- Jenkins, Leslie H., and Sears. 2,873,171.
- Newton, Edwin B., and Sears. 2,880,191.
- Newton, Edwin B., and Sears. 2,882,177.
- Newton, Edwin B., and Sears. 2,894,929.
- Sears, Harold W.: *See*—
- Keller, Philip B. 2,903,148.
- Sears, Hartley M., to The Hartley Co. Universal ink cartridge. 2,914,027, 11-24-59, Cl. 120—42.4.
- Sears, Richard E., to Beaver Precision Products, Inc. Means for preloading a ball spline assembly. 2,905,008, 9-22-59, Cl. 74—409.
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- Abramson, Harvey J. 2,873,851.
- Askins, William J., and Chapin. 2,901,193.
- Bracht, Charles A. 2,915,067.
- Bell, Joseph L., and Meinke. 2,901,596.
- Chapin, Howard R. 2,891,738.
- Chesser, Cecil E. 2,915,318.
- Enger, Roy E. 2,886,833.
- Golding, Marianne. 2,917,750.
- Hillberg, Robert L. 2,909,101.
- McCarthy, Joseph W. 2,873,750.
- Pihl, Hadley C. 2,869,648.
- Reid, Harry A., and Gall. 2,898,883.
- Sefried, Harry H., II, and Gunnesson. 2,869,268.
- Sease, Lura A., and D. J. Johnson. Medicine cabinet with rotary magazine. 2,882,114, 4-14-59, Cl. 312—279.
- Sease, Lura A., and D. J. Johnson. Desk with rotary chart magazine. 2,888,306, 5-26-59, Cl. 312—196.
- Sease, Will S., to Chicago Pneumatic Tool Co. Jet nozzle protector. 2,868,512, 1-13-59, Cl. 255—314.
- Seasonmaster, Inc.: *See*—
- Schneider, Michael. 2,903,735.
- Seaton, George A.: *See*—
- Stedelin, Jerome J., Jr., and Seaton. 2,913,172.
- Seaton, John H., to The B. F. Goodrich Co. Wheel assembly. 2,884,042, 4-28-59, Cl. 152—404.
- Seaton, William H., to Monsanto Chemical Co. Method of destroying grasses. 2,904,421, 9-15-59, Cl. 71—2.3.
- Seats, Peter, and L. V. Connolly, Jr., to Thomas Electronics, Inc. Acrylic screen settling system. 2,905,571, 9-22-59, Cl. 117—33.5.
- Seats, Peter, and C. M. Appleberry, Jr., to Thomas Electronics, Inc. Method of improving adherence of luminescent screens. 2,906,639, 9-29-59, Cl. 117—33.5.
- Seats, Peter, and L. V. Connolly, Jr., to Thomas Electronics, Inc. Screen settling system. 2,909,444, 10-20-59, Cl. 117—33.5.
- Seaver, Charles H. Purse construction. 2,888,970, 6-2-59, Cl. 150—28.
- Seaver, Donald A., to Scovill Mfg. Co. Fire valves. 2,903,006, 9-8-59, Cl. 137—77.
- Seavert, Howard H., to Simmons Co. Feeding and guiding mechanism for sewing machines. 2,869,492, 1-20-59, Cl. 112—3.
- Seavert, Howard H., to Simmons Co. Apparatus for closing mattresses. 2,869,493, 1-20-59, Cl. 112—3.
- Seavey, Frederick R., to Olin Mathieson Chemical Corp. Power transmission mechanism. 2,886,150, 5-12-59, Cl. 192—21.5.
- Seavey, Roland W., to The Fellows Gear Shaper Co. Deburring device. 2,871,764, 2-3-59, Cl. 90—1.4.
- Seaview Industries, Inc.: *See*—
- Becker, Nathan. 2,900,682.
- Seay, James G.: *See*—
- Fowler, Frank C., and Seay. 2,877,279.
- Seay, Patrick H.: *See*—
- Kolloff, Harold G., and Seay. 2,875,246.
- Se Bastian, Ford, to Silex Co. Beverage dispensing machine. 2,907,265, 10-6-59, Cl. 99—283.
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- Murray, Herbert C., and Sebek. 2,902,411.
- Sebek, Oldrich K., and R. M. Michaels, to The Upjohn Co. Reduction of 11,17-keto steroids by trichomonads. 2,877,161, 3-10-59, Cl. 195—51.
- Sebek, Oldrich K., and G. B. Spero, to The Upjohn Co. 6-methyl-1-dehydro analogues of cortisone, hydrocortisone and 21-esters thereof. 2,897,218, 7-28-59, Cl. 260—397.45.
- Sebem S. A.: *See*—
- Tuscher, Jean E. 2,869,528.
- Sebens, Carl R., to The Perkin-Elmer Corp. Double-nulling radiation comparison system. 2,904,686, 9-15-59, Cl. 250—43.5.
- Sebestik, Aldrich E. Automatic room register. 2,915,745, 12-1-59, Cl. 340—332.
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- Cole, James D., Duckwitz, and Sebok. 2,888,192.
- Sebok, Frank, to Purolator Products, Inc. Air cleaner-intake silencer unit and filter element therefor. 2,871,976, 2-3-59, Cl. 183—44.
- Sebok, Joseph B., to Purolator Products, Inc. Air cleaner and silencer unit. 2,896,738, 7-28-59, Cl. 181—35.
- Seborg, Earnest Y., to Barnes Drill Co. Honing machine with plug sizing. 2,870,577, 1-27-59, Cl. 51—34.
- SeBreny, Bernhard B. Tubeless air wheel. 2,909,208, 10-20-59, Cl. 152—327.
- Seccombe, Lionel H., Jr.: *See*—
- Willis, Grant N., and Seccombe. 2,897,644.
- Seck, Werner G.: *See*—
- Gerber, Dale C., Seck, and Kurlinski. 2,876,481.
- Seckendorf, Hugo. Rain cape for postmen. 2,898,599, 8-11-59, Cl. 2—88.
- Seckler, Howard N.: *See*—
- Brooks, Chester E., Fleckenstein, Lee, and Seckler. 2,876,288.
- Seco Co., Inc.: *See*—
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- Vittands, Walter A. 2,868,623.
- Secord, John R., and E. A. Chapin, to General Motors Corp. Rotary shaft seal. 2,916,314, 12-8-59, Cl. 286—11.14.
- Secord, Robert N., to Godfrey L. Cabot, Inc. Process for producing finely-divided silica. 2,886,414, 5-12-59, Cl. 23—182.
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- Kivisto, Lauri J., and Seddon. 2,897,787.
- Seddon, Thomas R., to International Harvester Co. Double acting fluid control valve. 2,902,053, 9-1-59, Cl. 137—622.
- Sedergren, Erling D., to R. S. Sanford, R. H. Casler, J. O. Eames, W. A. Eaton, and E. D. Sedergren. Brake mechanism. 2,880,823, 4-7-59, Cl. 188—72.
- Sederlund, Conrad A. Form for molding concrete I-beams. 2,883,728, 4-28-59, Cl. 25—121.
- Sedergren, Erling D.: *See*—
- Sanford, Roy S., and Eames. 2,889,897.
- Sederquist, Stanley L. F., and O. F. Johnson; said Johnson assor. to said Sederquist. Coin dispenser. 2,895,488, 7-21-59, Cl. 133—6.
- Sedgfield, Hugh B., to The Sperry Gyroscope Co., Ltd. Accelerometers. 2,888,256, 5-26-59, Cl. 264—1.
- Sedgfield, Hugh B., to The Sperry Gyroscope Co., Ltd. Gyroscopic apparatus. 2,913,907, 11-24-59, Cl. 74—5.41.
- Sedgfield, Hugh B., and W. F. Luttrell, to The Sperry Gyroscope Co., Ltd. Gyroscopic apparatus. 2,868,021, 1-13-59, Cl. 74—5.4.
- Sedgfield, Hugh B., M. L. Jofeh, and R. Albrecht, to The Sperry Gyroscope Co., Ltd. Apparatus adapted to measure accelerations and inclinations. 2,869,851, 1-20-59, Cl. 264—1.
- Sedgfield, Hugh B., and R. Whalley, to The Sperry Gyroscope Co., Ltd. Torque-applying devices. 2,874,578, 2-24-59, Cl. 74—5.4.
- Sedgfield, Hugh B., and F. Errington, to The Sperry Gyroscope Co., Ltd. Gyroscopic apparatus for measuring rate of turn and linear acceleration. 2,873,006, 3-17-59, Cl. 264—1.
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- Sedgwick Machine Works, Inc.: *See*—
- Crosby, Peter F. 2,886,183.
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- Sedgwick, Robert K., to American Steel Foundries. Hydraulic machine and control circuits. 2,891,431, 6-23-59, Cl. 78-98.
- Sedgwick, Robert K., to Kearney & Trecker Corp. Machine tool for removing product from a container. 2,911,662, 11-10-59, Cl. 15-104.1.
- Sedgwick, William D., E. A. Schad, and C. V. Lashbrook; said Schad and said Lashbrook assors. to said Sedgwick. Trash and litter collecting apparatus. 2,878,508, 3-24-59, Cl. 15-354.
- Sedlacek, Franz. Lightning arrester. 2,896,104, 7-21-59, Cl. 313-42.
- Sedlacek, Karl. Leaping toy animal. 2,878,616, 3-24-59, Cl. 46-129.
- Sedlacsik, John. Electrostatic deposition. 2,894,691, 7-14-59, Cl. 239-15.
- Sedlacsik, John, Jr. Spray device acuated by supersonic means. 2,881,092, 4-7-59, Cl. 117-93.
- Sedlacsik, John, Jr. Method and apparatus for electrostatically applying multi-coatings. 2,894,485, 7-14-59, Cl. 118-626.
- Sedlacsik, John, Jr. Electrostatic spray coating apparatus and method. 2,913,186, 11-17-59, Cl. 239-15.
- Sedlacek, Herbert, and O. Waldrich. Hot machining of metal ingots. 2,869,432, 1-20-59, Cl. 90-43.
- Sedlock, Carl P.: See—
- Wilkinson, James D., and Sedlock. 2,916,082.
- See, Theodore S., and H. A. Frommelt, to La Salle Steel Co. Milling cutters. 2,881,507, 4-14-59, Cl. 29-105.
- Seeberg, George B., and H. E. Bargren, to Sundstrand Machine Tool Co. Milling machine. 2,868,089, 1-13-59, Cl. 90-21.
- Seeberger, Bertha: See—
- Seeberger, Fred B. 2,885,720.
- Seeberger, Fred B. and B. Seeberger, executrix of said F. B. Seeberger, deceased, to G. J. Segal. Caster. 2,885,720, 5-12-59, Cl. 16-44.
- Seeburger, Harold O.: See—
- Horsley, Lee H., and Seeburger. 2,915,559.
- Seed, Daniel, to Specialties Development Corp. Inflation equipment. 2,906,447, 9-29-59, Cl. 230-116.
- Seed, John C.: See—
- Baltzy, Richard, and Seed. 2,917,430.
- Seed, Kenneth W., to Phillips Petroleum Co. Hydrocarbon conversion method. 2,905,731, 9-22-59, Cl. 260-679.
- Seed, Leslie: See—
- Batty, John W., Lambert, Scott, and Seed. 2,913,481.
- Seed, Michael G.: See—
- Fefer, Gregory, Rudorff, and Seed. 2,876,386.
- Seefeldler, Matthias: See—
- Paschedach, Heinrich, and Seefeldler. 2,879,308.
- Seefeldt, Fred C., and J. Rubin, to General Dynamics Corp. Method of refrigerating a finely-divided material. 2,893,216, 7-7-59, Cl. 62-63.
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- Meurer, Siegfried, and Seegelken. 2,907,308.
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- Seeger, Edwin W.: See—
- Nolden, William F., and Seeger. 2,901,276.
- Seeger, Ernst, and A. Kottler, to Dr. Karl Thomae, G. m. b. H. Process for the production of dioxypyridylmethanes. 2,871,242, 1-27-59, Cl. 260-295.
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- Finelli, Anthony F., and Seeger. 2,888,437.
- Seeger, Nelson V., and T. G. Mastin, to Goodyear Tire & Rubber Co. Accelerator. 2,879,251, 3-24-59, Cl. 260-45.4.
- Seeger Refrigerator Co.: See—
- Sands, Peter W. 2,903,987.
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- Felts, Gordon P., Parks, and Seeger. 2,915,928.
- Seeger-Williams, Inc.: See—
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- Seegert, Neal, to Baso Inc. Control apparatus for fluid fuel burning apparatus and the like. 2,895,545, 7-21-59, Cl. 158-128.
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- Seehof, Jerrold M., and H. J. Trurnit. Fast response recording hygrometer. 2,904,765, 9-15-59, Cl. 338-35.
- Seel, Max, and R. H. Brodeur, to The Pennsylvania Railroad Co. Railway cars. 2,914,003, 11-24-59, Cl. 105-368.
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- Morway, Arnold J., Seelbach, and Lippincott. 2,917,458.
- Seelbach, Charles W., and W. J. G. McCulloch, to Esso Research and Engineering Co. Polymerization of alpha olefins. 2,893,984, 7-7-59, Cl. 260-93.7.
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- Seele, Harold A. Electro-magnetic relay. 2,916,580, 12-8-59, Cl. 200-87.
- Seeler, Charles E.: See—
- Bauer, Benjamin B., Gunter, and Seeler. 2,900,452.
- Seeler, Henry W., to United States of America, Air Force. Breathing apparatus. 2,882,896, 4-21-59, Cl. 128-142.
- Seeler, Henry W., to United States of America, Air Force. Pressure demand breathing oxygen mask with built-in regulator. 2,892,456, 6-30-59, Cl. 128-142.
- Seeler, Henry W., to United States of America, Air Force. Reducing and diluting adapter. 2,894,507, 7-14-59, Cl. 128-142.
- Seeler, Henry W. Respiratory apparatus. 2,897,833, 8-4-59, Cl. 137-64.
- Seeler, Henry W., to United States of America, Air Force. Self oriented mask harness arrangement. 2,912,978, 11-17-59, Cl. 128-146.
- Seeley, Dewey M., to United States Steel Corp. Grip for straightening structural sections. 2,918,961, 12-29-59, Cl. 153-35.
- Seeley, Donald C.: See—
- Dobrowolski, Raymond M., and Seeley. 2,912,353.
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- Hodges, Merwyn E., Koss, and Seeley. 2,879,454.
- Seeley, Harold T., to General Electric Co. Temperature responsive protective relay. 2,896,127, 7-21-59, Cl. 317-40.
- Seelig, Albert F., Jr.: See—
- Bachman, Fred E., and Seelig. 2,911,923.
- Seelig, Albert F., Jr., to American Steel Foundries. Rotor brake. 2,911,070, 11-3-59, Cl. 188-59.
- Seelig, Herman S.: See—
- Brennan, Harry M., Seelig, and Vander Haar. 2,892,799.
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- Seelmann, Frederick G.: See—
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- Seeloff, Melvin M.: See—
- Campbell, Donald M., and Seeloff. 2,879,490.
- Seeloff, Melvin M., to The Taylor-Winfield Corp. Welding current conductor bars. 2,879,374, 3-24-59, Cl. 219-89.
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- Seely, Llewellyn M., to Super-Grip Anchor Bolt Co., Inc. Method of making tubular, pronged reinforcing members for rock strata. 2,889,614, 6-9-59, Cl. 29-155.
- Seely, Richard E., to General Electric Co. Motor protector bracket. 2,882,002, 4-14-59, Cl. 248-205.
- Seelye, Arthur T. Holder for test tubes. 2,917,183, 12-15-59, Cl. 211-74.
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- Stoddard, Nicholas J., and Seem. 2,891,376.
- Seemuller, John R.: See—
- Webb, Edwin T., and Seemuller. 2,870,223.
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- Seenewald, Kurt: See—
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- Seevers, Delmar O., to California Research Corp. Seismic record statistical computer. 2,912,164, 11-10-59, Cl. 235-193.
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- Seewann, Theodore. Flower vase and packing device. 2,904,932, 9-22-59, Cl. 47-41.
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- Seff, Raymond J., to Velsicol Chemical Corp. Halogenated cyclic ethers. 2,918,479, 12-22-59, Cl. 260-346.1.
- Sefried, Harry H., II. Apparatus for rifling gun barrels. 2,901,815, 9-1-59, Cl. 29-1.1.
- Sefried, Harry H., II, and E. J. Gunnesson, 1/2 to Sears, Roebuck and Co., and 1/2 to The High Standard Mfg. Corp. Spring ejector means. 2,869,268, 1-20-59, Cl. 42-25.
- Segal, George J.: See—
- Seberger, Fred B. 2,885,720.
- Segal, Maragrete: See—
- Claas, Helmut F., R. H., and T. 2,913,977.
- Segal, Mitchell M.: See—
- Ball, Arthur F., Goldbaum, and Whitney. 2,906,039.
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- Segal, Stanley M. Flashback shield. 2,870,359, 1-20-59, Cl. 313-36.
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- Segall, Louis H., to Bendix Aviation Corp. Spark device. 2,867,740, 1-6-59, Cl. 313-130.
- Segall, Louis H., and J. C. Pelton, Jr., to Bendix Aviation Corp. Electrical pulse divider. 2,916,672, 12-8-59, Cl. 315-277.
- Sege, Thomas D., to Sperry Rand Corp. Electron beam forming apparatus. 2,916,659, 12-8-59, Cl. 315-5.34.
- Segelhorst, August V., to S. R. Bowen Co. Oil well jar-sealed type. 2,891,772, 6-23-59, Cl. 255-27.
- Seger, Francis M.: See—
- Bradley, John S., V. Otto, and Seger. 2,916,454.
- Seger, Harold B. Training device for skaters. 2,900,008, 8-18-59, Cl. 155-22.
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- Seger, Victor H.: See—
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- Segesman, Francis F.: *See—*  
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- Segrave, Patrick A.: *See—*  
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- Segraves, William B., and G. O. Hillard, Jr., to Esso Research and Engineering Co. Oxidation of hydrocarbon drying oils. 2,895,979, 7-21-59, Cl. 260-451.
- Segre, Emilio, J. W. Kennedy, and G. T. Seaborg, to United States of America, Atomic Energy Commission. Producing energy and radioactive fission products. 2,908,621, 10-13-59, Cl. 204-151.2.
- Segur, Asa B. Packaging apparatus. 2,917,991, 12-22-59, Cl. 100-7.
- Segura, Marnell A.: *See—*  
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- Sehn, Francis J., and M. M. Clemons; said Clemons assor. to said Sehn. Gripper mechanism for material handling device. 2,910,321, 10-27-59, Cl. 294-88.
- Sehn, William E.: *See—*  
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- Sehring, Richard: *See—*  
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- Sehring, Richard, and K. Zeile, to C. H. Boehringer Sohn. Phosphoric acid ester insecticides. 2,890,236, 6-9-59, Cl. 260-461.
- Sehring, Richard, and K. Zeile, to C. H. Boehringer Sohn. Organic phosphoric and thiophosphoric acid esters. 2,898,341, 8-4-59, Cl. 260-294.8.
- Seibel, Alfred F. Fuel and gaseous mixing unit. 2,879,948, 3-31-59, Cl. 239-427.
- Seiberling, Dale A., and F. W. Wish. Spray nozzle for liquid storage tanks. 2,895,658, 7-21-59, Cl. 239-559.
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- Seibert, Frank J., to Chipman Chemical Co., Inc. Process of making sodium metaborate and compositions comprising the same. 2,886,425, 5-12-59, Cl. 71-2.2.
- Seibert, Heinrich, K. Triebeneck, B. Bienert, and F. Baumann, to Farbenfabriken Bayer Akt. Basic dyestuffs for the manufacture of colored writing agents. 2,875,211, 2-24-59, Cl. 260-314.5.
- Seidel, Felix, and W. Singer, to VEB Farbenfabrik Wolfen. Process for producing aluminum salts. 2,907,633, 10-6-59, Cl. 23-92.
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- Seidel, William B., and B. H. Steinhard, to The Cincinnati Milling Machine Co. Loader for machine tool. 2,912,798, 11-17-59, Cl. 51-103.
- Seidel, Martin P., and J. H. Fooks, to Westinghouse Electric Corp. Cast-in reactor tie rods. 2,892,168, 6-23-59, Cl. 336-207.
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- Seidensticker, Raymond G., to Westinghouse Electric Corp. Photoelectric device. 2,907,969, 10-6-59, Cl. 338-15.
- Seidenstricker, Regis A., to Chain Belt Co. Apparatus for recovery of non-solubles from liquids. 2,888,143, 5-26-59, Cl. 210-525.
- Seidl, Herbert, to The Babcock & Wilcox Co. Combustion chamber with combined pulverized fuel and gas firing. 2,883,948, 4-28-59, Cl. 110-22.
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- Seidl, Hubert, to The Babcock & Wilcox Co. Fuel burning method. 2,918,024, 12-22-59, Cl. 110-28.
- Seidler, Sanford W., to United States of America, Army. Indicator unit for site survey. 2,898,453, 8-4-59, Cl. 250-1.
- Seidman, Louis, to Glaser Bros. Display carton and attachment therefor. 2,911,124, 11-3-59, Cl. 217-61.
- Seidman, Richard L.: *See—*  
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- Seidner, Milton. Adjustable roller hanger for pocket type sliding doors. 2,888,708, 6-2-59, Cl. 16-105.
- Seif, Eric: *See—*  
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- Seif, Eric, to Burroughs Corp. Beam advancement in magnetron beam switching tubes. 2,899,551, 8-11-59, Cl. 250-27.
- Seif, Gerald L. Weatherproof outlet box. 2,881,240, 4-7-59, Cl. 174-58.
- Seifert, Charles. Coupler for television signal distributing systems. 2,913,679, 11-17-59, Cl. 333-24.
- Seifert, Donald P. Hair clipper. 2,911,715, 11-10-59, Cl. 30-202.
- Seifert, Hans: *See—*  
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- Seifert, Leonard P.: *See—*  
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- Seifert, Maurice, to Dumatic Industries, Inc. Labelling machine. 2,905,866, 9-22-59, Cl. 317-123.
- Seifert, Richard: *See—*  
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- Seifert, William C., to D. W. Kent. Power-transmitting device. 2,890,575, 6-16-59, Cl. 64-1.
- Seifried, Walter: *See—*  
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- Seifter, Eli: *See—*  
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- Seifter, Eli, and G. A. Richardson, to Monsanto Chemical Co. Penicillin process. 2,870,064, 1-20-59, Cl. 195-36.
- Seigel, Harold O., to Rio Canadian Exploration Ltd. Method of mobile electromagnetism prospecting. 2,903,642, 9-8-59, Cl. 324-6.
- Seiger, Harry W. Coagulating surgical instrument. 2,888,928, 6-2-59, Cl. 128-303.17.
- Seiger, Harry W. Biopsy instrument. 2,898,906, 8-11-59, Cl. 128-2.
- Seigle, Robert K.: *See—*  
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- Seigle, William. Fishing float. 2,869,274, 1-20-59, Cl. 43-17.
- Seijo, Ernest: *See—*  
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Roper, Alec N., Seijo, and Barb. 2,914,505.
- Seil, Christian A., to Douglas Aircraft Co., Inc. Tertiary alkyl carbonyl orthosilicates. 2,914,550, 11-24-59, Cl. 260-448.8.
- Seiler, Erich. Easy to loosen fastening. 2,889,604, 6-9-59, Cl. 24-140.
- Seiler, Ernst E., to United States of America, Army. Device for inducing natural frequency vibration. 2,895,094, 7-14-59, Cl. 318-119.
- Seim, Maynard C.: *See—*  
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- Seip, Walter V., and A. H. Cherry. Tire chain fastener. 2,879,822, 3-31-59, Cl. 152-237.
- Seismograph Service Corp.: *See—*  
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- Seitz, Frederick: *See—*  
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- Seitz, Georg: *See—*  
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- Seitz, Karl: *See—*  
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- Seitz, Katherine B. Swimming pool cover. 2,895,143, 7-21-59, Cl. 4-172.
- Seitz, Pierre. Cap piece for pivot bearings. 2,876,618, 3-10-59, Cl. 53-140.
- Seitz, Pierre. Shock-absorbing bearing. 2,891,379, 6-23-59, Cl. 58-140.
- Seitz, William: *See—*  
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- Sejournet, Jacques, to Societe Anonyme dite: Comptoir Industriel d'Etrirage et Profilage de Metaux. Hot extrusion die. 2,907,454, 10-6-59, Cl. 207-17.
- Sejournet, Jacques, and J. Bonnassieux, to Comptoir Industriel d'Etrirage et Profilage de Metaux. Method of extruding metals. 2,893,534, 7-7-59, Cl. 207-10.
- Sekesco Co., Inc.: *See—*  
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- Sekine, Takeo, to Kabushiki-Kaisha Hattori Tokai-Ten. Photographic shutter including a flashlight synchronizing mechanism. 2,908,207, 10-13-59, Cl. 95-11.5.
- Sekmakas, Kazys, to Minnesota Mining and Mfg. Co. Aldehyde resin-epoxy resin-organic polyisocyanate prepolymer, method of making foam therefrom and product. 2,906,717, 9-29-59, Cl. 260-2.5.
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- Selas Corp. of America: *See—*  
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- Selbach, Henry V.: See—  
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- Selby, Claude L., to Construction Engineering Co. Ltd. Core making machine. 2,882,565, 4-21-59, Cl. 22-10.  
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 Selby, James, to C. H. Frye and B. Elliott & Co. Ltd. Machine vices. 2,903,931, 9-15-59, Cl. 81-033.  
 Selby, James, A. B. Kirkbride, and M. W. Trebble, to B. Elliott & Co. Ltd. Gearing and electric drills embodying the same. 2,899,850, 8-18-59, Cl. 77-7.  
 Selby, Lynn O. Liquid fuel burner plate. 2,894,568, 7-14-59, Cl. 159-88.  
 Selby, Meyer S., and E. R. Baush, to W. R. Grace & Co. Method of packaging. 2,891,870, 6-23-59, Cl. 99-174.  
 Selby, Myron C., to United States of America, Commerce. Micropotentiometer. 2,882,501, 4-14-59, Cl. 333-27.  
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 Selden, Irving H. Hydraulic torque converters. 2,907,429, 10-6-59, Cl. 192-58.  
 Selden, John K. Foamed slurry generator. 2,915,301, 12-1-59, Cl. 259-147.  
 Seldon, George E. Constant level mechanism for carburetors. 2,882,028, 4-14-59, Cl. 261-72.  
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 Selig, Guenther, to Remsel Industries, Inc. Couplers for camera attachments or the like. 2,897,928, 8-4-59, Cl. 189-36.  
 Selig, Ludwig, to Metallgesellschaft Akt. Granulating disc. 2,889,576, 6-9-59, Cl. 18-1.  
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- Seliger, Victor H., and W. J. Vafades, to Sperry Rand Corp., Ford Instrument Co. Division. Magnetic controller. 2,888,630, 5-26-59, Cl. 321-25.  
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 Keith, Carl D., and Seligman. 2,916,356.
- Seligman, Kurt L., to E. I. du Pont de Nemours and Co. Polyurethanes from difunctional polymers of conjugated dienes. 2,877,212, 3-10-59, Cl. 260-77.5.  
 Seligman, Robert B., to Philip Morris Inc. Production of diacetone alcohol. 2,879,298, 3-24-59, Cl. 260-594.  
 Seligson, George H. Photographic lighting unit. 2,876,338, 3-3-59, Cl. 240-1.3.  
 Selin, Karl I., to Basic Products Corp. Saturable core reactor regulators. 2,916,689, 12-8-59, Cl. 323-89.  
 Seljos, Arthur L., to Jersey Production Research Co. Automatic water level control for hydromatic brakes. 2,889,812, 6-9-59, Cl. 121-41.  
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- Sell, Theodore W., to Leverage Hand-Brake Co. Hand control for brake and accelerator. 2,875,638, 3-3-59, Cl. 74-484.  
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- Sellers, Frederick B., and H. M. Chapin, to Texaco Development Corp. Portland cement manufacture from oil shale. 2,904,445, 9-15-59, Cl. 106-100.  
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- Sellers, Jack D. Pressure controller. 2,884,844, 5-5-59, Cl. 98-1.5.  
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- Sellers, John C., to Johnson & Johnson. Cross-linked esters of maleic anhydrides-styrene copolymer and method for preparation. 2,870,128, 1-20-59, Cl. 260-78.5.  
 Sellers, John W.: See—  
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- Sellers, John W., and M. P. Wagner, to Columbia-Southern Chemical Corp. Treated pigments and method of preparing same. 2,892,807, 6-30-59, Cl. 260-41.5.  
 Sellers, Robert S.: See—  
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- Sellers, William N., to American Cyanamid Co. Method of producing a tow of filamentary material. 2,874,446, 2-24-59, Cl. 28-72.  
 Sellers, William N., to American Cyanamid Co. Apparatus and method for the liquid treatment of continuous filamentary material. 2,886,403, 5-12-59, Cl. 8-151.2.  
 Sellers, William N., and M. Sonnino, to American Cyanamid Co. Spinning device. 2,881,474, 4-14-59, Cl. 18-8.
- Sellet, Lucien, to Jacques Wolf & Co. Modified amino-plast resin complexes and processes for producing them. 2,870,122, 1-20-59, Cl. 260-69.  
 Selling, Hendrik J., and C. Bok, to Novivlas N.V. Process to produce from bast fibre material technical fibres suitable to be immediately worked up into first sliver. 2,901,776, 9-1-59, Cl. 19-29.
- Sellmann, Clara A. G.: See—  
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- Sellmer, Richard. Collapsible display and/or greeting card. 2,891,336, 6-23-59, Cl. 40-124.1.  
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- Sells, Gary L. Portable power saw with guide. 2,899,989, 8-18-59, Cl. 143-43.  
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- Selsing, Jorgen, to The Ohio Brass Co. Ceramic products. 2,898,217, 8-4-59, Cl. 106-46.  
 Selsted, Walter T., to Ampex Corp. Magnetic tape apparatus. 2,868,470, 1-13-59, Cl. 242-55.12.  
 Selsted, Walter T., and R. M. Brumbaugh, to Ampex Corp. Magnetic tape machine. 2,904,275, 9-15-59, Cl. 242-55.12.
- Seltman, Paul R., to Crescent Paper Tube Co., Inc. Ground surfaced laminated paper tubes. 2,895,511, 7-21-59, Cl. 138-76.  
 Seltzer, Edward, to Thomas J. Lipton, Inc. Process for preparing quick-cooking rice. 2,890,957, 6-16-59, Cl. 99-80.  
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 Seltzer, Robert E., and J. M. Hoff, to Wyandotte Chemicals Corp. Palletized bag squeezing machine. 2,918,863, 12-29-59, Cl. 100-233.
- Seltzer, William, to Vineland Poultry Laboratories. Method of improving the nutritive content of edible avian eggs and end-product thereof. 2,915,400, 12-1-59, Cl. 99-113.  
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- Selwitz, Charles M., to Gulf Research & Development Co. Preparation of dibasic acids. 2,867,657, 1-6-59, Cl. 260-537.  
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- Selwyn Press Ltd., The: See—  
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- Selyem, Edwin J.: See—  
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- Selyem, Edwin J., to General Motors Corp. Automatic throttle control. 2,876,877, 3-10-59, Cl. 192-3.  
 Selzer, Clarence F., R. T. Colburn, and M. Ebert, to Inventors Clinic. Inking device for typewriting machines. 2,904,160, 9-15-59, Cl. 197-150.
- Selzer, John. Power actuated tail gate elevator for motor vehicles. 2,889,059, 6-2-59, Cl. 214-77.
- Sem, Mathias O., to Elektrokemisk A/S. Manufacture of carbon blocks for use as electrodes. 2,883,708, 4-28-59, Cl. 18-54.7.
- Semchyshen, Marion: See—  
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- Semegen, Stephen T.: See—  
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- Semegen, Stephen T., to The B. F. Goodrich Co. Method of manufacturing a cellular article. 2,873,481, 2-17-59, Cl. 18-53.
- Semicon Inc.: See—  
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- Semmens, Peter W. B., to Imperial Chemical Industries Ltd. Preparation of potassium polyphosphate. 2,867,504, 1-6-59, Cl. 23-106.
- Semmens, Peter W. B., and J. D. Summers-Smith, to Imperial Chemical Industries Ltd. New chemical compounds. 2,880-239, 3-31-59, Cl. 260-567.6.
- Semon, Albert L. Fluid pressure regulators. 2,890,713, 6-16-59, Cl. 137-484.8.



- Semple, Robert E., to Con-Elco. Adjustable wire-wound systems. 2,892,171, 6-23-59, Cl. 338-180.  
 Semrau, Hugo F. Dial protractors. 2,912,762, 11-17-59, Cl. 33-75.  
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   Fox, Martin. 2,871,916.  
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 Sengewald, Rudolf, to Windmüller & Holscher. Dyeing device for printing machines. 2,891,471, 6-23-59, Cl. 101-157.  
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 Senn, Oliver F., and R. D. Englert, to Olin Mathieson Chemical Corp. Method for preparing boric acid. 2,913,311, 11-17-59, Cl. 23-149.  
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   Levkoff, David. 2,880,923.  
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   Murakami, Masuo, and Senoh. 2,919,289.  
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   Ryan, Herbert A. 2,908,610.  
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   Brewer, George R., and Sensiper. 2,869,018.  
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   Weisenberger, Adam A. 2,896,197.  
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 Seron, Suren M. Mouthpiece cover. 2,877,598, 3-17-59, Cl. 46-179.  
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   Wall, Monroe E., and Serota. 2,870,143.  
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- Servomex Controls Ltd.: *See*—  
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- Servonics, Inc.: *See*—  
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- Serwer, Harry. Paint receptacle. 2,887,705, 5-26-59, Cl. 15-121.3.
- Sesler, Robert W., D. H. Baldwin, and G. O. Sprouse, to Union Carbide Corp. Container filler. 2,874,733, 2-24-59, Cl. 141-87.
- Sessions Clock Co., The: *See*—  
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- Sessions, Marc H., to United States Borax & Chemical Corp. Cabined powder dispenser. 2,906,578, 9-29-59, Cl. 312-242.
- Sessions, Sharon D., to Zetetic Inc. Signalling comparator. 2,910,777, 11-3-59, Cl. 33-148.
- Sesso, Louis M., to S. C. Johnson & Son, Inc. Silicone coating compositions. 2,868,657, 1-13-59, Cl. 106-10.
- Setecka, John C. Individual tea brewing device. 2,887,037, 5-19-59, Cl. 99-295.
- Sethna, Patarasp R., to Bendix Aviation Corp. Suspension system. 2,901,239, 8-25-59, Cl. 267-8.
- Sethne, Magne, and I. Skorge, to Persil-fabrikken A/S. Adapter for container openings. 2,874,882, 2-24-59, Cl. 222-543.
- Setka, Raymond P., to Crane Co. Valve actuating mechanism or the like. 2,885,174, 5-5-59, Cl. 251-76.
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- Settele, Wilhelm, to Siemens-Plania Werke Akt. fuer Kohle-fabrikate. Instrument for measuring internal taper threads. 2,880,518, 4-7-59, Cl. 33-199.
- Settelmayer, Joseph J., and J. W. Wright, to F. N. Palmatier. Crankcase ventilator. 2,884,950, 5-5-59, Cl. 137-480.
- Setterblade, Earl O., to United States of America, Navy. Combustion control arrangement for afterburners. 2,899,799, 8-18-59, Cl. 60-39.72.
- Settles, Dean T., to Weldon Industries, Inc. Adjustable merchandise skid. 2,873,934, 2-17-59, Cl. 248-120.
- Settles, James C., to The Buckeye Steel Castings Co. Vibration absorber for vehicles. 2,887,071, 5-19-59, Cl. 105-392.5.
- Settles, James C., to The Buckeye Steel Castings Co. Spring group and damping mechanism. 2,900,181, 8-18-59, Cl. 267-9.
- Settles, James C., and W. W. Heimberger, to The Buckeye Steel Castings Co. Vibration absorbers for reciprocating tools. 2,875,731, 3-3-59, Cl. 121-13.
- Settzo, Robert J., to Corning Glass Works. Linear body gauging. 2,910,862, 11-3-59, Cl. 73-37.7.
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- Setzekorn, Eugene M.: *See*—  
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- Seur, Christiaan J., to North American Philips Co., Inc. Camera comprising a pick-up tube and a lens objective with a variable effective aperture ratio. 2,868,100, 1-13-59, Cl. 95-64.
- Seur, Christiaan J., and H. J. Boon, to North American Philips Co., Inc. Circuit-arrangement for use in television transmitting devices for scanning films. 2,890,278, 6-9-59, Cl. 178-7.2.
- Seuryneck, Bernard J. Pin crimping tool. 2,878,698, 3-24-59, Cl. 81-15.
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- Sevcik, Josef K., to Curtiss-Wright Corp. Combustion chamber construction. 2,884,759, 5-5-59, Cl. 60-39.65.
- Seven, Raymond P., to Morton Chemical Co. Continuously treating seeds by interaction thereupon to produce desired weight of seed treating agent. 2,894,873, 7-14-59, Cl. 167-38.
- Sevenpifer, Ross, to Polymer Corp. Ltd. Packaging machine. 2,875,566, 3-3-59, Cl. 53-334.
- Severance, Ralph H., to The Magnavox Co. Means for initiation of detonator. 2,873,680, 2-17-59, Cl. 102-73.
- Severance, Ralph H., to The Magnavox Co. Fuze arming mechanism. 2,887,057, 5-19-59, Cl. 102-79.
- Severance, Ralph H., to The Magnavox Co. Detonation delay device. 2,894,457, 7-14-59, Cl. 102-70.2.
- Severin, Axel A.: *See*—  
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- Severini, Goffredo, to Studi E. Brevetti Applicazioni Tessili S. r. l. Reel type apparatus for the liquid treatment of yarn. 2,867,108, 1-6-59, Cl. 68-205.
- Severini, Goffredo. Processes and equipments for the continuous treating of yarns. 2,883,259, 4-21-59, Cl. 8-151.1.
- Severson, Helmer E. Spraying and cleaning apparatus. 2,898,093, 8-4-59, Cl. 259-39.
- Severson, Kermit H. Toothpick holders. 2,877,892, 3-17-59, Cl. 206-37.
- Severson, Kermit H. Toothpick holders. 2,884,122, 4-28-59, Cl. 206-37.
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- Seving, Edwin F. Vehicle hoist cradle. 2,895,762, 7-21-59, Cl. 294-67.
- Seward, Edwin R., and W. C. Gainer, to ASCO Automatic Specialties Corp. Thread protector. 2,898,944, 8-11-59, Cl. 138-96.
- Seward, James C. Combined luggage carrier and seating unit for vehicles. 2,892,481, 6-30-59, Cl. 155-5.
- Seward, Kenneth O., to Cessna Aircraft Co. Terminal attaching machine. 2,917,099, 12-15-59, Cl. 153-1.
- Sewelin, Ernest R., to International Harvester Co. Motor vehicle body mounting means. 2,882,090, 4-14-59, Cl. 296-35.
- Sewell, Ben W.: *See*—  
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- Sewell, Ben W., to United States of America, Navy. Switch. 2,900,467, 8-18-59, Cl. 200-80.
- Sewell, Frederick R., to Percy Jones (Twinlock) Ltd. Posting tray for loose leaf filing systems. 2,877,773, 3-17-59, Cl. 129-29.
- Sewell, Frederick R., to Percy Jones (Twinlock) Ltd. Support member. 2,896,247, 7-28-59, Cl. 16-42.
- Sewell, Frederick R., to Percy Jones (Twinlock) Ltd. Posting tray for loose leaf filing systems. 2,910,069, 10-27-59, Cl. 129-16.
- Sewell, Philip W. Signaling device. 2,880,408, 3-31-59, Cl. 340-262.
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- Sewig, Rudolf F., to Voigtländer A.G. Photographic camera with spring mechanism. 2,917,981, 12-22-59, Cl. 95-11.
- Sexauer, William O., to The J. H. Day Co., Inc. Panner for twisted bread. 2,893,534, 7-7-59, Cl. 198-21.
- Sexton, Arthur R., to The Dow Chemical Co. Preparation of glyconitrile. 2,890,238, 6-9-59, Cl. 260-465.6.
- Sexton, Arthur R., to The Dow Chemical Co. Method for the preparation of iminodiacetic acid. 2,895,989, 7-21-59, Cl. 260-534.
- Sexton, James F. Beehive. 2,897,521, 8-4-59, Cl. 6-2.
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- Seyfang, Frank G. Emergency radio transmitter. 2,907,875, 10-6-59, Cl. 250-17.
- Seyferth, Dietmar, to Dow Corning Corp. Organosilicon polyboranes. 2,902,505, 9-1-59, Cl. 260-448.2.
- Seyforth, Rome C., to The Shelby Metal Products Co. Rotary display rack. 2,868,386, 1-13-59, Cl. 211-95.
- Seyfried, Arthur W., to Scovill Mfg. Co. Flexible coupling means for separable shafts. Re. 24,607, 2-24-59, Cl. 192-55.
- Seyfried, Arthur W., and P. W. Lahr, to Scovill Mfg. Co. Portable food mixer and support. 2,891,745, 6-23-59, Cl. 248-13.
- Seyler, Jay K.: *See*—  
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- Seymour, James E., to Central Farmers Fertilizer Co. Processes for producing phosphatic fertilizers. 2,908,561, 10-13-59, Cl. 71-33.
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- Seymour Mfg. Co., The: See—  
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- Seymour, Samuel L.: See—  
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- Seymour, Samuel L., and J. E. Duncan, to Pittsburgh Plate Glass Co. Glass composition. 2,901,365, 8-25-59, Cl. 106-52.
- Sferrazza, Peter J., to Sperry Rand Corp. Microwave power multiplier. 2,875,415, 2-24-59, Cl. 333-10.
- Sha'ag, Solomon. Building elements. 2,901,781, 9-1-59, Cl. 20-4.
- Shabaker, Hubert A., to Houdry Process Corp. Temperature control of exothermic reactions. 2,918,436, 12-22-59, Cl. 252-418.
- Shabica, Anthony C., to Ciba Pharmaceutical Products, Inc. Process for the preparation of a diamine. 2,908,714, 10-13-59, Cl. 260-583.
- Shackelford, Jesse J., to Fairmont Box Co. Box partition assembly device. 2,909,104, 10-20-59, Cl. 93-38.
- Shackelford, Renee M. F. Disposable bib with tying strips. 2,881,447, 4-14-59, Cl. 2-49.
- Shacklett, Comer D., to E. I. du Pont de Nemours and Co. Water soluble organotitanium compounds and process of preparation. 2,870,181, 1-20-59, Cl. 260-429.5.
- Shada, Joseph J., to Bellows Electric Sign Corp. Fluid power motor valve. 2,893,688, 7-7-59, Cl. 253-3.
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- Shafer, Homer J., to Shafer Valve Co. Valve constructed of pre-formed tubes and method of making same. 2,890,017, 6-9-59, Cl. 251-174.
- Shafer, Homer J., to Shafer Valve Co. Modulating pilot control responsive to pressure variations. 2,915,042, 12-1-59, Cl. 121-38.
- Shafer, James A., to National Malleable and Steel Castings Co. Car truck. 2,889,784, 6-9-59, Cl. 105-197.
- Shafer, John H., to General Electric Co. Epoxy resin-plastisol electrical insulating materials and method of making same. 2,892,808, 6-30-59, Cl. 260-45.5.
- Shafer, Orville B., and W. S. Rohland, to International Business Machines Corp. Printer for calculating unit. 2,909,993, 10-27-59, Cl. 101-93.
- Shafer, Orville B., and A. C. Reynolds, Jr., to International Business Machines Corp. Bit count checking circuit. 2,910,234, 10-27-59, Cl. 235-153.
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- Shafer, William L., Jr.: See—  
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- Shaffer, Grace L. Ironing board device. 2,888,760, 6-2-59, Cl. 38-136.
- Shaffer, Ivan H. Axle mounting for trailers. 2,877,023, 3-10-59, Cl. 280-104.5.
- Shaffer, Marlin R.: See—  
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- Shaffer, Paul B., to General Electric Co. Assembly and method for determining the end play of a rotatable shaft. 2,912,290, 11-10-59, Cl. 308-163.
- Shaffer, Perry, to United States of America, Air Force. Venturi flow meter. 2,872,810, 2-10-59, Cl. 73-213.
- Shaffer, Ralph: See—  
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- Shaffer Tool Works: See—  
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- Shaffer, Walter M. Hydraulic drive mechanism. 2,917,897, 12-22-59, Cl. 60-53.
- Shaffer, Walter M., to Towmotor Corp. Triple telescopic high free lift truck. 2,913,143, 12-22-59, Cl. 187-9.
- Shaffer, William B. Trailer hitch with plural articulation axes. 2,890,065, 6-9-59, Cl. 280-492.
- Shaffer, William R.: See—  
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- Shakesby, Leonard, to Canada Cycle and Motor Co. Ltd. Spoke tightening head. 2,896,697, 7-28-59, Cl. 157-1.5.
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- Shakman, James G., to Pabst Brewing Co. Canning process and product. 2,894,844, 7-14-59, Cl. 99-182.
- Shale, Correll C., to United States of America, Interior. Pulsating counter-flow feeder. 2,867,478, 1-6-59, Cl. 302-26.
- Shaleen, John S. Toilet. 2,886,826, 5-19-59, Cl. 4-10.
- Shaler, David, to Faximile, Inc. Connector-switch. 2,881,273, 4-7-59, Cl. 200-16.
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- Shalit, Harold, to Houdry Process Corp. Desulfurization of olefinic gasoline. 2,913,405, 11-17-59, Cl. 208-213.
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- Shallenberg, Robert L., to International Harvester Co. Non-throttled spark ignition engine. 2,887,993, 5-26-59, Cl. 123-32.
- Shamban, W. S., & Co.: See—  
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- Shames, Harold and S. J. Non-clogging aerator for faucets. 2,896,863, 7-28-59, Cl. 239-431.
- Shames, Harold and S. J. Aerator. 2,902,224, 9-1-59, Cl. 239-431.
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- Shanahan, Curtis M., to Container Corp. of America. Paper-board tray. 2,868,429, 1-13-59, Cl. 229-30.
- Shanahan, John L. Wind power machine. 2,867,283, 1-6-59, Cl. 170-15.
- Shanahan, William J., to Skiatron Electronics & Television Corp. Subscription television system. 2,912,486, 11-10-59, Cl. 178-5.1.
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- Shank, Robert J., and G. E. Bowler, to Hughes Aircraft Co. Disturbed line-of-sight fire control system. 2,878,466, 3-17-59, Cl. 343-7.
- Shank, Thomas A., to The Babcock & Wilcox Co. Manipulating mechanism for heavy duty metal working presses. 2,891,596, 6-23-59, Cl. 153-48.
- Shank, Walter B.: See—  
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- Shannon, Cecil E. Shoe extensions. 2,910,703, 11-3-59, Cl. 3-5.
- Shannon, Jack F.: See—  
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Green, Thomas A., Gorrie, Shannon, and Fink. 2,885,536.



- Shannon, Jack F., to Bailey Meter Co. Control systems with proportional band selecting means. 2,867,229, 1-6-59, Cl. 137-85.
- Shannon, Jack F., to Bailey Meter Co. Fluid pressure control system. 2,871,878, 2-3-59, Cl. 137-486.
- Shannon, Jack F., to Bailey Meter Co. Integrating mechanism. 2,877,669, 8-17-59, Cl. 74-789.
- Shannon, Jack F., to Bailey Meter Co. Control by indirect measurement. 2,889,114, 6-2-59, Cl. 236-14.
- Shannon, Jack F., C. H. Barnard, and H. C. Schink, to Bailey Meter Co. Control systems. 2,870,729, 1-27-59, Cl. 114-16.
- Shannon, James L., to Lockheed Aircraft Corp. Machine for sleeving wire bundles, and the like. 2,883,813, 4-28-59, Cl. 53-180.
- Shannon, John K. Battery cover. 2,886,622, 5-12-59, Cl. 136-170.
- Shannon Ltd., The: See—  
Posner, Bernard B. 2,871,861.
- Shannon, Merrill L. Pneumatic tire leakage indicator. 2,906,282, 9-29-59, Cl. 137-228.
- Shannon, Richard F., and R. H. Mitchell, to Owens-Corning Fiberglass Corp. High temperature resistant vitreous material. 2,901,379, 8-25-59, Cl. 117-124.
- Shanty, Frank, and R. S. Brumfield, to United States of America, Army. Canisterless gas mask. 2,910,979, 11-3-59, Cl. 128-141.
- Shapiro, Elliot: See—  
Gould, David H., Hershberg, and Shapiro. 2,900,400.
- Shapiro, Erving J. Machines for binding sheets of material. 2,897,504, 8-4-59, Cl. 1-187.
- Shapiro, Gloria M.: See—  
Adamec, Oswald T., and Shapiro. 2,886,889.
- Shapiro, Gustave, to United States of America, Navy. Plug system for joining electric sub-assembly to chassis. 2,879,491, 3-24-59, Cl. 339-17.
- Shapiro, Harry G., to Joseph Waldman & Sons. Watch crowns. 2,912,818, 11-17-59, Cl. 58-88.
- Shapiro, Henry, to Adler Electronics, Inc. Resonant unit. 2,918,636, 12-22-59, Cl. 333-82.
- Shapiro, Hymin: See—  
Brown, Jerome E., De Witt, and Shapiro. 2,868,673.  
Brown, Jerome E., De Witt, and Shapiro. 2,868,699.  
Brown, Jerome E., De Witt, and Shapiro. 2,910,492.
- Shapiro, Hymin, to Ethyl Corp. Manufacture of cyclopentadienyl manganese carbonyl compounds. 2,916,504, 12-3-59, Cl. 260-429.
- Shapiro, Hymin, to Ethyl Corp. Manufacture of cyclopentadienyl manganese carbonyl compounds. 2,916,505, 12-8-59, Cl. 260-429.
- Shapiro, Hymin, E. G. De Witt, and J. E. Brown, to Ethyl Corp. Process for the preparation of cyclooctamanganese tricarbonyls. 2,898,354, 8-4-59, Cl. 260-429.
- Shapiro, Isadore. Continuous process for producing diborane. 2,899,279, 8-11-59, Cl. 23-204.
- Shapiro, Isadore, and H. G. Weiss, to Olin Mathieson Chemical Corp. Process for the polymerization of mono-olefin and acetylene hydrocarbons. 2,867,675, 1-6-59, Cl. 260-673.
- Shapiro, Jonas M. Discriminator circuit. 2,871,349, 1-27-59, Cl. 250-27.
- Shapiro, Justin J.: See—  
Kremen, Jerome, and Shapiro. 2,873,644.
- Shapiro, Justin J., to American Instrument Co., Inc. Corrosion testing device. 2,867,784, 1-6-59, Cl. 336-134.
- Shapiro, Justin J., and N. M. Winslow; said Shapiro assor. to American Instrument Co., Inc. Porosimeter. 2,886,964, 5-19-59, Cl. 73-38.
- Shapiro, Lazarus C.: See—  
Radin, Arthur, Raiken, and Shapiro. 2,904,789.
- Shapiro, Leo, and A. D. St. John, to United States of America, Army. Lightweight recoilless gun. 2,884,837, 5-5-59, Cl. 89-17.
- Shapiro, Louis, to Radio Corp. of America. Registration system. 2,894,058, 7-7-59, Cl. 178-52.
- Shapiro, Louis, to Radio Corp. of America. Color-correction systems. 2,902,539, 9-1-59, Cl. 178-52.
- Shapiro, Louis, to Radio Corp. of America. Dynamic control circuit for cathode ray tubes. 2,915,582, 12-1-59, Cl. 178-72.
- Shapiro, Louis, to Radio Corp. of America. Particle counting apparatus. 2,918,216, 12-22-59, Cl. 235-92.
- Shapiro, Louis, to Radio Corp. of America. Color correction system. 2,918,523, 12-22-59, Cl. 178-52.
- Shapiro, M. Samuel: See—  
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- Shapiro, Martin D., to Royal-Pioneer Paper Box Mfg. Co., Inc. Folding box construction. 2,914,236, 11-24-59, Cl. 229-34.
- Shapiro, Nelson H.: See—  
Fleischmann, Lewis W. 2,914,887.
- Shapiro, Paul. Circular awning. 2,899,719, 8-18-59, Cl. 20-57.5.
- Shapiro, Reuben. Cover for pants hanger. 2,912,150, 11-10-59, Cl. 223-98.
- Shapiro, Seymour L.: See—  
Freedman, Louis, and Shapiro. 2,880,231.  
Freedman, Louis, Shapiro, and Geiger. 2,919,229.
- Shapiro, Seymour L., L. Freedman, and K. Weinberg, to U. S. Vitamin Corp. N,N'-alkylene-bis-(3-hydroxypiperidine) compounds and preparation thereof. 2,878,254, 3-17-59, Cl. 260-293.2.
- Shapiro, Seymour L., and L. Freedman, to U. S. Vitamin Corp. Methoximinopenteneones. 2,888,464, 5-26-59, Cl. 260-340.5.
- Shapiro, Seymour L., L. Freedman, and I. M. Rose, to U. S. Vitamin & Pharmaceutical Corp. Pyridylethylated salicylamides. 2,899,437, 8-11-59, Cl. 260-295.
- Shapiro, Seymour L., L. Freedman, and I. M. Rose, to U. S. Vitamin & Pharmaceutical Corp. 3-(d-alpha-methylphenethyl)-5-methyl-1,3-oxazolidine-2,4-dione. 2,909,467, 10-20-59, Cl. 167-65.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U. S. Vitamin & Pharmaceutical Corp. Aminoalkoxyalkylpiperidines. 2,909,526, 10-20-59, Cl. 260-294.7.
- Shapiro, Seymour L., L. Freedman, and K. Weinberg, to U. S. Vitamin & Pharmaceutical Corp. N,N'-substituted-bis-(3-oxypyridyl) betaines and their preparation. 2,909,527, 10-20-59, Cl. 260-296.
- Shapiro, Seymour L., L. Freedman, and K. Weinberg, to U. S. Vitamin & Pharmaceutical Corp. Certain N-aryl methyl-3-oxypyridyl betaines and process. 2,909,528, 10-20-59, Cl. 260-297.
- Shapiro, Seymour L., L. Freedman, and H. Soloway, to U. S. Vitamin & Pharmaceutical Corp. Succinate esters. 2,909,531, 10-20-59, Cl. 260-326.3.
- Shapiro, Seymour L., and L. Freedman, to U. S. Vitamin & Pharmaceutical Corp. Chlorobenzylated-indanols. 2,909,569, 10-20-59, Cl. 260-619.
- Shapiro, Sydel S. Apron device. 2,879,514, 3-31-59, Cl. 2-48.
- Shapiro, Uriel G., and T. S. Rochester, to Commercial Plastics Ltd. Means for bending the rolls of rolling machines. 2,897,538, 8-4-59, Cl. 18-2.
- Shapiro, Viola E. Heel protector. 2,894,339, 7-14-59, Cl. 36-72.
- Shapleigh, James H., to Hercules Powder Co. Process for the high temperature reaction of hydrocarbons. 2,904,497, 9-15-59, Cl. 208-47.
- Shapleigh, James H., to Hercules Powder Co. Method of cracking hydrocarbons. 2,904,502, 9-15-59, Cl. 208-130.
- Shapleigh, James H., to Hercules Powder Co. Tubular furnace. 2,914,386, 11-24-59, Cl. 23-277.
- Shappell, Stanley C., to Sylvania Electric Products Inc. Welding method and apparatus. 2,916,603, 12-8-59, Cl. 219-78.
- Share, Barnett. Coin operated devices and method of collecting coins therefrom. 2,869,777, 1-20-59, Cl. 232-16.
- Share, Barnett. Coin collection system. 2,869,778, 1-20-59, Cl. 232-16.
- Share, Jerome R.: See—  
Kinzelman, Francis J. 2,890,653.
- Sharin, Samuel, H. J. Kishi, T. R. Sheridan, and A. Liguori, to Radio Corp. of America. Control circuit. 2,919,306, 12-29-59, Cl. 178-26.
- Sharkey, Thomas B. Optical training device to increase reading speed. 2,875,530, 3-3-59, Cl. 35-35.
- Sharma, Jagan N., to Zenith Processing Corp. Self-timing dispenser for vaporizable organic liquids. 2,867,360, 1-6-59, Cl. 222-541.
- Sharma, Roshan L., to Collins Radio Co. Method of testing electromechanical filters. 2,887,877, 5-26-59, Cl. 73-67.2.
- Sharon Steel Corp.: See—  
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- Sharp, Allen W.: See—  
Kauffman, Floyd L., Van Dolah, and Sharp. 2,898,961.
- Sharp, Bernard C.: See—  
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- Sharp, Dexter B.: See—  
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- Sharp, Dexter B., and B. S. Wildt, to Monsanto Chemical Co. Manufacture of diphenylmethyl hydroperoxide. 2,883,427, 4-21-59, Cl. 260-610.
- Sharp, Donald E.: See—  
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- Sharp, Ethel C. Foundation garment. 2,878,810, 3-24-59, Cl. 128-432.
- Sharp, John J.: See—  
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- Sharp, John J. Moldboard blade attachment. 2,892,270, 6-30-59, Cl. 37-145.
- Sharp, John R.: See—  
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Arnot, Alfred E. R. 2,877,911.  
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Arnot, Alfred E. R. 2,883,003.  
Arnot, Alfred E. R. 2,894,536.  
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Arnot, Alfred E. R. 2,916,141.
- Sharp, John R., 1/2 to E. Kaye. Aircraft handling devices. 2,919,043, 12-29-59, Cl. 214-653.
- Sharp, John S., to Brunswick-Balke-Collender Co. Interchangeable equipment wall structures. 2,876,909, 3-10-59, Cl. 211-103.
- Sharp, Joseph F., and G. D. Frymier, to Arcadia Metal Products. Sliding closure construction. 2,913,046, 11-17-59, Cl. 160-91.
- Sharp, Joseph F., and G. D. Frymier, to Arcadia Metal Products. Corner joint structure. 2,918,708, 12-29-59, Cl. 20-35.



- Sharp, Leonard W. D., and D. J. Blight, to The Plessey Co. Ltd. Swash-plate potentiometer drive. 2,874,253, 2-17-59, Cl. 201-48.
- Sharp, Shelby P., and A. Steitz, Jr., to Pan American Petroleum Corp. Process for improving color of oil-soluble alcohols. 2,885,446, 5-5-59, Cl. 260-643.
- Sharp, Silas S.: *See*—  
Hill, Gideon D., Sharp, and Wolf. 2,876,088.
- Sharp, Theo F., to Morse Chain Co. Drive chain. 2,909,938, 10-27-59, Cl. 74-256.
- Sharpe, Arthur H., to Underwood Corp. Ribbon winding device for typewriters and the like. 2,872,016, 2-3-59, Cl. 197-151.
- Sharpe, Frederick P., to Kelsey-Hayes Co. Piercing and chamfering machine. 2,915,164, 12-1-59, Cl. 198-19.
- Sharpe, Frederick P., to Kelsey-Hayes Co. Automatic rim loading machine. 2,917,100, 12-15-59, Cl. 153-28.
- Sharpe, Jack T. Fishhook remover. 2,887,817, 5-26-59, Cl. 43-53.5.
- Sharpe Mfg. Co.: *See*—  
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- Sharpe, Philip B. Tire chain construction. 2,913,033, 11-17-59, Cl. 152-214.
- Sharpe, Philip B. Trailer hitch and steering means combined. 2,913,256, 11-17-59, Cl. 280-444.
- Sharpe, Verlos G., and J. S. Sucro, to General Motors Corp. Freezing device. 2,874,553, 2-24-59, Cl. 62-367.
- Sharpe, Verlos G., to General Motors Corp. Refrigerator door control. 2,893,726, 7-7-59, Cl. 268-72.
- Sharpe, Verlos G., to General Motors Corp. Ice block ejector. 2,908,148, 10-13-59, Cl. 62-344.
- Sharples Corp., The: *See*—  
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- Sharples, Edna: *See*—  
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- Sharples, Edwin H., to Courtaulds Ltd. Process for the recovery of zinc sulphate from solutions of zinc sulphate and magnesium sulphate. 2,867,496, 1-6-59, Cl. 18-54.
- Sharpless, Harry R., Jr.: *See*—  
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- Sharpless, William M.: *See*—  
Fris, Harald T., and Sharpless. 2,871,353.
- Sharps, Ralph L., to Goodman Mfg. Co. Tensioning apparatus for rope sideframe conveyors. 2,900,070, 8-18-59, Cl. 198-208.
- Sharrar, Osro G., W. R. Brooks, and N. J. Bigras, to W. R. Books, Inc. Archery hunting arrow. 2,888,264, 5-26-59, Cl. 273-106.5.
- Shashoua, Victor E., to E. I. du Pont de Nemours and Co. Acrylonitrile polymer composition containing the recurring unit of a polymerized bis (2-chloroethyl) vinyl phosphonate. 2,888,434, 5-26-59, Cl. 260-45.5.
- Shashoua, Victor E., to E. I. du Pont de Nemours and Co. Solution of a synthetic cross-linked polymer in a swelling liquid, process of using, and products obtained therefrom. 2,908,659, 10-13-59, Cl. 260-32.6.
- Shasta Water Co., The: *See*—  
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- Shatterproof Glass Corp.: *See*—  
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- Shattow, Emil E. Door switch deactivator. 2,875,290, 2-24-59, Cl. 200-61.79.
- Shaub, Kenneth D.: *See*—  
Edwards, John F., Jr., Shaub, and Friend. 2,919,320.
- Shaughnessy, Bernard F. Flag tower structure. 2,870,559, 1-27-59, Cl. 40-139.
- Shaughnessy, Frederick C., to Consolidated Edison Co. of New York, Inc. Induction welding of metallic pipes. 2,919,335, 12-29-59, Cl. 219-9.5.
- Shaull, John M. Timing device. 2,877,399, 3-10-59, Cl. 318-128.
- Shaven, Peter. Internally expanding band brake. 2,918,147, 12-22-59, Cl. 188-78.
- Shaver, Kenneth J., to Monsanto Chemical Co. Method of increasing fluidity of aqueous industrial mineral slurries. 2,900,266, 8-18-59, Cl. 106-100.
- Shaver, Kenneth J., and R. Perry, Jr., to Monsanto Chemical Co. Stabilization of sulfur trioxide. 2,868,624, 1-13-59, Cl. 23-174.
- Shaver, Raymond H.: *See*—  
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- Shaver, Raymond M., to Pullman Standard Car Mfg. Co. Stake pocket construction. 2,868,140, 1-13-59, Cl. 105-390.
- Shaver, Raymond M., and F. P. Adler, to Pullman-Standard Car Mfg. Co. Railway freight car corner cap. 2,885,971, 5-12-59, Cl. 105-406.
- Shaver, William C.: *See*—  
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- Shaver, William R.: *See*—  
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- Shaver, William R., to Pullman-Standard Car Mfg. Co. Nailable steel floor for freight cars. 2,900,055, 8-18-59, Cl. 189-34.
- Shaver, William R., and C. Arentze, to Pullman Inc. Door top corner closure and safety bracket. 2,918,707, 12-29-59, Cl. 20-26.
- Shaw, Bernard: *See*—  
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- Shaw, Charles D. Harrow lift attachment. 2,882,980, 4-21-59, Cl. 172-236.
- Shaw, David W. Spark plug testers. 2,910,644, 10-27-59, Cl. 324-19.
- Shaw, Elliott N.: *See*—  
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- Shaw, Eric B. Inflatable life-saving raft. 2,888,690, 6-2-59, Cl. 9-11.
- Shaw, Ernest C., 1/2 to H. E. Krebs. Tea bag construction. 2,889,035, 6-2-59, Cl. 206-5.
- Shaw, Ernest C., O. C. Frank, and C. C. Jackson, to The Filer & Stowell Co. Hydraulic debarker having automatically controlled log speed and nozzle spacing, stroke and speed. 2,893,452, 7-7-59, Cl. 144-208.
- Shaw, Ernest H.: *See*—  
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- Shaw, Ewart V. Automobile beverage container assembly. 2,915,082, 12-1-59, Cl. 137-353.
- Shaw, Francis B. Oven liner. 2,882,890, 4-21-59, Cl. 126-273.
- Shaw, George B.: *See*—  
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- Shaw, George S., to Glass Containers (Medical) Ltd. Tubular glass containers such as ampoules, phials and the like. 2,896,807, 7-28-59, Cl. 215-32.
- Shaw, Gilbert. Process for melt spinning and orienting polystyrene filaments. 2,900,220, 8-18-59, Cl. 18-54.
- Shaw, Harold R., to W. F. Avery. Tubeless tire collapsible bead stabilizer. 2,874,829, 2-24-59, Cl. 206-16.
- Shaw, Henry V., to General Motors Corp. Induction generator power system. 2,871,439, 1-27-59, Cl. 322-47.
- Shaw, Henry V., to General Motors Corp. Induction motor control system. 2,881,376, 4-7-59, Cl. 318-148.
- Shaw, Hugh H., M. Sanderson, and H. Bradshaw, to Cochran Motors. Carton sealing apparatus for field crop packing machine. 2,876,607, 3-10-59, Cl. 53-374.
- Shaw, Jack G., Jr., 1/4 to D. S. Palmer, and 1/4 to L. G. Saxton. Apparatus for controlling speed of automotive vehicles. 2,876,875, 3-10-59, Cl. 192-3.
- Shaw, James, to Keir and Cawder Ltd. Apparatus for transfer of dense solid materials. 2,910,168, 10-27-59, Cl. 198-57.
- Shaw, James A.: *See*—  
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- Shaw, John E. B., to American Sterilizer Co. Drip meter. 2,884,924, 5-5-59, Cl. 128-214.
- Shaw, John T., J. F. Hosler, and M. T. Beacham, to American Cyanamid Co. Alkane bis-sulfonic acids. 2,917,540, 12-15-59, Cl. 260-500.
- Shaw, Laurence D.: *See*—  
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- Shaw, Noel, to Shaw Process Development Corp. Investment materials for casting moulds. 2,911,310, 11-3-59, Cl. 106-38.2.
- Shaw Process Development Corp.: *See*—  
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- Shaw, Ralph D., Sr. Ventilator operating mechanism for awning type windows. 2,905,464, 9-22-59, Cl. 268-110.
- Shaw, Ralph M., Jr., to Pedrick Tool and Machine Co. Bending machines with reversible motor drive. 2,884,987, 5-5-59, Cl. 153-45.
- Shaw, Ralph W.: *See*—  
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- Shaw, Richard B.: *See*—  
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- Shaw, Robert F., to Underwood Corp. Frequency divider. 2,892,933, 6-30-59, Cl. 250-27.
- Shaw, Robert F., to Underwood Corp. Information processing system. 2,910,668, 10-27-59, Cl. 340-174.
- Shaw, Robert F., and A. A. Auerbach, to Underwood Corp. Storage apparatus for typing control. 2,902,675, 9-1-59, Cl. 340-174.
- Shaw, Robert J., and A. E. Devendorf, to General Electric Co. Collapsible leg stand. 2,875,972, 3-3-59, Cl. 248-168.
- Shaw, Robert M., to United States of America, Navy. Rate gyroscope calibrating device. 2,882,718, 4-21-59, Cl. 73-1.
- Shaw, Truman B. Fishing lure. 2,896,356, 7-28-59, Cl. 43-42.28.
- Shaw-Walker Co., The: *See*—  
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- Shaw, William E., R. M. Spenceley, and F. M. Teetzel, to United States of America, Atomic Energy Commission. Production of uranium tetrafluoride. 2,898,187, 8-4-59, Cl. 23-14.5.
- Shawhan, Elbert N., to Sun Oil Co. Dielectric constant meter. 2,906,948, 9-29-59, Cl. 324-60.
- Shawhan, Elbert N., to Sun Oil Co. Flow change detecting means. 2,906,949, 9-29-59, Cl. 324-61.
- Shawhan, Elbert N., to Sun Oil Co. Flow interrupting means. 2,918,095, 12-22-59, Cl. 141-210.
- Shawhan, Henry G. Fish hook extractor. 2,892,284, 6-30-59, Cl. 43-53.5.
- Shawinigan Chemicals Limited: *See*—  
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- Shawinigan Resins Corp.: *See*—  
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Lavin, Edward, Fitzhugh, and Crozier. 2,917,483.



- Shawmut Engineering Co.: See—  
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- Shawnee Mfg. Co., Inc.: See—  
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- Shawnee Pottery Co.: See—  
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- Shawver, Francis B. Hand cart adapted for use with interchangeable load carriers. 2,867,449, 1-6-59, Cl. 280—47.18.
- Shawver, G. D.: See—  
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- Shea, Francis L., to Barbour Welting Co. Two-part shoe welting and method of making the same. 2,916,834, 12-15-59, Cl. 36—78.
- Shea, Frederick L., Jr., to Great Lakes Carbon Corp. Process for preparing a carbonaceous material. 2,868,695, 1-13-59, Cl. 202—9.
- Shea, Frederick L., Jr., to Great Lakes Carbon Corp. Liquid oxygen explosive and methods for preparing same. 2,872,305, 2-3-59, Cl. 52—1.
- Shea, Howard W.: See—  
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- Shea, Howard W., to Socony Mobil Oil Co., Inc. Method for controlling the level of a gravitating compact bed of solids. 2,904,518, 9-15-59, Cl. 252—414.
- Shea, Reeford P., and C. Raudenbush, to Preco Inc. Automatic leveling control and clinometer. 2,893,134, 7-7-59, Cl. 33—206.
- Shea, Richard F., to General Electric Co. Temperature compensated-transistor amplifier. 2,889,416, 6-2-59, Cl. 179—171.
- Sheaffer, Isaac M., Jr.: See—  
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- Sheaffer, Isaac M., Jr., to Burroughs Corp. High speed stepping apparatus. 2,906,130, 9-29-59, Cl. 74—84.
- Sheaffer, W. A., Pen Co.: See—  
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- Sheahan, Henry L. Adjustable chair arm gripping tray holder. 2,867,401, 1-6-59, Cl. 248—226.
- Sheahan, Robert E., to General Electric Co. Vacuum cleaner floor tool with rotating brush and cleaning means for brush. 2,904,818, 9-22-59, Cl. 15—388.
- Sheahan, Robert E., to Casco Products Corp. Electrical terminal for a heating element. 2,914,650, 11-24-59, Cl. 219—44.
- Sheakley, Leonard J.: See—  
MacIntyre, Ronald, and Sheakley. 2,871,197.
- Shearer, Duane C.: See—  
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- Shearer, Jack E.: See—  
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- Shearer, James W.: See—  
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- Shearer, Newton H., Jr.: See—  
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- Shearer, Newton H., Jr., and H. W. Coover, Jr., to Eastman Kodak Co. Polymerization of  $\alpha$ -olefins to solid polymer by means of an alkali metal alkyl and a supported oxide. 2,887,471, 5-19-59, Cl. 260—93.7.
- Shearer, Robert B., to Spotnails, Inc. Fastener driving device. 2,907,038, 10-6-59, Cl. 1—3.
- Shearer, Wayne B.: See—  
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- Shearman, Spicer D., and B. E. Herbolshelmer, to Garrett Tubular Products, Inc. Extendible column for a stool or the like. 2,872,223, 2-3-59, Cl. 287—58.
- Shears, Stuart T., to United-Carr Fastener Corp. Fastening device. 2,876,518, 3-10-59, Cl. 24—153.
- Shechter, Leon, J. Wynstra, and N. H. Reinking, to Union Carbide Corp. Hardener for epoxy resin composition. 2,897,179, 7-28-59, Cl. 260—47.
- Shecter, George O. Device for dispensing and counting homogeneous objects. 2,906,070, 9-29-59, Cl. 53—59.
- Sheedlo, Wilfred L. Portable folding stove. 2,917,039, 12-15-59, Cl. 126—9.
- Sheehan, James W. Apparatus for internal forging of chain links. 2,893,199, 7-7-59, Cl. 59—30.
- Sheehan, John A.: See—  
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- Sheehan, Robert E., to Bibb Mfg. Co. Soil resistant textile material and method of making the same. 2,876,140, 3-3-59, Cl. 117—139.5.
- Sheehan, Robert V.: See—  
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- Sheehan, Thomas V.: See—  
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- Sheehy, Edward M., to Gadget-Of-The-Month Club, Inc. Can punches. 2,898,675, 8-11-59, Cl. 30—16.
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- Sheen, Robert T., to Milton Roy Co. System with plural-way valve for metering fluid. 2,881,958, 4-14-59, Cl. 222—250.
- Sheene, William E., Sr., to The National Asphalt Grave Vault Co. Burial casket vault. 2,911,703, 11-10-59, Cl. 27—35.
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- Sheets, Vernal L., to Chicago Wheel & Mfg. Co. Abrading wheels. 2,907,148, 10-6-59, Cl. 51—206.
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- Sheetz, Charles E., to Food Machinery and Chemical Corp. Bag holding apparatus. 2,910,258, 10-27-59, Cl. 248—101.
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- Sheetz, Walter F.: See—  
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- Sheffield Twist Drill & Steel Co. Ltd., The: See—  
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- Shefield, Wilbur L.: See—  
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- Shelby, Earl E. Slip tiller. 2,915,995, 12-8-59, Cl. 111—10.
- Shelby, Eunice E. Holder for strip material. 2,880,442, 4-7-59, Cl. 15—231.
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- Shelden, Charles H. Combined door and seat lock for automobiles. 2,872,241, 2-3-59, Cl. 296—65.
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- Sheldon, George H., to St. Anne's Board Mill Co. Ltd. De-watering in the manufacture of paper and board. 2,881,673, 4-14-59, Cl. 92—39.
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- Shelly, Dewitt L., to Westinghouse Air Brake Co. Pulsation dampener device. 2,875,786, 3-3-59, Cl. 138—30.
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- Shenker Displays, Inc.: *See*—  
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- Shenker, Joseph, to Shenker Displays, Inc. Article support and display device. 2,893,566, 7-7-59, Cl. 211—129.
- Shenkin, Bernard. Article supporting and displaying device. 2,879,899, 3-31-59, Cl. 211—55.
- Shepard, Alva P., Jr.: *See*—  
 Shepard, Alva P., III. 2,905,444.
- Shepard, Alva P., III, deceased, by A. P. Shepard, Jr. and E. Shepard, heirs. Core barrel. 2,905,444, 9-22-59, Cl. 255—72.
- Shepard, Alvin F., to Hooker Chemical Corp. Vulcanization of butadiene rubbers with phenolaldehyde reaction products and product obtained thereby. 2,898,321, 8-4-59, Cl. 260—43.
- Shepard, Alvin F., to Hooker Chemical Corp. Vulcanization of butadiene rubbers with phenolaldehyde reaction products and product obtained thereby. 2,898,322, 8-4-59, Cl. 260—43.
- Shepard, David H., to Intelligent Machines Research Corp. Apparatus for reading. 2,897,481, 7-28-59, Cl. 340—149.
- Shepard, Emor O.: *See*—  
 Sandin, Jerome, and Shepard. 2,875,882.
- Shepard, Evalyn: *See*—  
 Shepard, Alva P., III. 2,905,444.
- Shepard, Francis H., Jr. Frequency meter. 2,908,864, 10-13-59, Cl. 324—78.
- Shepard, George A., to Republic Steel Corp. Process of preparing steel for enameling. 2,886,498, 5-12-59, Cl. 204—38.
- Shepard, John W.: *See*—  
 Alm, Robert M., and Shepard. 2,891,084.
- Shepard, Ralph M.: *See*—  
 Endres, Donald M., and Shepard. 2,904,377.
- Shepard, Ralph M., to Muskegon Piston Ring Co. Expander structure. 2,904,376, 9-15-59, Cl. 309—40.
- Shepard, Walter P., Jr. Bait miser. 2,871,611, 2-3-59, Cl. 43—44.2.
- Shepard Warner Elevator Co.: *See*—  
 Hoffmann, Edson A. 2,888,099.
- Shepardson, Roger M. Composition containing bamboo particles and thermosetting resin. 2,898,314, 8-4-59, Cl. 260—17.2.
- Shephard, Donald, 1/2 to E. De Mauro and 1/2 to C. C. Stone. Cut-off tool. 2,891,300, 6-23-59, Cl. 29—95.
- Shephard, Grove H., and C. H. Frick, to General Motors Corp. Engine-control mechanism. 2,891,526, 6-23-59, Cl. 123—99.
- Shephard, Harry D., Jr., to Foundry Services Inc. Hot-top for ingot mold. 2,867,871, 1-13-59, Cl. 22—147.
- Shephard, James A., to Universal Winding Co. Face cam and double follower. 2,871,723, 2-3-59, Cl. 74—567.
- Shepherd, Alexander T.: *See*—  
 Williamson, David T. N., Shepherd, and Walker. 2,886,717.
- Shepherd, Alexander T., and G. S. Walker, to Ferranti Ltd. Measuring apparatus. 2,886,718, 5-12-59, Cl. 250—220.
- Shepherd, Charles C.: *See*—  
 Dykstra, Fred J., Hall, and Shepherd. 2,904,458.
- Shepherd, Charles R.: *See*—  
 Gentry, Donald P., and Shepherd. 2,883,358.



- Shepherd, Douglas A., to The Upjohn Co. 10-(2-pyrrolidyl-alkyl) derivatives of phenothiazine. 2,868,785, 1-13-59, Cl. 260—243.
- Shepherd, George R.: *See*—  
Flight, Theodore N., and Shepherd. 2,898,544.
- Shepherd, George R. L., I. G. Thompson, and A. T. Watson, to Esso Research and Engineering Co. Sulfurization process. 2,905,664, 9-22-59, Cl. 260—125.
- Shepherd, Irving L. Orchid plant holder. 2,893,169, 7-7-59, Cl. 47—47.
- Shepherd, James W.: *See*—  
Feuer, Henry, and Shepherd. 2,868,838.  
Feuer, Henry, and Shepherd. 2,898,376.
- Shepherd, Judson O'D., deceased; M. F. Shepherd, executrix. Adjustable sequential program controller. 2,876,343, 3-3-59, Cl. 250—20.
- Shepherd, Margaret F.: *See*—  
Shepherd, Judson O'D. 2,876,343.
- Shepherd, Neal H., to General Electric Co. Frequency detection method and apparatus therefor. 2,899,639, 8-11-59, Cl. 324—79.
- Shepherd, Neal H., to General Electric Co. Communication system with automatic amplitude control. 2,912,569, 11-10-59, Cl. 250—13.
- Shepherd, Ridgley G., Jr., and E. C. Dearborn, to United States Testing Co., Inc. Epoxy resins cured with dianhydrides of tetracarboxylic acids. 2,871,221, 1-27-59, Cl. 260—47.
- Shepherd, Sydney A.: *See*—  
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- Sheppard, Thomas C. R. Comminuting apparatus. 2,876,953, 3-10-59, Cl. 241—38.
- Sheppard, Thomas C. R. Comminuting apparatus. 2,876,954, 3-10-59, Cl. 241—46.
- Sheppard, Thomas C. R. Comminuting apparatus. 2,918,222, 12-22-59, Cl. 241—46.
- Shepherd, William G., to Bendix Aviation Corp. Pickup tubes. 2,869,016, 1-13-59, Cl. 313—339.
- Shepherd, William G., to Bendix Aviation Corp. High frequency structure. 2,900,560, 8-18-59, Cl. 315—519.
- Sheppard, Wyley. Ventilators. 2,875,678, 3-3-59, Cl. 98—43.
- Sheppard, Wyley. Ventilators. 2,900,892, 8-25-59, Cl. 98—43.
- Sheper, Ross. Apparatus for wrapping lollipops and the like. 2,872,768, 2-10-59, Cl. 53—200.
- Sheppard, Charles B., and C. I. Bohlen, to Fruehauf Trailer Co. Two-way movable roof mechanism. 2,912,277, 11-10-59, Cl. 296—137.
- Sheppard, James K.: *See*—  
Leonard, Carl L., Schneider, and Sheppard. 2,906,372.
- Sheppard, Richard H. Check valve for Diesel engine fuel pump. 2,903,014, 9-8-59, Cl. 137—539.
- Sheppard, Richard H. Trumpet assembly. 2,904,145, 9-15-59, Cl. 192—4.
- Sheppard, Richard H. Power steering device. 2,909,076, 10-20-59, Cl. 74—388.
- Sheppard, Stephen T.: *See*—  
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- Sher, Arnold, and J. S. Amstock, to John A. Roebling's Sons Corp. Electric cable clamp. 2,899,160, 8-11-59, Cl. 248—61.
- Shera, George M.: *See*—  
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- Sherban, Daniel V., to The Babcock & Wilcox Co. Metallurgical furnace. 2,878,011, 3-17-59, Cl. 266—33.
- Sherbondy, Frank Y. Pressing machine accessory. 2,875,536, 3-3-59, Cl. 38—12.
- Sherbondy, William A. Calking gun and the like. 2,877,935, 3-17-59, Cl. 222—326.
- Sherbondy, William A. Compact carpet sweeper having fan with flexible drive shaft. 2,883,695, 4-28-59, Cl. 15—342.
- Sherbrook, Victor A. Machine for making sewing ribs for the insoles of footwear. 2,911,214, 11-3-59, Cl. 270—94.
- Sherer, Albert L., and J. J. Kazmierzak, to Summit Mfg. Co., Division of Ace Tool Engineering Co., Inc. Valve. 2,902,044, 9-1-59, Cl. 137—199.
- Sherer, Kenneth E.: *See*—  
Norman, Richard M., Powell, and Sherer. 2,896,257.
- Sherhod, Kenneth R.: *See*—  
Conway, Hugh G., and Sherhod. 2,873,137.
- Sheridan, James V. Hydroponic unit with compressible reservoir. 2,870,574, 1-27-59, Cl. 47—1.2.
- Sheridan, James V., and O. M. Lewis. Tire truing device comprising hydraulically operated tire support and adjustable cam operated cutting tool. 2,893,479, 7-7-59, Cl. 157—13.
- Sheridan, John W. Portable eye-testing apparatus. 2,893,288, 7-7-59, Cl. 88—22.
- Sheridan, T. W. & C. B. Co.: *See*—  
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Zuercher, Anthony J. 2,879,636.  
Zuercher, Anthony J., and Schweizer. 2,911,213.
- Sheridan, Thomas L., Jr. Duck blind. 2,889,839, 6-9-59, Cl. 135—6.
- Sheridan, Thomas R.: *See*—  
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- Sherk, Daniel L.: *See*—  
Wayman, Morris, Sherk, and Kraske. 2,882,965.
- Sherlock, Barbara I.: *See*—  
Sherlock, Edward B. 2,878,596.
- Sherlock, Edward B., to B. I. Sherlock. Resilient ramp shoe. 2,878,596, 3-24-59, Cl. 36—51.
- Sherlock, Margaret, N. Sperber, and D. Papa, to Schering Corp. N (2 substituted thio phenyl) N phenyl, alkylene diamines. 2,889,328, 6-2-59, Cl. 260—268.
- Sherlock, Margaret H., to Schering Corp. Unsaturated-piperazino-alkyl-phenothiazines. 2,899,431, 8-11-59, Cl. 260—243.
- Sherlock, Margaret H., and N. Sperber, to Schering Corp. Heterocyclic amides. 2,887,481, 5-19-59, Cl. 260—243.
- Sherman, Alex.: *See*—  
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- Sherman, Albert J.: *See*—  
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- Sherman, Arnold: *See*—  
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- Sherman, Barney: *See*—  
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- Sherman, Clark W. Handled carton. 2,898,029, 8-4-59, Cl. 229—41.
- Sherman, Edwin W. Holder for grinding threading tools and the like. 2,912,801, 11-17-59, Cl. 51—220.
- Sherman, Eugene H. Point saving device. 2,888,914, 6-2-59, Cl. 123—179.
- Sherman, George R., to General Electric Co. Removable oven door structure. 2,873,737, 2-17-59, Cl. 126—191.
- Sherman, H. B., Mfg. Co.: *See*—  
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- Sherman, Herbert P. Machine for spirit duplicating. 2,907,272, 10-6-59, Cl. 101—132.5.
- Sherman, Kenneth I.: *See*—  
Eckess, William S., Sherman, and Deavenport. 2,888,525.
- Sherman, Loyd B. Pipe wrenches. 2,873,636, 2-17-59, Cl. 81—180.
- Sherman, Orville B., to Owens-Illinois Glass Co. Machine for molding plastic materials. 2,896,251, 7-28-59, Cl. 18—5.
- Sherman, Orville B., and G. V. Mumford, to Owens-Illinois Glass Co. Apparatus for feeding plasticized materials. 2,871,516, 2-3-59, Cl. 18—30.
- Sherman, Orville B., and L. D. Soubier, to Owens-Illinois Glass Co. Apparatus for making plastic articles. 2,901,769, 9-1-59, Cl. 18—5.
- Sherman Paper Products Corp.: *See*—  
Jennings, Harley Y. 2,883,303.
- Sherman Products, Inc.: *See*—  
Brinkel, Edwin P. 2,903,145.  
Williams, Edred B. 2,902,922.
- Sherman, Ralston M., to The Silent Glow Oil Burner Corp. Incinerators. 2,869,487, 1-20-59, Cl. 110—8.
- Sherman, Ralston M., to The Silent Glow Oil Burner Corp. Fluid fuel burning apparatus. 2,869,626, 1-20-59, Cl. 158—4.
- Sherman, Ralston M., to The Silent Glow Oil Burner Corp. Brooders. 2,870,966, 1-27-59, Cl. 237—14.
- Sherman, Ralston M., to The Silent Glow Oil Burner Corp. Fluid fuel burner. 2,897,885, 8-4-59, Cl. 158—76.
- Sherman, Ralph, deceased; Alex. and Arnold Sherman, executors. Circuit protective variable ratio transformer system. 2,905,864, 9-22-59, Cl. 317—9.
- Sherman, Roger M., to W. R. Ames Co. Tool for applying a flexible locking member to a pipe coupling or similar device. 2,884,824, 5-5-59, Cl. 81—3.
- Sherman, Roger M., to W. R. Ames Co. Pipe coupling having a partially flexible locking member. 2,916,305, 12-8-59, Cl. 285—5.
- Sherman, Thomas L., to The Battelle Development Corp. Cage control device for slant type engine. 2,917,931, 12-22-59, Cl. 74—60.
- Sherman, William R., to Abbott Laboratories. 5-(5-nitro-2-furyl)-1,3,4-oxadiazoline-2-one or thione and process. 2,918,473, 12-22-59, Cl. 260—307.
- Sherno, Stanley A., to J. Craig. Battery cable terminal. 2,887,668, 5-19-59, Cl. 339—226.
- Sherrill, James W.: *See*—  
Paton, Joseph H., Sherrill, and Vander Pyl. 2,901,949.
- Sherrill, John F., to E. R. Lemert. Variable speed fluid pressure actuated impact device. 2,876,742, 3-10-59, Cl. 121—20.
- Sherrill, Joseph H., to R. J. Reynolds Tobacco Co. Apparatus for packing and wrapping cigarettes. 2,870,584, 1-27-59, Cl. 53—55.
- Sherrill, Joseph H., to R. J. Reynolds Tobacco Co. Carton packing apparatus. 2,909,016, 10-20-59, Cl. 53—61.
- Sherritt Gordon Mines Ltd.: *See*—  
Evans, David J. I., and Romanchuk. 2,867,528.  
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Forward, Frank A., and Armstrong. 2,898,197.  
Forward, Frank A., and Lin. 2,867,529.
- Sherron, Percival H., to Illuminated outdoor telephone booth. 2,881,306, 4-7-59, Cl. 240—2.
- Sherron, Percival H. Telephone booth. 2,896,694, 7-28-59, Cl. 155—78.
- Sherron, Percival H. Telephone booth door assembly. 2,900,020, 8-18-59, Cl. 160—206.
- Sherron, Percival H. Apparatus for joining telephone booths. 2,909,252, 10-20-59, Cl. 189—36.
- Sherron, Percival H. Telephone booth. 2,912,073, 11-10-59, Cl. 189—2.
- Sherry, Herbert J.: *See*—  
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- Sherets, James H., and R. W. Moorman, to Pittsburgh Plate Glass Co. Joints between cellulated glass and mortar-like materials. 2,888,360, 5-26-59, Cl. 117-8.
- Sherets, William M., J. E. Tatsak, and W. E. Zurney, to Pittsburgh Plate Glass Co. Fin grinding machine. 2,873,559, 2-17-59, Cl. 51-135.
- Sherwen, Joseph W., to The General Electric Co. Ltd. Apparatus for conveying materials and articles. 2,875,889, 3-3-59, Cl. 198-220.
- Sherwin-Williams Co., The: See—
- Binder, Alfred. 2,871,553.
- Budewitz, Eugene P. 2,892,802.
- Cryer, John. 2,894,988.
- Goldsholl, Morton, and Van Stone. 2,890,530.
- Grummitt, Oliver J., and Stearns. 2,894,849.
- Hunn, James V. 2,872,349.
- Hunn, James V., and Ogren. 2,871,500.
- Sample, James H. 2,890,186.
- Sample, James H. 2,901,465.
- Sample, James H., and Williams. 2,890,185.
- Van Loo, Maurice, and Bitter. 2,886,456.
- Willis, Victor M. 2,878,135.
- Sherwood, Edwin T., and H. C. Ganiere, to Globe-Union Inc. Low tension ignition system. 2,879,451, 3-24-59, Cl. 315-214.
- Sherwood, Henry A., to Infra Electronics Corp. Tone arm structure for sound equipment. 2,877,020, 3-10-59, Cl. 274-23.
- Sherwood, Henry A., to Minitone Inc. Motor governor. 2,894,192, 7-7-59, Cl. 318-325.
- Sherwood, Henry A., to H. A. Sherwood. Transducer. 2,916,561, 12-8-59, Cl. 179-100.41.
- Sherwood, Henry A. Drive means for transducer in recording and reproducing machine. 2,917,930, 12-22-59, Cl. 74-25.
- Sherwood, John R.: See—
- Perkins, William C., Sherwood, and Jacobson. 2,886,708.
- Sherwood, John R., to Collins Radio Co. Coarse frequency discriminator. 2,901,614, 8-25-59, Cl. 250-40.
- Sherwood, Ralph L.: See—
- Armstrong, Lorne D., and Sherwood. 2,877,396.
- Mueller, Charles W., and Sherwood. 2,870,049.
- Sherwood, Robert C., and R. H. Lundquist, to California-Doran Heat Treating Co. Method of oil quenching end-closed vessels. 2,872,364, 2-3-59, Cl. 148-21.55.
- Sherwood, Walter A., to The Farmingdale Corp. Floating non-sticking blades. 2,873,683, 2-17-59, Cl. 103-84.
- Sherwood, Walter A., and T. D. Verrill, to Farmingdale Mfg. Corp. Lay for weaving looms. 2,897,843, 8-4-59, Cl. 139-188.
- Shesser, Arthur B.: See—
- Peterson, Thomas D., and Shesser. 2,891,185.
- Shewmon, Ralph K., and W. G. Pontis, to General Motors Corp. Domestic appliance. 2,909,333, 10-20-59, Cl. 241-46.
- Shiba, Shuhei. Automatic web break detector in the rolling press. 2,896,944, 7-28-59, Cl. 271-2.3.
- Shibe, William J., Jr., to R. M. Hollingshead Corp. Disiloxane ester ethers. 2,909,551, 10-20-59, Cl. 260-448.8.
- Shield, Lawrence A. Collapsible cover for vehicle beds. 2,882,091, 4-14-59, Cl. 296-105.
- Shield, Lawrence A. Woven wire splicing means. 2,887,333, 5-19-59, Cl. 287-54.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Folding machine. 2,898,818, 8-11-59, Cl. 93-49.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Folding and gluing machine. 2,898,819, 8-11-59, Cl. 93-49.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Folding machine. 2,898,821, 8-11-59, Cl. 93-49.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Spring feeder for warped board. 2,902,280, 9-1-59, Cl. 271-44.
- Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Cutting and creasing press. 2,905,067, 9-22-59, Cl. 93-58.3.
- Shields, Donald J.: See—
- Coover, Harry W., Jr., and Shields. 2,883,360.
- Wooten, Willis C., Jr., and Shields. 2,879,256.
- Shields, George B., to Webster Electric Co. Tape footage indicator. 2,869,240, 1-20-59, Cl. 33-127.
- Shields, George B., to Webster Electric Co. Recorder-reproducer. 2,909,617, 10-20-59, Cl. 179-100.2.
- Shields, George B., and R. D. Stepp, to Pittsburgh Plate Glass Co. Apparatus for stretching plastic interlayers. 2,873,474, 2-17-59, Cl. 18-1.
- Shields, George E. Adjustable drapery support. 2,894,710, 7-14-59, Cl. 248-265.
- Shields, Wendell H. Vending machine. 2,868,344, 1-13-59, Cl. 194-10.
- Shields, William D.: See—
- Koch, Fred C., and Shields. 2,890,738.
- Shifflett, Elwayne W.: See—
- Girdwood, Arthur J., and Shifflett. 2,895,666.
- Shiffman, Jerome. Display containers. 2,868,366, 1-13-59, Cl. 206-45.2.
- Shiffman, Jerome. Display containers. 2,868,367, 1-13-59, Cl. 206-45.2.
- Shifrin, Roy. Worm scissors. 2,892,285, 6-30-59, Cl. 43-53.5.
- Shikles, Horace E., Jr., and L. E. Watts. Beverage dispensing apparatus. 2,894,377, 7-14-59, Cl. 62-306.
- Shikoku Kasei Kogyo Co., Ltd.: See—
- Nobuo, Yokota. 2,915,374.
- Shilliday, Theodore S., C. S. Peet, and A. E. Middleton, to United States of America, Air Force. Titanium-dioxide rectifiers. 2,887,633, 5-19-59, Cl. 317-238.
- Shillin, Rudolph. Fish lure. 2,898,700, 8-11-59, Cl. 43-42.29.
- Shillington, Harry R., to Western Electric Co., Inc. Testing circuits. 2,911,590, 11-3-59, Cl. 324-51.
- Shinomura, Kenji. Rotary internal combustion engine. 2,904,019, 9-15-59, Cl. 123-15.
- Shimrat, Moshe. Educational appliance. 2,911,742, 11-10-59, Cl. 35-9.
- Shimwell, Derrick W., to Weaving Research & Textile Commission Agents Ltd. Woven textile fabrics. 2,893,443, 7-7-59, Cl. 139-383.
- Shinagawa Hakurenga Kabushiki Kaisha: See—
- Ito, Akira. 2,883,729.
- Shinaly, Francis J.: See—
- Stott, Albert M., and Shinaly. 2,910,053.
- Shinaver, Lawrence P. Safety cap for trigger guards of firearms. 2,882,636, 4-21-59, Cl. 42-70.
- Shine, Henry J., and R. H. Snyder, to United States Rubber Co. Lower alkanolic esters of cyclic hemi-acetals and their preparation. 2,881,185, 4-7-59, Cl. 260-333.
- Shiner, Edward A., to Union Carbide Corp. Method of making seamless viscose-regenerated cellulose tubing. 2,910,380, 10-27-59, Cl. 117-66.
- Shinkle, Charles F., and J. F. Rafferty, to General American Transportation Corp. Fastener feeding and driving machines. 2,886,076, 5-12-59, Cl. 144-32.
- Shinn, Byron H., to United Aircraft Corp. Stator construction for compressors. 2,885,768, 5-12-59, Cl. 29-156.4.
- Shinn, Henry L. Swiveling electrical connector. 2,898,572, 8-4-59, Cl. 339-8.
- Shinn, Jesse M. Article carrying bracket adapted for attachment to a crutch or the like. 2,912,991, 11-17-59, Cl. 135-47.
- Shinn, Kenneth R., to Domore Chair Co., Inc. Desk construction. 2,915,351, 12-1-59, Cl. 312-195.
- Shioakwa, Shozo. Screw-compressor. 2,896,529, 7-28-59, Cl. 100-290.
- Shionogi & Co., Ltd.: See—
- Kano, Hideo, Nishimura, Nakajima, and Ogata. 2,888,455.
- Shipko, Frederick J.: See—
- Dorfman, Leon M., and Shipko. 2,903,383.
- Shiplet, Francis P., and 1/4 to L. Wray. Portable foliage and stalk burner. 2,882,889, 4-21-59, Cl. 126-271.2.
- Shipley, Calvin W., and S. D. McLean, to O. F. Jordan Co. Plow small end wing construction. 2,894,342, 7-14-59, Cl. 37-105.
- Shipley, Calvin W., and W. T. Hart, to O. F. Jordan Co. Structure for swingably supporting and for elevating railroad spreader main wing. 2,906,041, 9-29-59, Cl. 37-105.
- Shipley, Clifford S.: See—
- Connor, James E., Jr., and Shipley. 2,884,374.
- Shipley, Frank F.: See—
- Gooderham, John W., Jacobitti, Myers, Shipley, and Strickler. 2,868,884.
- Shipley, Guy M. Piper wiper. 2,880,440, 4-7-59, Cl. 15-210.
- Shipley, Kenneth C.: See—
- Babick, John J., and Shipley. 2,875,909.
- Shipley, Margaret E. Candle support for flower holders. 2,874,267, 2-17-59, Cl. 240-2.
- Shipman, Archie V. Control for vending machines and the like. 2,916,126, 12-8-59, Cl. 194-55.
- Shipman, Roy W., to Weltronic Co. Electrical timing apparatus. 2,874,281, 2-17-59, Cl. 250-27.
- Shipman, Roy W., to Weltronic Co. Electrical timing apparatus. 2,874,314, 2-17-59, Cl. 307-106.
- Shipman, Roy W., and H. E. Colestock, to Weltronic Co. Power regulating apparatus. 2,874,334, 2-17-59, Cl. 315-230.
- Shipp, Clyde R. Rack for Venetian blinds. 2,908,932, 10-20-59, Cl. 15-268.
- Shipp, Easton H. Gasifier for liquid fuels. 2,897,073, 7-28-59, Cl. 48-103.
- Shippee, Edgar D.: See—
- Comings, Edward W., Shippee, and Adams. 2,882,239.
- Shipton, E., & Co. Ltd.: See—
- Strong, Bernard. 2,898,972.
- Shira, George A.: See—
- Meyer, Leonard S., and Shira. 2,873,929.
- Shiragami, Osamu: See—
- Fukoka, Shogo, Yoshida, Terasawa, and Shiragami. 2,916,425.
- Shire, Ralph J.: See—
- Haworth, Lionel, Shire, and Moss. 2,870,870.
- Shirey, Frank W.: See—
- Glass, William H., and Shirey. 2,875,850.
- Shirk, Joseph. Hook setter for fishing tackle. 2,906,049, 9-29-59, Cl. 43-15.
- Shirk, Robert M., to Houdry Process Corp. Fluid distribution and distributor. 2,892,262, 6-30-59, Cl. 34-57.
- Shirk, Robert M., R. G. Craig, and A. W. Hoge, to Houdry Process Corp. Reactor for hydrocarbon conversions. 2,915,375, 12-1-59, Cl. 23-288.



- Shirley, Chris J. Shoeshine machine. 2,909,793, 10-27-59, Cl. 15-31.
- Shirley, Julian W.: *See*—  
Reynolds, Linton C., and Shirley. 2,893,315.
- Shirley, Orie W., to Iron Fireman Mfg. Co. Gyroscope. 2,874,577, 2-24-59, Cl. 74-5.1.
- Shirley, William L.: *See*—  
Waterman, Logan C., and Shirley. 2,872,408.  
Waterman, Logan C., and Shirley. 2,892,768.
- Shirn, George A.: *See*—  
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- Shiu, Thomas B.: *See*—  
Cummings, Thomas N., Peterson, and Shiu. 2,909,877.
- Shiu, Thomas B. Filling machine. 2,875,793, 3-3-59, Cl. 141-186.
- Shiu, Thomas B.,  $\frac{1}{4}$  to N. A. and  $\frac{1}{4}$  to T. N. Cummings and  $\frac{1}{4}$  to B. R. Peterson, Jr. Continuous-flow confectionary packaging machine. 2,909,878, 10-27-59, Cl. 53-183.
- Shive, William, and J. M. Ravel. Peptic ulcer-treating compositions containing glutamine. 2,868,693, 1-13-59, Cl. 167-55.
- Shive, William, and C. G. Skinner, Jr. Alkylthiopurines. 2,875,203, 2-24-59, Cl. 260-252.
- Shivek, Herbert L., to Serv-O-Lift Corp. Dispenser with suspended carrier. 2,919,168, 12-29-59, Cl. 312-71.
- Shively, John J.: *See*—  
Cain, Harry W., and Shively. 2,906,990.
- Shlachter, Bernard, to Motorola, Inc. Television receiver. 2,884,485, 4-28-59, Cl. 178-5.8.
- Shlank, William I., to W. I. Shlank, M. E. Bailey, A. R. Benenson, and M. H. Bailey. Token for a check-controlled system. 2,918,158, 12-22-59, Cl. 194-4.
- Shlesinger, Bernard E., Jr. Multiple contact switch. 2,874,237, 2-17-59, Cl. 200-4.
- Shmidl, Albert J.: *See*—  
Bozich, Samuel, Shmidl, and Smalling. 2,884,377.
- Shmidl, Albert J., to Esso Research and Engineering Co. Phenol extraction of hydrocarbons with alcohol solvent modifier. 2,902,444, 9-1-59, Cl. 208-323.
- Shmorhun, John G., to Sargent & Greenleaf, Inc. File cabinet combination lock. 2,884,778, 5-5-59, Cl. 70-303.
- Shoaf, Floyd R. Apparatus for feeding hosiery onto a receiving member. 2,905,366, 9-22-59, Cl. 223-1.
- Shoaf, Floyd R. Means for stacking hosiery. 2,909,135, 10-20-59, Cl. 112-2.
- Shobert, Erle I., II, to Stackpole Carbon Co. High altitude brush. 2,870,353, 1-20-59, Cl. 310-228.
- Shock, Walter E., E. E. Prather, and E. R. Price, to Bendix Aviation Corp. Automatic braking device. 2,911,264, 11-3-59, Cl. 303-63.
- Shockey, Newton E., and H. W. Wilkins, to Van Dresser Specialty Corp. Control device for wire feed mechanism. 2,882,361, 4-14-59, Cl. 200-61.13.
- Shockey, William H.: *See*—  
Moy, Hammond R., Shockey, and Porter. 2,896,885.
- Shockley Transistor Corp.: *See*—  
Shockley, William. 2,912,598.
- Shockley, William, to Bell Telephone Laboratories, Inc. Method of forming large area PN junctions. 2,868,678, 1-13-59, Cl. 148-1.5.
- Shockley, William, to Bell Telephone Laboratories, Inc. Negative resistance semiconductive device. 2,869,084, 1-13-59, Cl. 333-80.
- Shockley, William. Method for growing junction semi-conductive devices. 2,879,189, 3-24-59, Cl. 148-1.5.
- Shockley, William, to Bell Telephone Laboratories, Inc. Radiant energy control system. 2,884,540, 4-28-59, Cl. 250-200.
- Shockley, William. Semi-conductive material purification method and apparatus. 2,890,139, 6-9-59, Cl. 148-1.
- Shockley, William, to Consolidated Electrodynamics Corp. Transistor switch. 2,891,171, 6-16-59, Cl. 307-88.5.
- Shockley, William, to Shockley Transistor Corp. Shifting register. 2,912,598, 11-10-59, Cl. 307-88.5.
- Shockroo, James E.: *See*—  
Vander Ply, John R., Jastram, McMorro, and Shockroo. 2,870,294.
- Shoelson, Mitchell J.: *See*—  
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Wassel, Eugene S., and Shoelson. 2,902,869.
- Shoemaker, Shockley T.: *See*—  
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- Shoemaker, James C., to Simplex Forms System, Inc. Concrete form locking means. 2,898,659, 8-11-59, Cl. 25-131.
- Shoemaker, Robert C.: *See*—  
Archibald, James O., and Shoemaker. 2,911,893.
- Shoemaker, Robert F., R. W. Tucker, and H. P. Kalmus, to United States of America, Army. Circuits for a voltage-sensitive switch. 2,909,122, 10-20-59, Cl. 102-70.2.
- Shoffner, Myron A. Apparatus for converting motion. 2,883,938, 4-28-59, Cl. 103-157.
- Shoffner, Willie M. Root feeder. 2,875,713, 3-3-59, Cl. 111-7.1.
- Shoffner, Willie M., to Roto-Table Co. Rotary file cabinet. 2,902,175, 9-1-59, Cl. 211-144.
- Shoffner, Willie M., to The Fogarty Mfg. Co. Display stand. 2,915,194, 12-1-59, Cl. 211-136.
- Shoglow, Harry,  $\frac{1}{2}$  to C. Wildey. Lamp harp. 2,895,041, 7-14-59, Cl. 240-148.
- Shohan, Elliot. Irrigation coupling with a removable seal. 2,874,979, 2-24-59, Cl. 285-6.
- Shohan, Elliot. Irrigation valve. 2,889,849, 6-9-59, Cl. 137-322.
- Shohan, Elliot. Valve. 2,898,128, 8-4-59, Cl. 284-17.
- Shokal, Edward C.: *See*—  
Mcconey John W., and Shokal. 2,886,493.
- Shokal, Edward C., to Shell Development Co. Process for preparing flexible resinified products from polyepoxides and resulting products. 2,915,485, 12-1-59, Cl. 260-18.
- Shokal, Edward C., and A. C. Mueller, to Shell Development Co. Polymerization of di-(2,3-epoxypropyl phthalate). 2,895,947, 7-21-59, Cl. 260-78.4.
- Shollenberger, William G. Blade mounting for a tillage tool. 2,893,499, 7-7-59, Cl. 172-740.
- Shontz, Harry W. Outboard motor lift. 2,901,194, 8-25-59, Cl. 248-4.
- Shook, Austen M.: *See*—  
Gibson, Robert M., ten Brink, and Shook. 2,869,328.
- Shook, Austen M., to Texaco Inc. Well treatment. 2,906,338, 9-29-59, Cl. 166-15.
- Shook, William M., to The Warner & Swasey Co. Lifter attachment for material handling and earth moving apparatus. 2,870,926, 1-27-59, Cl. 214-147.
- Shook, William M., to The Warner & Swasey Co. Grapple for material handling and earth moving apparatus. 2,903,294, 9-8-59, Cl. 294-88.
- Shoosmith, Guy T., to Plenty and Son Ltd. Variable capacity pump. 2,895,423, 7-21-59, Cl. 103-120.
- Shooter, Donald J.: *See*—  
Boldt, Melvin H., Chuboff, and Shooter. 2,887,086.
- Shope, Claude A.: *See*—  
Roberts, Ernest E., and Shope. 2,889,578.
- Shore, James B.: *See*—  
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- Shore, James R.: *See*—  
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- Shore, William S.: *See*—  
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- Shorette, Louis L.: *See*—  
Racine, Armand J. 2,896,240.
- Shorette, William L.: *See*—  
Racine, Armand J. 2,896,240.
- Shoreys, Charles: *See*—  
Walker, William E., and Shoreys. 2,905,760.
- Shorkey, Edward S., to Continental Can Co., Inc. Paint tank and dispensing liner therefor. 2,899,109, 8-11-59, Cl. 222-183.
- Shor-Line Industries, Inc.: *See*—  
Levine, Aaron J. 2,905,213.
- Shorr, Morris. Metallic foil food cooking wrapper. 2,902,371, 9-1-59, Cl. 99-171.
- Shorrocks, Stanley: *See*—  
Mercer, Frank B., and Shorrocks. 2,905,085.
- Short, Brooks H., to General Motors Corp. Vehicle electrical system. Re. 2,471,510, 10-6-59, Cl. 290-50.
- Short, Brooks H., to General Motors Corp. Control device. 2,895,090, 7-14-59, Cl. 317-188.
- Short, Brooks H., to General Motors Corp. Direction signal system. 2,909,760, 10-20-59, Cl. 340-73.
- Short, Brooks H., L. R. Hetzler, and J. H. Falge, to General Motors Corp. Control device. 2,879,352, 3-24-59, Cl. 200-85.
- Short Brothers & Harland Ltd.: *See*—  
Conway, Hugh G., and Sherhod. 2,873,137.  
Lundy, Arthur J. 2,890,850.  
Thomas, Eric L., and Paul. 2,918,218.
- Short, Clair A., Jr., W. S. Castle, and D. E. Schnable, to General Motors Corp. Three position actuator cylinder. 2,893,353, 7-7-59, Cl. 121-38.
- Short, Doris M. Sleep inducing device. 2,895,468, 7-21-59, Cl. 128-33.
- Short, Emmett F. Fastening device for loose leaf ledgers. 2,882,908, 4-21-59, Cl. 129-12.
- Short, Franklin W.: *See*—  
Moore, Alexander M., Elslager, and Short. 2,915,523.
- Short, Herbert D., to Canada Wire and Cable Co. Ltd. Method of laying armoured cables. 2,909,336, 10-20-59, Cl. 242-1.
- Short, Herbert D., to Canada Wire and Cable Co. Ltd. Joints in armoured cable. 2,913,514, 11-17-59, Cl. 174-90.
- Short, Herbert M., to Aluminum Co. of America. Tube supporting means for fluidized heat exchange apparatus. 2,876,975, 3-10-59, Cl. 248-58.
- Short, James N., to Phillips Petroleum Co. Phosphonic dihalides. 2,871,263, 1-27-59, Cl. 260-543.
- Short, John F., to The Distillers Co. Ltd. Electrical conductors. 2,907,923, 10-6-59, Cl. 317-2.
- Short, Oliver A.: *See*—  
Dumesnil, Maurice E., and Short. 2,886,476.
- Short, Philip J., to S.S.S. Gears Ltd. Clutches for transmitting rotary motion. 2,913,084, 11-17-59, Cl. 192-67.
- Short, R. Stanford: *See*—  
Hitt, Otis D., and Short. 2,881,589.
- Short, R. Stanford, to The Aro Equipment Corp. Impact wrench. 2,881,885, 4-14-59, Cl. 192-30.5.
- Shortland, Arthur. Instrument beds for knitting machines. 2,873,595, 2-17-59, Cl. 66-115.
- Shortland, Arthur. Automatic lubricating arrangements for machines and mechanisms. 2,882,705, 4-21-59, Cl. 66-19.
- Shortland, Arthur. Yarn or thread supplying means for knitting machines. 2,893,228, 7-7-59, Cl. 66-140.



- Shortland, Arthur. Yarn feeding means for knitting machines. 2,917,914, 12-22-59, Cl. 66—132.
- Shosted, Kenneth F. Universal spotlight mechanism. 2,901,595, 8-25-59, Cl. 240—61.13.
- Shotsky, Nathan,  $\frac{1}{4}$  to H. Zauderer,  $\frac{1}{4}$  to B. Zauderer, and  $\frac{1}{4}$  to D. H. Turkel. Multiple needle automatic quilting machine. 2,895,438, 7-21-59, Cl. 112—164.
- Shoudy, Albert A., Jr.: *See—*
- Thomson, Robert F., Shoudy, and Hanink. 2,885,304.
- Shoulberg, Robert H., to The M. W. Kellogg Co. Automatic cleaning apparatus. 2,885,712, 5-12-59, Cl. 15—317.
- Shoumatoff, Nicholas, to West Virginia Pulp and Paper Co. Apparatus for drying web material. 2,896,336, 7-28-59, Cl. 34—86.
- Shoup, Edgar C., Jr., and R. W. Dixon, to United Aircraft Corp. Turbine bearing support. 2,869,941, 1-20-59, Cl. 308—184.
- Shoup, Ransom F., to The Shoup Voting Machine Corp. Adjustable strap for voting machine. 2,876,028, 3-3-59, Cl. 287—58.
- Shoup, Thomas E., to Gregory Industries, Inc. Method of making a heat exchanger. 2,873,354, 2-10-59, Cl. 219—104.
- Shoup, Thomas E., and L. J. Mowry, to Gregory Industries, Inc. Welding stud and ferrule arrangement. 2,878,363, 3-17-59, Cl. 219—99.
- Shoup Voting Machine Corp.: *The: See—*
- Shoup, Ransom F. 2,876,028.
- Shourds, Wilbur J., to Gadget-Of-The-Month Club, Inc. Wardrobe fixture. 2,875,903, 3-3-59, Cl. 211—100.
- Shouvin, Joseph C., and M. E. Ginaven, to The Bauer Bros. Co. Combined digestion and refining of paper pulp. 2,893,909, 7-7-59, Cl. 162—17.
- Shovlain, Larry E.: *See—*
- Shovlain, Ray A. 2,883,052.
- Shovlain, Ray A., 50% to L. E. Shovlain. Adjustable chaffer and sieve. 2,883,052, 4-21-59, Cl. 209—394.
- Showalter, Frank W., to The American Envelope Co. Adhesive applying device. 2,912,959, 11-17-59, Cl. 118—5.
- Showell, John H.: *See—*
- Burnett, Albert L., and Showell. 2,897,301.
- Showers, Leland J. Conversion kit for chain saws. 2,893,447, 7-7-59, Cl. 143—58.
- Showers, Lewis M.: *See—*
- Newcomer, Garfield H., and Showers. 2,894,462.
- Shrader, Burnes L. Poultry gizzard Skinner. 2,908,935, 10-20-59, Cl. 17—11.
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- Shrader, Merrald B., to Radio Corp. of America. Electron tube. 2,869,009, 1-13-59, Cl. 313—39.
- Shrier, William C.: *See—*
- Osterhout, Ross V., and Shrier. 2,869,466.
- Shrimpton, Ronald H., and H. G. Mitchell, to Dunlop Rubber Co. Ltd. Solid isocyanate modified polyethylene adipate dispersed in liquid isocyanate modified polyethylene adipate. 2,870,114, 1-20-59, Cl. 260—45.4.
- Shriro, Morris A.: *See—*
- Abatemarco, Michael R., Shriro, and Guggenheim. 2,902,663.
- Shriver, Leland C.: *See—*
- Hostettler, Fritz, and Shriver. 2,914,556.
- Shrode, Wilford E.: *See—*
- Ring, Harold H., Shrode, Clay, and McCleary. 2,888,734.
- Shrode, Wilford E., to Brasco Mfg. Co. Window wall section. 2,882,561, 4-21-59, Cl. 20—56.4.
- Shrom, Harry. Clasp hanger for garments. 2,872,089, 2-3-59, Cl. 223—93.
- Shrom, Harry. Garment hanger. 2,891,707, 6-23-59, Cl. 223—93.
- Shrontz, James L.: *See—*
- Hanson, Eugene O., and Shrontz. 2,871,621.
- Shropshire, Elwood Y.: *See—*
- Craig, W. E., Shropshire, and Wilson. 2,881,111.
- Shroyer, Jacob L., to Ferro Corp. Sheathed electric heating unit terminal end construction. 2,892,989, 6-30-59, Cl. 338—239.
- Shrubsall, Arthur E., and C. E. Jackson, to Union Carbide Corp. Free-peeling submerged arc welding composition. 2,868,681, 1-13-59, Cl. 148—26.
- Shrubsall, Harry I., to Union Carbide Corp. Vertical welding with consumable guide tube. 2,868,951, 1-13-59, Cl. 219—74.
- Shube, Eugene E., to Fairchild Engine and Airplane Corp. Pressure-responsive valves. 2,876,788, 3-10-59, Cl. 137—112.
- Shubert, Dale L.: *See—*
- Nelson, Charles V. and N. E., Erickson, and Hellenkamp. 2,914,321.
- Shuck, David R.: *See—*
- Shuck, Wayne L. and D. R. 2,870,753.
- Shuck, Wayne L. and D. R. Manifold actuated electric switch device. 2,870,753, 1-27-59, Cl. 123—25.
- Shu-Conditioner Inc.: *See—*
- Bushway, George H. 2,903,999.
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- Jones, Herbert S., Frisendaux, Petersen, and Shuffin. 2,908,063.
- Shuford Mills, Inc.: *See—*
- Long, John R. 2,877,528.
- Long, John R. 2,918,779.
- Shuger, Leroy W., to Baltimore Paint & Color Works. Highway marker comprising unsaturated alkyd resin and glass beads and method of making same. 2,897,732, 8-4-59, Cl. 94—1.5.
- Shuger, Leroy W., to Baltimore Paint & Color Works. Traffic marker, material, and method. 2,897,733, 8-4-59, Cl. 94—1.5.
- Shuler, Martin H.: *See—*
- Foster, Jerry F., Shuler, and Paquin. 2,895,123.
- Shull, Eugene R.: *See—*
- Bodeau, Arthur C., and Shull. 2,913,199.
- Shull, Francis M., to United States of America, Army. Illuminating head for bore inspection device. 2,899,856, 8-18-59, Cl. 88—14.
- Shull, Gilbert M.: *See—*
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- Kita, Donald A., and Shull. 2,903,398.
- Routien, John B., and Shull. 2,875,134.
- Sardinas, Joseph L., and Shull. 2,876,170.
- Sardinas, Joseph L., Routien, and Shull. 2,882,205.
- Shull, Gilbert M., to Chas. Pfizer & Co. Preparation of  $\Delta^4$ -steroid compounds by protaminobacter. 2,876,171, 3-3-59, Cl. 195—51.
- Shull, Gilbert M., to Chas. Pfizer & Co. Preparation of  $\Delta^4$ -steroid compounds by micromonospora. 2,890,153, 6-9-59, Cl. 195—51.
- Shull, Gilbert M., to Chas. Pfizer & Co., Inc. Production of prednisolone by sequential fermentations. 2,908,616, 10-13-59, Cl. 195—51.
- Shull, Gilbert M., and J. B. Routien, to Chas. Pfizer & Co., Inc. Process for the production of 17- $\beta$ -hydroxysteroids by neocosmospora. 2,872,380, 2-3-59, Cl. 195—51.
- Shull, Gilbert M., and D. A. Kita, to Chas. Pfizer & Co., Inc. Oxidation of steroids by mycobacteria. 2,905,592, 9-22-59, Cl. 195—51.
- Shull, Peter O., to General Aniline & Film Corp. Stabilized phenylene diamines. 2,894,034, 7-7-59, Cl. 260—578.
- Shulman, Abraham, to United States of America, Army. Anode pulser. 2,882,447, 4-14-59, Cl. 315—27.
- Shulters, Robert B.: *See—*
- Bos, John R., and Shulters. 2,884,685.
- Bottje, John D., and Shulters. 2,901,219.
- Shulters, Robert B., and C. L. Robinson, to Gardner-Denver Co. Drill unit. 2,883,891, 4-28-59, Cl. 77—55.
- Shulters, Robert B., and J. R. Bos, to Gardner-Denver Co. Tool for preparing and applying wires to terminals. 2,885,764, 5-12-59, Cl. 29—33.
- Shulton, Inc.: *See—*
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- Jakubowski, Theodore P. 2,917,765.
- Shultz, John E., to General Motors Corp. Microsyn amplifier. 2,912,639, 11-10-59, Cl. 323—51.
- Shultz, Theodore S.: *See—*
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- Shumaker, Ephraim H., to Rotherm Engineering Co., Inc. Liquid-tight and gas-tight rotating tubular joints. 2,873,538, 2-17-59, Cl. 34—124.
- Shumaker, Samuel O. Fishing rod holder. 2,893,667, 7-7-59, Cl. 248—40.
- Shuman, Frank R.: *See—*
- Honeycutt, Earl M., and Shuman. 2,897,141.
- Shuman, Frank R., Jr.: *See—*
- Fear, James V. D., and Shuman. 2,918,423.
- Shuman, Frank R., Jr., to Sun Oil Co. Separation of mixed xylenes by fractional crystallization of reformed and hydrogenated petroleum fraction. 2,894,048, 7-7-59, Cl. 260—674.
- Shuman, Frank R., Jr., to Sun Oil Co. Wax crystallization process. 2,903,411, 9-8-59, Cl. 208—37.
- Shuman, Frank R., Jr., to Sun Oil Co. Preparation of jet or rocket fuels. 2,916,446, 12-8-59, Cl. 208—295.
- Shuman, Frank R., Jr., to Sun Oil Co. Regeneration of spent contact clay. 2,919,251, 12-29-59, Cl. 252—414.
- Shuman, Frank R., Jr., and J. V. D. Fear, to Sun Oil Co. Separation of compounds of varying adsorbabilities. 2,867,582, 1-6-58, Cl. 208—310.
- Shuman, Robert M.: *See—*
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- Shumard, Roland S., to Monsanto Chemical Co. Zinc dithiocarbamate molluscicide. 2,875,834, 3-3-59, Cl. 167—22.
- Shumate, William, to Boeing Airplane Co. Holding jig or clamp. 2,882,574, 4-21-59, Cl. 24—132.
- Shunk, Clifford H.: *See—*
- Folkers, Karl A., and Shunk. 2,876,230.
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- Reiser, George C., and Shuptrine. 2,917,301.
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- Shurina, Stephen L. Work holding fixture. 2,877,691, 3-17-59, Cl. 90—57.
- Shur-Lok Corp.: *See—*
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- Shurtliff, Norval E. Logging cable haulback apparatus. 2,869,822, 1-20-59, Cl. 254—150.



- Shuster, Joseph, to General Foods Corp. Carton feeder. 2,901,086, 8-25-59, Cl. 198-30.
- Shutt, Paul B., to Bendix Aviation Corp. Selector valve with snubbing action. 2,868,174, 1-13-59, Cl. 121-40.
- Shuttleworth, Vernis K., and J. Felber, to American Can Co. Apparatus for tying articles together. 2,877,613, 3-17-59, Cl. 53-198.
- Shutts, Albert P.: *See*—  
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- Fahnoe, Frederick, Shyne, and Fletcher. 2,906,682.
- Shyne, James J., and W. D. Fletcher, to Vitro Corp. of America. Electrophoretic coatings and compositions. 2,894,888, 7-14-59, Cl. 204-181.
- Siampaus, Demetrie C. Dental massage and tooth cleaning implement. 2,917,759, 12-22-59, Cl. 15-25.
- Slano, Alfred, E. W. Finn, and A. H. Van Houten. Emergency auxiliary braking system. 2,891,818, 6-23-59, Cl. 303-63.
- Sias, Roy C., and A. H. Stepan, to Continental Oil Co. Sulfonation of alkaryl hydrocarbons. 2,882,301, 4-14-59, Cl. 260-505.
- Sias, Roy C., and W. W. Woods, to Continental Oil Co. Purification of alkaryl sulfonic acids. 2,899,460, 8-11-59, Cl. 260-505.
- Sibbald, Frederick R., to The Hoover Co. Washing machines. 2,894,385, 7-14-59, Cl. 68-21.
- Sibel, Frank. Drying apparatus for web treating machine. 2,916,796, 12-15-59, Cl. 26-60.
- Sibley, Craig R., to Air Reduction Co., Inc. Electric arc cutting. 2,906,853, 9-29-59, Cl. 219-69.
- Sibley, Forbes S.: *See*—  
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- Sibley, Henry C., to General Railway Signal Co. Electronic code communication system. 2,874,368, 2-17-59, Cl. 340-163.
- Sibley, John R., to Joy Mfg. Co. Mine vein-attacking and disintegrating mechanism having a head frame with an adjustable outer end portion. 2,879,981, 3-31-59, Cl. 262-28.
- Sibley, John R., to Joy Mfg. Co. Reciprocable guide structure with self-adjusting rocker shoes. 2,913,283, 11-17-59, Cl. 308-3.
- Sibley, John R., and R. J. Wacht, to Joy Mfg. Co. Floor cleanup mechanism for continuous miners. 2,885,054, 5-5-59, Cl. 198-9.
- Sibley, Robert L.: *See*—  
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- Sicard, Marcel C., to The Cuno Engineering Corp. Magnetic filter. 2,887,230, 5-19-59, Cl. 210-222.
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- Sichak, William, to International Telephone and Telegraph Corp. Directional antenna systems. 2,895,134, 7-14-59, Cl. 343-772.
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- Sicho, Roman. Balancing structure for electric instrument movement. 2,886,783, 5-12-59, Cl. 324-155.
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- Sieber, Karl: *See*—  
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- Sieber, Peter: *See*—  
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- Siegener Eisenbahnbedarf Akt.: *See*—  
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- Siegenheim, Alice: *See*—  
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Cronin, Donald L. 2,916,687.  
Wilkins, Charles A. 2,905,761.
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- Sielemann, Hans. Grinding machine. 2,911,767, 11-10-59, Cl. 51-166.
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Rosata, Nicola P., and Siemen. 2,870,836.
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Deakin, Stanley T. 2,886,480.  
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Flood, John E. 2,890,284.  
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Flood, John E. 2,891,113.  
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Hailey, Albert M. 2,871,467.  
Hopkins, Ronald S. 2,897,282.  
Rodda, Sidney. 2,895,068.  
Warman, Bloomfield J. 2,887,590.  
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Bauer, Friedrich L. 2,880,273.  
Bodenstein, Camillo. 2,917,250.  
Braumann, Gundokar. 2,888,532.  
Clasen, Hermann. 2,900,225.  
Doring, Fritz. 2,888,521.  
Eichin, Werner. 2,903,657.  
Eissfeldt, Erich F., and Thurner. 2,886,162.  
Fülling, Heinrich, Schüssler, and Rudolph. 2,887,534.  
Günther, Paul, and Kerkhoff. 2,876,400.  
Hagenhaus, Kurt. 2,877,304.  
Hennig, Fritz. 2,900,447.  
Heywang, Walter, Winstel, and Wels. 2,919,389.  
Holzwarth, Herbert, and Arens. 2,917,584.  
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Horn, Arno, and Langner. 2,867,689.  
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Jabczynski, Hans-Joachim, Tiesler, Lurk, and Schröder. 2,868,883.  
Jacobi, Werner. 2,867,741.  
Jahn, Herbert, Reinecke, Stabenau, and Stahl. 2,877,301.  
Jung, Gerhard. 2,912,354.  
Kesten, Ulrich, and Lurk. 2,904,635.  
Kniekamp, Heinrich, and Ziegler. 2,876,147.  
Kuhn, Alfred. 2,888,218.  
Larsen, Herbert, and Martin. 2,915,719.  
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Römer, Otto, and Reche. 2,890,314.  
Rosenberger, Georg, and Neumann. 2,919,312.  
Rummel, Theodor. 2,907,642.  
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Scheel, Joachim E. 2,909,702.  
Simon, Franz, and Grohmann. 2,877,307.  
Spiecker, Friedrich. 2,875,280.  
Stabenau, Robert. 2,887,531.  
Stohr, Walter. 2,880,418.  
Topfer, Herbert. 2,886,644.  
Veith, Hans. 2,909,716.  
Veith, Werner. 2,881,350.  
Veith, Werner A., and Meyer. 2,876,373.  
Villmann, Walter, Scharpf, and Ragaller. 2,891,114.  
Voegtlen, Dieter. 2,902,642.  
Wild, Walter, and Eberl. 2,894,226.  
Wilhelm, Herbert. 2,907,846.  
Wüsteney, Herbert, and Hennig. 2,907,823.  
Wüsteney, Herbert, and Richter. 2,891,651.  
Zabka, Franz, and Schulze. 2,883,518.  
Zinke, Otto, Thilo, and Krueger. 2,908,876.
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Fitzer, Erich. 2,877,113.  
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Grohmann, Walter, and Kurz. 2,903,519.  
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Guttner, Werner, and Pickel. 2,876,764.  
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Bilz, Wilhelm. 2,913,174.  
Emeis, Reimer, and Haus. 2,904,663.  
Emeis, Reimer, and Keller. 2,898,429.  
Filberich, Ludwig, v. Haebler, and Nagorsen. 2,895,100.  
Gartner, Gunter, Schwab, and Harz. 2,900,540.  
Halla, Ottokar, and Kuhr. 2,915,684.  
Hammen, Heinrich, and Musiol. 2,867,545.  
Hoppe, Georg, and Nitsche. 2,887,411.  
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Justi, Eduard. 2,877,283.  
Kesselring, Fritz, and Diebold. 2,916,579.  
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Kessler, Gerhard. 2,915,703.  
Keuth, Heins, Rotter, and Guillery. 2,906,649.  
Kleinvogel, Hans-Joachim, and Notzold. 2,883,600.  
Kleinvogel, Hans-Joachim, and von Haebler. 2,872,634.  
Kliesch, Günter. 2,883,601.  
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Knoll, Karl, and Gahn. 2,906,009.  
Knoll, Karl, Rotter, and Voll. 2,887,764.  
Kuhr, Friedrich. 2,877,394.  
Kuhr, Friedrich, and Maaz. 2,886,779.  
Lutz, Karlheinz. 2,869,066.  
Mammel, Hans. 2,914,908.  
Michel, Rüpprecht. 2,908,255.  
Müller, Hans J., and Hünlein. 2,910,805.  
Muller, Hugo. 2,886,631.  
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Nagorsen, Hans. 2,907,935.  
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Poschner, Hans, and Vogelsang. 2,877,397.  
Rolf, Erich, and Belamin. 2,884,586.  
Rotter, Hans-Werner. 2,915,477.  
Scharstein, Ernst, Lutz, and Falkenberg. 2,887,641.  
Schwarz, Robert, Kuchen, and Weigel. 2,901,499.  
Schweickert, Hans, and Haus. 2,893,847.  
Schweickert, Hans, and Herlet. 2,914,837.  
Sichling, Georg. 2,867,763.  
Thürk, Gerhard. 2,907,968.  
Tschermak, Manfred. 2,885,629.  
Von Kurnatowski, Hans, Reitzenstein, and Schwank. 2,886,687.  
Weiss, Herbert. 2,906,945.  
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Weisshaar, Erich. 2,902,660.  
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Welker, Heinrich, and Gremmelmaier. 2,867,727.
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- Sienskiewicz, Boleslaw: *See—*  
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Romander, Hugo. 2,876,298.  
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- Sierra Metals Corp.: *See—*  
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- Sierra Precision, Inc.: *See—*  
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- Sierracin Corp., The: *See—*  
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- Sieswerda, Bauke S.: *See—*  
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- Sieven, Louis I. Spare tissue roll bracket. 2,872,124, 2-3-59, Cl. 242-55.3.
- Sievenpiper, Frederic L.: *See—*  
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- Sieving, Alfred W.: *See—*  
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Ott, Josef, Hackel, Hummel, Wiedemann, and Sigel. 2,914,362.
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- Sigler, Harvey R., Jr.: *See—*  
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- Sigler, Howard R., W. G. Myers, and W. F. Harrison, to The General Tire and Rubber Co. Machine for assembling resilient bushings. 2,872,727, 2-10-59, Cl. 29-235.
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Loxham, John. 2,894,741.
- Sigma Instruments, Inc.: *See—*  
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- Sigman, John J., Jr.: *See—*  
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- Signal Mfg. Co.: *See—*  
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- Signal-Stat Corp.: *See—*  
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Baker, Harold F. 2,881,738.  
Childress, William C. 2,871,536.  
Crosby, George A., and Otto. 2,915,003.  
Dalton, Joseph H. 2,899,935.  
Leslie, John H. 2,915,004.  
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- Signouret, Jean-Baptiste: *See—*  
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Hutton, Robert W., Sigo, and Adams. 2,909,611.
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- Sigoda, Victor J., to Man-Sew Corp. Unison-feed blind-stitching device. 2,889,794, 6-9-59, Cl. 112-207.
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Corriveau, Joseph A., Goeke, and Sihvonen. 2,888,005.
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- Sikina, Thomas V., to Philco Corp. Method and apparatus for producing semiconductive structures. 2,875,140, 2-24-59, Cl. 204-143.
- Sikora, Hans: *See—*  
Ziller, Hans J., and Sikora. 2,916,313.
- Sikorra, Daniel J., to Minneapolis-Honeywell Regulator Co. Semiconductor stabilizing apparatus. 2,874,236, 2-17-59, Cl. 179-171.
- Sikorra, Daniel J., to Minneapolis-Honeywell Regulator Co. Lamination stacking arrangements. 2,890,428, 6-9-59, Cl. 336-217.
- Silabert Corp.: *See—*  
Moore, Harry O. 2,882,638.  
Moore, Harry O. 2,883,666.
- Silberholz, Frank. Home copy suppressor unit. 2,904,623, 9-15-59, Cl. 178-2.
- Silbernick, Clarence L.: *See—*  
Young, George A., Jr., Underdahl, Hinz, and Silbernick. 2,881,733.
- Silbert, Eileen: *See—*  
Sterne, Willard F., and Bright. 2,914,770.
- Silent, Harold C., to Hycon Mfg. Co. Stereoscope. 2,883,907, 4-28-59, Cl. 88-209.
- Silent Glow Oil Burner Corp., The: *See—*  
Sherman, Rallston M. 2,869,487.  
Sherman, Rallston M. 2,869,626.  
Sherman, Rallston M. 2,870,966.  
Sherman, Rallston M. 2,897,885.
- Silenzi, Louis, and A. Mariani. Utility garden tool. 2,903,078, 9-8-59, Cl. 172-371.
- Siler City Mfg. Co., Inc.: *See—*  
Russell, Ralph W. 2,914,226.
- Sillex Co., The: *See—*  
Rodwick, Frank P., and Thome. 2,907,269.  
Se Bastian, Ford. 2,907,265.  
Stiles, Harry L. 2,908,453.  
Stiles, Harry L. 2,916,599.  
Stiles, Harry L., and Thome. 2,867,960.  
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- Šilhanek, Jan: *See—*  
Khol, Frantisek, and Šilhanek. 2,905,046.
- Silhavy, Frank J.: *See—*  
Wiberg, Raymond E., and Silhavy. 2,892,349.
- Silk, Charles E.: *See—*  
O'Neill, John J., Jr., and Silk. 2,916,776.
- Silk, John P.: *See—*  
Clarke, Charles E., and Silk. 2,910,202.
- Silken, Irving. Device for putting on and removing hosiery. 2,894,669, 7-14-59, Cl. 223-111.
- Silks, Walter, to Goodman Mfg. Co. Trimmer chain tensioning arrangement for boring type mining machine. 2,877,005, 3-10-59, Cl. 262-7.
- Silks, Walter, to Goodman Mfg. Co. Trimmer bars for boring type mining machines. 2,890,033, 6-9-59, Cl. 262-7.
- Sillak, Joseph. Sheet metal shears. 2,874,465, 2-24-59, Cl. 30-250.
- Sillars, Frederick S.: *See—*  
Maeser, Mieth, and Sillars. 2,902,961.  
Maeser, Mieth, and Sillars. 2,903,983.
- Sillars, Frederick S., and H. C. Pavian, deceased (D. S. Pavian, administratrix), to United Shoe Machinery Corp. Methods of bonding by thermoplastic adhesives. 2,893,026, 7-7-59, Cl. 12-142.
- Sillen, Rutger C. O. Folding machine for paper. 2,885,205, 5-5-59, Cl. 270-86.
- Silley, Henry A. J.: *See—*  
Bristow, Leslie. 2,904,180.  
Unthank, Douglas G. 2,874,850.  
Unthank, Douglas G., and Bristow. 2,917,178.
- Silliker, John H.: *See—*  
Taylor, Welton I., and Silliker. 2,876,108.
- Silliker, John H., F. L. Kauffman, and J. L. Ohlson, to Swift & Co. Method of treating egg albumen. 2,899,312, 8-11-59, Cl. 99-113.



- Silliman, Sheldon D.: *See*—  
Reuther, John F., and Silliman. 2,892,102.
- Sills, Arthur R., to United States of America, Army. Automatic frequency control system. 2,881,319, 4-7-59, Cl. 250-36.
- Sills, Earl H., to General Electric Co. Adjustable voltage control system. 2,899,616, 8-11-59, Cl. 318-145.
- Silmar Foundations, Inc.: *See*—  
Puliafico, Frank V. 2,882,907.
- Silvani, Ernest: *See*—  
Coleman, Beatrice, Pioli, and Silvani. 2,888,930.
- Silven, Herbert A., to Norton Co. Grinding machine. 2,893,171, 7-7-59, Cl. 51-3.
- Silven, Herbert A., and S. S. Mader, to Norton Co. Crankpin grinding machine. Re. 24,744, 12-1-59, Cl. 51-105.
- Silver, Alexander: *See*—  
Maas, Bernard N., Damiani, and Silver. 2,907,548.
- Silver Corp.: *See*—  
Bruniche-Olsen, Henning A., Wright, Price, Steele, and Silver. 2,885,311.
- Silver, Eric M.: *See*—  
Ullman, Myron E., Jr., and Silver. 2,891,560.
- Silver, Harold F.: *See*—  
Bruniche-Olsen, Henning A., Wright, Price, Steele and Silver. 2,885,311.
- Silver, Raymond P., to Hercules Powder Co. Aqueous solutions of polyester resins prepared by reaction of a polyhydric alcohol, a partial allyl ether of pentaerythritol and an unsaturated dicarboxylic acid. 2,884,394, 4-28-59, Cl. 260-29.2.
- Silver, Stan M. Metered dispensing container. Re. 24,699, 9-15-59, Cl. 222-455.
- Silver, Stan M. Metered dispensing carton or the like. 2,881,961, 4-14-59, Cl. 222-455.
- Silver, Walter H.: *See*—  
Wilson, Samuel W., and Silver. 2,872,491.
- Silver, Walter H., and O. W. Oerman, to Deere & Co. Hitch device. 2,914,342, 11-24-59, Cl. 280-461.
- Silverberg, Thomas R., to United States of America, Air Force. Precision linkage for exact multiplication. 2,910,227, 10-27-59, Cl. 235-61.
- Silverman, Abraham. Staple. 2,885,168, 5-5-59, Cl. 248-71.
- Silverman, Daniel: *See*—  
Eisler, Joseph D., Hadley, and Silverman. 2,877,080.  
Eisler, Joseph D., Hadley, and Silverman. 2,881,044.
- Silverman, Daniel. Flue control devices adapted for combustion heaters. 2,878,744, 3-24-59, Cl. 98-66.
- Silverman, Daniel, and R. E. Fearon, to Pan American Petroleum Corp. Seismic surveying. 2,889,000, 6-2-59, Cl. 181-5.
- Silverman, Emanuel. Trailer antenna rotor and mount. 2,869,813, 1-20-59, Cl. 248-45.
- Silverman, Herbert B. L.: *See*—  
Walker, John E. 2,883,945.
- Silverman, Isadore: *See*—  
Trage, Oliver H. 2,891,429.
- Silverman, Jacob. Pressing machine. 2,917,211, 12-15-59, Cl. 223-2.
- Silverman, Jerome H.: *See*—  
Hambor, Valentine, Shafrank, and Silverman. 2,909,713.
- Silverman, Leslie, to Research-Cottrell, Inc. Gas treating device. 2,913,232, 11-17-59, Cl. 261-40.
- Silverman, Leslie, to Research-Cottrell, Inc. Centrifugal separator. 2,918,139, 12-22-59, Cl. 183-81.
- Silverman, Lew C.: *See*—  
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- Silverman, Marvin T.: *See*—  
Jaffe, Benjamin, and Silverman. 2,918,371.
- Silverman, Milton B.: *See*—  
Levin, Jack J. 2,877,477.
- Silverman, Sebet, to The Nurre Companies, Inc. Securing device for mirrors and the like. 2,876,972, 3-10-59, Cl. 248-28.
- Silvernail, Lloyd H.: *See*—  
Rigterink, Raymond H., Miller, and Silvernail. 2,885,306.  
Rigterink, Raymond H., Miller, and Silvernail. 2,885,307.
- Silver Seal Products Co.: *See*—  
Havens, Elwood L. 2,868,188.
- Silversher, Herman I.: *See*—  
Barnes, James F., Rebholz, and Silversher. 2,910,094.  
Barnes, James F., and Silversher. 2,900,881.  
Barnes, James F., and Silversher. 2,914,091.
- Silverstein, Robert M.: *See*—  
Nutting, Lee, Silverstein, and Himel. 2,905,701.
- Silver Streak Mfg. Co.: *See*—  
Osterhaus, Leo A. 2,884,082.
- Silveston, Barnett, to Tippetts-Abbett-McCarthy-Stratton. Hose handling structure for transferring fluid material between ship and shore. 2,914,080, 11-24-59, Cl. 137-236.
- Silvestri, Giuliana: *See*—  
Muench, Werner, Ruoti, and Silvestri. 2,904,579.
- Silvey, Gene A., and V. J. Lyons, to International Business Machines Corp. Method of fabricating germanium bodies. 2,898,248, 8-4-59, Cl. 148-15.
- Silvis, Salvatore J.: *See*—  
Carpenter, Clifford L., and Silvis. 2,879,839.
- Sim, Gordon, to Teletype Corp. Flexible coupling. 2,885,869, 5-12-59, Cl. 64-10.
- Sima, George A. Self releasing collet. 2,885,210, 5-5-59, Cl. 279-49.
- Sima, George A. Collet. 2,885,211, 5-5-59, Cl. 279-59.
- Simanek, Edward J., to American Steel Foundries. Brake release means. 2,907,413, 10-6-59, Cl. 188-74.
- Simas, Charles P. Combination drilling and sawing device. 2,918,955, 12-29-59, Cl. 145-130.
- Simco Inc.: *See*—  
Haury, Vernon E. 2,917,537.
- Simcock, William H., to Orenda Engines Ltd. Venting apparatus for use with an invertible tank. 2,889,843, 6-9-59, Cl. 137-43.
- Simcoe, William H., and M. R. Vennett, to United States Steel Corp. Reversible universal stranding and laying machine. 2,897,646, 8-4-59, Cl. 57-58.3.
- Simeone, Anthony B., and R. A. Adjustable gun sights. 2,881,524, 4-14-59, Cl. 33-56.
- Simeone, Robert A.: *See*—  
Simeone, Anthony B., and R. A. 2,881,524.
- Simer, Samuel B., to General Electric Co. Button forming machine. 2,876,591, 3-10-59, Cl. 49-7.
- Simer, Samuel B., to General Electric Co. Method of forming buttons on glass rods. 2,876,597, 3-10-59, Cl. 49-84.
- Simer, Samuel B., to General Electric Co. Article feeding apparatus. 2,904,162, 9-15-59, Cl. 198-33.
- Simes, Lewis E., II.: *See*—  
Schaaf, Willard A., and Simes. 2,869,633.
- Siminoff, Paul, to S. B. Penick & Co., Inc. Candididin purification. 2,872,373, 2-3-59, Cl. 167-65.
- Siminow, Benjamin. Thermally insulated articles. 2,878,481, 3-24-59, Cl. 2-243.
- Simjian, Luther G., to The Reflectone Corp. Treating or polishing apparatus. 2,880,554, 4-7-59, Cl. 51-7.
- Simjian, Luther G., to The Reflectone Corp. Apparatus for treating articles. 2,880,663, 4-7-59, Cl. 99-254.
- Simjian, Luther G., to The Reflectone Corp. Method of treating food articles by application of sound energy. 2,881,079, 4-7-59, Cl. 99-217.
- Simjian, Luther G., to The Reflectone Corp. Method of tenderizing articles of food. 2,881,080, 4-7-59, Cl. 99-217.
- Simjian, Luther G., to The Reflectone Corp. Polishing apparatus. 2,883,809, 4-28-59, Cl. 51-281.
- Simjian, Luther G., to The Reflectone Corp. Golf game apparatus. 2,894,750, 7-14-59, Cl. 273-181.
- Simjian, Luther G., to The Reflectone Corp. Golf game. 2,894,751, 7-14-59, Cl. 273-185.
- Simjian, Luther G., to The Reflectone Corp. Golf practice device. 2,894,752, 7-14-59, Cl. 273-185.
- Simjian, Luther G., to The Reflectone Corp. Indicator for golf practice. 2,894,753, 7-14-59, Cl. 273-185.
- Simjian, Luther G., to The Reflectone Corp. Golf trainer. 2,894,754, 7-14-59, Cl. 273-185.
- Simjian, Luther G., to The Reflectone Corp. Chair with moving seat and mirror. 2,897,727, 8-4-59, Cl. 88-97.
- Simjian, Luther G., to Reflectone Electronics, Inc. Apparatus for treating food. 2,902,712, 9-8-59, Cl. 17-25.
- Simjian, Luther G., to Reflectone Electronics, Inc. Inventory system. 2,902,767, 9-8-59, Cl. 33-129.
- Simjian, Luther G. Vending machine combined with camera means. 2,909,107, 10-20-59, Cl. 95-1.1.
- Simjian, Luther G. Abrading device. 2,912,803, 11-17-59, Cl. 51-281.
- Simjian, Luther G. Method for polishing articles. 2,912,804, 11-17-59, Cl. 51-281.
- Simkin, Donald J., to Shell Development Co. 2,881,920, 4-14-59, Cl. 210-114.
- Simkins, Daniel, to Continental Can Co., Inc. Pouring device for bulk containers. 2,894,661, 7-14-59, Cl. 222-176.
- Simkins, Quinton W., to Bell Telephone Laboratories, Inc. Pulse counting device. 2,869,034, 1-13-59, Cl. 315-84.5.
- Simkins, Quinton W., to Bell Telephone Laboratories, Inc. Magnetic core current regulating circuit. 2,882,482, 4-14-59, Cl. 323-7.
- Simkins, Quinton W., to Bell Telephone Laboratories, Inc. Transistor current limiter. 2,909,677, 10-20-59, Cl. 307-88.5.
- Simko, Frank A., Jr., and C. B. Thompson, to E. I. du Pont de Nemours and Co. Composition. 2,910,374, 10-27-59, Cl. 106-285.
- Simm, Clarke N.: *See*—  
De Priester, Coral L., and Simm. 2,887,160.
- Simmonds Aerocessories Ltd.: *See*—  
Brooking, Rowland A. 2,889,702.
- Simmonds, Arlie J.: *See*—  
Simmonds, Wayne W. 2,903,948.  
Simmonds, Wayne W. 2,903,949.  
Simmonds, Wayne W. and A. J. 2,867,411.
- Simmonds, Edwin C., to B.A.M. Patenteers Ltd. Butter spreading machines. 2,885,996, 5-12-59, Cl. 118-18.
- Simmonds, Francis L. Exhaust system. 2,874,627, 2-24-59, Cl. 98-115.
- Simmonds, Henry, to The English Electric Co. Ltd. Cartridge fuse links. 2,898,425, 8-4-59, Cl. 200-131.
- Simmonds, Melvin, to American Medical Products Corp. Plastic syringe plunger. 2,902,034, 9-1-59, Cl. 128-218.
- Simmonds, Wayne W., to J. H. Lucas as trustee. Apparatus for pulling and racking tubing in vertical position. 2,867,338, 1-6-59, Cl. 214-2.5.
- Simmonds, Wayne W., to J. H. Lucas, trustee for W. W. and A. J. Simmonds. Multiple ram compactor. 2,903,948, 9-15-59, Cl. 94-49.



- Simmonds, Wayne W., to J. H. Lucas, trustee for W. W. and A. J. Simmonds. Helve action telescoping boom compactor. 2,903,949, 9-15-59, Cl. 94-49.
- Simmonds, Wayne W. and A. J., to J. H. Lucas, trustee for W. W. and A. J. Simmonds. Weight control unit for rotary drilling rigs. 2,867,411, 1-6-59, Cl. 254-173.
- Simmons, Aldred J., and A. J. Barta, to Plymouth Industrial Products, Inc. Multiple duct sleeve. 2,890,899, 6-16-59, Cl. 285-18.
- Simmons, Aldred J., and A. O. Sohn, to Plymouth Industrial Products, Inc. Apparatus for sorting balls from clusters. 2,909,282, 10-20-59, Cl. 209-75.
- Simmons, Arthur B., to United States of America, Air Force. Spring mounted focusing device. 2,893,717, 7-7-59, Cl. 267-1.
- Simmons, Ballard. Lock wheel mechanic's creeper. 2,879,865, 3-31-59, Cl. 188-69.
- Simmons, Bill J.: *See*—  
Reinecke, Marvin E., and Simmons. 2,907,339.
- Simmons, Bill J., to Phillips Petroleum Co. Reflection refractometer. 2,885,923, 5-12-59, Cl. 83-14.
- Simmons, Cecil E. Shock-absorbing trailer hitch. 2,878,036, 3-17-59, Cl. 280-485.
- Simmons, Charles A., Sr., to Simmons Industries, Inc. Automobile lift. 2,915,143, 12-1-59, Cl. 187-841.
- Simmons, Charles C., to Ransburg-Electro-Coating Corp. Electrostatic method and apparatus for spray coating of articles. Re. 24,602, 2-17-59, Cl. 117-93.
- Simmons, Charles D., to Philco Corp. Wave generator. 2,899,601, 8-11-59, Cl. 315-27.
- Simmons, Clarence C. Splash guard. 2,902,103, 9-1-59, Cl. 180-69.1.
- Simmons Co.: *See*—  
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Petersen, John S., and Blecker. 2,869,622.  
Seavert, Howard H. 2,869,492.  
Seavert, Howard H. 2,869,493.
- Simmons, Dorsey D.: *See*—  
Dahlman, Per O., and Simmons. 2,904,634.
- Simmons, Edward C., to General Motors Corp. Defrosting arrangement for refrigerating system. 2,867,093, 1-6-59, Cl. 62-152.
- Simmons, Edward G., to Tecaemit Ltd. Lubricating apparatus. 2,886,134, 5-12-59, Cl. 184-15.
- Simmons, Ernest P. Shotgun chamber with cutting edge. 2,869,270, 1-20-59, Cl. 42-76.
- Simmons, George S., Jr., and R. G. Turner, to Crompton & Knowles Corp. Mounting for picker stick. 2,907,354, 10-6-59, Cl. 139-156.
- Simmons, Harold T.: *See*—  
Smith, Charles S., and Simmons. 2,916,923.
- Simmons, Henry T. Cop bobbin and cop grip holder for a weavers shuttle. 2,914,095, 11-24-59, Cl. 139-198.
- Simmons, Howard E., Jr., to E. I. du Pont de Nemours and Co. Cyclic esters disubstituted with certain fluoro-substituted radicals. 2,911,414, 11-3-59, Cl. 260-327.
- Simmons Industries, Inc.: *See*—  
Simmons, Charles A., Sr. 2,915,143.
- Simmons, James R. Sofa-bunk bed. 2,891,255, 6-23-59, Cl. 5-9.
- Simmons, Jesse T. Hydraulic valve-lifter tool. 2,889,616, 6-9-59, Cl. 29-213.
- Simmons, Jesse T. Hydraulic valve-lifter testing device. 2,910,864, 11-3-59, Cl. 73-119.
- Simmons, Lovel R. Weight-transferring hitch for four-wheel-drive tractors. 2,899,004, 8-11-59, Cl. 180-14.
- Simmons, Milton E.: *See*—  
Finsterwalder, Carl J., Simmons, and Terkoski. 2,883,183.
- Simmons, Morton A. Aircraft carrier construction for hydro-ski seaplanes. 2,912,952, 11-17-59, Cl. 114-43.5.
- Simmons, Robert W., to Eastman Kodak Co. Mounting for magnetic head. 2,912,519, 11-10-59, Cl. 179-100.2.
- Simmons, Russell H. Speed responsive power transmission. 2,891,420, 6-23-59, Cl. 74-752.
- Simmons, Russell T.: *See*—  
Landuyt, John F., and Simmons. 2,883,599.
- Simmons, Vaughan P., to W. H. Brady Co. Divided label-lift. 2,906,397, 9-29-59, Cl. 206-56.
- Simmons, Walter J. Supply holder for rolled material. 2,905,404, 9-22-59, Cl. 242-55.2.
- Simmons, William T. Carrier device for dairy products and the like. 2,877,736, 3-17-59, Cl. 116-135.
- Simms, Charles H.: *See*—  
Breadner, Robert L., and Simms. 2,886,920.
- Simms, Harold A., to North American Aviation, Inc. Metal honeycomb expansion. 2,898,815, 8-11-59, Cl. 93-1.
- Simon, Aaron. Invalid's wheelchair. 2,874,756, 2-24-59, Cl. 155-171.
- Simon, Andrew, to The American Monorail Co. Station pre-selector for traveling conveyor. 2,898,868, 8-11-59, Cl. 104-88.
- Simon, Andrew, to The American Monorail Co. Material handling system. 2,902,945, 9-8-59, Cl. 104-88.
- Simon-Carves Ltd.: *See*—  
Hiby, Julius W., and F. K. 2,873,231.
- Simon, Dick S.: *See*—  
Bostock, James H., and Simon. 2,884,073.
- Simon, Eli: *See*—  
Hamilton, William F., and Simon. 2,892,761.
- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Flexible resilient cellular polyurethane resin products. 2,894,919, 7-14-59, Cl. 260-2.5.
- Simon, Eli, and F. W. Thomas, to Lockheed Aircraft Corp. Packaging methods. 2,897,641, 8-4-59, Cl. 53-3.
- Simon, Frank. Trousers hanger. 2,900,118, 8-18-59, Cl. 223-96.
- Simon, Franz, and W. Grohmann, to Siemens & Halske Akt. Controlling the extension of calls in P. B. X telephone system. 2,877,307, 3-10-59, Cl. 179-23.
- Simon, Henry Ltd.: *See*—  
Allen, Robert W., and Taylor. 2,868,590.  
Ball, John S. 2,891,685.  
Hallworth, Robert. 2,898,157.
- Simon, Irvin C.: *See*—  
Keller, Arthur P., Jr., and Simon. 2,901,935.
- Simon, James E. Self trimming transfer mold. 2,913,767, 11-24-59, Cl. 18-42.
- Simon, Jean-Claude, and G. Weill, to Compagnie Generale de Telegraphie Sans Fil. Omnidirectional aeriels. 2,885,673, 5-5-59, Cl. 343-755.
- Simon, John. Alarm-timepiece. 2,873,573, 2-17-59, Cl. 58-57.5.
- Simon, John R.: *See*—  
Bremer, Robert D., and Simon. 2,910,570.
- Simon, Lester E.: *See*—  
Jaxtheimer, Don C., Cahill, and Simon. 2,884,945.
- Simon, Mary B.: *See*—  
Blatz, Peter A. 2,909,008.
- Simon, Mathias J. Bushing. 2,869,412, 1-20-59, Cl. 82-44.
- Simon, Morris, and J. R. Wagner, to United States of America, Army. Process for retarding non-enzymatic browning of potatoes. 2,893,878, 7-7-59, Cl. 99-207.
- Simon, Myron S.: *See*—  
Cohler, Marilyn R., and Simon. 2,892,710.
- Simon, Peter C. Adjustable center punching jig for 3 hole hinges. 2,889,633, 6-9-59, Cl. 33-189.
- Simon, Sidney. Take-apart kitchen range hood. 2,898,840, 8-11-59, Cl. 98-115.
- Simon, Sidney. Shelf hardware. 2,906,487, 9-29-59, Cl. 248-248.
- Simon, Sidney L., to United States of America, Atomic Energy Commission. Loading machine for reactors. 2,893,575, 7-7-59, Cl. 214-18.
- Simon, Valentine. Novelty display device. 2,911,745, 11-10-59, Cl. 40-106.22.
- Simond-Cote, Paul: *See*—  
Ernyei, Herbert, and Simond-Cote. 2,908,753.
- Simonds Abrasive Co.: *See*—  
Suga, Arthur M. 2,897,076.  
Suga, Arthur M. 2,916,368.
- Simonds, Clarence S.: *See*—  
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- Simonds Saw and Steel Co.: *See*—  
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- Simone, Guy A. Door-mounted automobile protector. 2,881,468, 4-14-59, Cl. 16-86.
- Simonelli, Joseph: *See*—  
Pettigrew, David D., and Simonelli. 2,887,924.
- Simonet, Guy: *See*—  
Spondlin, Rodolphe, Stouls, Bonnaud, and Simonet. 2,917,902.
- Simons, Allison K., A. O. Radke, and J. A. Champa, to Hickman Industries, Inc. Resilient seat structure. 2,875,810, 3-3-59, Cl. 155-50.
- Simons, Allison K., A. O. Radke, and A. F. Hickman, to Hickman Industries, Inc. Seat structure for farm tractors and the like. 2,894,563, 7-14-59, Cl. 155-51.
- Simons, Donald M.: *See*—  
Arnold, Robert G., and Simons. 2,902,474.
- Simons, Donald M., to E. I. du Pont de Nemours and Co. Polyurethane diamines. 2,888,439, 5-26-59, Cl. 260-77.5.
- Simons, Hendrik, to North American Philips Co., Inc. Band-pass filter. 2,890,423, 6-9-59, Cl. 333-78.
- Simons, Henry H.: *See*—  
Wasserman, Rene D., and Simons. 2,914,435.
- Simons, Jesse T.: *See*—  
Hetzl, Wayne D., and Simons. 2,915,000.
- Simons, Langdon S., Jr.: *See*—  
Schladermunt, Peter, Dennerlein, and Simons. 2,889,039.
- Simons, Lawrence E., 49% to P. G. Herman. Combined container and dispenser. 2,879,931, 3-31-59, Cl. 225-25.
- Simons, Malcolm: *See*—  
Rommel, Frederick E., and Simons. 2,867,755.
- Simons, William B., Jr., and E. M. Seagrave, Jr., to Tube Masters, Inc. Tensioning device. 2,888,216, 5-26-59, Cl. 242-45.
- Simons, William R., to Smiths America Corp. Gyroscope caging devices. 2,884,787, 5-5-59, Cl. 74-5.1.
- Simons, William R., to Smiths America Corp. Gyroscope caging devices. 2,895,338, 7-21-59, Cl. 74-5.1.
- Simonsen, Edward H., to Simonsen Metal Products Co. Tool cabinet. 2,893,749, 7-7-59, Cl. 280-47.19.
- Simonsen Metal Products Co.: *See*—  
Simonsen, Edward H. 2,893,749.
- Simonton, Marvin E., and J. O. Yelser, to B. R. Katshen. Method and apparatus for controlling production machines. 2,913,531, 11-17-59, Cl. 250-83.6.
- Simor, George G.: *See*—  
Orsten, Leo A., and Simor. 2,869,542.



- Simos, Anthony. Audio frequency controlled fountain. 2,868,055, 1-13-59, Cl. 84-464.
- Simpelaar, Clyde S., to Modine Mfg. Co. Damper construction. 2,899,171, 8-11-59, Cl. 251-138.
- Simplan Corp. of America: *See*—
- Hopp, Robert E. 2,909,221.
- Simplex Equipment Corp.: *See*—
- MacFarlane, Roderick T., Abrams, and Passman. 2,917,581.
- Simplex Forms System, Inc.: *See*—
- Shoemaker, James C. 2,898,659.
- Simplex Industrial Products, Inc.: *See*—
- Gerber, Harry. Re. 24,672.
- Simplex Time Recorder Co.: *See*—
- Blouin, Maurice A. 2,900,787.
- Maki, Jacob K., and Rockwood. 2,907,275.
- Simplex Valve and Meter Co.: *See*—
- Borden, Moro M. 2,876,789.
- Welch, Clyde L. 2,907,460.
- Simplicity Engineering Co.: *See*—
- Behnke, George W., and Westcott. 2,918,926.
- Simplicity Mfg. Co.: *See*—
- Kamlukin, Igor. 2,880,034.
- Kamlukin, Igor. 2,903,077.
- Simpson, Amos W., Jr., to General Electric Co. Electric circuit breaker. 2,901,579, 8-25-59, Cl. 200-147.
- Simpson, Anthony W., to The Plessey Co. Ltd. Storage devices. 2,870,433, 1-20-59, Cl. 340-174.
- Simpson, Arthur A., and H. H. Denmark. Refrigerator for use in connection with engines utilizing volatile fuel. 2,872,790, 2-10-59, Cl. 62-7.
- Simpson, Arthur P., to American Machine & Foundry Co. Self leveling, storing and dispensing apparatus. 2,886,391, 5-12-59, Cl. 312-71.
- Simpson, Clarence, to United States of America, Air Force. Trace identifier for oscilloscopes. 2,906,917, 9-29-59, Cl. 315-13.
- Simpson, Clarence E., to United States of America, Army. Closed and open fire control mechanism. 2,872,849, 2-10-59, Cl. 89-140.
- Simpson, David M. Tool holder. 2,917,958, 12-22-59, Cl. 82-36.
- Simpson, Edgar A.: *See*—
- Ahlberg, Jacob E., and Simpson. 2,900,348.
- Simpson, Frank E., to Food Machinery and Chemical Corp. Stacking machine. 2,892,631, 6-30-59, Cl. 271-87.
- Simpson, Frank R., to Owens-Corning Fiberglas Corp. Closure operating device. 2,884,159, 4-23-59, Cl. 220-57.
- Simpson, Frank R., to United States of America, Army. Pre-engraved projectiles and gun for firing same. 2,890,625, 6-16-59, Cl. 89-34.
- Simpson, Frank R., to United States of America, Army. Pre-engraved projectiles and gun for firing same. 2,892,408, 6-30-59, Cl. 102-38.
- Simpson, Fred S.: *See*—
- Standifer, Lafayette B., Jr., and Simpson. 2,872,237.
- Simpson, Frederick A.: *See*—
- Spicer, Harold E., Crosby, and Simpson. 2,894,689.
- Simpson, Harold G., and N. W. Rimmer, to Butler Mfg. Co. Low pitch rigid frame building. 2,871,997, 2-3-59, Cl. 189-1.
- Simpson, Henry A. Cutting device. 2,904,118, 9-15-59, Cl. 172-599.
- Simpson, Howard W.,  $\frac{1}{2}$  to General Motors Corp. Planetary transmission for self-propelled vehicle. Re. 24,619, 3-10-59, Cl. 74-761.
- Simpson, Howard W. Planetary transmission for self-propelled vehicles. 2,873,621, 2-17-59, Cl. 74-677.
- Simpson, Howard W. Six speed transmission. 2,873,623, 2-17-59, Cl. 74-759.
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- Simpson, Howard W.,  $\frac{1}{2}$  to General Motors Corp. Planetary transmission. 2,914,967, 12-1-59, Cl. 74-759.
- Simpson, Herbert, Corp.: *See*—
- McIlvaine, Robert L. 2,916,267.
- Simpson, Jack N., to The Electric Storage Battery Co. Adjustable goggle mounting. 2,876,454, 3-10-59, Cl. 2-14.
- Simpson, Jack N., and C. J. Boyer, to The Electric Storage Battery Co. Miner's lamp bracket. 2,895,137, 7-21-59, Cl. 2-3.
- Simpson, Jean E. Combination straw chopping and spreading apparatus. 2,886,331, 5-12-59, Cl. 275-3.
- Simpson, John A., to Vulcan Trailers Mfg. Co., Inc. Trailer having removable support means. 2,904,340, 9-15-59, Cl. 280-2.
- Simpson, John M., and H. E. Carnagua, to Borg-Warner Corp. Automatic transmission and control system therefor. 2,911,856, 11-10-59, Cl. 74-740.
- Simpson, Justin, to Continental Can Co., Inc. Overload release drive and inching means. 2,900,842, 8-25-59, Cl. 74-625.
- Simpson, Justin, to Continental Can Co., Inc. Motor mounting means. 2,901,195, 8-25-59, Cl. 248-16.
- Simpson, Justin, J. J. Sennello, and E. T. Bengtson, to Continental Can Co., Inc. Slack filled can detecting and ejecting apparatus. 2,907,457, 10-6-59, Cl. 209-74.
- Simpson, Kenneth P. Shoe lace clasp. 2,877,526, 3-17-59, Cl. 24-120.
- Simpson, Robert M., to Columbian-General Blacks Ltd. Methods of and apparatus for separating or classifying materials. 2,874,840, 2-24-59, Cl. 209-250.
- Simpson, Robert V.: *See*—
- Furman, Frank J., Moneagle, and Simpson. 2,907,270.
- Furman, Frank J., Moneagle, and Simpson. 2,909,994.
- Simpson, Warren C., to Shell Development Co. Composition comprising aromatic petroleum residue and polyepoxide and process for treating surfaces therewith. 2,906,720, 9-29-59, Cl. 260-28.
- Simpson, Warren C., to Shell Development Co. Combustion process. 2,913,043, 11-17-59, Cl. 158-117.5.
- Sims, Calvin A.: *See*—
- Gortner, John N., and Sims. 2,887,529.
- Sims, Don C. Spoon and fork rest for kitchen utensils. 2,900,151, 8-18-59, Cl. 248-37.3.
- Sims, Everett E., P. P. Konyha, and L. N. Petersen, to Caterpillar Tractor Co. Single lever control for engine starting mechanism. 2,900,970, 8-25-59, Cl. 123-179.
- Sims, Fred P.: *See*—
- Cuorato, John J., and Sims. 2,912,533.
- Sims, Homer J.: *See*—
- De Benneville, Peter L., and Sims. 2,905,680.
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- De Benneville, Peter L., and Sims. 2,905,682.
- De Benneville, Peter L., and Sims. 2,905,718.
- De Benneville, Peter L., and Sims. 2,905,719.
- De Benneville, Peter L., and Sims. 2,905,720.
- De Benneville, Peter L., and Sims. 2,905,721.
- Sims, Jacqueline G., and C. L. Moyle, to The Dow Chemical Co. 2-nitro-3,4,6-trichlorophenyl benzoates. 2,905,706, 9-22-59, Cl. 260-471.
- Sims, Jacqueline G., and C. L. Moyle, to The Dow Chemical Co. 2-nitro-3,4,6-trichlorophenyl alkyl carbonates. 2,917,534, 12-15-59, Cl. 260-463.
- Sims, James S., Jr.: *See*—
- Prell, Francis R., and Sims. 2,878,426.
- Sims, James S., Jr., and T. P. Farkas, to United Aircraft Corp. Cabin temperature control system. 2,917,288, 12-15-59, Cl. 257-276.
- Sims, John C., Jr., to Sperry Rand Corp. Magnetic core resetting devices. 2,892,970, 6-30-59, Cl. 317-123.
- Sims, Lawrence A.: *See*—
- Taylor, Lance, and Sims. 2,903,732.
- Sims, Rex J., K. F. Mattil, and W. J. Lehmann, to Swift & Co. Method of processing soybean oil to retard flavor reversion. 2,872,465, 2-3-59, Cl. 260-423.
- Simon, Verne H.: *See*—
- Eck, Robert N., and Simson. 2,870,392.
- Sina Viscosa Società Nazionale Industria: *See*—
- Notarbartolo, Luigi. 2,908,666.
- Sinaewski, Walden F. Ski rack. 2,919,032, 12-29-59, Cl. 211-60.
- Sincat Società Industriale Catanese S.p.A.: *See*—
- Ceviddali, Guidobaldo, Marchi, and Saccardo. 2,902,344.
- Saccardo, Pietro. 2,902,343.
- Sinclair, Charles W., to Kelsey-Hayes Co. Rim. 2,910,107, 10-27-59, Cl. 152-410.
- Sinclair, Charles W., and R. L. Atkin, to Kelsey-Hayes Co. Wheel rim. 2,911,028, 11-3-59, Cl. 152-409.
- Sinclair, Harold. Control mechanisms. 2,873,620, 2-17-59, Cl. 74-665.
- Sinclair, Harold. Power transmission systems embodying hydraulic turbo-transmitters. 2,873,831, 2-17-59, Cl. 192-02.
- Sinclair, Harold. Hydraulic turbo-couplings. 2,880,583, 4-7-59, Cl. 60-54.
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- Sinclair, Harold. Power transmission mechanisms. 2,890,599, 6-16-59, Cl. 74-655.
- Sinclair, Harold. Power transmission mechanisms. 2,892,356, 6-30-59, Cl. 74-361.
- Sinclair, Harold. Brake mechanisms. 2,892,520, 6-30-59, Cl. 192-2.
- Sinclair, Harold. Clutches for transmitting rotary motion. 2,892,524, 6-30-59, Cl. 192-67.
- Sinclair, Harold. Pawl and ratchet mechanisms. 2,907,431, 10-6-59, Cl. 192-67.
- Sinclair, Harold. Mechanical coupling means. 2,908,367, 1-13-59, Cl. 192-67.
- Sinclair, Harold, and A. C. Basebe, to S. S. S. Gears Ltd. Clutches for transmitting rotary motion. 2,876,878, 3-10-59, Cl. 192-67.
- Sinclair, Hugh J.,  $\frac{1}{2}$  to C. M. Hussey. Special dispensing package. 2,886,208, 5-12-59, Cl. 221-288.
- Sinclair, Hugh J.,  $\frac{1}{2}$  to C. M. Hussey. Dispenser. 2,892,569, 6-30-59, Cl. 221-299.
- Sinclair, James A. Molds for plastic materials. 2,894,311, 7-14-59, Cl. 25-130.
- Sinclair, John G., Jr., to Hughes Aircraft Co. Electrical delay lines. 2,894,223, 7-7-59, Cl. 333-31.
- Sinclair, John M., to Coats & Clark Inc. Quick separation slide fastener and slider stop for the same. 2,875,490, 3-3-59, Cl. 24-205.11.
- Sinclair, Lou F., to Biltmore Mfg. Co. Table construction. 2,915,350, 12-1-59, Cl. 311-114.
- Sinclair Mills, Inc.: *See*—
- Slotoroff, Abraham. 2,877,771.
- Sinclair Oil & Gas Co.: *See*—
- Bowman, Donald C. 2,911,638.
- Jacobson, Rollyn P. 2,915,220.
- Johnson, James F. 2,894,245.



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- Pelzer, Harry L., and Carr. 2,877,847.  
 Perry, Robert O. 2,885,004.  
 Szasz, Stefan E. 2,894,200.  
 Westphal, James A. 2,896,073.  
 Westphal, James A. 2,906,198.  
 Westphal, James A. 2,914,854.  
 Sinclair Refining Co.: See—  
 Beck, Paul W. 2,883,338.  
 Campbell, Oliver, and Pennells. 2,898,892.  
 Case, Everett N. 2,885,367.  
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 Chamberlin, Francis E. 2,915,468.  
 Chambers, Robert R., Elkins, and Monagle. 2,899,419.  
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 Clouse, Easton R., and Woerner. 2,878,162.  
 Cross, Carl F. 2,914,467.  
 Dorinson, Amos. 2,898,331.  
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 Friedman, Bernard S. 2,874,186.  
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 Francisco, Cecil J., and Schultz. 2,871,186.  
 Hudson, Charles N. 2,917,375.  
 Keith, Carl D. 2,894,915.  
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 Keith, Willis C. 2,873,301.  
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 Kleinholz, Milton P. 2,898,286.  
 Lederle, Henry F., and Elkins. 2,892,868.  
 Lindberg, Ramon I. 2,882,227.  
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 Mitchell, George R. 2,911,843.  
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 Nelson, John W. 2,886,465.  
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 Patinkin, Seymour H., and Sanford. 2,867,674.  
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 Rausch, Maurice K. 2,914,471.  
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 Sanford, Robert A. 2,874,200.  
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 Schrum, Robert W. 2,881,140.  
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 Verley, Guy M. 2,916,448.  
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 Walker, Russell W. 2,914,582.  
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 Wunderlich, Donald K. 2,867,676.  
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 Sinclair Research Laboratories, Inc.: See—  
 Vlasic, John G. 2,893,391.  
 Sinclair, Richard L. Vehicle parking control means. 2,913,906, 11-24-59, Cl. 74-2.  
 Sinclair, Robert L., to The Gillette Co. Display rack. 2,888,223, 5-26-59, Cl. 248-198.  
 Sindall, Robert A., Jr.: See—  
 Kibler, Louis E., and Sindall. 2,877,816.  
 Sindel, Johann, R. Huber, and O. Zottmann, to Pertrix-Union G.m.b.H. Primary dry cell. 2,903,498, 9-8-59, Cl. 136-95.  
 Sinden, Alfred D.: See—  
 Kendall, Myron A., and Sinden. 2,905,100.  
 Sinden, Alfred D., to Stephens-Adamson Mfg. Co. Curved conveyor for transportation apparatus. 2,905,101, 9-22-59, Cl. 104-25.  
 Sinden, Frank W. Wide range aerosol sampler. 2,894,877, 7-14-59, Cl. 195-103.5.  
 Sindlinger, Charles J.: See—  
 Rahn, Henry W., and Sindlinger. 2,876,073.  
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 Sinex, Gene O., to American Tank and Steel Corp. Gas and liquid separating apparatus. 2,899,014, 8-11-59, Cl. 183-2.7.  
 Singelman, Fred E., to Admiral Corp. Variable resistor. 2,868,933, 1-13-59, Cl. 201-62.  
 Singelman, Fred E., to Admiral Corp. Method and apparatus for making antennas with ferrite cores. 2,893,651, 7-7-59, Cl. 242-9.  
 Singelman, Fred E., to Admiral Corp. Method and apparatus for testing television receivers. 2,900,598, 8-18-59, Cl. 324-72.  
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- Singelmann, Willi. Electric cooking stoves. 2,912,560, 11-10-59, Cl. 219-37.  
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 Singer, Fritz. Cold working metals coated with colloidal sulfur. 2,876,148, 3-3-59, Cl. 148-6.24.  
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 Schwechten, Heinz W., Singer, and Bayer. 2,900,216.  
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 Singer Mfg. Co., The: See—  
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 Batson, William A. 2,883,249.  
 Cook, Albert N. 2,905,274.  
 Dunn, Earl F. 2,882,850.  
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 Edwards, William J. 2,882,849.  
 Enos, John P. 2,877,728.  
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 Fuge, Harry B. 2,883,611.  
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 Herbst, Edward J. 2,910,029.  
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 Kunes, Earle C. 2,891,496.  
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 Meloy, Arthur S., Jr., Sweet, and Johnson. 2,883,952.  
 Mendles, Walter J. 2,900,942.  
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 Pinkvoss, Berthild P., deceased, by A. Pinkvoss, executrix. 2,875,716.  
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 Reid, Orland B. 2,900,936.  
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- Singleton, Andrew D.: *See*—
- Kline, Leo, and Singleton. 2,881,077.
- Singleton, Benoit M., to Woodlin Metal Products. Window and storm sash assembly. 2,889,900, 6-9-59, Cl. 189-69.
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- Singleton, Charles L., to Multicator Corp. Credit verifying system. 2,902,541, 9-1-59, Cl. 179-2.
- Singleton Co., The: *See*—
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- Singleton, George W.: *See*—
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- Singleton, Lucille V.: *See*—
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- Singleton, Richard H., to National Research Corp. Method of producing titanium. 2,889,221, 6-2-59, Cl. 75-84.5.
- Singleton, Robert C.: *See*—
- Murdoch, Robert W., and Singleton. 2,896,065.
- Singleton, Robert S.: *See*—
- Cunningham, John W., and R. S. and G. W. Singleton. 2,885,300.
- Singleton, Russell A., & Sons: *See*—
- Cunningham, John W., and R. S. and G. W. Singleton. 2,885,300.
- Singleton, Vernon L.: *See*—
- Thomas, Samuel O., Lowery, and Singleton. 2,914,525.
- Sinizer, David I.: *See*—
- Ham, John L., and Sinizer. 2,875,034.
- Sink, James A., to Philco Corp. Electrical systems. 2,880,272, 3-31-59, Cl. 178-7.3.
- Sink, Robert L., to Consolidated Electrodynamics Corp. Speed measurement and control. 2,876,004, 3-3-59, Cl. 271-2.3.
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- Sinn, Gustav: *See*—
- Graulich, Wilhelm, Sinn, Holzrichter, and Rosahl. 2,871,213.
- Sinn, William G.: *See*—
- Scott, Arthur D., Greenlee, Evans, and Sinn. 2,899,860.
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- Goetzel, Claus G., Grant, Skolnick, and Yoblin. 2,899,338.
- Gregory, Eric. 2,894,838.
- Sinton & Brown Co.: *See*—
- McLellan, William N. 2,892,717.
- Sioux Steel Co.: *See*—
- Jankowski, Edward M. 2,869,753.
- Sipin, Anatole J., to Sperry Rand Corp. Fuel metering system for starting gas turbine engines. 2,892,309, 6-30-59, Cl. 60-39.14.
- Sippach, Frederick W., Jr., and K. Strahlberg, to Daystrom, Inc. Sawtooth wave generator. 2,884,525, 4-28-59, Cl. 250-36.
- Sippel, Gerhardt J.: *See*—
- Sippel, John and G. J. 2,896,556.
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- Francis, Samuel A., and Gray. 2,911,572.
- Sira Societa Industriale Ricerche Automotoristiche: *See*—
- Giacosa, Dante. 2,871,968.
- Siri, Louis J., to Penn Controls, Inc. Air charger for pressurized tanks. 2,918,931, 12-29-59, Cl. 137-211.
- Sirkin, Senia, and G. W. Randle, to Parkinson and Cowan Ltd. Blue flame wick burners for liquid fuel. 2,871,687, 2-3-59, Cl. 67-38.
- Sirles, John P., F. T. May, and H. J. Eberiel, to Westinghouse Electric Corp. Automatic cane loading for spud inserting machine. 2,870,938, 1-27-59, Cl. 221-183.
- Sirmay, Emil S. Permanent pre-cast mold. 2,903,761, 9-15-59, Cl. 22-113.
- Sirons, Janis A., to United States of America, Air Force. Antenna lobe switching system. 2,901,748, 8-25-59, Cl. 343-733.
- Sirp, Emil: *See*—
- McCain, Cecil C., and Sirp. 2,873,516.
- Sisk, Lulu E.: *See*—
- Sisk, Martin A. 2,898,129.
- Sisk, Martin A. Finish rims for surface drains. 2,889,928, 6-9-59, Cl. 210-163.
- Sisk, Martin A., deceased, by L. E. Sisk, executrix. Clamp-in device for floor drains with removable clamps. 2,898,129, 8-4-59, Cl. 285-42.
- Siskel, Manuel: *See*—
- Corr, James J., and Siskel. 2,870,402.
- Sisler, Harry H., and F. R. Hurley, to The Ohio State University Research Foundation. Method of recovering hydrazine. 2,899,364, 8-11-59, Cl. 202-50.
- Sisley, Leslie J., Dryers. 2,876,698, 3-10-59, Cl. 100-147.
- Sislik, Ivan, to The Palnut Co. Push-on fastener with torsion spring teeth. 2,880,641, 4-7-59, Cl. 85-35.
- Sislik, Ivan, to The Palnut Co. Support and plate-and-support assembly. 2,915,272, 12-1-59, Cl. 248-220.5.
- Sisman, Oscar: *See*—
- Ura, Chester L., Sisman, and Briggs. 2,872,402.
- Sisson, Doreen E.: *See*—
- Sisson, Earl L. 2,915,984.
- Sisson, Earl L. 2,915,986.
- Sisson, Earl L., to D. E. Sisson. Unitary hand pump and discharge line. 2,915,984, 12-8-59, Cl. 103-153.
- Sisson, Earl L., to D. E. Sisson. Hand pump for liquids. 2,915,986, 12-8-59, Cl. 103-178.
- Sisson, Edmond F., R. F. Cole, and J. P. Krumbein, to Heyden Newport Chemical Corp. Method of fractionating tall oil into fatty acids and rosin acid products. 2,894,880, 7-14-59, Cl. 202-52.
- Sisson, Harry H., and J. C. Calkins, to Robert H. Ray Co. Apparatus for locating the position and dip of reflecting strata and for plotting ray paths. 2,880,510, 4-7-59, Cl. 33-1.
- Sisson, James B., to St. Regis Paper Co. Methods and apparatus for forming sandwiches of a foamed plastic layer interposed between webs of sheet material. 2,872,965, 2-10-59, Cl. 154-1.
- Sisson, James B., to St. Regis Paper Co. Foamed polystyrene article. 2,917,217, 12-15-59, Cl. 229-4.5.
- Sisson, Kenneth O.: *See*—
- Evans, Jesse L., and Sisson. 2,880,479.
- Sisson, Kenneth O., to General Motors Corp. Two speed timer. 2,870,834, 1-27-59, Cl. 161-1.
- Sisson, Kenneth O., to General Motors Corp. Domestic appliance. 2,882,360, 4-14-59, Cl. 200-61.7.
- Sisson, Wayne A.: *See*—
- Hollihan, John P., Jr., Howsmon, and Sisson. 2,916,391.
- Sisson, Wayne A., to American Viscose Corp. Method of producing viscose rayon. 2,906,634, 9-29-59, Cl. 106-165.
- Sisto, Joseph A., and J. Milos, to Barium Steel Corp. Heating apparatus. 2,901,234, 8-25-59, Cl. 263-44.
- Sistrunk, Thomas O.: *See*—
- Ray, Richard L., and Sistrunk. 2,868,722.
- Ray, Richard L., and Sistrunk. 2,868,771.
- Sisulak, Michael S.: *See*—
- Stone, George M., Jr., and Sisulak. 2,867,106.
- Sitler, Richard W., to Aurora Equipment Co. Hinge construction. 2,887,193, 5-19-59, Cl. 189-46.
- Sitler, Richard W., to Aurora Equipment Co. Tray construction and method of making same. 2,888,160, 5-26-59, Cl. 220-22.
- Sitler, Richard W., to Aurora Equipment Co. Drawer construction and method of making same. 2,897,997, 8-4-59, Cl. 220-22.
- Sitterly, Charles K., and E. O. Stecher, to Caradco Inc. Weatherstripped windows. 2,918,710, 12-29-59, Cl. 20-69.
- Sitton, Ruth B. Septic tank and method of manufacture. 2,888,819, 6-2-59, Cl. 72-14.
- Sitz, Geraldine: *See*—
- Borders, Robert L., Jr., and Sitz. 2,873,139.
- Sitz, Gilbert C., to AMP Inc. Plug terminal. 2,903,670, 9-8-59, Cl. 339-128.
- Sitz, Gilbert C., to AMP Inc. Connector block assembly. 2,909,756, 10-20-59, Cl. 339-198.
- Sivacek, Emil E., to King-Seely Corp. Speedometer. 2,887,084, 5-19-59, Cl. 116-57.
- Sivalls Tanks, Inc.: *See*—
- Lovelady, Isaac W., and Kroeker. 2,882,994.
- Sivells, Letha L. Shampooing and massaging device. 2,869,158, 1-20-59, Cl. 15-22.
- Sivertsen, Jens. Inductance strain gauges. 2,870,630, 1-27-59, Cl. 73-88.5.
- Sivesind, Hjalmer J., and D. W. Rowley, to Donaldson Co., Inc. Apparatus for deodorizing exhaust gases from internal combustion engines. 2,918,789, 12-29-59, Cl. 60-30.
- Siwek, Stanley Z., Pioneer Gen-E-Motor Corp. Self-propelled mower. 2,896,731, 7-28-59, Cl. 180-19.
- Siwek, Stanley Z., to Pioneer Gen-E-Motor Corp. Self-propelled mower. 2,914,129, 11-24-59, Cl. 180-74.
- Sixsmith, Herbert, to National Research Development Corp. Bearings for rotating shafts which are lubricated by gas. 2,884,282, 4-28-59, Cl. 308-9.
- Sixsmith, Herbert, to English Electric Valve Co. Ltd. Magnatron oscillators. 2,901,666, 8-25-59, Cl. 315-39.51.
- Sixthor, Franz: *See*—
- Costa, Joseph L., Glauber, Morse, Politzer, and Sixthor. 2,890,865.
- Sizemore, Clarence B., and J. R. Thompson, to United States Steel Corp. Bin-level sensing device. 2,896,039, 7-21-59, Cl. 200-61.21.
- Sizemore, Ethel M. Dish and utensil drier. 2,897,973, 8-4-59, Cl. 211-41.
- Sizer, Philip S.: *See*—
- Schramm, Harry B., and Sizer. 2,911,997.
- Sjalin, Kjell-Erik: *See*—
- Krantz, Evert, and Sjalin. 2,881,858.



- Sjchofield, George H.: *See*—  
Meschwitz, Kurt H., and Sjchofield. 2,910,575.
- Sjoberg, Henry A. E.: *See*—  
Swallow, Basil H., and Sjoberg. 2,916,225.
- Sjohobm, Curt H. K. Wire feeder. 2,919,014, 12-29-59, Cl. 203-150.
- Sjolander, Newell O.: *See*—  
McCormick, Jerry R. D., Hirsch, Jensen, and Sjolander. 2,878,289.
- Sjölund, Väinö V., to Vict.: Th. Engwall & Co. Means for boiling, roasting, baking, sterilizing or other heat treatment of food. 2,899,534, 8-11-59, Cl. 219-44.
- Sjölund, Väinö V.: *See*—  
Larson, Gerhard V. 2,885,294.
- Sjöstrand, Fritiof, and E. F. Gürtler, to L K B-Produkter Fabriksaktiebolag. Microtome. 2,875,669, 3-3-59, Cl. 88-40.
- Sjostrom, Harold J. Magnetic lifting and material transferring devices. 2,906,554, 9-29-59, Cl. 294-65.5.
- Sjostrom, John W.: *See*—  
Pope, Lyman B., Sjostrom, and Kempton. 2,880,629.
- Sjostrom, Robert L. Sheet feeding machine. 2,919,129, 12-29-59, Cl. 271-33.
- Skaar, Karsten S., to United States of America, Navy. High strength fiber glass-metal construction and process for its manufacture. 2,872,865, 2-10-59, Cl. 102-56.
- Skaggs, John W. to Westinghouse Electric Corp. Signal delay means. 2,907,958, 10-6-59, Cl. 333-30.
- Skantze, Hugo: *See*—  
Wallace, William G., and Skantze. 2,915,443.
- Skaptason, Joseph B., and J. S. Mackay, to Pittsburgh Coke & Chemical Co. Sulfamate rust eradicants. 2,900,294, 8-18-59, Cl. 167-22.
- Skare, Vernon G.: *See*—  
Loudon, Robert E., and Skare. 2,877,387.
- Skareen, Willard C., to The Bingham-Herbrand Corp. Mechanism control. 2,899,837, 8-18-59, Cl. 74-518.
- Skarstrom, Charles, to United States of America, Atomic Energy Commission. Centrifugal separators. 2,876,949, 3-10-59, Cl. 233-11.
- Skarstrom, Charles W.: *See*—  
Worsham, Charles H., and Skarstrom. 2,900,328.
- Skarstrom, Charles W., to Esso Research and Engineering Co. Apparatus for analyzing mixtures of gaseous materials by composition modulation. 2,889,701, 6-9-59, Cl. 73-23.
- Skatches, Othmar, to H. List. Governor. 2,908,265, 10-13-59, Cl. 123-140.
- Skatsche, Othmar: *See*—  
Scheiterlein, Andreas, and Skatsche. 2,873,734.  
Scheiterlein, Andreas, and Skatsche. 2,879,758.
- Skay, Frank, to Holley Carburetor Co. Thermostat case clamp. 2,902,307, 9-1-59, Cl. 292-256.6.
- Skay, Frank, to Photo-Matic Inc. Light responsive system and photoconductive cell therefor. 2,911,568, 11-3-59, Cl. 315-83.
- Skeen, Samuel A., Jr.: *See*—  
Ottestad, Jack B., Ayers, Skeen, and Kavanaugh. 2,909,057.
- Skeens, Kenneth M. Mine vehicle. 2,897,004, 7-28-59, Cl. 298-25.
- Skeeters, Maxwell J., to Diamond Alkali Co. Stabilization of chlorinated hydrocarbons with acetylenic ethers. 2,868,851, 1-13-59, Cl. 260-652.5.
- Skeggs, Helen R.: *See*—  
Wright, Lemuel D., Skeggs, Wolf, and Hoffman. 2,915,398.
- Skeggs, Leonard T., to Technicon Instruments Corp. Automatic analyzing apparatus. 2,879,141, 3-24-59, Cl. 23-253.
- Skehan, Joseph W., to Machlett Laboratories, Inc. Electron tubes. 2,890,366, 6-9-59, Cl. 313-146.
- Skeirik, Roy M.: *See*—  
Brown, George W., Cartwright, Hutter, McCann, Nyberg, Skeirik, and Krag. 2,909,968.
- Skelly, James J., to Specialty Products Corp. Conduit clamp. 2,874,438, 2-24-59, Cl. 24-279.
- Skelly, Joseph F., to The M. W. Kellogg Co. Fluidized solids hydrocarbon conversion system with an improved solids transfer between the reaction and stripping zones. 2,900,330, 8-18-59, Cl. 208-164.
- Skelly Oil Co.: *See*—  
Wood, Joseph F., and Hopkins. 2,878,109.
- Skelton, Charles W., J. S. Mason, and F. E. Whisenant, to Texas Instruments Inc. Electrical switching mechanism for intervalometer. 2,886,661, 5-12-59, Cl. 200-5.
- Skelton, Charles W., and W. F. Donnell, to Texas Instruments Inc. Three phase power supply. 2,899,572, 8-11-59, Cl. 307-106.
- Skelton, Emerson W.: *See*—  
Lewis, Edmund P., Skelton, and Cochrane. 2,916,361.
- Skelton, Jesse D., and H. B. Ferguson, to Jersey Production Research Co. Seismic section printer. 2,876,428, 3-3-59, Cl. 340-15.
- Skelton, Wilfred. Hair curlers. 2,899,966, 8-18-59, Cl. 132-40.
- Skelton, William E.: *See*—  
Cole, Edward L., Skelton and Meyers. 2,879,223.
- Skerl, Rudolph E.: *See*—  
Douglas, Alvin P., Golrick, and Skerl. 2,899,030.
- Skertritt, Roy P. Furnace humidifier. 2,870,762, 1-27-59, Cl. 126-113.
- Skertritt, Roy P. Balanced pan humidifier. 2,887,102, 5-19-59, Cl. 126-113.
- Skiairon Electronics & Television Corp.: *See*—  
Shanahan, William J. 2,912,486.
- Skibicki, Stephen F., and J. J. Miskel, to Chas. Pfizer & Co., Inc. Tablet pulverizing and dispensing device. 2,886,253, 5-12-59, Cl. 241-63.
- Skiff, Edson W.: *See*—  
Franck, Jack V., Broadhead, and Skiff. 2,895,053.
- Skifter, Hector R.: *See*—  
Hare, Donald G. C., and Skifter. 2,875,328.
- Skil Corp.: *See*—  
Anthony, Myron L., and Virkus. 2,906,612.  
Bork, Hugo W. 2,869,245.  
Etkorn, Elmer F. 2,890,455.  
Kozacka, Joseph S. 2,895,267.
- Skiles, Benjamin F., to E. I. du Pont de Nemours and Co. Manufacture of vinyl fluoride and 1,1-difluoroethane. 2,892,000, 6-23-59, Cl. 260-653.4.
- Skiles, Benjamin F., to E. I. du Pont de Nemours and Co. Process of preparing isocyanates. 2,908,704, 10-13-59, Cl. 260-453.
- Skillin, Walter F., to Union Mfg. Co. Power chuck. 2,867,441, 1-6-59, Cl. 279-112.
- Skillin, Walter F., to Union Mfg. Co. Chuck with pivoted jaw. 2,916,290, 12-8-59, Cl. 279-106.
- Skillin, Walter F., and A. Damijonaitis, to Union Mfg. Co. Power chuck. 2,867,442, 1-6-59, Cl. 279-114.
- Skillman, T. S., and Co. Pty. Ltd.: *See*—  
Lackey, Alan D. 2,895,583.  
Skillman, Thomas S. 2,892,896.
- Skillman, Thomas S., to T. S. Skillman and Co. Pty. Ltd. Signalling arrangements. 2,892,896, 6-30-59, Cl. 179-84.
- Skinner, Bradley, to Phillips Petroleum Co. Distillation of heat sensitive compounds. 2,868,696, 1-13-59, Cl. 202-39.
- Skinner, Bradley, to Phillips Petroleum Co. Fractional crystallization process and apparatus. 2,891,099, 6-16-59, Cl. 260-666.
- Skinner, Charles G., Jr.: *See*—  
Shive, William, and Skinner. 2,875,203.
- Skinner Chuck Co., The: *See*—  
Goepfrich, George A. 2,898,120.
- Skinner Corp.: *See*—  
Powley, Rex H. 2,910,364.
- Skinner, Davis A.: *See*—  
McKinnis, Art C. 2,885,447.
- Skinner, Edward J., Ltd.: *See*—  
Thomas, Alan P. L. 2,903,120.
- Skinner, Eugene S., to Beloit Iron Works. Paper machine drum arrangement. 2,879,039, 3-24-59, Cl. 257-95.
- Skinner, George M., and D. W. Roth, to Union Carbide Corp. Gas shielded multi-arc welding. 2,868,954, 1-13-59, Cl. 219-130.
- Skinner, Hazel B.: *See*—  
Bletcher, Ralph E., and Ward. 2,875,702.
- Skinner, Jack C., and S. H. Tucker, Jr. Indicator. 2,876,306, 3-3-59, Cl. 200-61.25.
- Skinner, John R., and S. E. Steinle, to Shell Development Co. Method for the production of hydrogen peroxide. 2,871,103, 1-27-59, Cl. 23-207.
- Skinner, Kenneth R.: *See*—  
Matkins, Eugene G., and Skinner. 2,890,386.
- Skinner, Leo V., to United States of America, Atomic Energy Commission. Ground clearance indicator. 2,907,023, 9-29-59, Cl. 343-14.
- Skinner, M. B., Co.: *See*—  
Waite, Harry T., Jr., and Merrill. 2,895,498.
- Skinner, Robert K.: *See*—  
Berninger, Kenneth L., Skinner, and Covert. 2,916,094.  
Blackburn, Alan B., Kessler, Skinner, and Smith. 2,876,847.
- Skinner, Temp. Combined bug repellent and fertilizer. 2,912,316, 11-10-59, Cl. 71-4.
- Skinner, Wilfred J.: *See*—  
Bradford, Bernard W., and Skinner. 2,879,247.
- Skipper, Uvon: *See*—  
Medders, Weldon L., Foreman, and Skipper. 2,899,000.
- Skipper, William B., to The Weyburn Engineering Co. Ltd. Devices for injecting fuel or other media into internal combustion engines. 2,913,986, 11-24-59, Cl. 103-52.
- Skipsey, Allon. Vulcanization of rubber. 2,867,595, 1-6-59, Cl. 260-23.7.
- Skipwith, Lee, Jr., to Sprayers & Nozzles, Inc. Shut-off valves. 2,869,582, 1-20-59, Cl. 137-614.19.
- Skipwith, Lee, Jr. Means for preventing back flow. 2,875,776, 3-3-59, Cl. 137-218.
- Sklar, David F., to The Torsion Balance Co. Convertible hardness testers. 2,892,344, 6-30-59, Cl. 73-83.
- Sklar, David F., to The Torsion Balance Co. Inner face hardness tester. 2,892,345, 6-30-59, Cl. 73-83.
- Sklar, Harry B., and H. H. Norman, to Zig Zag Spring Co. Method and apparatus for producing a roll of wound spring wire and resulting product. 2,880,861, 4-7-59, Cl. 206-59.
- Skobel, Max. Method of encapsulating transformers and other electrical units. 2,879,584, 3-31-59, Cl. 29-155.56.
- Skoglund, Bengt, to AB Svenska Flaktfabriken. Turbulent pneumatic driers for granular and pulverulent material. 2,903,800, 9-15-59, Cl. 34-54.
- Skolfield, Samuel H., and H. S. Rubidge, Jr. Adjustable basket divider. 2,910,188, 10-27-59, Cl. 211-184.



- Skolfield, William K., to General Electric Co. Rug tool having a turbine-driven rug brush. 2,904,816, 9-22-59, Cl. 15-375.
- Skolnick, Leonard P.: *See*—  
Goetz, Claus G., Grant, Skolnick, and Yoblin. 2,899,338.
- Skony, Sigmund J., to Van Engineering, Hermetic Terminal Division. Electrical connector. 2,875,426, 2-24-59, Cl. 339-192.
- Skoog, Donald K., to Thor Power Tool Co. Torque release clutch drive mechanism for power operated screw drivers and the like. 2,886,075, 5-12-59, Cl. 144-32.
- Skoog, Folke: *See*—  
Strong, Frank M., Skoog, and Miller. 2,903,455.
- Skoog, Ivan H.: *See*—  
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- Skookum Co., Inc., The: *See*—  
Wernsing, Kenneth L. 2,881,496.
- Skorge, Ingvald: *See*—  
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- Skorup, Gordon E.: *See*—  
Toursough, Simeon I., Smith, and Skorup. 2,867,751.
- Skovholt, Joseph W., and C. E. Vogel, to Minneapolis-Honeywell Regulator Co. Steering mechanisms for aircraft. 2,876,409, 3-3-59, Cl. 318-489.
- Skovranek, John. Boat pumps. 2,891,499, 6-23-59, Cl. 114-183.
- Skowronski, Stanley L.: *See*—  
Calehuff, James M., Reiter, and Skowronski. 2,915,201.
- Skrivanek, Miles: *See*—  
Hughes, William C., and Skrivaneck. 2,881,318.
- Skrubot, Jacob P. Swinging shelves. 2,883,065, 4-21-59, Cl. 211-92.
- Skromme, Arnold B., to Deere Mfg. Co. Baler feeding means. 2,871,780, 2-3-59, Cl. 100-189.
- Skromme, Robert B.: *See*—  
Smith, Carlisle F., and Skromme. 2,872,860.
- Skubal, John J., to McGraw-Edison Co. Guy wire protector. 2,880,828, 4-7-59, Cl. 189-315.
- Skulavik, Joseph. Collapsible beverage carrier. 2,916,185, 12-8-59, Cl. 220-110.
- Skullerud, Arne F. Sled driven by endless tread. 2,914,126, 11-24-59, Cl. 180-55.
- Skumawitz, Max, to Tornado-Ramset G.m.b.H. & Co. Bolts and the like for use in bolt and like guns. 2,875,665, 3-3-59, Cl. 85-30.
- Skumawitz, Max, to Tornado Ramset G.m.b.H. & Co. Device for driving nails, bolts, and the like. 2,890,454, 6-16-59, Cl. 1-47.
- Skumawitz, Max, to Bossong-Werk G.m.b.H. Gun for fastener projectile. 2,918,674, 12-29-59, Cl. 1-106.
- Skunda, Michael, to General Motors Corp. Spark plugs and method for improving leakage characteristics thereof. 2,871,389, 1-27-59, Cl. 313-144.
- Skupas, John A., to Faultless Caster Corp. Caster locking assembly. 2,915,775, 12-8-59, Cl. 16-35.
- Skuza, Matthew: *See*—  
Schildhauer, Walter E., and Skuza. 2,907,972.
- Skwarek, Frank J., to Polarad Electronics Corp. Electron tube clamp. 2,904,747, 9-15-59, Cl. 324-20.
- Skyline Products: *See*—  
De Berry, Charles H., and Guidi. 2,899,887.
- Skyline Products, Inc.: *See*—  
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- Skyten, Robert, to General Electric Co. Second detector circuit. 2,894,132, 7-7-59, Cl. 250-27.
- Slack, Frederick F., to United States of America, Air Force. Photocell probe target selector. 2,903,690, 9-8-59, Cl. 343-5.
- Slack, Robert E., to International Business Machines Corp. Wiring assembly with stacked conductor cards. 2,889,532, 6-2-59, Cl. 339-18.
- Slack, Robert E., to International Business Machines Corp. Electrical circuit assembly. 2,907,926, 10-6-59, Cl. 317-101.
- Slack, Ronald: *See*—  
Adams, Arthur, and Slack. 2,871,243.
- Sladek, Robert B., to Western Electric Co., Inc. Telephone systems. 2,908,763, 10-13-59, Cl. 179-18.
- Slagh, Harold R.: *See*—  
Blair, Eteyl H., Slagh, and Britton. 2,870,189.  
Kauer, Kenneth C., and Slagh. 2,885,429.
- Slagh, Harold R., to The Dow Chemical Co. S-(chlorophenyl) O,O-dialkyl phosphoro-dithioates. 2,897,227, 7-28-59, Cl. 260-461.
- Slagh, Harold R., to The Dow Chemical Co. O-(chlorophenyl) O-methyl S-aryl phosphorodithioates. 2,906,769, 9-29-59, Cl. 260-461.
- Slagle, Edward: *See*—  
Reynolds, John A., and Slagle. 2,880,227.
- Slamecka, Ernst: *See*—  
Petermichl, Franz, and Slamecka. 2,888,639.
- Slamecka, Ernst, and A. Hochrainer, to Licentia Patent-Verwaltungs G.m.b.H. Testing apparatus. 2,898,548, 8-4-59, Cl. 324-28.
- Slant-Fin Radiator Corp.: *See*—  
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- Slate, Claude C. Fence construction. 2,877,600, 3-17-59, Cl. 47-33.
- Slate, Edward R.: *See*—  
Crane, Walter B., and Slate. 2,912,908.
- Slate, Matthew W., to Allen B. Du Mont Laboratories, Inc. Selectable long lines on rotatable disc tuned by shading elements on another disc. 2,870,333, 1-20-59, Cl. 250-40.
- Slater, James A. Electrically driven invalid chair. 2,892,506, 6-30-59, Cl. 180-26.
- Slater, Joseph N., to Colgate-Palmolive Co. Cosmetic and deodorant sticks. 2,900,306, 8-18-59, Cl. 167-90.
- Slater, Morris N.: *See*—  
Stankey, James A., and Slater. 2,910,376.
- Slater, N., Co. Ltd.: *See*—  
Burgess, Thomas J., and Ridgers. 2,879,963.  
Ridgers, Frederick G. 2,893,193.
- Slater, Norman: *See*—  
Canning, William P., and Slater. 2,876,617.
- Slater, Walter L. Shelf structure. 2,872,049, 2-3-59, Cl. 211-148.
- Slatin, Harvey L., to United States of America, Atomic Energy Commission. Method for electro-nickel plating wolfram carbide. 2,885,329, 5-5-59, Cl. 204-32.
- Slatin, Harvey L., to Timax Associates. Special electrolytic processing. 2,899,369, 8-11-59, Cl. 204-64.
- Slatin, Harvey L., to Timax Associates. Electrolytic production of aluminum. 2,919,234, 12-29-59, Cl. 204-67.
- Slatten, Lester L., Jr., to Brubaker Electronics, Inc. Means for developing elongated pulses. 2,912,601, 11-10-59, Cl. 307-106.
- Slattery, John P., and E. E. Heimo, to General Electric Co. Motor mount. 2,896,886, 7-28-59, Cl. 248-15.
- Slaubaugh, Dan E. Sales book holder. 2,902,295, 9-1-59, Cl. 281-15.
- Slaughter, Charles E., to Extruded Plastics, Inc. Collapsible tube manufacture. 2,878,513, 3-24-59, Cl. 18-19.
- Slaughter, Elmer C., to The Piqua Machine & Mfg. Co. Electric switch. 2,870,286, 1-20-59, Cl. 200-87.
- Slaughter, John I., and D. A. McCaulay, to Standard Oil Co. Production of trialkylbenzenes by alkylation. 2,906,788, 9-29-59, Cl. 260-671.
- Slaughter, John I., and D. A. McCaulay, to Standard Oil Co. Production of trialkylbenzenes in the presence of a difluorophosphoric acid-BF<sub>3</sub> catalyst. 2,908,728, 10-13-59, Cl. 260-671.
- Slavin, David: *See*—  
Small, Samuel N. 2,882,373.
- Slavin, Edwin. Lock for an instant release switch. 2,891,135, 6-16-59, Cl. 200-172.
- Slavin, Harriet G. Apron with open neck portion. 2,914,771, 12-1-59, Cl. 2-48.
- Slayter, Games, and W. W. Drummond, to Owens-Corning Fiberglas Corp. Method of crimping fibrous glass strand. 2,914,835, 12-1-59, Cl. 28-72.
- Slayter, Games, and W. R. Steltz, to Owens-Corning Fiberglas Corp. Co-acting wheels for feeding multifilament strands. 2,915,170, 12-1-59, Cl. 203-220.
- Slayton, Ransom D., and R. R. Smessaert, to Teletype Corp. Telegraph system. 2,870,254, 1-20-59, Cl. 178-69.
- Slebochnik, Thomas W., and F. J. Rau, to Westinghouse Electric Corp. Switching devices. 2,913,688, 11-17-59, Cl. 336-110.
- Sleichert, Frank T.: *See*—  
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- Sleigh, David H. Gauges for threaded bodies. 2,911,725, 11-10-59, Cl. 33-143.
- Slemmons, Arthur J., to Chrysler Corp. Turbine wheel construction. 2,888,239, 5-26-59, Cl. 253-39.
- Slemmons, Arthur J. Turbine wheel and shaft assembly. 2,901,214, 8-25-59, Cl. 253-39.
- Slemmons, Charles O.: *See*—  
Bordenkircher, Bruce O., and Slemmons. 2,903,272.
- Sletten, Philip O., to Tri County Dairy Cooperative. Water clarifying unit. 2,910,182, 10-27-59, Cl. 210-264.
- Slezak, Frank B.: *See*—  
Dermer, Otis C., and Slezak. 2,867,667.
- Slezak, Raymond J., 1/2 to Schott Metal Products Co. and 1/2 to R J S Products Co., Inc. Portable welding gun. 2,898,445, 8-4-59, Cl. 219-127.
- Slibar, Alfred: *See*—  
Heinrich, Gerhard, and Slibar. 2,879,111.
- Slide-Lock Ltd.: *See*—  
Cox, Robert. 2,883,219.
- Slimak, Julius S.: *See*—  
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- Slinger, Frank H., D. G. Wilkinson, and H. T. Howard, to Imperial Chemical Industries Ltd. Phthaloperine and phthaloperinone derivatives. 2,884,422, 4-28-59, Cl. 260-251.
- Sliter, Donald D., to International Business Machines Corp. Optical reading device. 2,872,589, 2-3-59, Cl. 250-217.
- Slivka, Marion J.: *See*—  
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- Slivka, Marion J., to General Electric Co. Electron emitter. 2,879,432, 3-24-59, Cl. 313-346.
- Sloan, Arthur W.: *See*—  
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- Sloan, David H., and W. H. Goss, to United States of America, Navy. Ram jet projectile. 2,892,410, 6-30-59, Cl. 102—49.
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- Sloan, Harry E., to The Cushman Chuck Co. Bolt-type locking mechanisms for indexing devices. 2,873,822, 2-17-59, Cl. 188—68.
- Sloan, Lon. Sectionalized bearing and seal for car journal boxes. 2,913,287, 11-17-59, Cl. 308—90.
- Sloan Valve Co.: *See*—  
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Filliung, Jacques J. 2,890,835.
- Sloan, Walter E. Rosary. 2,876,559, 3-10-59, Cl. 35—23.
- Sloane, Theodore S. Hypodermic syringe and collapsible cartridge assembly. 2,890,698, 6-16-59, Cl. 128—216.
- Sloat, John E., to Cornish Wire Co. Inc. Cord set with a quick-replaceable auxiliary terminal block. 2,912,667, 11-10-59, Cl. 339—166.
- Sloat, Truman K., and J. G. Ford, to Westinghouse Electric Corp. Additive for dielectric fluid of transformer assembly. 2,892,166, 6-23-59, Cl. 336—94.
- Sloate, Morton, to Teenform Foundations, Inc. Brassiere. 2,881,765, 4-14-59, Cl. 128—489.
- Slobod, Robert L., H. F. Dunlap, and T. F. Moore, to The Atlantic Refining Co. Exploration for petroliferous deposits by locating oil or gas seeps. 2,918,579, 12-22-59, Cl. 250—43.5.
- Slobodzinski, Edwin: *See*—  
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- Slocum, Charles W., to Stubnitz-Greene Spring Corp. Hermetic motor starting and overload protection system. 2,874,344, 2-17-59, Cl. 318—221.
- Slomer, Joseph J.: *See*—  
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- Slomer, Joseph J., to Goodman Mfg. Co. Friction disc clutch. 2,872,794, 2-10-59, Cl. 64—30.
- Slomer, Joseph J., to Goodman Mfg. Co. Valve arrangement for regulating multiple motors independently in a pump and motor system. 2,876,623, 3-10-59, Cl. 60—53.
- Slomer, Joseph J., to Goodman Mfg. Co. Control circuit for fluid pressure systems for crawler tread vehicles or the like. 2,904,959, 9-22-59, Cl. 60—53.
- Slonczewski, Thaddeus, to Bell Telephone Laboratories, Inc. Oscillator automatic tuning circuit. 2,899,643, 8-11-59, Cl. 331—17.
- Slone, Howard I., to General Motors Corp. Remote control mirror assembly. 2,902,902, 9-8-59, Cl. 88—93.
- Slooff, Florus C. W.: *See*—  
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- Sloppy, Milton R. Antenna structure with coupling network. 2,883,664, 4-21-59, Cl. 343—820.
- Slota, Peter J., Jr.: *See*—  
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- Slotoroff, Abraham, to Sinclair Mills, Inc. Inner brassiere with means for individually adjusting the size and shape of the breast cups. 2,877,771, 3-17-59, Cl. 128—435.
- Slotterbeck, Ober C., and M. A. Tucker, to Esso Research and Engineering Co. Curing air blown oils with SO<sub>2</sub>. 2,872,345, 2-3-59, Cl. 117—62.
- Slough, Hilbert L.: *See*—  
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- Slough, John P.: *See*—  
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- Slover, Archy F., and G. L. Harbour, to Pennsalt Chemicals Corp. Method and apparatus for removing tank sealants. 2,894,861, 7-14-59, Cl. 134—22.
- Slowinski, Robert H.: *See*—  
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- Slowinski, Robert H., to National Gypsum Co. Metal-base wall construction. 2,887,870, 5-26-59, Cl. 72—46.
- Sloyan, Jerome J. Supports. 2,874,006, 2-17-59, Cl. 308—4.
- Sloyer, Harold W.: *See*—  
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- Slud, Maurice H.: *See*—  
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- Sluder, Robert W. Tire hold down device. 2,913,159, 11-17-59, Cl. 224—42.23.
- Slumberland Ltd.: *See*—  
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- Slunder, Charles J., to United States of America, Atomic Energy Commission. Treatment of uranium surfaces. 2,872,389, 2-3-59, Cl. 204—1.5.
- Slusher, Kenneth M.: *See*—  
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- Slusser, Richard A., to Teletype Corp. Transistor ring type distributor. 2,876,365, 3-3-59, Cl. 307—88.5.
- Sly, Francis A. Mobile. 2,890,536, 6-16-59, Cl. 40—37.
- Sly, Leslie W.: *See*—  
Doe, Walter P., and Sly. 2,908,998.
- Sly, W. W., Mfg. Co., The: *See*—  
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- Slyngstad, Charles E.: *See*—  
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- Slyngstad, Charles E., and J. L. Patton, to The M. W. Kellogg Co. Reforming process with a platinum containing catalyst with temperature regulation of the catalyst bed. 2,915,458, 12-1-59, Cl. 208—138.
- Small, Augustus B.: *See*—  
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- Small, Augustus B., to Esso Research and Engineering Co. Hydrogenated petroleum resins. 2,911,395, 11-3-59, Cl. 260—82.
- Small Business Administration: *See*—  
Becker, Nathan. 2,878,536.  
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Cole, Burrell C., and Waite. 2,914,811.
- Small, Charles B.: *See*—  
Josephson, Robert H., and Small. 2,891,826.
- Small, Charles B., to Clevite Corp. Self-aligning bearing. 2,886,379, 5-12-59, Cl. 308—72.
- Small, Charles L., to Hendrickson Mfg. Co. Equalizing beam end assembly for a tandem wheel and axle unit. 2,914,349, 11-24-59, Cl. 287—85.
- Small, Edward F. Fishing reel. 2,879,954, 3-31-59, Cl. 242—84.21.
- Small, Frank R. Piston pump. 2,872,874, 2-10-59, Cl. 103—148.
- Small, George F.: *See*—  
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- Small, Hervey W. Child's gun game. 2,898,703, 8-11-59, Cl. 46—116.
- Small interests to numerous assignees: *See*—  
Schmidt, Lewis W. 2,884,975.
- Small, Leslie C., Jr., to United Aircraft Corp. Failsafe bearing lubrication. 2,911,267, 11-3-59, Cl. 308—187.
- Small percentages to various assignees: *See*—  
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- Small, Samuel N., 1/4 to A. A. Boccio, 1/4 to M. Spinner, and 1/4 to D. Slavin. Switch operating device. 2,882,373, 4-14-59, Cl. 200—153.
- Small, Samuel N., to A. G. Cohen and P. Weiss. Tilttable umbrellas. 2,906,278, 9-29-59, Cl. 135—42.
- Small, Sollie W., and D. Herman, to Coffee-Mat Corp. Valve mechanism. 2,901,002, 8-25-59, Cl. 137—635.
- Small, William W., to United States of America, Navy. Unshorter. 2,900,910, 8-25-59, Cl. 102—70.2.
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- Smalley, Burton M., to Joslyn Mfg. & Supply Co. Guy strain insulator. 2,889,397, 6-2-59, Cl. 174—178.
- Smalley, Burton M., to Joslyn Mfg. and Supply Co. Wood cross arm brace. 2,906,379, 9-29-59, Cl. 189—33.
- Smalley, Janet H., and S. F. Stafiej, to American Cyanamid Co. Process of producing substituted borazoles. 2,917,543, 12-15-59, Cl. 260—551.
- Smalley, Richard R. Automatic shut-off valve mechanism for tanks and the like. 2,888,038, 5-26-59, Cl. 137—534.
- Smalling, Jack W.: *See*—  
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- Smallpeice, Cosby D. P. Boom end fitting for sailboats. 2,879,736, 3-31-59, Cl. 114—98.
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- Smals, Jacobus L.: *See*—  
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- Smart, Addie H. Mechanical picker stick check and parallel motion for looms. 2,876,803, 3-10-59, Cl. 139—150.
- Smart, Edward W.: *See*—  
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- Smart, Ernest F.: *See*—  
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- Smart, Gordon E.: *See*—  
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- Smathers, James F. Proportional spacing mechanism for typewriters. 2,904,159, 9-15-59, Cl. 197—84.
- Smatlak, Stephen J.: *See*—  
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- Smeal, Harry W.: *See*—  
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- Smecko, Florian. Gun sights. 2,901,827, 9-1-59, Cl. 33—56.
- Smedberg, Nels H.: *See*—  
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- Smedley, Anderson B. Emergency power unit. 2,909,587, 10-20-59, Cl. 136—112.
- Smedley, Frederick E. S.: *See*—  
Meredew, George C., Moore, and Smedley. 2,879,716.
- Smedresnan, Max, to Nysco Laboratories, Inc. Tablet molding process. 2,878,160, 3-17-59, Cl. 167—82.
- Smee, Peter G., to General Electric Co. Wave amplifying and generating circuit. 2,868,972, 1-13-59, Cl. 250—27.



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- Smejda, Richard K. Multicolor inking and application device. 2,887,044, 5-19-59, Cl. 101-115.
- Smejda, Richard K. Multi-color attachment to the print roller in roller printing. 2,891,474, 6-23-59, Cl. 101-365.
- Smeltzer, Louis P. Ambulant discharge land irrigating sprinkler. 2,892,593, 6-30-59, Cl. 239-177.
- Smessaert, Raymond R.: See—
- Slayton, Ransom D., and Smessaert. 2,870,254.
- Smeulders, Wouter: See—
- Janssen, Peter J. H., and Smeulders. 2,874,329.
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- Smidl, John M.: See—
- Nelson, Corless B., and Smidl. 2,882,701.
- Smidl, John M., C. B. Nelson, and S. W. Neilson, to General Motors Corp. Refrigerating apparatus. 2,869,336, 1-20-59, Cl. 62-405.
- Smidth, F. L., and Co.: See—
- Frankert, Otto P. 2,885,155.
- Petersen, Louis. 2,905,395.
- Petersen, Louis. 2,911,061.
- Petersen, Louis. 2,913,237.
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- Sylvest, Karl J. 2,895,231.
- Smidth, F. L., and Co., A/S: See—
- Magnani, Alessandro. 2,914,347.
- Smilack, Jacob, to General Motors Corp. Room conditioner. 2,904,972, 9-22-59, Cl. 62-280.
- Smiley, Eldridge H.: See—
- Storm, Frederick K., Jr., and Smiley. 2,885,806.
- Smiley, Harry J., to James Lees and Sons Co. Method and device for inserting loom pile wires. 2,874,724, 2-24-59, Cl. 139-41.
- Smiley, Jan C. Babysitter protective tents. 2,898,923, 8-11-59, Cl. 135-1.
- Smiley, Robert A., to E. I. du Pont de Nemours and Co. Piperazine derivatives. 2,887,488, 5-19-59, Cl. 260-268.
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- Smirl, Richard L., to Borg-Warner Corp. Automatic clutch control. 2,893,526, 7-7-59, Cl. 192-52.
- Smirl, Richard L., to Borg-Warner Corp. Transmission for automotive vehicles. 2,908,181, 10-13-59, Cl. 74-472.
- Smirl, Richard L., to Borg-Warner Corp. Vibration dampening device for drive mechanisms. 2,913,925, 11-24-59, Cl. 74-574.
- Smirl, Richard L., and M. J. Wacławek, to Borg-Warner Corp. Transmission. 2,890,600, 6-16-59, Cl. 74-677.
- Smirl, Richard L., and M. J. Wacławek, to Borg-Warner Corp. Transmission. 2,890,602, 6-16-59, Cl. 74-688.
- Smit, Anne: See—
- Huisman, Henderikus O., and Smit. 2,904,594.
- Smit, Jan, and A. Rademakers, to North American Philips Co., Inc. Permanent magnet holding device and mechanical detaching combination. 2,869,047, 1-13-59, Cl. 317-159.
- Smit, Willem, & Co.'s Transformatorenfabriek N.V.: See—
- Lisser, Jacques. 2,891,196.
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- Af Kleen, Nils E., and Poehlman. 2,909,041.
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- Koth, William P., and Jaskowiak. 2,915,991.
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- Maynard, John T. 2,890,916.
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- Piekarski, Julian A., and Russell. 2,903,567.
- Reed, Daniel J. 2,911,918.
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- Smith, A. O., Corp.: See—Continued
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- Smith, A. P., Mfg. Co., The: See—
- Gaffin, Harry. 2,899,984.
- Smith, Aaron E. Remote control operating device for tape recorder. 2,916,574, 12-8-59, Cl. 200-61.13.
- Smith, Aaron H., to Signal Mfg. Co. Brushing and scrubbing machine. 2,874,396, 2-24-59, Cl. 15-49.
- Smith, Albert R. Process of making a rock-faced building product. 2,890,492, 6-16-59, Cl. 18-60.
- Smith, Alexander, and B. D. Baggs, Jr. Gardening machine. 2,882,977, 4-21-59, Cl. 172-15.
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- Smith, Alexander, and B. D. Baggs. Lawn edger. 2,890,562, 6-16-59, Cl. 56-25.4.
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- Smith, Alexander, and B. D. Baggs, Jr. Lawn edger. 2,913,058, 11-17-59, Cl. 172-15.
- Smith, Alexander, Inc.: See—
- Miller, Philip. 2,917,421.
- Smith, Alfred P., Jr., and E. H. Thoms. Lens turret and auxiliary lens for cameras. 2,898,831, 8-11-59, Cl. 95-11.
- Smith, Alfred R., to United States Steel Corp. Method for making cement clinker. 2,882,033, 4-14-59, Cl. 263-53.
- Smith, Algernon L.: See—
- Deems, Frank E., and Smith. 2,883,709.
- Smith, Allan D. Tube tester. 2,881,385, 4-7-59, Cl. 324-22.
- Smith, Allen E., and A. W. Feldman, to United States Rubber Co. N-1-naphthylchlorophthalamic herbicides. 2,893,853, 7-7-59, Cl. 71-2.6.
- Smith, Alvin H.: See—
- Stromberg, Verner L., and Smith. 2,917,376.
- Smith, Alvin H., to Petrolite Corp. Synergistic stabilizing compositions. 2,917,377, 12-15-59, Cl. 44-72.
- Smith, Arnold R., and W. T. McPhee; said Smith assor. to said McPhee. Sewage treatment apparatus. 2,901,114, 8-25-59, Cl. 210-200.
- Smith, Arthur D., to Kaiser Aluminum & Chemical Corp. Article handling device. 2,882,048, 4-14-59, Cl. 271-68.
- Smith, Arthur F., to Ethane Corp. Laminated wall structure. 2,918,394, 12-22-59, Cl. 117-138.8.
- Smith, Arthur J.: See—
- Smith, Paul and A. J. 2,914,871.
- Smith, Arthur J., to Calwire. Dimpling and depth controlling attachment for fastening member driving tools. 2,918,675, 12-29-59, Cl. 1-44.4.
- Smith, Arthur L.: See—
- Crosby, Gilmore E., Smith, and Whitmer. 2,919,363.
- Smith, Arthur L. Capsule type heat exchanger. 2,893,706, 7-7-59, Cl. 257-263.
- Smith, Augustus B., M. J. Roberts, D. W. Wagner, and J. B. Stine, to National Dairy Products Corp. Manufacture of cheese. 2,871,126, 1-27-59, Cl. 99-116.
- Smith, Austin W., and E. G. Moneymaker, to General Electric Co. Feeder mechanism. 2,892,567, 6-30-59, Cl. 221-10.
- Smith, Ben J., to General Motors Corp. Convertible top header lock assembly. 2,886,364, 5-12-59, Cl. 292-113.
- Smith, Benjamin F.: See—
- Ballard, Wiley P., Dickens, McKinley, and Smith. 2,888,393.
- Smith, Bernard O.: See—
- Savage, John, and Smith. 2,889,596.
- Smith, Bert, Jr.: See—
- Baltus, George T., Wolpin, Smith, and Lachcik. 2,897,792.
- Smith, Bert T.: See—
- Roth, David R., and Smith. 2,877,470.
- Smith, Billy G. Fish lure. 2,883,786, 4-28-59, Cl. 43-42.22.
- Smith, Blanchard D. Shade rollers. 2,894,577, 7-14-59, Cl. 160-299.
- Smith, Blanchard D., Jr., to United States of America, Air Force. Multiplier-integrator circuit. 2,872,109, 2-3-59, Cl. 235-61.
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- Smith, Brook I.: See—
- Boston, Edward D., and Smith. 2,905,733.
- Smith, Brook I., E. D. Boston, and J. W. Herrmann, to Esso Research and Engineering Co. Conversion of hydrocarbons. 2,871,183, 1-27-59, Cl. 208-54.
- Smith, Brook I., and E. D. Boston, to Esso Research and Engineering Co. Products separating system. 2,874,113, 2-17-59, Cl. 208-54.
- Smith, Brook I., H. W. Scheeline, and E. D. Boston, to Esso Research and Engineering Co. High temperature conversion of heavy oils. 2,905,629, 9-22-59, Cl. 208-127.



- Smith, Buford D.: *See*—  
Bozich, Samuel, Lewis, and Smith. 2,913,503.
- Smith, Burns A.: *See*—  
Greathouse, Lucien H., Smith, Robinson, and Haydel. 2,882,022.
- Smith, Burt A., Sr. Lead-in wire connectors. 2,888,726, 6-2-59, Cl. 24-123.
- Smith, Caldwell P., to United States of America, Air Force. Device for extracting the excitation function from speech signals. Re. 24,670, 7-21-59, Cl. 179-1.
- Smith, Caldwell P., to United States of America, Air Force. Device for voltage measurement. 2,870,406, 1-20-59, Cl. 324-99.
- Smith, Caldwell P., to United States of America, Air Force. Analysis of voltage distribution. 2,901,697, 8-25-59, Cl. 324-77.
- Smith, Caldwell P., to United States of America, Air Force. Device for selective compression and automatic segmentation of a speech signal. 2,903,515, 9-8-59, Cl. 179-1.
- Smith, Carl F., and W. R. White, to Eastman Kodak Co. Polystyrene photographic element having a resinous terpolymer chromic chloride undercoat. 2,875,056, 2-24-59, Cl. 96-87.
- Smith, Carl H., Jr.: *See*—  
Hoepfner, Conrad H., and Smith. 2,867,720.
- Smith, Carl M.: *See*—  
Schmidt-Nickels, Wilhelm, and Smith. 2,903,462.
- Smith, Carl M., to General Aniline & Film Corp. Polypyrrolone pigments. 2,903,451, 9-8-59, Cl. 260-240.
- Smith, Carl M., to General Aniline & Film Corp. Polypyrrolone pigments. 2,903,452, 9-8-59, Cl. 260-240.
- Smith, Carl M., to General Aniline & Film Corp. Bispyrrolones. 2,903,461, 9-8-59, Cl. 260-310.
- Smith, Carlisle F., to J. I. Case Co. Wear-compensating link. 2,891,418, 6-23-59, Cl. 74-579.
- Smith, Carlisle F., and R. B. Skromme, to J. I. Case Co. Baler tying mechanism. 2,872,860, 2-10-59, Cl. 100-22.
- Smith, Carroll Dunham, Pharmacol. Co.: *See*—  
Chalinski, Frank. 2,915,217.
- Smith, Charles. Interlocking building blocks. 2,911,818, 11-10-59, Cl. 72-41.
- Smith, Charles A.: *See*—  
Lolmaugh, Orson B., Thornton, and Smith. 2,869,120.
- Smith, Charles A., to Sperry Rand Corp. Power-take-off construction. 2,885,231, 5-5-59, Cl. 287-53.
- Smith, Charles B.: *See*—  
Hamilton, Francis E., Hughes, Smith, and Furr. 2,919,429.
- Smith, Charles C. Fish line connector. 2,871,540, 2-3-59, Cl. 24-237.
- Smith, Charles C. Machine for packaging fluent material. 2,899,789, 8-18-59, Cl. 53-281.
- Smith, Charles E.: *See*—  
Pell, Eric, and Smith. 2,885,628.
- Smith, Charles E. Attach-on tray—self supporting serving tray. 2,906,411, 9-29-59, Cl. 211-71.
- Smith, Charles H.: *See*—  
Lazar, James, Zeitler, and Smith. 2,918,313.
- Smith, Charles H., to Flight Refueling Inc. Apparatus for interconnecting aircraft in flight. 2,879,017, 3-24-59, Cl. 244-135.
- Smith, Charles I., M. M. Zimet, and H. L. Robinson, to Sperry Rand Corp., Ford Instrument Co. Div. Wideband microwave discriminator. 2,886,705, 5-12-59, Cl. 250-31.
- Smith, Charles J., Jr., to Olin Mathieson Chemical Corp. Process for the preparation of alkyl phosphonates. 2,880,224, 3-31-59, Cl. 260-461.
- Smith, Charles L., and B. G. Brand, to N. Burrows. Non-crumbing eraser composed of rubber, polyisobutylene and an abrasive material. 2,919,180, 12-29-59, Cl. 51-298.
- Smith, Charles N. Floor furnace grill insulator. 2,879,706, 3-31-59, Cl. 98-101.
- Smith, Charles N., and F. J. Bremer. Combination lock construction. 2,881,612, 4-14-59, Cl. 70-302.
- Smith, Charles P. and J. M., to Sylvania Electric Products Inc. Heater tray device. 2,914,900, 12-1-59, Cl. 53-160.
- Smith, Charles R. Barbecue fuel and preparation thereof. 2,916,365, 12-8-59, Cl. 44-41.
- Smith, Charles S.: *See*—  
Heller, Lewis W., and Smith. 2,896,592.
- Smith, Charles S., to P. R. Mallory & Co., Inc. Dryer switch. 2,892,047, 6-23-59, Cl. 200-38.
- Smith, Charles S., and C. H. Woolley, deceased (by M. S. Chamberlin, executrix), to The Babcock & Wilcox Co. Multiple furnace vapor generator with unitary reheater and superheater control by gas recirculation. 2,872,907, 2-10-59, Cl. 122-240.
- Smith, Charles S., and H. T. Simmons, to P. R. Mallory & Co., Inc. Escapement for timer switch. 2,916,923, 12-15-59, Cl. 74-125.
- Smith, Charles W. Automatic control mechanism for toy electric railways. 2,905,811, 9-22-59, Cl. 246-75.
- Smith, Charlie W. Toy walking horse. 2,911,225, 11-3-59, Cl. 280-1.181.
- Smith, Chester W. Metal cleaning and phosphating composition. 2,886,477, 5-12-59, Cl. 148-6.15.
- Smith, Clarence C., to Union Special Machine Co. Fabric trimming and thread laying mechanism for sewing machines. 2,914,009, 11-24-59, Cl. 112-123.
- Smith, Clarence E., H. Nerwin, and M. B. Moore, to Graflex, Inc. Range finder for photographic cameras. 2,902,913, 9-8-59, Cl. 95-44.
- Smith, Clarence G., and W. B. Allen, to Hughes Aircraft Co. Subminiature potentiometer. 2,887,554, 5-19-59, Cl. 201-55.
- Smith, Clarence J., to W. F. and John Barnes Co. Apparatus for making wire articles. 2,868,236, 1-13-59, Cl. 140-71.
- Smith, Clarence J., to W. F. and John Barnes Co. Can storage apparatus. 2,868,395, 1-13-59, Cl. 214-16.
- Smith, Clarence J., to W. F. and John Barnes Co. Orientating apparatus. 2,873,841, 2-17-59, Cl. 198-31.
- Smith, Clarence J., to W. F. and John Barnes Co. Wire forming apparatus. 2,874,731, 2-24-59, Cl. 140-71.
- Smith, Clarence M.: *See*—  
Taylor, Owen L., and Smith. 2,870,290.
- Smith, Clarence M., to Westinghouse Electric Corp. Electric wiring device. 2,872,551, 2-3-59, Cl. 200-172.
- Smith, Clarence M., to The Bryant Electric Co. Wiring device. 2,890,265, 6-9-59, Cl. 174-53.
- Smith, Clarence M., to The Bryant Electric Co. Wiring device. 2,899,524, 8-11-59, Cl. 200-168.
- Smith, Clarence M., and A. E. Bromley, to The Bryant Electric Co. Wiring device. 2,915,736, 12-1-59, Cl. 339-170.
- Smith, Clark C. Apparatus for making dentures. 2,887,717, 5-26-59, Cl. 18-5.7.
- Smith, Clark C. Method of constructing dentures. 2,899,712, 8-18-59, Cl. 18-55.1.
- Smith, Cleveland S., to Syntrol Co. Revolving cylindrical frame for selenium depositors. 2,906,236, 9-29-59, Cl. 118-49.1.
- Smith, Clifford B., to Vinco Corp. Vacuum operated switch. 2,899,516, 8-11-59, Cl. 200-81.
- Smith, Clifford E.: *See*—  
Ray, Gardner C., and Smith. 2,905,730.
- Smith, Clifford E., to A. C. Staley Mfg. Co. Method of refining starch hydrolyzate liquors. 2,871,147, 1-27-59, Cl. 127-40.
- Smith, Clifford E., to A. E. Staley Mfg. Co. Compressed starch grits. 2,907,685, 10-6-59, Cl. 127-71.
- Smith, Clifford E., and J. E. Tipton, to A. E. Staley Mfg. Co. Process for refining starch hydrolyzate liquors. 2,890,138, 6-9-59, Cl. 127-48.
- Smith, Clifford W., to Johnson & Johnson. Adhesive bandage. 2,905,174, 9-22-59, Cl. 128-156.
- Smith, Clifton E.: *See*—  
Bacon, Leslie R., Smith, and Vaughn. 2,886,533.
- Smith, Cornelius W., R. L. Seger, Jr., and L. W. Rorem, to United States Rubber Co. Tire and wheel assembly. 2,896,687, 7-28-59, Cl. 152-310.
- Smith-Corona Marchant Inc.: *See*—  
Barkdoll, Joseph P. 2,896,766.  
Barkdoll, Joseph P. 2,896,767.  
Barkdoll, Joseph P. 2,901,079.  
Bevan, Bernard J. 2,913,093.  
Burns, Meryl C., Giel, and Stahl. 2,895,674.  
Dustin, Howard M. 2,896,846.  
Nee, David S. 2,912,162.  
Reynolds, Eugene E. 2,896,847.  
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- Smith, Curtis W.: *See*—  
Fischer, Rudolph F., and Smith. 2,888,492.  
Payne, George B., and Smith. 2,870,125.  
Payne, George B., and Smith. 2,870,170.
- Smith, Cyril S., to United States of America, Atomic Energy Commission. Method of rolling uranium. 2,897,697, 8-4-59, Cl. 80-60.
- Smith, Daniel J., and B. P. Valley. Arrow quiver or holder. 2,905,218, 9-22-59, Cl. 150-1.5.
- Smith, Darwin G., and S. J. Ketterer, to The Singer Mfg. Co. Apparatus for producing piped garment openings. 2,889,790, 6-9-59, Cl. 112-65.
- Smith, David F. Cellulosic hemostatic composition. 2,914,444, 11-24-59, Cl. 167-65.
- Smith, David P., to General Motors Corp. Hydraulic power steering gear. 2,871,969, 2-3-59, Cl. 180-79.2.
- Smith, David R., and R. L. Hall, to Phillips Petroleum Co. Adhesive composition. 2,898,315, 8-4-59, Cl. 260-27.
- Smith, David W., to The British Oxygen Co. Ltd. Fluid pressure responsive switch. 2,916,577, 12-8-59, Cl. 200-83.
- Smith, De Forest F.: *See*—  
Magnuson, Dale W., and Smith. 2,882,442.
- Smith, Delmas A.: *See*—  
Webber, William O., and Smith. 2,897,838.
- Smith, Dexter E., C. W. Mertz, and L. S. Crowell, to Phillips Petroleum Co. Analyzer and control method. 2,908,818, 10-13-59, Cl. 250-43.5.
- Smith-Dieterich Corp.: *See*—  
Smith, Philip S. 2,896,503.  
Smith, Philip S. 2,918,842.  
Smith, Philip S. 2,918,843.
- Smith, Donald A.: *See*—  
Dann, John R., Gates, Smith, and Unruh. 2,882,161.  
Unruh, Cornelius C., and Smith. 2,875,059.  
Unruh, Cornelius C., and Smith. 2,887,469.
- Smith, Donald A., and C. C. Unruh, to Eastman Kodak Co. N-(acryloxyalkyl) and N-(methacryloxyalkyl)-2-pyrrolidones and polymers thereof. 2,882,262, 4-14-59, Cl. 260-80.5.
- Smith, Donald A., and C. C. Unruh, to Eastman Kodak Co. Cyanoacetamidophthalic acid esters of polymers. 2,904,539, 9-15-59, Cl. 260-78.4.



- Smith, Donald D., to Dow Corning Corp. Halogenated siloxanes. 2,884,433, 4-28-59, Cl. 260-448.2.
- Smith, Donald D., to Dow Corning Corp. Haloorgano silcarbane siloxanes. 2,884,434, 4-28-59, Cl. 260-448.2.
- Smith, Donald D., to Dow Corning Corp. Polyesters of fluorinated glycols and phthalic acids. 2,902,473, 9-1-59, Cl. 260-75.
- Smith, Donald D., to Dow Corning Corp. Fluorinated polyurethane resins. 2,911,390, 11-3-59, Cl. 260-77.5.
- Smith, Donald G., to Hester Plov Co., Inc. Lift type offset harrow. 2,908,336, 10-13-59, Cl. 172-441.
- Smith, Donald P.: *See—*
- Barker, Seth S., and Smith. 2,914,794.
- Smith, Donald P., to Barker Poultry Equipment Co. Commodity packaging machine. 2,885,850, 5-12-59, Cl. 53-258.
- Smith, Donald P., J. N. Rollin, and A. L. James, to Milprint, Inc. Food preserving wrapping material and process of preparing the same. 2,906,646, 9-29-59, Cl. 117-144.
- Smith, Donald W.: *See—*
- Quigley, Henry C., and Smith. 2,879,314.
- Smith, Douglas. Bimetallic coupling for flanged pipe elements. Re. 24,589, 1-13-59, Cl. 285-187.
- Smith, E. Quimby, Jr.: *See—*
- Matthews, Lyle E., and Smith. 2,874,826.
- Smith, Edgar L.: *See—*
- Smith, Harold G. 2,868,416.
- Smith, Edward A., to Raymond International Inc. Power hammer construction. 2,885,862, 5-12-59, Cl. 61-76.
- Smith, Edward M., to Techno Corp. Check valve with operator therefor. 2,898,080, 8-4-59, Cl. 251-82.
- Smith, Edward W. Underwater earth boring mechanism. 2,906,502, 9-29-59, Cl. 255-2.5.
- Smith, Edwin B.: *See—*
- Tourshou, Simeon I., Smith, and Skorup. 2,867,751.
- Smith, Edwin B., to Radio Corp. of America. Frequency selective signal attenuating circuit. 2,901,535, 8-25-59, Cl. 178-5.8.
- Smith, Edwin J., and J. R., to National Steel Corp. Electrolytic treatment of plating. 2,906,677, 9-29-59, Cl. 204-56.
- Smith, Edwin R., to Seneca Falls Machine Co. Power actuator with pilot control. 2,878,685, 3-24-59, Cl. 74-388.
- Smith, Edwin R., and C. F. Cafolla, to Seneca Falls Machine Co. Differential timing device mechanism. 2,916,949, 12-15-59, Cl. 74-689.
- Smith, Edwin W., and W. L. Van Dam, to Atlas Press Co. Mechanical device. 2,886,250, 5-12-59, Cl. 239-120.
- Smith, Elbert C., and C. K. Stoddard, to Titanium Metals Corp. of America. Method for the manufacture of titanium metal. 2,889,220, 6-2-59, Cl. 75-84.5.
- Smith, Ellwood H., to Lovell Mfg. Co. Clothes dryer. 2,884,710, 5-5-59, Cl. 34-133.
- Smith, Elwin E.: *See—*
- Ruff, Edgar E., and Smith. 2,903,431.
- Smith, Emerson S. Electrical insulating glove. 2,886,824, 5-19-59, Cl. 2-168.
- Smith Engineering Works: *See—*
- Rumpel, Harvey H. 2,881,981.
- Smith, Eric, to Monsanto Chemicals Ltd. Phenolic resins and their use in moulding processes. 2,915,491, 12-1-59, Cl. 260-38.
- Smith, Eric, and J. S. Turnbull, to Metropolitan-Vickers Electrical Co. Ltd. Compositions suitable for making refractory articles. 2,888,354, 5-26-59, Cl. 106-38.22.
- Smith, Eric, and T. Scholes, to D.S.T. Pattern and Engineering Co. Ltd. Doctor knives. 2,914,788, 12-1-59, Cl. 15-256.5.
- Smith, Eric D. Switching apparatus. 2,885,512, 5-5-59, Cl. 200-98.
- Smith, Eric J.: *See—*
- Brooke, Thomas A., and Smith. 2,873,940.
- Smith, Ernest F., A. R. Barragato, E. F. Oakwood, and R. H. Sage, to United States of America, Army. Liquid level indicator sending unit. 2,906,122, 9-29-59, Cl. 73-313.
- Smith, Eugene E., and F. W. Van Kirk, to Hughes Aircraft Co. Reserve primary battery. 2,905,741, 9-22-59, Cl. 136-90.
- Smith, Eugene H. Fishing lure. 2,916,846, 12-15-59, Cl. 43-44.4.
- Smith, Floyd C.: *See—*
- Huetten, Clarence, and Smith. 2,883,482.
- Smith, Floyd E. Parts feeder. 2,901,095, 8-25-59, Cl. 198-220.
- Smith, Floyd M., to The Firestone Tire & Rubber Co. Conveyor belt. 2,875,116, 2-24-59, Cl. 154-52.1.
- Smith, Floyd S.: *See—*
- Hoover, Michael C., Smith, and Kaufman. 2,908,375.
- Smith, Francis J. Evaporator assembly for a vehicle. 2,902,840, 9-8-59, Cl. 62-407.
- Smith, Frank A. Detachable motor vehicle wheel. 2,885,244, 5-5-59, Cl. 301-9.
- Smith, Frank B., to United States Rubber Co. Synthetic rubbery polyester-polyisocyanate polymers. 2,907,752, 10-6-59, Cl. 260-75.
- Smith, Frank E.: *See—*
- Bergh, Sverre E., and Smith. 2,887,448.
- Gregory, Joseph M., and Smith. 2,917,167.
- Tafel, Robert W., and Smith. 2,914,268.
- Smith, Frank E., to E. I. du Pont de Nemours and Co. Fused salt electrolytic cell. 2,893,940, 7-7-59, Cl. 204-243.
- Smith, Frank J. Parking meters. 2,887,205, 5-19-59, Cl. 194-19.
- Smith, Frank P., to International Telephone and Telegraph Corp. Color television signal-separating system. 2,896,015, 7-21-59, Cl. 178-5.4.
- Smith, Frank R.: *See—*
- Willett, Leon E., and Smith. 2,886,960.
- Smith, Frank R., to Normalair Ltd. Enclosure pressure control mechanism. 2,902,916, 9-8-59, Cl. 98-1.5.
- Smith, Frank V., and O. H. Wells, to Westinghouse Electric Corp. Electrical control apparatus. 2,913,591, 11-17-59, Cl. 307-51.
- Smith, Fred: *See—*
- Maddock, Alfred G., and Smith. 2,901,313.
- Smith, Fred, E. D. Besser, R. E. Montonna, deceased; and M. L. Montonna, administratrix, to Regents of the University of Minnesota. Process for conditioning plant fibers for spinning. 2,883,826, 4-28-59, Cl. 57-164.
- Smith, Fred S.: *See—*
- Paxton, Allen D., Smith, and Johnson. 2,883,914.
- Smith, Fred T., to Precision Research and Development Co. Post hole auger. 2,890,860, 6-16-59, Cl. 255-19.
- Smith, Frederic C. Hearing aid. 2,873,306, 2-10-59, Cl. 174-52.
- Smith, Frederick B., Jr.: *See—*
- Hinsdale, Edwin M., Jr., and Smith. 2,898,399.
- Smith, Frederick H.: *See—*
- Stedman, Cecil K., and Smith. 2,886,794.
- Smith, Frederick H. Tool holder. 2,869,880, 1-20-59, Cl. 279-6.
- Smith, Frederick H. Adjustable floating tool holders. 2,869,881, 1-20-59, Cl. 279-16.
- Smith, Frederick H. Collet pads. 2,883,200, 4-21-59, Cl. 279-58.
- Smith, Frederick H. Adjustable drill holder. 2,898,118, 8-4-59, Cl. 279-16.
- Smith, Frederick H., to United States of America, Navy. Torpedo construction. 2,906,227, 9-29-59, Cl. 114-20.
- Smith, Frederick L.: *See—*
- Bell, William C. E., and Smith. 2,885,200.
- Smith, Frederick R., to American Viscose Corp. Double acting diaphragm pump. 2,871,795, 2-3-59, Cl. 103-150.
- Smith, Gene W.: *See—*
- Hughes, Arthur C., Jr., and Smith. 2,918,817.
- Smith, George A., to Sun Oil Co. Electrical analogs employing more than two probes. 2,870,961, 1-27-59, Cl. 235-61.
- Smith, George A., to Central Transformer Corp. Method of making magnetic three-phase cores. 2,875,507, 3-3-59, Cl. 29-155.57.
- Smith, George A., to Central Transformer Corp. Three-phase core for transformers. 2,889,525, 6-2-59, Cl. 336-215.
- Smith, George A., to Central Transformer Corp. Magnetic cores for transformers. 2,907,967, 10-6-59, Cl. 336-217.
- Smith, George E. Hassock. 2,877,830, 3-17-59, Cl. 155-169.
- Smith, George F., to Hughes Aircraft Co. Cathode-ray tube for presenting stored and non-stored displays. 2,884,558, 4-28-59, Cl. 315-12.
- Smith, George F., to Hughes Aircraft Co. Electron discharge device. 2,887,610, 5-19-59, Cl. 315-8.5.
- Smith, George F., to Hughes Aircraft Co. Direct-viewing storage tube. 2,903,618, 9-8-59, Cl. 315-12.
- Smith, George F., and N. J. Koda, to Hughes Aircraft Co. Storage screen for direct-viewing storage tube. 2,887,597, 5-19-59, Cl. 313-68.
- Smith, George H.: *See—*
- Aitchison, Robert B., and Smith. Re. 24,603.
- Aitchison, Robert B., and Smith. 2,882,016.
- Holmen, Reynold E., and Smith. 2,890,241.
- Smith, George H., to Anthony Bros. Fibre Glass Pool Corp. Process and apparatus for molding large plastic structures. 2,913,036, 11-17-59, Cl. 154-1.6.
- Smith, George I. Emergency car door opening tool. 2,885,917, 5-12-59, Cl. 81-3.
- Smith, George W.: *See—*
- Howell, William, and Smith. 2,886,883.
- Smith, Gerould H., to Union Oil Co. of California. Well logging process. 2,889,208, 6-2-59, Cl. 23-230.
- Smith, Gilbert H.: *See—*
- Copping, Geoffrey P., Myers, and Smith. 2,895,610.
- Smith, Gordon R., 1/2 to E. R. Lowe. Automatic expanding mandrel. 2,870,686, 1-27-59, Cl. 90-11.58.
- Smith, Graydon, to Cranston Prints Works Co. Print machine doctor blade driving mechanism. 2,870,705, 1-27-59, Cl. 101-152.
- Smith, Graydon, to The Foxboro Co. Telemetering system. 2,902,680, 9-1-59, Cl. 340-206.
- Smith, H. C., Oil Tool Co.: *See—*
- Robinson, William P. 2,907,611.
- Swart, Kenneth H. 2,880,970.
- Smith, Harley A.: *See—*
- Winters, Donald F., and Smith. 2,875,734.
- Smith, Harold A. Beam compasses. 2,906,024, 9-29-59, Cl. 33-27.
- Smith, Harold G., 1/2 to E. L. Smith. Apparatus for dispensing and warming liquids. 2,868,416, 1-13-59, Cl. 222-146.
- Smith, Harold K., and C. G. Gibbons, to Baker Perkins, Inc. Electrical control system for rack type proofer. 2,899,040, 8-11-59, Cl. 198-85.
- Smith, Harris W.: *See—*
- Hunter, Robert H., and Smith. 2,883,979.



- Smith, Harrison C., to General Telephone Laboratories, Inc. Exclusion arrangement for loudspeaking telephone systems. 2,885,477, 5-5-59, Cl. 179-1.
- Smith, Harry A.: *See—*  
Dymeck, Lewis G., and Smith. 2,888,118.
- Smith, Harry A. Interchangeable, auxiliary vise jaws. 2,876,667, 3-10-59, Cl. 81-38.
- Smith, Harry B.: *See—*  
Green, Elbertson D., and Smith. 2,879,503.
- Smith, Harry B., to Westinghouse Electric Corp. Doppler radar acquisition system. 2,871,468, 1-27-59, Cl. 343-8.
- Smith, Harry B., to Westinghouse Electric Corp. Sweep generator. 2,905,817, 9-22-59, Cl. 250-27.
- Smith, Harry D. Adjustable golf club. 2,879,065, 3-24-59, Cl. 273-81.2.
- Smith, Harry R., and A. R. Taylor, to Radio Engineering Laboratories, Inc. Broad band tuned amplifier circuit. 2,917,712, 12-15-59, Cl. 330-56.
- Smith, Henry S.: *See—*  
Lincoln, Clovis W., Zeigler, and Smith. 2,897,684.
- Smith, Herbert L.: *See—*  
Karig, Horace E., and Smith. 2,871,082.
- Smith, Herman E.: *See—*  
Lo Presti, Roy F., and Smith. 2,892,533.
- Smith, Herman E., to Goodman Mfg. Co. Flexible troughing roller assembly for belt conveyor. 2,895,594, 7-21-59, Cl. 198-192.
- Smith, Herman E., to Goodman Mfg. Co. Extensible conveyors. 2,909,273, 10-20-59, Cl. 198-202.
- Smith, Herman R., to Raymond International, Inc. Pile driving apparatus. 2,880,590, 4-7-59, Cl. 61-79.
- Smith, Hinsdale, Jr. Flash gun. 2,898,448, 8-4-59, Cl. 240-1.3.
- Smith, Hiram P., to International Harvester Co. Gauge wheel for two-way plow. 2,869,653, 1-20-59, Cl. 172-212.
- Smith, Hiram P., to International Harvester Co. Lock for two-way plow. 2,871,960, 2-3-59, Cl. 172-226.
- Smith, Homer A.: *See—*  
Goodwin, Manfred E., Sawyer, and Smith. 2,894,848.
- Smith, Horace V., to Oil Metering and Processing Equipment Corp. Free float liquid metering apparatus. 2,882,724, 4-21-59, Cl. 73-200.
- Smith, Horace V., to Oil Metering and Processing Equipment Corp. Liquid measuring device. 2,882,726, 4-21-59, Cl. 73-219.
- Smith, Horace V., to Oil Metering and Processing Equipment Corp. Separator-metering assembly. 2,882,995, 4-21-59, Cl. 183-2.7.
- Smith, Howard A. Garments. 2,880,732, 4-7-59, Cl. 128-475.
- Smith, Howard B. Stenographic machines. 2,891,647, 6-23-59, Cl. 197-9.
- Smith, Howard B. Stenographic machines. 2,904,157, 9-15-59, Cl. 197-9.
- Smith, Howard B., Jr.: *See—*  
Meek, James M., Smith, and Winston. 2,913,984.
- Smith, Howard J., to Bell Telephone Laboratories, Inc. Switching device mechanism. 2,875,639, 3-3-59, Cl. 74-504.
- Smith, Howard, Paper Mills Ltd.: *See—*  
Stidwill, George B. M. 2,894,147.
- Tomlinson, George H., II. 2,878,934.
- Smith, Hubert R.: *See—*  
Purswell, Guy, Kinghorn, and Smith. 2,888,298.
- Smith, Hubert T., and C. E. Todd, to United States Rubber Co. Tire building apparatus. 2,878,857, 3-24-59, Cl. 154-9.
- Smith, Hugh R., Jr.: *See—*  
Fanks, Charles W. Hunt, and Smith. 2,880,483.
- Smith, Hugh R., Jr., to Temescal Metallurgical Corp. Corrosion- and abrasion-resistant coated metals. 2,907,679, 10-6-59, Cl. 117-71.
- Smith, Ian A., to American Screw Co. Extruding method and apparatus. 2,912,886, 11-17-59, Cl. 76-90.
- Smith, Ian B., to Norton Co. Vitified bonded grinding wheel with fine hard sides. 2,877,105, 3-10-59, Cl. 51-308.
- Smith, Ian W. F., to Imperial Chemical Industries Ltd. Rotary apparatus for conveying solid particles. 2,907,444, 10-6-59, Cl. 198-50.
- Smith, Irving H. Handle for attachment to metallic foil dishes. 2,879,098, 3-24-59, Cl. 294-27.
- Smith, Iva B.: *See—*  
Webb, James, and Smith. 2,908,993.
- Smith, Ivan R.: *See—*  
Speed, David B., and Smith. 2,879,195.
- Smith, J. H. Co., Inc.: *See—*  
Smith, Brenner E., and Harvey. 2,905,423.
- Smith, James, & Son, Inc.: *See—*  
Gustafson, Carl O. 2,905,029.
- Smith, James A.: *See—*  
Clark, Carleton L., Hickey, Kaiser, and Smith. 2,876,860.
- Smith, James D. Focal plane shutter. 2,896,525, 7-28-59, Cl. 95-58.
- Smith, James E. Variable stroke variable pressure pump or compressor. 2,917,003, 12-15-59, Cl. 103-161.
- Smith, James G.: *See—*  
Kibler, Charles J., Bell, and Smith. 2,901,466.
- Smith, James J., and R. D. Graf, to Essex Wire Corp. Thermostatic timing control. 2,901,642, 8-25-59, Cl. 307-112.
- Smith, James L., and R. C. Harrington, Jr., to Eastman Kodak Co. Sulfation reagent and process of manufacture. 2,891,962, 6-23-59, Cl. 260-307.
- Smith, James M.: *See—*  
Smith, Charles P., and J. M. 2,914,900.
- Smith, James V., to Phillips Petroleum Co. Method for coating filamentous articles. 2,904,846, 9-22-59, Cl. 18-59.
- Smith, Jesse C., to New York Wire Cloth Co. Customized enclosure for porches and the like. 2,888,070, 5-26-59, Cl. 160-88.
- Smith, Joe L. Shoe display rack. 2,902,167, 9-1-59, Cl. 211-34.
- Smith, Joel N.: *See—*  
Ayres, William R., and Smith. 2,911,622.
- Smith, Joel N., and W. R. Ayres, to Radio Corp. of America. Message spacing control system. 2,907,002, 9-29-59, Cl. 340-174.
- Smith, John A.: *See—*  
Fox, Robert L., and Smith. 2,898,792.
- Smith, John E., to James Lees and Sons Co. Improved looper for pile fabric tufting machines. 2,879,730, 3-31-59, Cl. 112-79.
- Smith, John E., to United States of America, Navy. Quick disconnect unit for pressurized system. 2,890,718, 6-16-59, Cl. 137-614.18.
- Smith, John E., R. S. Charlton, and R. A. Grocock. Prefabricated wall. 2,911,817, 11-10-59, Cl. 72-16.
- Smith, John F.: *See—*  
Dalton, Norris D., and Smith. 2,901,010.
- Peterson, Evald O., and Smith. 2,888,049.
- Smith, John F., and F. Dawson, to Compo Shoe Machinery Corp. Shoe presses. 2,866,987, 1-6-59, Cl. 12.
- Smith, John H.: *See—*  
Blackburn, Alan B., Kessler, Skinner, and Smith. 2,876,847.
- Smith, John H., to General Motors Corp. Engine starter. 2,899,829, 8-18-59, Cl. 74-6.
- Smith, John I., to Raytheon Mfg. Co. Electronic devices. 2,888,609, 5-26-59, Cl. 315-39.3.
- Smith, John J.: *See—*  
Mueller, Frank H., and Smith. 2,893,274.
- Mueller, Frank H., and Smith. 2,895,352.
- Smith, John J., to Mueller Co. Pipe fitting with retained gasket sealing means. 2,897,842, 8-4-59, Cl. 138-92.
- Smith, John J., to Chicopee Mfg. Corp. Cleaning tool with detachable cloth. 2,916,759, 12-15-59, Cl. 15-247.
- Smith, John J., and E. T. Middleswarth, to Pittsburgh Plate Glass Co. Glass composition. 2,892,726, 6-30-59, Cl. 106-52.
- Smith, John J., and J. E. Duncan, to Pittsburgh Plate Glass Co. Glass composition. 2,901,366, 8-25-59, Cl. 106-52.
- Smith, John K. Paddles for canoes and the like. 2,913,727, 11-17-59, Cl. 9-24.
- Smith, John L.: *See—*  
Weinberger, Arnold, and Smith. 2,879,001.
- Smith, John O., Jr.: *See—*  
Fischl, Fred B., Clarke, and Smith. 2,888,338.
- Weisgerber, George A., and Smith. 2,895,815.
- Smith, John O., Jr., and J. V. Clarke, Jr., to Esso Research and Engineering Co. Fluorinated diesters of phosphorodithioic acid and salts thereof. 2,884,431, 4-28-59, Cl. 260-429.9.
- Smith, John R.: *See—*  
Smith, Edwin J. and J. R. 2,906,677.
- Smith, John R., to Sanborn Co. Pad for skin preparation for electrocardiography and the like. 2,887,112, 5-19-59, Cl. 128-417.
- Smith, John R., to Pennsylvania Transformer Co. Magnetic core. 2,899,656, 8-11-59, Cl. 336-211.
- Smith, John R., and A. J. Cizauskas, to The Commonwealth of Pennsylvania. Forming or molding apparatus. 2,872,861, 2-10-59, Cl. 101-27.
- Smith, John T. Non skid tire set. 2,909,207, 10-20-59, Cl. 152-222.
- Smith, John W.: *See—*  
Fritze, Marvin E., and Smith. 2,884,745.
- Nordstrom, Gordon J., and Smith. 2,901,604.
- Smith, Joseph B. K.: *See—*  
Hogan, Joseph L. 2,871,915.
- Smith, Joseph Earl, Jr., to Bryant Chucking Grinder Co. Shaft positioner. 2,911,956, 11-10-59, Cl. 121-98.
- Smith, Joseph H.: *See—*  
Harmon, Carlyle, Griswold, and Smith. 2,909,491.
- Smith, Joseph N., 30% to N H Banks. Salt and pepper shaker. 2,875,925, 3-3-59, Cl. 222-39.
- Smith, Joseph W., and G. Samios, to Westinghouse Electric Corp. Control system for a reversible motor. 2,913,651, 11-17-59, Cl. 318-282.
- Smith, Julian K., and L. A. Kovacs, to The Reliance Electric & Engineering Co. Removable hub. 2,869,774, 1-20-59, Cl. 230-134.
- Smith, Karl F., and R. J. Van Thyne, to United States of America, Atomic Energy Commission. Vanadium alloys. 2,886,431, 5-12-59, Cl. 75-134.
- Smith, Kenneth A., to Sinclair Refining Co. Gasoline additive mixture. 2,884,314, 4-28-59, Cl. 44-53.
- Smith, Kenneth A., to Imperial Chemical Industries Ltd. Production of explosives. 2,891,563, 6-23-59, Cl. 137-1.
- Smith, Kenneth A., and D. A. Love, to Imperial Chemical Industries Ltd. Blasting device. 2,916,993, 12-15-59, Cl. 102-25.
- Smith, Kenneth D., to Bell Telephone Laboratories, Inc. Switches controlled by forces of acceleration. 2,885,503, 5-5-59, Cl. 200-61.45.



- Smith, Kenneth G., and G. H. Washington, to United States of America, Navy. Corona proof link. 2,867,682, 1-6-59, Cl. 174-140.
- Smith, Kenneth L.: *See*—  
Lucas, John H., and Smith. 2,900,572.
- Smith, Kline & French Laboratories: *See*—  
Bartlett, Richard J. 2,878,631.  
Bartlett, Richard J., Hall, and Martell. 2,910,815.  
Craig, Paul N. 2,914,528.  
Craig, Paul N. 2,919,272.  
Craig, Paul N., and Lafferty. 2,919,271.  
Edgerton, William H. 2,916,495.  
Grass, George M., Jr., and Robinson. 2,875,130.  
Greer, Henry W., Hompe, and Martell. 2,890,557.  
Hompe, Robert W., and Ferguson. 2,890,880.  
Raff, Allan M., and Svedres. 2,876,818.  
Rosenthal, Fritz. 2,895,880.  
Whitecar, Alten E. 2,902,806.  
Whitecar, Alten E. 2,916,811.
- Smith, Lee B., to Allied Chemical Corp. Manufacture of perfluoropropene. 2,900,423, 8-18-59, Cl. 260-653.5.
- Smith, Lee D., to United States of America, Army. Microwave single-sideband modulator. 2,872,647, 2-3-59, Cl. 332-45.
- Smith, Lealand L., M. Marx, and S. A. Muller, to American Cyanamid Co. Preparation of tetracycline-urea compound. 2,905,662, 9-22-59, Cl. 260-96.5.
- Smith, Leonard P. Filter for machine coolant. 2,919,029, 12-29-59, Cl. 210-305.
- Smith, Leslie J., to Sumnerland Ltd. Mattress stitching apparatus. 2,915,027, 12-1-59, Cl. 112-3.
- Smith, Lester L., and F. E. Randall; said Randall assor. to said Smith. Tool and method for securing sheet metal pieces together. 2,901,816, 9-1-59, Cl. 29-21.1.
- Smith, Lloyd: *See*—  
Van Atta, Chester M., Beringer, and Smith. 2,867,748.
- Smith, Lloyd B. Lawn sprinkler. 2,884,202, 4-28-59, Cl. 239-97.
- Smith, Lloyd B. Refuse vehicle. 2,902,180, 9-1-59, Cl. 214-82.
- Smith, Lloyd B. Apparatus for cutting strand material. 2,905,111, 9-22-59, Cl. 107-21.
- Smith, Louis E., Jr. Sonic radio link wave height meter. 2,869,108, 1-13-59, Cl. 340-2.
- Smith, Louis R., to Thompson Ramo Wooldridge, Inc. Seal assembly. 2,919,148, 12-29-59, Cl. 286-11.
- Smith, Lucian B., to General Motors Corp. Fuel pump with magnet. 2,889,782, 6-9-59, Cl. 103-150.
- Smith, Lucius N. Floating boat dock. 2,885,987, 5-12-59, Cl. 114-5.
- Smith, Malcolm K., to The Baker Castor Oil Co. Production of mono-esters. 2,902,500, 9-1-59, Cl. 260-410.6.
- Smith, Marion J. Nesting chairs. 2,874,755, 2-24-59, Cl. 155-2.
- Smith, Martin R.: *See*—  
Bednars, Charles, Smith, and Stanford. 2,881,128.  
Patton, James L., and Smith. 2,909,479.
- Smith, Martin R., to The M. W. Kellogg Co. Hydrocarbon conversion system. 2,883,335, 4-21-59, Cl. 208-160.
- Smith, Martin R., to The M. W. Kellogg Co. Hydrocarbon conversion system. 2,890,168, 6-9-59, Cl. 208-164.
- Smith, Martin T., Jr.: *See*—  
Reed, Thomas B., and Smith. 2,898,441.
- Smith, Marvon A. Control mechanism for multiple engines. 2,916,885, 12-15-59, Cl. 60-97.
- Smith, Milton F., and H. F. Latva, to The Bunting Brass and Bronze Co. Process of preparing porous sintered metal parts for metal plating. 2,897,097, 7-28-59, Cl. 117-102.
- Smith, Minot F., to Underwood Machinery Co. Road sanding machine. 2,907,482, 10-6-59, Cl. 214-83.
- Smith, Monroe F.: *See*—  
Marander, Myron F., Gschwend, and Smith. 2,869,722.
- Smith, Murry V.: *See*—  
Hollis, Clinton R., and Smith. 2,913,797.
- Smith, Nathan R.: *See*—  
Crownover, Joseph W., and Smith. 2,895,081.
- Smith, Nathan R., and N. J. Rosen, to Chicago Telephone of California, Inc. Embedded coil and method of manufacturing. 2,914,600, 11-24-59, Cl. 174-52.
- Smith, Nester F., to Ithaca Gun Co., Inc. Detent. 2,882,634, 4-21-59, Cl. 42-16.
- Smith, Orville J.: *See*—  
Phillips, Bruce B., and Smith. 2,899,877.
- Smith, Orville R.: *See*—  
Carter, Daniel H., and Smith. 2,914,725.
- Smith, Orville R., and C. E. Reesby to Welx, Inc. Well logging device. 2,899,633, 8-11-59, Cl. 324-10.
- Smith, Paul and A. J. Surprise calendars. 2,914,871, 12-1-59, Cl. 40-107.
- Smith, Paul C., to Micro Machine Works, Inc. Adjustable tap means for variable resistance device. 2,901,719, 8-25-59, Cl. 338-135.
- Smith, Paul F., to Parker-Hannifin Corp. Extreme temperature sealing device. 2,914,350, 11-24-59, Cl. 288-32.
- Smith, Paul L.: *See*—  
Petersen, Thorvald K., and Smith. 2,918,183.
- Smith, Paul L., and A. L. Boyes, to Union Carbide Corp. Concentrated fruit juice and method. 2,911,308, 11-8-59, Cl. 99-186.
- Smith, Paul V., Jr.: *See*—  
Cottle, Delmer L., Young, Morway, and Smith. 2,874,192.
- Smith, Perrin F., to International Business Machines Corp. Data reading machine. 2,906,819, 9-29-59, Cl. 178-17.
- Smith, Peter A., to Fisher Governor Co. Filler valve construction. 2,886,052, 5-12-59, Cl. 137-109.
- Smith, Peter A., and P. L. Johnson, to Fisher Governor Co. Excess flow valve with keeper means. 2,886,054, 5-12-59, Cl. 137-316.
- Smith, Peter A., and Johnson, Philip L., to Fisher Governor Co. Lock type excess flow valve. 2,886,061, 5-12-59, Cl. 137-517.
- Smith, Peter C. Resilient locking coupling. 2,871,046, 1-27-59, Cl. 287-103.
- Smith, Peter C. Fishing lure and couplings. 2,884,733, 5-5-59, Cl. 43-42.38.
- Smith, Peter C. Free floating pin. 2,902,304, 9-1-59, Cl. 287-103.
- Smith, Philip. Battery powered disk type lawn mower. 2,904,594, 1-27-59, Cl. 56-25.4.
- Smith, Philip. Battery powered disk type lawn mower. 2,909,885, 10-27-59, Cl. 56-25.4.
- Smith, Philip. Battery powered outboard motor. 2,919,392, 12-29-59, Cl. 318-247.
- Smith, Philip N.: *See*—  
Hicks, John W., Jr., and Smith. 2,878,636.
- Smith, Philip N., to Deering Milliken Research Corp. Traveling arrangement. 2,911,835, 11-10-59, Cl. 74-37.
- Smith, Philip P. Machine for cleaning rugs and the like. 2,910,720, 11-3-59, Cl. 15-320.
- Smith, Philip S., to Smith Dieterich Corp. Multi-camera image-production and control. 2,896,503, 7-28-59, Cl. 88-16.6.
- Smith, Philip S., to Smith-Dieterich Corp. Image-producing lens system and control. 2,918,842, 12-29-59, Cl. 88-16.6.
- Smith, Philip S., to Smith-Dieterich Corp. System for mosaic cinematography. 2,918,843, 12-29-59, Cl. 88-16.6.
- Smith, Philip W. Fire detection and alarm systems. 2,889,798, 6-9-59, Cl. 116-103.
- Smith, Philip H., to Inland Steel Co. Gun nozzle for adding lead pellets to liquid steel. 2,893,716, 7-7-59, Cl. 266-34.
- Smith, Ralph D., K. B. Swan, and K. F. Finlay, to Northrop Aircraft, Inc. Heat exchanger. 2,871,678, 2-3-59, Cl. 62-440.
- Smith, Ralph E., F. W. Hannum, and W. M. Booth, to Gardner-Denver Co. Combination air hose and tool balancer. 2,905,194, 9-22-59, Cl. 137-561.
- Smith, Ralph H., to Owens-Illinois Glass Co. Vacuum chucks. 2,895,739, 7-21-59, Cl. 279-3.
- Smith, Ralph T. Combination head latch and chute gate. 2,895,451, 7-21-59, Cl. 119-99.
- Smith, Ramsey. Deep well chain saw. 2,890,858, 6-16-59, Cl. 255-1.
- Smith, Randall D., to The Firestone Tire & Rubber Co. Method of making an air spring. 2,874,458, 2-24-59, Cl. 29-436.
- Smith, Ray M.: *See*—  
McElroy, Robert K., and Smith. 2,876,605.
- Smith, Raymond. Solder feeding attachment for a soldering iron. 2,875,719, 3-3-59, Cl. 113-109.
- Smith, Raymond, to United States Steel Corp. Method of producing transformation hardenable stainless steel and articles produced therefrom. 2,894,867, 7-14-59, Cl. 148-21.55.
- Smith, Raymond A., H. H. McClure, and G. C. Bond, to The Dow Chemical Co. Recovery of ammonia and hydrogen cyanide from gaseous mixtures. 2,899,274, 8-11-59, Cl. 23-151.
- Smith, Raymond E., to The A. C. Gilbert Co. Axial flow fan with variable direction of oscillating range. 2,900,127, 8-18-59, Cl. 230-256.
- Smith, Raymond E. and W. R., and J. J. Baltrush, Jr., to The A. C. Gilbert Co. Current rectified signalling system. 2,905,102, 9-22-59, Cl. 104-150.
- Smith, Richard: *See*—  
Tolomeo, Albert J., Di Battista, and Smith. 2,880,810.
- Smith, Richard E., to Bendix Aviation Corp. Reversible engine starter gearing. 2,907,216, 10-6-59, Cl. 74-7.
- Smith, Richard E., to Bendix Aviation Corp. Mesh-enforcing means for engine starter gearing. 2,909,932, 10-27-59, Cl. 74-6.
- Smith, Richard F.: *See*—  
Chapin, Earl C., and Smith. 2,894,938.  
Chapin, Earl C., and Smith. 2,897,174.  
Chapin, Earl C., and Smith. 2,899,404.  
Chapin, Earl C., and Smith. 2,900,359.
- Smith, Richard G. Animated toy freight handling truck. 2,876,584, 3-10-59, Cl. 46-40.
- Smith, Richard T. Reflector for lamps. 2,907,873, 10-6-59, Cl. 240-103.
- Smith, Richmond W., to Bird Machine Co. Cleaning and conditioning device. 2,905,241, 9-22-59, Cl. 162-279.
- Smith, Robert B. Appliance for floating the human body in water. 2,894,271, 7-14-59, Cl. 9-17.
- Smith, Robert B., and C. H. Evans, to Eastman Kodak Co. Recording of color television programs. 2,912,488, 11-10-59, Cl. 178-5.4.
- Smith, Robert C.: *See*—  
Tolley, Willis B., and Smith. 2,917,360.



- Smith, Robert D., to The Yale & Towne Mfg. Co. Changeable tumbler for a combination lock. 2,894,387, 7-14-59, Cl. 70—323.
- Smith, Robert F., to General Motors Corp. Luminous ceiling. 2,913,571, 11-17-59, Cl. 240—9.
- Smith, Robert H., to Jones & Laughlin Steel Corp. Electrode for electrocleaning apparatus. 2,909,474, 10-20-59, Cl. 204—206.
- Smith, Robert K.: *See—*  
Bickford, Fred A., and Smith. 2,887,394.
- Smith, Robert L. Seeder, fertilizer and tiller combine. 2,914,006, 11-24-59, Cl. 111—67.
- Smith, Robert L., and H. S. Hemstreet, to Link Aviation, Inc. Cathode ray tube display for grounded aircraft trainer. 2,890,528, 6-16-59, Cl. 35—12.
- Smith, Robert M., to The Dow Chemical Co. Polyepichlorohydrin bis (2,3-carbonatopropyl ether). 2,891,073, 6-16-59, Cl. 260—340.2.
- Smith, Robert M., to The Dow Chemical Co. Preparation of alkali metal isethionates. 2,899,461, 8-11-59, Cl. 260—513.
- Smith, Robert M. Motive power units for model railroads. 2,903,974, 9-15-59, Cl. 105—101.
- Smith, Robert P.: *See—*  
Hawk, Le Roy R., Eolkin, Smith, and Tambini. 2,908,577.
- Smith, Robert S. Molding method. 2,869,215, 1-20-59, Cl. 25—156.
- Smith, Robert S., J. S. Eggenberger, and K. B. Scow, to International Business Machines Corp. Stress relieved thin magnetic films. 2,907,680, 10-6-59, Cl. 117—71.
- Smith, Robert T., Jr.: *See—*  
Montgolf, Earl E., Smith, and Hudson. 2,903,934.
- Smith, Robert V., to Raytheon Co. Microwave ovens. 2,910,566, 10-27-59, Cl. 219—10.55.
- Smith, Robert W.: *See—*  
Layton, William B., Jr., Miller, and Smith. 2,873,875.
- Smith, Robert W., to General Motors Corp. High energy electrical lead-in. 2,867,683, 1-6-59, Cl. 174—152.
- Smith, Robert W., and M. B. Wilcox, to Aladdin Mfg. Co. Beverage holder. 2,893,675, 7-7-59, Cl. 248—223.
- Smith, Robert W., and R. A. Vaughan, to Dresser Industries, Inc. Elevator platform leveling system. 2,895,568, 7-21-59, Cl. 187—76.
- Smith, Roland W., and A. Rose, to Radio Corp. of America. Electric contacts. 2,916,810, 12-15-59, Cl. 29—195.
- Smith, Rollin P., and D. E. Babcock, to R-N Corp. Method for reducing metal ores. 2,877,108, 3-10-59, Cl. 75—36.
- Smith, Ronald C.: *See—*  
Graham, Peter E., and Smith. 2,897,066.
- Smith, Roy E., to Owens-Corning Fiberglas Corp. Winding mandrel for packaging glass strands. 2,891,798, 6-23-59, Cl. 279—2.
- Smith, Roy J.: *See—*  
Doty, Charles R., and Smith. 2,884,064.
- Smith, Roy W. Bottom unloading harvest storage unit. 2,890,804, 6-16-59, Cl. 214—17.
- Smith, Rudolph B.: *See—*  
Bethae, Malcolm, and Smith. 2,885,653.
- Smith, Russell M., to General Electric Co. Static excitation generator system. 2,883,608, 4-21-59, Cl. 322—25.
- Smith, S., & Sons (England) Ltd.: *See—*  
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- Smith, S. R., Co., Inc.: *See—*  
Smith, Samuel R., and Dupont. 2,882,052.
- Smith, Samuel H., to Jantzen Inc. Sun bra. 2,869,552, 1-20-59, Cl. 128—456.
- Smith, Samuel R., and R. E. Dupont, to S. R. Smith Co., Inc. Diving board support. 2,882,052, 4-14-59, Cl. 272—66.
- Smith, Serine F. Mop shaker. 2,873,468, 2-17-59, Cl. 15—311.
- Smith, Sidney C.: *See—*  
Jennings, Sheldon V., and Smith. 2,868,940.
- Smith, Sidney L., to The Unit Superheater and Pipe Co. Ltd. Heat exchangers and particularly steam superheaters. 2,891,521, 6-23-59, Cl. 122—235.
- Smith, Sidney R., Jr.: *See—*  
Nichols, Frank S., and Smith. 2,879,323.
- Smith, Sidney R., Jr., and F. J. Charewicz, to General Electric Co. Switch stick mounted load break. 2,890,313, 6-9-59, Cl. 200—148.
- Smith, Sidney T., to Hughes Aircraft Co. Multicolor storage tube. 2,910,617, 10-27-59, Cl. 315—12.
- Smith, Stanley F.: *See—*  
Thomas, Reginald J., and Smith. 2,881,669.
- Smith, Stanley F., and H. L. Gower. Rotary cutter heads. 2,917,091, 12-15-59, Cl. 144—230.
- Smith, Stanley H.: *See—*  
Lewis, Alfred A., and Smith. 2,905,132.
- Smith, Stanley W., and C. M. Sperazz, Sr., to Bell Aircraft Corp. Jet propelled airplane with jet diverter. 2,879,014, 3-24-59, Cl. 244—12.
- Smith, Stanton B., and A. J. Juhola, to Pittsburgh Coke & Chemical Co. Filter material. 2,882,997, 4-21-59, Cl. 183—44.
- Smith, Sydney E.: *See—*  
Kessler, William J., Smith, and Hersperger. 2,883,663.
- Smith, T. & H., Ltd.: *See—*  
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- Smith, T. L., Co., The: *See—*  
Broberg, Leonard E. 2,884,235.  
Broberg, Leonard E. 2,902,268.  
Broberg, Leonard E. 2,904,318.
- Smith, Telford L., and P. G. Dunmire. Sleeve type pipe coupling having sheet metal followers. 2,901,274, 8-25-59, Cl. 285—341.
- Smith, Thomas A. Floating prefabricated boat house. 2,887,975, 5-26-59, Cl. 114—5.
- Smith, Thomas A., to United States of America, Navy. Quick disconnect device for dial illuminator. 2,891,230, 6-16-59, Cl. 339—17.
- Smith, Thomas R., to The Maytag Co. Single rotary tub construction for washing machines. 2,872,801, 2-10-59, Cl. 68—23.
- Smith, Thomas R., to The Maytag Co. Washer and spin drier tub assembly. 2,880,873, 4-7-59, Cl. 210—147.
- Smith, Thomas R., to The Maytag Co. Unitary tub washer-drier. 2,893,135, 7-7-59, Cl. 34—75.
- Smith, Thomas R., to The Maytag Co. Suds saving system for washing machine. 2,894,384, 7-14-59, Cl. 68—12.
- Smith, Thomas R., to The Maytag Co. Variable liquid level control. 2,899,817, 8-18-59, Cl. 68—133.
- Smith, Thomas R., to The Maytag Co. Sediment removal device. 2,900,812, 8-25-59, Cl. 68—23.
- Smith, Thomas R., to The Maytag Co. Tub seal and bearing structure. 2,901,294, 8-25-59, Cl. 308—36.1.
- Smith, Thomas R., to The Maytag Co. Time control for automatic washers. 2,915,120, 12-1-59, Cl. 161—1.
- Smith, Thomas R., to The Maytag Co. Control means for spring clutch drives. 2,915,158, 12-1-59, Cl. 192—81.
- Smith, Thomas R., W. Jamieson, and A. E. Meyers. Device for sharpening writing instruments. 2,876,741, 3-10-59, Cl. 120—90.
- Smith, Thomas R., and W. F. Scott, to The Maytag Co. Variable liquid level control. 2,899,818, 8-18-59, Cl. 68—207.
- Smith, Traver J.: *See—*  
Magnuson, Roy M., and Smith. 2,889,986.  
Magnuson, Roy M., and Smith. 2,910,393.
- Smith, Vene C., to The Eagle Lock and Screw Co. Locking device. 2,878,663, 3-24-59, Cl. 70—14.
- Smith, Verity C., to Barnstead Still and Sterilizer Co. Fluid-handling apparatus. 2,876,791, 3-10-59, Cl. 137—315.
- Smith, Vernon L., and H. K. Carstensen, to United States of America, Atomic Energy Commission. Time calibrated oscilloscope sweep circuit. 2,914,697, 11-24-59, Cl. 315—26.
- Smith, Vigo N.: *See—*  
Brassington, Samuel M., and Smith. 2,875,342.
- Smith, Vigor C., to Auto Parks, Inc. One-way road-block for automobile entrance or exit driveways to or from drive-in theatres, parking areas and the like. 2,918,740, 12-29-59, Cl. 39—5.
- Smith, Walter F., to Imperial Chemical Industries Ltd. Manufacture of polyvinyl chloride compositions. 2,917,472, 12-15-59, Cl. 260—25.
- Smith, Walter H. B. Firing mechanism with a single spring for the hammer, hammer catch means and trigger. 2,894,346, 7-14-59, Cl. 42—69.
- Smith, Walter J.: *See—*  
Spohn, James E., and Smith. 2,875,019.
- Smith, Walter J., to The Firestone Tire & Rubber Co. Spinneret filter pack. 2,904,828, 9-22-59, Cl. 18—8.
- Smith, Walter S. J.: *See—*  
Rypinski, Albert B., Smith, Brunner, and Laverty. 2,890,306.
- Smith, Warren L.: *See—*  
Potts, Mack F., Smith, and Hudson. 2,887,490.
- Smith, Warren L., M. F. Potts, and P. S. Hudson, to Phillips Petroleum Co. Stabilization of certain alkenyl pyridines. 2,874,159, 2-17-59, Cl. 260—290.
- Smith, Watt V. Low friction laminated phenolic bearing materials. 2,919,219, 12-29-59, Cl. 154—125.
- Smith, Webster D. Thermostats. 2,889,430, 6-2-59, Cl. 200—138.
- Smith, Wesley L. Aircraft flight instrument. 2,892,180, 6-23-59, Cl. 340—27.
- Smith and Wesson Inc.: *See—*  
Hellstrom, Douglas R. 2,916,844.  
Norman, Joseph W. 2,871,604.  
Norman, Joseph W. 2,887,810.
- Smith, Wilbur R. Electrical outlet for three-prong locking plugs. 2,872,654, 2-3-59, Cl. 339—14.
- Smith, William,  $\frac{1}{10}$  to Gadget-Of-The-Month Club, Inc. Triple-circuit rocker or toggle switch. 2,882,357, 4-14-59, Cl. 200—5.
- Smith, William A., C. W. Abernethy, and J. M. Downey, to American Metal Climax, Inc. Concentration of potash ores containing sylvite. 2,919,026, 12-29-59, Cl. 209—167.
- Smith, William C.: *See—*  
Muettteries, Earl L., Phillips, and Smith. 2,897,055.
- Smith, William C., to E. I. du Pont de Nemours and Co. Preparation of uranium fluorides. 2,904,394, 9-15-59, Cl. 23—14.5.
- Smith, William C., to E. I. du Pont de Nemours and Co. Production of inorganic fluorine compounds. 2,904,398, 9-15-59, Cl. 23—88.
- Smith, William C., to E. I. du Pont de Nemours and Co. Preparation of IF<sub>5</sub>. 2,904,403, 9-15-59, Cl. 23—205.



- Smith, William C., to E. I. du Pont de Nemours and Co. Fluorophosphoranes and their preparations. 2,904,588, 9-15-59, Cl. 260—543.
- Smith, William C., to E. I. du Pont de Nemours and Co. Preparation of sulfur (VI) fluoride and oxyfluorides. 2,907,636, 10-6-59, Cl. 23—203.
- Smith, William E., to Midland-Ross Corp. Electric welding method. 2,903,558, 9-8-59, Cl. 219—74.
- Smith, William H.: *See—*  
Cotton, Edward A., and Smith. 2,887,350.
- Smith, William H. Boilers. 2,914,039, 11-24-59, Cl. 122—379.
- Smith, William J., to Western Electric Co., Inc. Multiple punch and die sets. 2,873,627, 2-17-59, Cl. 76—107.
- Smith, William J., to The Jeffrey Mfg. Co. Jig. 2,883,053, 4-21-59, Cl. 209—493.
- Smith, William M.: *See—*  
Lehane, Timothy J., Smith, and Ernst. 2,873,916.
- Smith, William M., Jr.: *See—*  
Reid, Robert J., Smith, and Werner. 2,905,651.
- Smith, William M., Jr., and C. E. Best, to The Firestone Tire & Rubber Co. Process of extruding vinylidene chloride resin plasticized with an ethylene glycol dibenzoate. 2,875,168, 2-24-59, Cl. 260—314.
- Smith, William O. Safety catch for vertically sliding doors. 2,869,183, 1-20-59, Cl. 20—19.
- Smith, William P., Jr.: *See—*  
Weingrad, Richard H., Ferrara, and Smith. 2,873,642.
- Smith, William R.: *See—*  
Reed, Hugh W. B., and Smith. 2,872,470.
- Smith, Raymond E. and W. R., and Baltrush. 2,905,102.
- Smith, William R., to American Telephone and Telegraph Co. Teletypewriter testing system. 2,878,306, 3-17-59, Cl. 178—4.
- Smith, William R., to The A. C. Gilbert Co. Toy locomotive sound effects. 2,882,834, 4-21-59, Cl. 104—150.
- Smith, William R., to McDonough Power Equipment, Inc. Wheel driving arrangement for power mowers. 2,893,501, 7-7-59, Cl. 180—19.
- Smith, William W., and I. A. Yamen, to Dust-Tex Corp. Collapsible mop support. 2,901,759, 9-1-59, Cl. 15—147.
- Smith, Willis D., to Electric Steel Foundry, now by change of name to Electric Steel Foundry Co. Dump block assembly. 2,904,906, 9-22-59, Cl. 37—135.
- Smith, Willis R.: *See—*  
Albrighton, Reginald F., and Smith. 2,916,613.
- Smith, Winthrop C., to Esso Research and Engineering Co. Rubber tire containing butyl rubber, a quinoid compound, and an amido compound, and process of preparing. 2,879,823, 3-31-59, Cl. 152—330.
- Smith, Zeke R., to American Machine & Foundry Co. Electromagnetic relays. 2,917,600, 12-15-59, Cl. 200—87.
- Smithcraft Corp.: *See—*  
Kruger, Michael H. 2,918,995.
- Smithe, F. L., Machine Co., Inc.: *See—*  
Novick, Abraham. 2,890,631.
- Smithers, Bernard C.: *See—*  
Orloff, George, and Smithers. 2,876,025.
- Smithers, Lawrence E. Sanitary refuse disposal unit. 2,885,144, 5-5-59, Cl. 232—43.5.
- Smithers, V. L., Mfg. Co., The: *See—*  
Smithers, Vernon L. 2,891,353.  
Smithers, Vernon L. 2,891,354.
- Smithers, Vernon L., to The V. L. Smithers Mfg. Co. Flower holder. 2,891,353, 6-23-59, Cl. 47—41.
- Smithers, Vernon L., to The V. L. Smithers Mfg. Co. Flower holder with detachable base. 2,891,354, 6-23-59, Cl. 47—41.
- Smithgall, Harry E.: *See—*  
Kautz, George R., Kuryla, and Smithgall. 2,916,644.
- Smithgall, Harry E., to Sylvania Electric Products Inc. Cathode ray tube apparatus. 2,915,953, 12-8-59, Cl. 95—1.
- Smith-Gorman, Robert J., to Rolls-Royce Ltd. Barrelling and tumbling apparatus. 2,912,800, 11-17-59, Cl. 51—164.
- Smithies, Henry, to E. I. du Pont de Nemours and Co. Process for embossing polyvinyl acetate sheets. 2,904,844, 9-22-59, Cl. 18—57.
- Smith-Johannsen, Robert, to Sonotone Corp. Phonograph pickups. 2,879,413, 3-24-59, Cl. 310—8.2.
- Smith-Johannsen, Robert, to S-J Chemical Co. Compositions and heating elements produced therefrom. 2,891,228, 6-16-59, Cl. 338—262.
- Smiths America Corp.: *See—*  
Burden, Stanley W., and Meredith. 2,906,127.  
Johnson, Ivan B. 2,908,166.  
Lamburn, Alan S. 2,911,010.  
Meredith, Frederick W. 2,907,031.  
Simons, William R. 2,884,787.  
Simons, William R. 2,895,338.
- Smiths Jacking Systems Ltd.: *See—*  
Reid, Kenneth E. 2,913,876.
- Smithson, Wilmore K. Foldable cage construction. 2,892,562, 6-30-59, Cl. 220—7.
- Smith-Vaniz, William R., Jr., to C. G. S. Laboratories, Inc. System using magnetized controllable inductor operated stepwise to control frequency and the like. 2,897,352, 7-28-59, Cl. 250—20.
- Smith-Vaniz, William R., Jr., to C.G.S. Laboratories, Inc. Radio receiver in which signal tuned circuits are controlled by remotely tuned local oscillator. 2,907,876, 10-6-59, Cl. 250—20.
- Smithwick, Jack W., and R. B. Ruff, to Intercontinental Mfg. Co., Inc. Dispensing device to deliver single measured volume. 2,887,249, 5-19-59, Cl. 222—63.
- Smitley, Marion L., to Holley Carburetor Co. Accelerating pump vent. 2,879,048, 3-24-59, Cl. 261—34.
- Smits, Clarence W., to Dihydrol Co. Switch operating means. 2,868,904, 1-13-59, Cl. 200—32.
- Smits, John M., and M. J. Sturtevant, to American Telephone and Telegraph Co. Calling station identification circuit. 2,913,526, 11-17-59, Cl. 179—5.5.
- Smits, Wytze B., to Smitsvonk, N.V. Low tension surface discharge spark plug. 2,879,426, 3-24-59, Cl. 313—130.
- Smits, Wytze B., to Smitsvonk, N.V. Low tension surface discharge spark plug. 2,883,570, 4-21-59, Cl. 313—131.
- Smitsvonk, N. V.: *See—*  
Smits, Wytze B. 2,879,426.  
Smits, Wytze B. 2,883,570.
- Smock, Carl M. Timber tong. 2,886,371, 5-12-59, Cl. 294—111.
- Smock, George E.: *See—*  
Frickert, Philip J., and Smock. 2,875,503.
- Smolár, František, to Meopta, národní podnik. Centrifugally controlled governor device, more particularly for motion picture cameras. 2,872,177, 2-3-59, Cl. 264—16.
- Smolen, Stanley, to Clayton Mfg. Co. Engine support. 2,885,165, 5-5-59, Cl. 248—13.
- Smolensky, Michael. Backwater check means for drainage systems. 2,882,923, 4-21-59, Cl. 137—515.5.
- Smolensky, Michael. Check valve structure. 2,882,925, 4-21-59, Cl. 137—542.
- Smoliar, Gerald D., to Underwood Corp. Binary relative magnitude comparator. 2,885,655, 5-5-59, Cl. 340—149.
- Smolin, Edwin M., to American Cyanamid Co. Reaction of acetylene with substituted-benzenes in the presence of a sulfuric acid-colloidal metallic mercury catalyst. 2,878,259, 3-17-59, Cl. 260—668.
- Smolin, Edwin M., to American Cyanamid Co. Catalyst for preparation of diaryl paraffins. 2,905,729, 9-22-59, Cl. 260—668.
- Smolin, Edwin M., and B. J. Luberoft, to American Cyanamid Co. Preparation of acrylic monomers. 2,882,299, 4-14-59, Cl. 260—486.
- Smolin, Edwin M., and D. G. Jordan, to American Cyanamid Co. Synthesis of 1,1-diarylethane. 2,917,560, 12-15-59, Cl. 260—668.
- Smollett, Thomas J.: *See—*  
Vierk, Ernest R., and Smollett. 2,912,384.
- Smollinger, Carl W.: *See—*  
Joy, Robert E., and Smollinger. 2,889,603.
- Smollinger, Carl W., and R. F. Joy, to Bethlehem Steel Co. Lubricating guide for wire drawing. 2,883,039, 4-21-59, Cl. 205—19.
- Smook, Malcolm A.: *See—*  
Johnson, Paul R., and Smook. 2,879,261.
- Smoot, James J.: *See—*  
Smoot, John W. and J. J. 2,875,682.
- Smoot, John W. and J. J. Deep fat frying machine. 2,875,682, 3-3-59, Cl. 99—336.
- Smouse, Charles L. Apparatus for charging a refrigerating system with a predetermined amount of refrigerant. 2,896,420, 7-28-59, Cl. 62—125.
- Smrekar, Larry F.: *See—*  
Cox, John R., and Smrekar. 2,872,199.
- Smura, Edwin J., to International Business Machines Corp. Convergence current regulator. 2,914,698, 11-24-59, Cl. 315—31.
- Smyser, Elmer D. Fluid motor. 2,882,868, 4-21-59, Cl. 121—95.
- Smyth, Donald M., and G. A. Shirn, to Sprague Electric Co. Solid electrolyte battery cell. 2,905,740, 9-22-59, Cl. 136—83.
- Smyth, Henry L. R., to National Research Council. Lamp flasher with daylight-responsive inhibiting means. 2,891,195, 6-16-59, Cl. 315—159.
- Smyth, Henry L. R., to National Research Council. Automatic lamp changers. 2,892,966, 6-30-59, Cl. 315—89.
- Smyth, Rex W., to Gulf Research & Development Co. Purification process. 2,906,790, 9-29-59, Cl. 260—677.
- Smyth, William B., and O. J. Winkelmann, to Chrysler Corp. Variable speed accessory drive. 2,909,071, 10-20-59, Cl. 74—230.17.
- Smythe, Edwin T., to Arcraft Venetian Blind Mfg. Co. of St. Louis. Machine for making slatted material. 2,886,069, 5-12-59, Cl. 139—11.
- Smythe, William J.: *See—*  
Levin, Nathan, and Smythe. 2,891,284.
- Smythe, William J., to Union Carbide Corp. Method of producing a cellular structure from a plasticized vinyl ester resin. 2,881,141, 4-7-59, Cl. 260—2.5.
- Smythe, William J., and E. M. Muller, to Union Carbide Corp. Methods of producing a cellular structure in a plasticized vinyl ester resin. 2,917,473, 12-15-59, Cl. 260—2.5.
- Snap, Raymond: *See—*  
Kestell, Thomas A., and Snap. 2,888,892.
- Snap-on Tools Corp.: *See—*  
Walraven, George M. 2,909,835.
- Snartemo, Joseph H., to Allis-Chalmers Mfg. Co. Double drive. 2,900,832, 8-25-59, Cl. 74—230.17.
- Snaveley, Benjamin L. Assembly molding process for electrical elements. 2,887,763, 5-26-59, Cl. 29—155.5.



- Snavely, Earl S., Jr., to Union Carbide Corp. Electrochemical coulometer. 2,890,414, 6-9-59, Cl. 324-94.
- Snavely, Harold L. Method for controlling atmospheres while heat treating steel. 2,914,434, 11-24-59, Cl. 148-16.
- Sneary, Loy D., to Phillips Petroleum Co. Polymeric gelling agents for acid-sand mixtures. 2,891,619, 6-23-59, Cl. 166-42.
- Snee, Thomas L. Vehicle braking device. 2,887,184, 5-19-59, Cl. 188-4.
- Snell, Clarence G., to Divine Brothers Co. Caster locking mechanism. 2,900,659, 8-25-59, 16-35.
- Snell, Foster D.: *See*—  
Hass, Henry B., Snell, York, and Osipow. 2,893,990.
- Snell, Leonard S.: *See*—  
Halford, Frank B., and Snell. 2,880,577.
- Snelling, Leonard C. Bottling machines. 2,870,798, 1-27-59, Cl. 141-48.
- Snelling, Michael A.: *See*—  
Dell, Hugh A., and Snelling. 2,903,597.
- Snethen, Thomas H., to Watson Mfg. Co., Inc. Record filing and storage equipment. 2,876,057, 3-3-59, Cl. 312-303.
- Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa Societa S.p.A.: *See*—  
Muench, Werner, Notarbartolo, and Crosio. 2,887,470.  
Muench, Werner, Ruoti, and Silvestri. 2,904,579.  
Notarbartolo, Luigi, Ciceri, and Belgioioso. 2,918,347.  
Notarbartolo, Luigi, di Belgioioso, and Bruni. 2,883,733.
- Snider, Francis M., to Sinclair Refining Co. Corrosion prevention method and composition. 2,882,226, 4-14-59, Cl. 252-8.55.
- Snider, Kenneth M., to The American Coupler Co. Packing members for pipe joints and the like. 2,867,463, 1-6-59, Cl. 288-19.
- Snider, Kenneth M., to The American Coupler Co. Valve heads for rotatable valve stems. 2,876,982, 3-10-59, Cl. 251-88.
- Snider, Thomas R.: *See*—  
Miller, Meral O. 2,903,085.
- Snider, Walter J. Anemometer. 2,889,707, 6-9-59, Cl. 73-228.
- Snider, Warren L.: *See*—  
Abbott, Mortimer D., Snider, and Liedholm. 2,915,457.
- Snider, Warren L., D. H. Sarno, and G. E. Liedholm, to Shell Development Co. Production of gasoline from petroleum residues. 2,895,897, 7-21-59, Cl. 208-57.
- Snijders, Antonie: *See*—  
Van Duuren, Hendrik C. A., and Snijders. 2,912,578.
- Snijders, Antonie, to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Electronic transmitter and receiver for signals in a start-stop code. 2,879,334, 3-24-59, Cl. 178-53.1.
- Snincak, Stephen A. Priest's collar. 2,875,446, 3-3-59, Cl. 2-129.
- Snitker, Jens C., to S.O.S. B-Skod I/S. Frames for fire-retarding and fire-proof doors. 2,910,739, 11-3-59, Cl. 20-11.
- Snitzer, Saul, to B-W Footwear Co., Inc. Boot construction. 2,915,835, 12-8-59, Cl. 36-45.
- Snodderly, Gerald H.: *See*—  
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,879,997.  
Black, Robert H., Ross, Snodderly, Juran, and Drohman. 2,890,050.
- Snoddon, William J., to Minnesota Mining and Mfg. Co. Low temperature curing 1,3-diene containing elastomers and method of making same. 2,915,494, 12-1-59, Cl. 260-45.5.
- Snoddy, C. Stewart, Jr.: *See*—  
Graber, Robert P., and Snoddy. 2,894,007.
- Snoddy, Calvin S., Jr.: *See*—  
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- Snodgrass, James M., and P. C. Fleischer, to The Regents of the University of California. Sealed swivel connector. 2,919,420, 12-29-59, Cl. 339-8.
- Snodgrass, Leslie E. Velocipede propelled by foot pedals and hand levers. 2,884,259, 4-28-59, Cl. 280-234.
- Snodgrass, Reuben P., to Sperry Rand Corp. Navigation aid for piloted aircraft. 2,880,414, 3-31-59, Cl. 343-107.
- Snodgrass, Reuben P., to Sperry Rand Corp. Flight path angle control systems. 2,896,145, 7-21-59, Cl. 318-489.
- Snow, Arthur L. Folding shelf bracket. 2,905,424, 9-22-59, Cl. 248-240.
- Snow Corp.: *See*—  
Faasse, Adrian L., Kunzman, and Moser. 2,871,868.
- Snow, Donald L., P. H. Kafitz, and C. G. Rockwood, to Varian Associates. Electron cavity resonator tube apparatus. 2,880,357, 3-31-59, Cl. 315-5.23.
- Snow, Francis M.: *See*—  
Colmer, Henry G., Jr., and Snow. 2,873,948.
- Snow, George E., to The New Jersey Zinc Co. Production of titanium. 2,898,276, 8-4-59, Cl. 204-64.
- Snow, Henry J.: *See*—  
Stalego, Charles J., and Snow. 2,897,874.
- Snow, Henry J., and J. L. York, to Owens-Corning Fiberglas Corp. Apparatus for forming and treating fibers. 2,881,471, 4-14-59, Cl. 18-2.5.
- Snow, John E. Pneumatic energy absorber. 2,889,895, 6-9-59, Cl. 188-86.
- Snow, Kenneth T., to International Harvester Co. Retractable finger auger for harvesters. 2,895,590, 7-21-59, Cl. 198-104.
- Snow-Nabstedt Gear Corp., The: *See*—  
Gorshkov, Alexis S., and Reil. 2,916,930.
- Snow, Oscar J., to United States of America, Navy. Automatic tracking system for a radar or microwave receiving system. 2,885,666, 5-5-59, Cl. 343-7.4.
- Snow, Richard C. Solitaire card game device. 2,896,951, 7-28-59, Cl. 273-148.
- Snow, Robert D., and J. H. Hughes, to Phillips Petroleum Co. Liquid fertilizer applicator vehicle. 2,912,944, 11-17-59, Cl. 111-7.
- Snow, Thomas W.: *See*—  
Meyer, Vernon H., and Snow. 2,881,440.
- Snoy, Joseph B., to Borg-Warner Corp. Double acting clutch. 2,868,341, 1-13-59, Cl. 192-87.
- Snyder, Alton G.: *See*—  
Lambert, Harry L., Page, and Snyder. 2,894,614.
- Snyder, Charles C.: *See*—  
Barden, Wayne A., and Snyder. 2,899,662.  
Barden, Wayne A., Snyder, and Thompson. 2,909,749.
- Snyder, Charles W.: *See*—  
Spengler, Ralph A., Reynolds, and Snyder. 2,881,680.
- Snyder, Charles W. Sole marking device. 2,895,228, 7-21-59, Cl. 33-189.
- Snyder, Clarence E., to The B. F. Goodrich Co. Tire safety wall. 2,917,096, 12-15-59, Cl. 152-341.
- Snyder, Clifford H. Root feeder nozzle. 2,893,334, 7-7-59, Cl. 111-7.1.
- Snyder, Clifford H., D. A. Turner, and H. C. Funk, to The Colmol Co. Continuous mining machine with vertically separable cutter carrying units. 2,877,999, 3-17-59, Cl. 262-7.
- Snyder, Clifford H., and H. C. Funk, to The Colmol Co. Vertically and laterally expandable continuous mining machine. 2,878,001, 3-17-59, Cl. 262-9.
- Snyder, Clyde A., to Wheelabrator Corp. Filter device. 2,879,863, 3-31-59, Cl. 183-58.
- Snyder, Edward R. Hosiery hanger. 2,908,398, 10-13-59, Cl. 211-113.
- Snyder, Edward R. Bottle support. 2,908,473, 10-13-59, Cl. 248-359.
- Snyder, Ellery P., to C.G.S. Laboratories, Inc. Adjustable controllable inductor apparatus. 2,911,529, 11-3-59, Cl. 250-40.
- Snyder, Francis H., to Dendrol, Inc. Synthetic resins derived from hydroxymethylfurfural and ketones. 2,875,180, 2-24-59, Cl. 260-64.
- Snyder, Frank D., to The B. F. Goodrich Co. Fast response thermal switch. 2,908,792, 10-13-59, Cl. 219-20.
- Snyder, Frank R., to General Electric Co. Electronic oven shelf arrangement. 2,912,554, 11-10-59, Cl. 219-10.55.
- Snyder, Frank T. Automobile safety mirror. 2,871,761, 2-3-59, Cl. 88-86.
- Snyder, George H. Tank filling shut-off valve. 2,867,232, 1-6-59, Cl. 137-403.
- Snyder, George H., Inc.: *See*—  
Snyder, George H., Jr. 2,896,521.
- Snyder, George H., Jr., to George H. Snyder, Inc. Automatic feed for paper box wrapping machines. 2,896,521, 7-28-59, Cl. 93-54.
- Snyder, George S., to The Coca-Cola Co. Rack for cartons. 2,917,180, 12-15-59, Cl. 211-49.
- Snyder, Harold M., to General Motors Corp. Domestic appliance. 2,886,394, 5-12-59, Cl. 312-276.
- Snyder, Harold M., to General Motors Corp. Door operator. 2,912,237, 11-10-59, Cl. 268-74.
- Snyder, Hartland S.: *See*—  
Courant, Ernest D., Snyder, and Livingston. 2,882,396.
- Snyder, Howard E.: *See*—  
Rice, Lon C., Satre, and Snyder. 2,883,517.
- Snyder, Jacob R. Shut-off valve with sealing and venting means. 2,877,979, 3-17-59, Cl. 251-174.
- Snyder, James E., G. W. Ferner, and I. Collins, to The Goodyear Tire & Rubber Co. Prune package. 2,888,350, 5-26-59, Cl. 99-171.
- Snyder, James E., and R. J. Swartz, to The Goodyear Tire & Rubber Co. Process of packaging dried fruit. 2,900,259, 8-18-59, Cl. 99-171.
- Snyder, James E., and G. W. Ferner, to The Goodyear Tire & Rubber Co. Method of preserving the red color of red meat and product. 2,900,260, 8-18-59, Cl. 99-174.
- Snyder, James E., and G. W. Ferner, to The Goodyear Tire & Rubber Co. Packaging freshly cut red meats. 2,900,261, 8-18-59, Cl. 99-174.
- Snyder, James M.: *See*—  
Eller, Carl W., Jr., and Snyder. 2,901,491.
- Snyder, John E.: *See*—  
Chase, Wallace P., Davis, and Snyder. 2,917,732.
- Snyder, John R. Valve washer. 2,893,686, 7-7-59, Cl. 251-357.
- Snyder, John R., P. F. Hagerty, and M. C. Molstad, to The Trustees of the University of Pennsylvania. Autoclave. 2,871,109, 1-27-59, Cl. 23-290.
- Snyder, Leonard L., to Backflow Engineering & Equipment Co. Backflow preventer. 2,893,414, 7-7-59, Cl. 137-116.
- Snyder, Leonard S., and W. M. Wittenberg, to International Business Machines Corp. Flexible electronic commutator. 2,872,110, 2-3-59, Cl. 235-61.
- Snyder, Leonard W.: *See*—  
Drnec, Harry F., Snyder, and Johnson. 2,900,123.



- Snyder, Linden E.: *See*—  
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Snyder, Martin J. Pipe leakage detector. 2,918,033,  
12-22-59, Cl. 116—114.  
Snyder, Richard L. Saturable reactance flip-flop device.  
2,886,790, 5-12-59, Cl. 336—155.  
Snyder, Richard L., Jr. Switch devices. 2,901,731, 8-25-59,  
Cl. 340—174.  
Snyder, Robert E., and C. B. Taylor, to Chiksan Co. Plural  
conduit swivel coupling. 2,910,309, 10-27-59, Cl. 285—41.  
Snyder, Robert H.: *See*—  
Shine, Henry J., and Snyder. 2,881,185.  
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for textile fiber drafting apparatus. 2,905,977, 9-29-59,  
Cl. 19—131.  
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washer pump. 2,901,977, 9-1-59, Cl. 103—50.  
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ducing mottled sheet material. 2,908,042, 10-13-59, Cl.  
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Snyder, Verne D. High vacuum leak detector. 2,884,591,  
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Kissinger, Arthur Y., and Snyder. 2,875,651.  
Soares, Joaquim P. Marquees and similar devices. 2,875,825,  
3-3-59, Cl. 160—62.  
Sobel, Melvin: *See*—  
Jarvis, Edgar A. 2,879,005.  
Sobel Metal Products, Inc.: *See*—  
Sobel, Morton. 2,908,913.  
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2,908,913, 10-20-59, Cl. 2—260.  
Sobel, Morton J. Adjustable belt. 2,916,742, 12-15-59, Cl.  
2—322.  
Sobgov, Harold, and J. L. Borden, to The Perkin-Elmer Corp.  
Differential radiation absorption measurement system.  
2,904,687, 9-15-59, Cl. 250—43.5.  
Sobisch, Johannes, to Anker-Werke Akt. Marking device for  
the production of data carriers. 2,886,107, 5-12-59, Cl.  
164—113.  
Sobisch, Johannes, and A. Krüger, to Anker-Werke Aktiengesellschaft. Record-car conveying apparatus in account-  
ing machines. 2,915,962, 12-8-59, Cl. 101—19.  
Soble, Harry Z., to Super Laundry Machinery Co. Ironer.  
2,881,542, 4-14-59, Cl. 38—59.  
Soboleski, Henry J. Eyeglass cleaner. 2,870,029, 1-20-59,  
Cl. 106—5.  
Soc. ACC, Emanuel G. & R., Emanuel & C.: *See*—  
Emanuel, Roberto. 2,881,459.  
Soc. p. Az. Ottico Meccanica Italiana e Rilevamenti  
Aerofotogrammetrici: *See*—  
Parenti, Gino. 2,907,623.  
Soc. per Az. Edoardo Weber-Fabbrica Italiana Carburatori:  
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Bellicardi, Francesco. 2,868,185.  
Sochor, Joseph J.: *See*—  
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Söchting, Franz: *See*—  
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Söchting, Herbert and F., to Hoerbiger & Co. Stepless  
delivery governors for displacement compressors.  
2,907,344, 10-6-59, Cl. 137—522.  
Societa Applicazioni Gomma Antivibranti: *See*—  
Boschi, Antonio. 2,869,811.  
Societa Applicazioni Gomma Antivibranti "S.A.G.A." Societa  
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Boschi, Antonio. 2,884,872.  
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Alberti, Carlo G., and Vercellone. 2,903,392.  
Camerino, Bruno, and Vercellone. 2,880,141.  
Di Marco, Aurelio, and Spalla. 2,886,490.  
Societa Generale per l'Industria Mineraria e Chimica: *See*—  
Ercoli, Raffaele. 2,911,422.  
Societa Italiana Prodotti Schering: *See*—  
Galimberti, Paolo. 2,902,509.  
Societa Italiana Resine: *See*—  
Rovelli, Nino. 2,897,239.  
Societa Nazionale Prodotti Chimici e Farmaceutici Farma-  
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Stephan, Aimée. 2,908,218.  
Societa per Azioni Fabbriche Fiammiferi ed Affini: *See*—  
Villoresi, Camillo. 2,896,692.  
Villoresi, Camillo. 2,916,080.  
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Societa Rhodiatoce S. p. A.: *See*—  
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Societe a Responsabilite Limitee dite: G.O.L.: *See*—  
Busseuil, Henri. 2,917,057.  
Societe a Responsabilite Limitee dite: Johannes Freres:  
*See*—  
Terrie, Paul F. 2,916,997.  
Societe a Responsabilite Limitee dite: Societe Gram-Electric:  
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Trottier, Jean E. 2,894,148.  
Societe a Responsabilite Limitee Recherches Etudes Produc-  
tion, R.E.P.: *See*—  
Boulet, Georges. 2,898,103.  
Boulet, Georges. 2,901,243.  
Lucien, René. 2,880,014.  
Lucien, Rene. 2,887,125.  
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Poclaim: *See*—  
Chatrenet, Andre. 2,889,643.  
Societe a responsabilite limitee: "Societe des Mecaniques  
Verdol": *See*—  
Sage, Paul. 2,873,570.  
Societe Alsacienne de Constructions Mecaniques: *See*—  
Audemar, Pierre. 2,889,851.  
Douchet, Florimond A. J. 2,897,852.  
Miesch, Camille, and Baumann. 2,890,495.  
Societe Anonyme Andre Citroen: *See*—  
Brueder, Antoine. 2,872,235.  
Brueder, Antoine. 2,877,787.  
Brueder, Antoine. 2,878,056.  
Brueder, Antoine. 2,884,258.  
Brueder, Antoine. 2,888,121.  
Brueder, Antoine. 2,888,912.  
Brueder, Antoine. 2,895,460.  
Brueder, Antoine. 2,895,745.  
Brueder, Antoine. 2,896,195.  
Brueder, Antoine. 2,897,906.  
Brueder, Antoine. 2,898,430.  
Brueder, Antoine. 2,900,966.  
Brueder, Antoine. 2,906,247.  
Brueder, Antoine. 2,908,359.  
Societe Anonyme Ateliers de Constructions Electriques de  
Charleroi: *See*—  
Brasseur, Eudore. 2,901,550.  
Societe Anonyme Cartoucherie Francaise: *See*—  
Dufour, René, Verron, and Le Magoarou. 2,867,570.  
Societe Anonyme "Cockerill-Ougree": *See*—  
Boelens, Edgard. 2,888,255.  
Societe Anonyme: Compagnie Industrielle des Piles Electri-  
ques Cipel: *See*—  
Portail, Fernand. 2,869,064.  
Societe Anonyme de l'Ancienne Maison Devaud, Kunstle  
& Co.: *See*—  
Devaud, Charles. 2,894,511.  
Societe Anonyme de la Papeterie de Chateaufort-La-Forêt:  
*See*—  
Breton, Paul. 2,902,199.  
Societe Anonyme de Telecommunications: *See*—  
Lebedinsky, Myron. 2,904,725.  
Verges, Paul F., and Mayet. 2,914,280.  
Societe Anonyme de Vehicules Industriels et d'Equipements  
Mechaniques (Saviem LRS): *See*—  
Jouachim, Raymond. 2,890,628.  
Societe Anonyme de Vehicules Industriels et d'Equipements  
Mechaniques (Saviem Lrs): *See*—  
Sourdillon, André. 2,869,532.  
Societe Anonyme des Anciens Etablissements: *See*—  
Berthiez, Frederick C. G. 2,882,758.  
Societe Anonyme des Anciens Etablissements Charles  
Berthiez: *See*—  
Berthiez, Frederick C. G. 2,893,273.  
Berthiez, Frederick C. G. 2,912,875.  
Societe Anonyme des Anciens Etablissements Panhard et  
Levassor: *See*—  
Panhard, Paul. 2,868,335.  
Panhard, Paul. 2,904,326.  
Societe Anonyme des Chaux et Ciments de La Farge et du  
Teil: *See*—  
Colin, Jules. 2,880,870.  
Societe Anonyme des Laboratoires du Dr. Debat: *See*—  
Debat, Jacques, and Polgar. 2,900,100.  
Societe Anonyme des Laboratoires Robert & Carriere: *See*—  
Carron, Maurice C. E., and Jullien. 2,915,431.  
Societe Anonyme des Manufactures des Glaces et Produits  
Chimiques de Saint-Gobain, Chauny & Cirey: *See*—  
Blanchard, Louis. 2,872,290.  
Chan, Andre D. H., and Lambert. 2,910,807.  
Charcuset, Raymond, and Moyrand. 2,913,148.  
Cherrier, Claude M. 2,899,275.  
Courtier, Armand J. 2,868,789.  
Courtier, Armand J. 2,893,924.  
Crauland, Marc J. L. 2,910,452.  
Dupont, Paul. 2,871,575.  
Hainke, Georg. 2,873,556.  
Heymès, Pierre R. 2,875,557.  
Heymes, Pierre R., and Pergent. 2,909,871.  
Heymes, Pierre R., and Peches. Re. 24,708.  
Provoost, Marguerite E. M. J. 2,872,482.  
Societe Anonyme des Usines Chausson: *See*—  
Chausson, André. 2,870,660.  
Chausson, André. 2,899,124.  
Chausson, André. 2,899,125.  
Societe Anonyme dite: Ateliers Boriguand & Marre: *See*—  
Becker, Philippe. 2,906,387.  
Societe Anonyme dite: Ateliers de Constructions Electriques  
de Charleroi: *See*—  
Baffrey, Antoine R. 2,876,325.  
Societe Anonyme dite: Compagnie de Construction Mecanique  
Procedes Sulzer: *See*—  
Fehr, Henri. 2,867,127.  
Societe Anonyme dite: Compagnie Francaise de Raffinage:  
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Quiquerez, Joseph, and Weisang. 2,918,426.  
Societe Anonyme dite Compagnie Generale de Metrologie:  
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Friedrichs, Georges. 2,902,651.



- Societe Anonyme dite: Comptoir Industriel d'Etirage et Profilage de Metaux: *See—*  
Sejournet, Jacques. 2,907,454.
- Societe Anonyme dite: Erbede: *See—*  
Brochard, Raymond A. H. 2,884,104.
- Societe Anonyme dite: Etablissements Cazeneuve: *See—*  
Bruet, Henri R. 2,903,232.
- Societe Anonyme dite: Fruehauf: *See—*  
Godville, Francois. 2,913,999.
- Societe Anonyme dite: Generale Thermique-Procédes Brola: *See—*  
Brola, Gabriel. 2,901,032.
- Société Anonyme dite: Geoffroy-Delore: *See—*  
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- Societe Anonyme dite: "La Charfa": *See—*  
Augery, Jean, and Bonisset. 2,868,157.
- Societe Anonyme dite: Pleyel: *See—*  
Ballet, Leon R. 2,917,962.
- Societe Anonyme dite: Pneumatiques & Caoutchouc Manufacture Kleber Colombes: *See—*  
Thibault, Bernard P. 2,911,236.
- Societe Anonyme dite: Societe Auxiliaire de l'Entreprise "Auxen": *See—*  
Bernad, Jacques J., Novion, and Lablache-Combier. 2,870,925.
- Societe Anonyme dite: Societe de Mecanographie Japy: *See—*  
Becker, Philippe. 2,906,387.
- Societe Anonyme dite: Societe des Grands Travaux de Marseille: *See—*  
Chalos, Marcel. 2,901,799.
- Societe Anonyme dite: Societe des Produits Chimiques de Bezons: *See—*  
Roussos, Michel, and Bourgeois. 2,897,243.
- Societe Anonyme dite: Societe Generale Isothermos: *See—*  
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- Société Anonyme dite Societe Monsavon-L'Oreal: *See—*  
Charle, Roger, and Lantz. 2,904,385.
- Societe Anonyme Etablissements Ed. Jaeger: *See—*  
Fauvelot, Pierre E. R. 2,872,601.
- Societe Anonyme Etablissements Labinal: *See—*  
Bessiere, Pierre E. 2,900,594.  
Bessiere, Pierre E. 2,903,610.
- Societe Anonyme Fonderies Chokier: *See—*  
Pinchon, Michel P. A. 2,904,858.
- Societe Anonyme Francaise du Ferodo: *See—*  
Maurice, Jean, and Rist. 2,876,879.  
Maurice, Jean and Rist. 2,878,642.  
Maurice, Jean, and Rist. 2,880,831.  
Maurice, Jean, and Rist. 2,896,732.  
Maurice, Jean, and Rist. 2,897,933.  
Maurice, Jean, and Rist. 2,907,433.  
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Maurice, Jean, and Rist. 2,914,151.
- Societe Anonyme Geoffroy-Delore: *See—*  
Haugwitz, Otto. 2,894,737.  
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Haugwitz, Otto. 2,914,897.
- Societe Anonyme Hyperion: *See—*  
De Caumont, Albert S. 2,917,650.
- Societe Anonyme Pour les Applications de l'Electricite et des Gaz Rares-Etablissements Claude-Paz & Silva: *See—*  
Delrieu, Pierre. 2,879,427.  
Lemaigre-Voreaux, Pierre. 2,873,217.  
Lemaigre-Voreaux, Pierre. 2,874,325.  
Tailleferre, Henri. 2,873,761.
- Societe Anonyme Procédes Sauter: *See—*  
Boegle, Charles. 2,898,739.
- Société Anonyme R. Alkan & Cie: *See—*  
Savarieau, Henri. 2,888,294.
- Societe Anonyme Schobesta: *See—*  
Devaux, Raymond H. P. 2,881,819.
- Societe Anonyme Union Francaise Commerciale et Industrielle: *See—*  
Webb, Edwin T., and Seemuller. 2,870,223.
- Societe Anonyme Usines Emile Henricot: *See—*  
Fobelets, Paul L. 2,876,957.
- Societe Auxiliaire d'Industries (Sadi) S. P. R. L.: *See—*  
Georges, Félix. 2,875,601.
- Societe Belge de l'Azote et des Produits Chimiques du Marly: *See—*  
Braconier, Frederic F. A., Le Bihan, and Arnould. 2,876,265.  
De Rycker, Henry G. E. L., and Mathieu. 2,887,365.
- Societe Belge d'Electrochimie, Societe Anonyme: *See—*  
Soetaert, Gustave. 2,900,233.
- Societe Belge Prat-Daniel, Societe Anonyme: *See—*  
Roujob, Léopold A. G. 2,871,973.
- Societe Chimiotex: *See—*  
Brepson, Roland. 2,894,386.
- Societe Chimique de La Grande Paroisse, Azote et Produits Chimiques: *See—*  
Jean, Marcel. 2,910,350.
- Societe Chimique et Routiere de la Gironde: *See—*  
Ceintrey, Marcel. 2,886,458.
- Societe Commerciale Eca: *See—*  
Ecary, Charles A. 2,893,248.
- Societe d'Appareils de Controle et d'Equipement des Moteurs S.A.C.E.M.: *See—*  
Mennesson, André L. 2,916,204.
- Societe d'Application des Gaz, Produits Routiers et Materiaux: *See—*  
Corlet, Gabriel F. 2,890,815.
- Societe d'Applications Generales d'Electricite & de Mecanique: *See—*  
Jacob, Raymond, and Masson. 2,894,106.  
Rabeux, Jean, and Jacob. 2,913,799.  
Rabeux, Jean, and Masson. 2,893,439.
- Societe d'Applications Generales d'Electricite et de Mecanique S.A.G.E.M.: *See—*  
Augier de Cremiers, Bernard. 2,912,865.
- Societe de l'Institut de Serotherapie: *See—*  
Maier-Huser, Hans, and Bourrillon. 2,894,875.
- Societe de Prospection Electrique Procédes Schlumberger: *See—*  
Picard, Maxime F. B. 2,873,804.
- Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries d'Uzine: *See—*  
Lamberton, Jean, and de Lacheisserie. 2,873,237.
- Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Uzine: *See—*  
Borrel, Marcel, Weiss, and Chatelin. 2,890,101.  
Cogniat, Marcel, de Fromont, and Serratrice. 2,896,452.  
Foulletier, Louis, and Dassaud. 2,897,064.  
Greffé, André. 2,885,280.  
Guillemier, Pierre L. E. 2,889,811.  
Thermet, Robert, and Parvi. 2,890,250.  
Thermet, Robert, and Parvi. 2,919,296.
- Societe d'Electronique et d'Automatisme: *See—*  
Hanlet, Jacques M. N. 2,880,117.  
Hanlet, Jacques M. N. 2,883,582.  
Hanlet, Jacques M. N. 2,917,442.  
Hanlet, Jacques M. N. 2,919,377.  
Martin, Jacques E. 2,895,046.  
Piel, Gerard J. R., and Dussine. 2,867,380.  
Raymond, Francois H., and Albin. 2,901,605.  
Raymond, Francois H., Chapouille, and Martin. 2,896,082.  
Raymond, Francois H., and Dussine. 2,894,687.  
Raymond, Francois H., and Lilamand. 2,897,359.
- Societe d'Equipements Industriels et Laitiers: *See—*  
Albert, Franz, and Hubner. 2,888,212.  
Hubner, Gustav, and Albert. 2,888,213.  
Schneider, Ernst W. 2,889,118.
- Societe des Acieries de Longwy (Societe Anonyme): *See—*  
Burstlein, Eugene M. 2,868,378.
- Societe des Agrafes Francaises & d'Articles Metalliques (Societe Anonyme): *See—*  
Rigaud, Maurice. 2,888,288.
- Societe des Blancs de Zinc de la Mediterranee Eng. Chabaury, Pierre Gindre & Cie: *See—*  
Gregoire, Ferdinand A. A. 2,905,530.
- Societe des Forges et Ateliers du Creusot: *See—*  
Bastien, Paul G. 2,895,861.  
Correc, Henri. 2,870,680.  
Fevre, Charles M. 2,897,375.  
Guerin, Jacques C. 2,898,132.  
Lewin, Léon. 2,904,963.  
Nectoux, Henri. 2,905,056.
- Societe des Raffineries & Sucreries Soy: *See—*  
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- Societe des Usines Chimiques Rhone-Poulenc: *See—*  
Bo, Gilbert M. M., Fournet, Phelisse, and Fichet. 2,884,409.  
Chevalier, Pierre J. 2,909,552.  
Collardeau, Georges, and Tourniaire. 2,908,602.  
Funke, Albert. 2,887,484.  
Gailliot, Paul, and Debarre. 2,898,336.  
Gailliot, Paul, and Gaudechon. 2,892,839.  
Gailliot, Paul, Robert, and Gaudechon. 2,891,952.  
Horclois, Raymond J. 2,902,484.  
Horclois, Raymond J. 2,902,485.  
Jacob, Robert M., and Fouche. 2,872,453.  
Jacob, Robert M., and Horclois. 2,882,274.  
Jacob, Robert M., and Horclois. 2,905,668.  
Jacob, Robert M., Horclois, and Suau. 2,908,683.  
Jacob, Robert M., and Joseph. 2,916,493.  
Jacob, Robert M., and Regnier. 2,888,459.  
Jacob, Robert M., and Regnier. 2,889,322.  
Jacob, Robert M., and Regnier. 2,894,947.  
Jacob, Robert M., and Regnier. 2,909,521.  
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Lafumas, Paul, and Cerezat. 2,868,804.  
Metivier, Jean. 2,877,155.  
Metivier, Jean. 2,905,700.  
Normant, Henri. 2,916,520.  
Normant, Henri, and Perrin. 2,915,566.  
Partchevsky, Anastasie, and Evieux. 2,891,248.
- Societe d'Etude et d'Application Industrielle de Brevets (S.E.A.B.): *See—*  
Aubin, Claude. 2,917,879.
- Societe d'Etudes Chimiques Pour l'Industrie et l'Agriculture: *See—*  
Lafont, Jacques. 2,882,128.  
Lafont, Jacques. 2,900,232.  
Lafont, Jacques. 2,906,603.  
Rubin, Maurice, and Hulot. 2,905,529.
- Societe d'Etudes, de Gestion et d'Exploitation de Brevets, S. E. G. E. B., J. Branche & Cie: *See—*  
Bianchi, Guiseppina, and Rose. 2,868,561.  
Meyer, Robert, and Pillon. 2,870,206.



- Societe d'Etudes et de Construction d'Appareils de Securite J.R.G.: *See—*  
Faugier, Gabriel. 2,918,136.
- Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S.A.: *See—*  
Huber, Robert. 2,879,640.  
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Huber, Robert. 2,912,964.
- Societe d'Etudes et d'Applications Biochimiques: *See—*  
Laboureur, Pierre. 2,897,148.
- Societe d'Etudes et d'Applications de Procèdes Nouveaux: *See—*  
Tchoubritsch, Michel, and Terroir. 2,899,686.
- Societe d'Etudes et d'Applications Industrielles Commerciales et Immobilières "Inter-Technique": *See—*  
Dufresne, Albert L. 2,912,963.  
Palys, Lucien. 2,896,757.
- Societe d'Exploitation de Procèdes Mecaniques Mecaproder: *See—*  
Ricouard, Henri L. G. 2,914,127.
- Societe d'Exploitation des Plastiques: *See—*  
Thiebault, Bernard. 2,916,790.
- Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M.: *See—*  
Lucien, Rene. 2,875,861.  
Lucien, René, and Legros. 2,868,338.
- Societe d'Optique et de Mecanique de Haute Precision: *See—*  
Rosier, Raymond. 2,897,724.
- Societe du Carburateur Zenith: *See—*  
Demtchenko, Basile. 2,915,976.
- Societe en commandite simple et en nom collectif a l'egard de Gerants dite: Societe Industrielle et Commerciale des Ouvriers Lunetiers (Cottet, Poichet, Tagnon & Cie): *See—*  
Cretin-Maitenaz, Bernard. 2,869,422.
- Societe financiere d'Expansion Commerciale et Industrielle S.A. "Sfindex": *See—*  
Widmer, Hans U. 2,904,879.
- Societe Financiere et Industrielle pour la fabrication de l'Acide Carbonique Pur et autres Produits alimentaires par abreviation: l'Acide Carbonique Pur: *See—*  
Wei, Pierre. 2,888,276.
- Societe Francaise de Construction d'Appareils Medicaux: *See—*  
Fourés, André G. F., Girard, and De Montard. 2,867,209.
- Societe Francaise de Recherches Biochimiques H. Besson & Cie. (Societe en Commandite par Actions): *See—*  
Debay, Andre, and Sackur. 2,899,449.
- Societe Francaise Sadir-Carpentier: *See—*  
Zisler, Siegfried, and Dubost. 2,871,472.
- Societe Franterre: *See—*  
Augustin, Jean. 2,919,260.
- Societe Generale de Construction Electriques et Mecaniques: *See—*  
Deniau, André J. A. 2,875,399.
- Societe Generale de Mecanique et de Metallurgie: *See—*  
Du Coudrey, Jacques F. 2,875,661.
- Societe Generale d'Electronique: *See—*  
Auphan, Michel. 2,906,637.  
Auphan, Michel. 2,910,532.
- Societe Genevoise d'Instruments de Physique: *See—*  
Koulicovitch, Miron. 2,882,420.  
Mortu, Andre. 2,896,462.
- Societe Gramme: *See—*  
Trottier, Jean E. 2,887,589.
- Societe Industrielle de Liaisons Electriques (S.I.L.E.C.): *See—*  
Malaquin, Andre. 2,916,280.
- Societe Industrielle de Sonceboz S.A. Horlogerie Industrielle et Appareils et Instruments Electriques: *See—*  
Müller, Willi. 2,897,384.
- Societe Industrielle et Commerciale des Ouvriers Lunetiers (Cottet, Poichet, Tagnon & Cie): *See—*  
Cretin-Maitenaz, Bernard. 2,915,856.
- Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A.: *See—*  
Pomper, Victor. 2,886,948.
- Societe Jaruza A.G. Chur: *See—*  
Dru, Marcel R. 2,889,043.
- Societe Le Carbone-Lorraine: *See—*  
Hilliard, Alfred. 2,887,304.
- Societe les Construction Guinard: *See—*  
Mathieu, Francois J. H. 2,870,912.
- Societe Luxembourgeoise de Brevets et de Participations Lubrepa: *See—*  
Paulsen, Jean F. 2,893,665.
- Societe Marocaine de Recherches, d'Etudes et de Developpements "Sonarede": *See—*  
Honore, Etienne, and Torcheux. 2,914,250.
- Societe Mediterranee Metallurgique Miniere et Commerciale: *See—*  
Badin, Ferdinand. 2,895,580.
- Societe Nationale de Constructions Aeronautiques du Sud-Ouest: *See—*  
Servanty, Lucien. 2,892,602.  
Servanty, Lucien. 2,911,618.
- Societe Nationale d'Etude et de Construction de Moteurs d'Aviation: *See—*  
Frenzl, Otto. 2,914,941.  
Gelin, Paul, and Kadosch. 2,914,916.  
Kadosch, Marcel, and Bertin. 2,906,089.  
Kadosch, Marcel, Le Foll, Maunoury, and Bertin. 2,868,479.  
Kadosch, Marcel, Paris, Bertin, and Marchal. 2,875,578.  
Paris, Francois G., Salmon, Mihail, Baraut, and Bertin. 2,878,790.  
Richter, Gerhard. 2,914,911.
- Societe Nobel Francaise: *See—*  
Talet, Pierre A. 2,886,557.
- Societe Nouvelle Bael-Gangloff: *See—*  
Duhamel, Eugene, and Stephan. 2,903,746.
- Societe Nouvelle de Construction de Machines-Outils et d'Outils Procèdes C.W.B.: *See—*  
Berthiez, Charles W. 2,897,706.  
Berthiez, Charles W. 2,912,905.
- Societe Nouvelle de l'Outils R.B.V. et de La Radio-Industrie: *See—*  
Donnay, Jacques R. 2,911,467.  
Ernye, Herbert, and Simond-Cote. 2,908,753.  
Labin, Edouard. 2,913,620.  
Tarbes, Pierre. 2,875,308.
- Societe Nouvelle de l'Outils R. B. V. et de la Radio-Industrie (R.B.V.-R.I.): *See—*  
Donnay, Jacques R. 2,872,509.  
Donnay, Jacques. 2,875,276.  
Ernye, Herbert. 2,881,394.  
Feysau, Andre L. A. 2,890,280.
- Societe Nouvelle de Tuyoux Flexibles et de Forge (S. N. T. F.): *See—*  
Electroforge: *See—*  
Francois, Marcel. 2,879,803.
- Societe Nouvelle Diény & Lucas: *See—*  
Crevoisier, Marcel. 2,918,009.
- Societe Parisienne de Constructions Electromecaniques (S.O.P.A.C.E.M.): *See—*  
Wrobel, Kurt. 2,915,268.
- Societe Peugeot & Cie: *See—*  
Deliot, Maurice J. 2,873,735.
- Societe Plastus S.A.: *See—*  
Steiner, Maurice. 2,899,709.
- Societe Preparation Industrielle des Combustibles: *See—*  
Turpin, Jacques. 2,889,045.
- Societe Rateau (Societe Anonyme): *See—*  
Anxionnaz, René. 2,874,711.
- Societe Rhodiacta: *See—*  
Clere, Andre. 2,869,797.  
Fleuret, Marcel. 2,898,728.  
Guyonnet, Yves H. 2,893,812.  
Lepin, Maurice. 2,895,843.
- Societe Rhovyl: *See—*  
Calizzano, Pierre. 2,917,775.
- Societe Sebac Nouvelle S.A.: *See—*  
Coanda, Henri. 2,907,557.
- Societe Technique d'Application et de Recherche Electronique S.T.A.R.E.C.: *See—*  
Choquer, Jean, and Weissfloch. 2,895,133.
- Societe Technique de Recherches Industrielles et Mecaniques: *See—*  
Précoul, Michel. 2,897,714.
- Societe Technique pour l'Industrie Nouvelle S.A. (Stin): *See—*  
Vogt, Ernst, and Diemer. 2,895,103.
- Societe Triflux: *See—*  
Daniel, Georges H. M. 2,882,451.
- Society "Brinro Limited": *See—*  
Menke, Joseph F., and Doeringhaus. 2,880,672.  
Menke, Joseph, and Doeringhaus. 2,882,823.
- Societe Conte: *See—*  
Fleck, Marian. 2,879,544.
- Socke, John E., to American Can Co. Carrier for containers. 2,882,087, 4-14-59, Cl. 294-87.2.
- Socke, John E., to American Can Co. Can body side seam cooling and spraying apparatus. 2,906,239, 9-29-59, Cl. 118-316.
- Sockell, William J. Journal box lubricator. 2,884,289, 4-28-59, Cl. 308-243.
- Sockman, Loy W. Metal flaw detection liquid. 2,871,697, 2-3-59, Cl. 73-104.
- Socony Mobil Oil Co., Inc.: *See—*  
Andress, Harry J., Jr. 2,867,515.  
Aronofsky, Julius S., Wallick, and Reichertz. 2,867,116.  
Becker, Myron, Giammaria, and Oberright. 2,902,353.  
Bergstrom, Eric V. 2,868,721.  
Bergstrom, Eric V. 2,870,088.  
Bergstrom, Eric V. 2,880,981.  
Bergstrom, Eric V. 2,884,372.  
Bergstrom, Eric V., and Drew. 2,873,144.  
Bergstrom, Eric V., and Drew. 2,880,038.  
Bergstrom, Eric V., Drew, and Mitchell. 2,873,177.  
Bergstrom, Eric V., and Sorf. 2,897,139.  
Bergstrom, Eric V., and Sorf. 2,902,438.  
Bloch, Morton G., Houser, and King. 2,904,496.  
Bonner, Tom W., and Caldwell. 2,905,826.  
Bourguet, Jean M., Drew, and Ray. 2,901,421.  
Bowles, Vernon O. 2,877,099.  
Bowles, Vernon O. 2,880,980.  
Bowles, Vernon O. 2,903,415.  
Bradley, John S., V. Otto, and Seger. 2,916,454.



- Socony Mobil Oil Co., Inc.: *See*—Continued  
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 Broding, Robert A. 2,905,258.  
 Brooks, Frank W., Jr., and Duval. 2,868,722.  
 Brooks, Frank W., Jr., and Sharpless. 2,879,227.  
 Brooks, John W. 2,895,978.  
 Burdine, Nathan T. 2,913,658.  
 Butcosk, Richard A. Re. 24,681.  
 Carmody, Raymond F. 2,884,390.  
 Carmody, Raymond F. 2,887,459.  
 Ciapetta, Frank G. 2,914,461.  
 Ciapetta, Frank G., Coonradt, and Garwood. 2,885,352.  
 Ciapetta, Frank G., Koft, and Meisel. 2,876,268.  
 Collins, Robert R. 2,897,936.  
 Cramer, Robert H. 2,910,444.  
 Cramer, Robert H., and Jenkins. 2,898,306.  
 Dobrin, Milton B. 2,882,988.  
 Drew, Robert D. 2,880,037.  
 Dunlap, Irving R., and Patchen. 2,878,875.  
 Edwards, Roy T., and Rittershausen. 2,906,712.  
 Elliott, Kenneth M. 2,870,083.  
 Elliott, Kenneth M. 2,886,516.  
 Elliott, Kenneth M., and Evans. 2,886,507.  
 Elliott, Kenneth M., and Hamilton. 2,898,288.  
 Ely, John O. 2,908,823.  
 Ely, John O., Summers, and Karal. 2,889,001.  
 Evans, Louis P. 2,885,099.  
 Evans, Louis P. 2,885,338.  
 Fahnestock, Frank C. 2,868,720.  
 Gournay, Luke S. 2,871,367.  
 Giammaria, John J. 2,902,354.  
 Groenendyke, Goethe M. 2,867,775.  
 Groenendyke, Goethe M. 2,912,673.  
 Halik, Raymond R. 2,883,334.  
 Halik, Raymond R., and Hill. 2,898,292.  
 Hill, Donald F. 2,899,383.  
 Kipps, Harry J. 2,890,175.  
 Krehma, Ludwig C. 2,878,650.  
 Liddy, Clarence. 2,874,186.  
 Liddy, Clarence. 2,878,187.  
 Loper, George B. 2,912,672.  
 Loper, George B., and Pittman. 2,871,089.  
 Magin, Kenneth E., and Stuewer. 2,889,271.  
 Oleck, Stephen M. 2,884,382.  
 Overton, William C., Jr. 2,878,886.  
 Payne, John W. 2,879,903.  
 Payne, John W. 2,885,100.  
 Payne, John W., Ray, and Shea. 2,873,147.  
 Penick, Joe E. 2,904,506.  
 Rees, N. John. 2,885,190.  
 Rees, Norman J., and Zeuthen. 2,909,392.  
 Richards, David C. Re. 24,709.  
 Rosinski, Edward J. 2,905,633.  
 Samples, Cletus H. 2,901,058.  
 Savoca, Joseph I., and Ellis. 2,880,170.  
 Schott, John E. 2,871,191.  
 Schott, John E. 2,898,297.  
 Schwartz, Albert B. 2,900,349.  
 Schwartz, Albert B. 2,914,486.  
 Shea, Howard W. 2,904,518.  
 Sorf, Edward R. J. 2,881,135.  
 Summers, Gerald C., and Gravley. 2,897,478.  
 Watkins, Thomas E. 2,871,188.  
 Watkins, Thomas E. 2,876,197.  
 Watkins, Thomas E., and Foster. 2,875,835.  
 Weekman, Vern W., Jr. 2,871,182.  
 Weisz, Paul B. 2,892,003.  
 Weisz, Paul B. 2,902,435.  
 Wilki, John L. 2,903,420.
- Socony-Vacuum Oil Co., Inc.: *See*—  
 Holzinger, Rudolph J. 2,902,452.  
 Soddy, Thomas C., to Chicago Railway Equipment Co. Railway car side door operating gear. 2,879,558, 3-31-59, Cl. 20—23.  
 Soddy, Thomas C., to Chicago Railway Equipment Co. Refrigerator car door structure. 2,901,783, 9-1-59, Cl. 20—21.  
 Soden, William E.: *See*—  
 Connell, Leo F., Elkin, and Soden. 2,899,385.  
 Soder, Edward P., Jr., to Outboard, Marine & Mfg. Co. Fuel economizing speed control for engines. 2,906,251, 9-29-59, Cl. 123—99.  
 Soder, Robert C., to General Electric Co. Room air conditioner condensate disposal means. 2,887,854, 5-26-59, Cl. 62—280.  
 Soderbaum, Carl G., to Telefonaktiebolaget L M Ericsson. Telephone installation. 2,895,007, 7-14-59, Cl. 179—1.  
 Söderbaum, Carl G., to Telefonaktiebolaget L M Ericsson. Selective switch for telephone instruments in intercommunicating telephone systems. 2,905,766, 9-22-59, Cl. 179—90.  
 Söderberg, Bengt A.: *See*—  
 Hestvik, Ole A., Ölin, Salmén, and Söderberg. 2,914,259.  
 Soderberg, John W.: *See*—  
 Kearney, John F., and Soderberg. 2,892,995.  
 Soderberg, Sten, to Leslie Co. Pressure regulating system for bearings, and the like. 2,880,673, 4-7-59, Cl. 103—11.  
 Soderberg, Sten, and S. Schiller, to Leslie Co. Pilot control regulator. 2,917,268, 12-15-59, Cl. 251—35.  
 Soderberg, Walter E. Mallet for playing percussion musical instrument. 2,905,043, 9-22-59, Cl. 84—422.
- Soderhamn Machine Mfg. Co.: *See*—  
 Dillingham, Frederick L. 2,867,252.  
 Dillingham, Frederick L. 2,870,899.  
 Gaitten, Walden M. 2,916,064.  
 Soderhamns Verkstad Aktiebolag: *See*—  
 Brundell, Per G., and Jonsson. 2,893,453.  
 Brundell, Per G., and Jonsson. 2,903,028.  
 Soderquist, Frederick J., and J. L. Amos, to The Dow Chemical Co. Method for the preparation of ortho-vinyltoluene. 2,909,573, 10-20-59, Cl. 260—669.  
 Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Tire removing mechanism for diaphragm presses. 2,911,670, 11-10-59, Cl. 18—2.  
 Söderström, Sten. Heat exchanger. 2,870,997, 1-27-59, Cl. 257—237.  
 Söderström, Sten H. Heat exchange element. 2,870,999, 1-27-59, Cl. 257—262,20.  
 Sod-Master Corp.: *See*—  
 Ditter, Francis J. 2,905,253.  
 Soennecken, F.: *See*—  
 Bonn, Mathias. 2,894,400.  
 Gempe, Erich, and Heimlich. 2,894,513.  
 Stark, Walter. 2,871,711.  
 Soetaert, Gustave, to Societe Belge d'Electrochimie, Societe Anonyme. Process for the production of calcium cyanamide. 2,900,233, 8-18-59, Cl. 23—78.  
 Soffa, Albert, and F. W. Kulicke, Jr., to Walter S. Sachs & Co., Inc. Automatic folding and binding machine. 2,893,297, 7-7-59, Cl. 93—84.  
 Soffel, Robert O., to Bell Telephone Laboratories, Inc. Variable-frequency oscillator. 2,902,565, 9-1-59, Cl. 331—135.  
 Sofio, Anthony J., Sr. Necktie knot cover. 2,915,757, 12-8-59, Cl. 2—46.  
 Sofio, Edward G. Picking and shredding machine. 2,901,777, 9-1-59, Cl. 19—82.  
 Sogn, Harold J.: *See*—  
 Suendermann, Otto A., and Sogn. 2,913,264.  
 Sohlberg, Carl O.: *See*—  
 Alexandersson, Harald V., and Sohlberg. 2,887,539.  
 Sohn, Allen O.: *See*—  
 Simmons, Aldred J., and Sohn. 2,909,282.  
 Sohn, Hermann. Mixing device. 2,890,869, 6-16-59, Cl. 259—85.  
 Sohngen, Louis C., and J. J. Bulloff, to The Las-Stik Mfg. Co. Tar remover. 2,913,418, 11-17-59, Cl. 252—163.  
 Solfer, Oscar. Box spring with safe receptacle. 2,895,145, 7-21-59, Cl. 5—317.  
 Soileau, Leslie J. Sweet potato vine planter. 2,906,215, 9-29-59, Cl. 111—3.  
 Sokal, Andrew L., to L. O. F. Glass Fibers Co. Apparatus for coating textile strands. 2,911,941, 11-10-59, Cl. 118—11.  
 Sokolik, Edward. Device for stabilizing a violin. 2,902,895, 9-8-59, Cl. 84—280.  
 Sokoloff, Maurice A. Rug making attachment for sewing machines. 2,876,720, 3-10-59, Cl. 112—9.  
 Sokolov, David A., Columbia Broadcasting System, Inc., d.b.a. Hytron Radio & Electronic Co., a Division of Columbia Broadcasting System, Inc. Electron tube. 2,889,482, 6-2-59, Cl. 313—278.  
 Sola, John R.: *See*—  
 Hesse, Arno, Hedeon, and Sola. 2,871,897.  
 Sola, Joseph G., to Basic Products Corp. Transformer for starting and operating metallic vapor discharge devices. 2,870,398, 1-20-59, Cl. 323—61.  
 Sola, Samuel L., and K. Crocker, to Townsend Engineered Products Inc. Carrying kit. 2,875,010, 2-24-59, Cl. 312—200.  
 Sola, Santiago M. Foundation vent. 2,882,961, 4-21-59, Cl. 160—104.  
 Solak, John A. Telephone carriers and display racks. 2,907,507, 10-6-59, Cl. 224—45.  
 Soland, Hubert E., to Minneapolis-Honeywell Regulator Co. Apparatus for producing a negative elastic restraint. 2,894,395, 7-14-59, Cl. 74—5.6.  
 Solar Aircraft Co.: *See*—  
 Carlson, Paul G. 2,895,295.  
 Long, John V., and Furth. 2,889,238.  
 Long, John V., and Furth. 2,898,236.  
 Long, John V., and Furth. 2,900,276.  
 Solar Engineering & Equipment Co., The: *See*—  
 Vowles, Philip N. 2,882,818.  
 Solar, Samuel L., to International Business Machines Corp. Powder compositions useful as electroscopic toners. 2,917,460, 12-15-59, Cl. 252—62.1.  
 Solberg, Carl A. Carrying case for keys. 2,884,037, 4-28-59, Cl. 150—40.  
 Soldini, Robert B., and D. R. Camp. Mobile concrete batching mechanism. 2,867,336, 1-6-59, Cl. 214—2.  
 Solecki, John E., to Western Electric Co., Inc. Conveyors. 2,886,164, 5-12-59, Cl. 198—19.  
 Solem, Peter A. Endless bed type metal surface finishing machines. 2,913,853, 11-24-59, Cl. 51—5.  
 Soler Marti, Antonio, Juan, Jose, and M. Secret or combination lock. 2,886,962, 5-19-59, Cl. 70—306.  
 Soler Marti, Jose: *See*—  
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 Soler Marti, Juan: *See*—  
 Soler Marti, Antonio, Juan, Jose, and M. 2,886,962.  
 Soler Marti, Mario: *See*—  
 Soler Marti, Antonio, Juan, Jose, and M. 2,886,962.



- Soles, Otto H.: *See*—  
Schrameck, Jack E., and Soles. 2,919,316.
- Solheim, Karsten, to General Electric Co. Cabinet with integral tube mounting means. 2,870,438, 1-20-59, Cl. 340-367.
- Solheim, Karsten, to General Electric Co. Snap-on hinge for a container cover. 2,909,803, 10-27-59, Cl. 16-159.
- Solheim, Peder, to A/S Stord. Rotatable heating members for heat exchangers. 2,883,163, 4-21-59, Cl. 257-79.
- Solic, Harold L. Churn unloading means. 2,880,975, 4-7-59, Cl. 259-89.
- Solisch, Rudolf, to Isco Optische Werke G.m.b.H. Asymmetrical photographic or cinematographic objective with large angle of view. 2,878,724, 3-24-59, Cl. 88-57.
- Solisch, Rudolf, to Isco Optische Werke G.m.b.H. Photographic or cinematographic high-speed tele-objective. 2,910,914, 11-3-59, Cl. 88-57.
- Solisch, Rudolf, to Isco Optische Werke G.m.b.H. Photographic and cinematographic objective of large focal length. 2,913,956, 11-24-59, Cl. 88-57.
- Sollars, Ray C.: *See*—  
Solnick, Robert L., and Sollars. 2,904,958.
- Solley, Douglas A., Jr., and K. A. Robbie, to General Electric Co. Defrostable evaporator structure. 2,900,807, 8-25-59, Cl. 62-277.
- Sollman, Paul B.: *See*—  
Dodson, Raymond M., and Sollman. 2,882,281.  
Dodson, Raymond M., and Sollman. 2,882,283.  
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Dodson, Raymond M., and Sollman. 2,912,443.
- Sollman, Paul B. 6-methyl-17-hydroxy-21-halo-4,6-pregnadiene-3,20-diones and esters thereof. 2,894,008, 7-7-59, Cl. 260-397.47.
- Solmieding, Warren H. F.: *See*—  
Vogel, Arthur E. 2,886,342.
- Solnick, Robert L.: *See*—  
Lanier, William D., and Solnick. 2,882,996.
- Solnick, Robert L., and R. C. Sollars, to The Fluor Corp. Ltd. Spark and flame arrester. 2,904,958, 9-22-59, Cl. 60-30.
- Solo Cup Co.: *See*—  
Schult, Hans W. 2,912,282.
- Soloff, Milton, 1% to R. Wells. Ornamental plastic block. 2,917,856, 12-22-59, Cl. 41-10.
- Solomon, Charles. Change pocket for shirts and the like. 2,883,673, 4-28-59, Cl. 2-253.
- Solomon, Daniel. Frame for bags and the like. 2,887,138, 5-19-59, Cl. 150-28.
- Solomon, John W.: *See*—  
Croce, Santy M., and Solomon. 2,879,548.
- Solomon, Julius L., to Welding Research, Inc. Sequencing system for welding machines. 2,882,453, 4-14-59, Cl. 315-252.
- Solomon, Karl: *See*—  
Abbott, Roy C., and Solomon. 2,888,515.
- Solomon, Nathan L. Hair curlers. 2,884,932, 5-5-59, Cl. 132-42.
- Solomon, Nathan L. Platform curlers. 2,884,933, 5-5-59, Cl. 132-42.
- Solomon, Nathan L. One-piece moulded plastic brush. 2,889,567, 6-9-59, Cl. 15-114.
- Solomon, Paul W., to Phillips Petroleum Co. Dehydration of organic liquids. 2,909,572, 10-20-59, Cl. 260-666.
- Solomon, Ralph E., to Samuel Stamping & Enameling Co. Crate bottom for recessed gas and electric ovens. 2,895,695, 7-21-59, Cl. 248-119.
- Solomons, Isaiah A., III, to Chas. Pfizer & Co., Inc. Preparation of crystalline oxytetracycline salts. 2,915,555, 12-1-59, Cl. 260-559.
- Solonen, Nicholas W.: *See*—  
Randall, David I., and Solonen. 2,871,240.
- Solotorovskiy, Morris: *See*—  
Hinkley, David F. 2,889,226.
- Solow, Samuel: *See*—  
Roth, Harold, and Solow. 2,906,962.
- Solow, Samuel, to Allen B. Du Mont Laboratories, Inc. Brightness control circuit. 2,884,562, 4-28-59, Cl. 315-22.
- Solow, Sidney P., and R. H. Yamin. Identification leader for motion picture film. 2,898,805, 8-11-59, Cl. 88-19.5.
- Soloway, Harold: *See*—  
Shapiro, Seymour L., Freedman, and Soloway. 2,909,526.  
Shapiro, Seymour L., Freedman, and Soloway. 2,909,531.
- Soloway, Saul. Use of amidoximes in solvent extraction of metal ions from solution. 2,909,542, 10-20-59, Cl. 260-429.1.
- Soloway, Sidney, to Schlumberger Well Surveying Corp. Apparatus for controlling gas pressure. 2,880,373, 3-31-59, Cl. 315-108.
- Soloway, Sidney, to Schlumberger Well Surveying Corp. Refrigerating methods and apparatus. 2,893,213, 7-7-59, Cl. 62-4.
- Solsberg, Harry A.: *See*—  
Lindstrom, Walter A., and Solsberg. 2,901,818.
- Soltes, Elton D.: *See*—  
Bartlett, Joseph W., and Soltes. 2,890,941.
- Soltis, Daniel G., to Union Carbide Corp. Cathodic envelope cell. 2,870,235, 1-20-59, Cl. 136-111.
- Solum, James R.: *See*—  
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Wright, Kenneth A., and Solum. 2,881,840.  
Wright, Kenneth A., Solum, and Hempel. 2,881,839.
- Solux Corp.: *See*—  
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- Solvay & Cie: *See*—  
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Deprez, Charles. 2,868,712.  
Germano, Angelo. 2,905,609.  
Viriotti, Jacques. 2,898,384.
- Somers, Allen E.: *See*—  
Harrison, James M., and Somers. 2,884,470.
- Somers, Arthur V., and K. Schwartzwalder, to General Motors Corp. Cement for spark plugs and the like. 2,906,909, 9-29-59, Cl. 313-145.
- Somers, Thomas F., Jr. Dual purpose laundry bag. 2,897,863, 8-4-59, Cl. 150-1.
- Somers, William P.: *See*—  
Bactus, Keith A., and Somers. 2,912,481.
- Somers, William P., and W. G. Holt, to General Electric Co. Infinitely variable control switch. 2,892,918, 6-30-59, Cl. 219-20.
- Somerville, Alexander, to General Motors Corp. Nuclear radiation measuring instrument. 2,903,590, 9-8-59, Cl. 250-71.
- Somerville, Alexander, to General Motors Corp. Composite bonded structure and method of making the same. 2,909,204, 10-20-59, Cl. 154-120.
- Somerville, George R., and H. W. Howard, to Shell Development Co. Compositions containing polyhydroxy ethers of phenol-aldehyde resins and polymethylol phenol ethers. 2,894,931, 7-14-59, Cl. 260-43.
- Somerville Ltd.: *See*—  
Atkinson, William G. 2,877,610.
- Somes, Frederick J., Jr., to General Electric Co. Apparatus for installing an electrical system. 2,913,818, 11-24-59, Cl. 29-283.
- Sommer, Albert, to Straba Handels-Akt. Process of mixing fine aggregates with asphalt. 2,876,126, 3-3-59, Cl. 106-281.
- Sommer, Alfred, and L. J. Brady, to North American Philips Co., Inc. Refractory article and method of making the same. 2,874,067, 2-17-59, Cl. 117-70.
- Sommer, Alfred H., to Radio Corp. of America. Electron-emitting surfaces and methods of making them. 2,914,690, 11-24-59, Cl. 313-65.
- Sommer, Frank. Pulling device. 2,902,751, 9-8-59, Cl. 29-261.
- Sommer, Hans, to Firma Cementfabrik Holderbank-Wildeggen A.G. Support arrangement. 2,884,287, 4-28-59, Cl. 308-203.
- Sommer, Hans, to Firma Ciments d'Obourg, S.A. Obourg (Belgium). Process and apparatus for separating solid particles from highly viscous fluids. 2,916,146, 12-8-59, Cl. 210-405.
- Sommer, Harry J.: *See*—  
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- Sommer, Johannes. Impregnation of wooden poles. 2,884,302, 4-28-59, Cl. 21-7.
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- Sommer, Leo H., to Dow Corning Corp. Organosilicon nitriles. 2,906,767, 9-29-59, Cl. 260-448.2.
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- Sommers, Armiger H., to Abbott Laboratories. Piperazine derivatives and process of preparing. 2,891,063, 6-16-59, Cl. 260-268.
- Sommers, Donald J., and W. J. Wilson, to Sanders Associates, Inc. High frequency wave translating device. 2,877,429, 3-10-59, Cl. 333-24.
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- Son, Anthony J. Dental needle. 2,899,958, 8-18-59, Cl. 128-215.
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- Sonerant, Joseph J., to Thomas Electronics, Inc. Conveyor carrier. 2,889,169, 6-2-59, Cl. 294-92.
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- Sonderman, John B.: *See*—  
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- Songer, Leonard J. Collapsible tube roller. 2,896,822, 7-28-59, Cl. 222—99.
- Souier, Iroy N., to VIP, Inc. Card punching device. 2,913,049, 11-17-59, Cl. 164—111.
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- Sonneborn, L., Sons, Inc.: *See*—  
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- Sonnino, Mario: *See*—  
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- Sorensen, George E. Dimension averaging of overlength by underlength scale. 2,871,570, 2-3-59, Cl. 33—143.
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- Sorenson, Ralph Z., to Westinghouse Electric Corp. Toaster apparatus. 2,910,929, 11-3-59, Cl. 99—390.
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- Sorenson, William B.: *See*—  
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- Sorkin, Jack L.: *See*—
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- Soroall, Ivan, Inc.: *See*—
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- Soules, Vincent P.: *See*—
- Duffy, Michael, and Soules. 2,887,021.
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- Tiger, Emil. 2,898,409.
- Soundsciber Corp., The: *See*—
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- Haynes, Harry L., Sousa, and Lampert. 2,872,367.
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- Souter, John C.: *See*—
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- Lyon, William H. 2,915,595.
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- Southard, William F.: *See*—
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- South Chester Corp.: *See*—
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- Southern Ant Trap Co., Inc.: *See*—
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- Decker, Edmond L. 2,868,496.
- Southern Fabricating Co., Inc.: *See*—
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- Thomas, Albert L., Jr., and Oglesby. 2,917,787.
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- Mackenzie, William A., and Stark. 2,875,571.
- White, Loyd J. 2,915,813.
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- Southern States Equipment Corp.: *See*—
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- Southwell, Edward H., and Fmal. 2,904,240.
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- Southwest Research Institute: *See*—
- McCutehan, Roy T. 2,880,172.
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- Southworth, Wallace D.: See—  
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- Sowirka, Theodore: See—  
Ludman, Walter W., and Sowirka. 2,918,648.
- Sowle, Theo. J. Combination face and head protector. 2,881,442, 4-14-59, Cl. 2-9.
- Sowle, Theo. J. Combined hip and body harness. 2,892,193, 6-30-59, Cl. 2-2.
- Sowle, Theo. J. Adjustable face guard. 2,908,911, 10-20-59, Cl. 2-9.
- Sowler, Anthony B., and H. J. Foxon, to The General Electric Co. Ltd. Pressure welding. 2,894,323, 7-14-59, Cl. 29-481.
- Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Substituted xlenols as rubber antioxidants. 2,900,362, 8-18-59, Cl. 260-45.95.
- Spacht, Ronald B., to The Goodyear Tire & Rubber Co. Rubber antioxidants. 2,909,504, 10-20-59, Cl. 260-45.95.
- Spacht, Ronald B., and C. E. Sturm, to The Goodyear Tire & Rubber Co. Composition comprising chlorosubstituted ethylene polymer plasticized with 1,4-diaroyl butane. 2,888,423, 5-26-59, Cl. 260-32.8.
- Spademan, Charles F., to Toledo Scale Corp. Weighing scale. 2,919,123, 12-29-59, Cl. 265-5.
- Spaenig, Hermann, and A. Weickmann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of compounds of the pyrimidine series. 2,913,462, 11-17-59, Cl. 260-256.4.
- Spaetgens, Theodore W. Helical spring flexible coupling. 2,909,911, 10-27-59, Cl. 64-14.
- Spaeth, Charles P., to E. I. du Pont de Nemours and Co. Process for the production of saturated aliphatic nitro compounds. 2,883,432, 4-21-59, Cl. 260-644.
- Spaeth, Charles P., to E. I. du Pont de Nemours and Co. Process for the preparation of nitro derivatives. 2,883,433, 4-21-59, Cl. 260-644.
- Spaeth, Charles P., to E. I. du Pont de Nemours and Co. Liquid phase process for the preparation of nitro derivatives. 2,883,434, 4-21-59, Cl. 260-644.
- Spainhower, Walter. Easel for a picture frame. 2,876,973, 3-10-59, Cl. 248-37.
- Spal, John P. Method of and means for increasing the efficiency of internal combustion engines. 2,906,848, 9-29-59, Cl. 219-38.
- Spalding, A. G. & Bros., Inc.: See—  
Brandon, Thomas O. 2,882,058.
- Spalding, Charles W., and W. H. West, to General Motors Corp. Hydraulic power brake unit. 2,908,137, 10-13-59, Cl. 60-51.
- Spalding, Charles W., and W. H. West, to General Motors Corp. Hydraulic power brake booster. 2,916,882, 12-15-59, Cl. 60-54.6.
- Spalding, Joseph P., S. Rattner, and N. George, Jr.: said George assor. to United States of America, Army. Receiver including wave guide T with impedance thereof varied at intermediate frequency. 2,891,147, 6-16-59, Cl. 250-20.
- Spalding, Palmer W. Fishline attachment. 2,890,510, 6-16-59, Cl. 24-126.
- Spalla, Celestino: See—  
Di Marco, Aurelio, and Spalla. 2,776,490.
- Spaller, Albert L., to General Electric Co. Base making apparatus. 2,887,825, 5-26-59, Cl. 49-14.
- Spalvins, Janis V. Refrigeration table assembly. 2,895,311, 7-21-59, Cl. 62-258.
- Spanbauer, Leonard E.: See—  
Corrado, Ernest M., Ross, and Spanbauer. 2,904,051.
- Spångberg, Sven F. A. Railing for stairways. 2,869,829, 1-20-59, Cl. 256-65.
- Spangler, Bernard. Display sign indicia. 2,895,245, 7-21-59, Cl. 40-130.
- Spangler, Earl D., to United States Steel Corp. Apparatus for pulling the end from a coil of strip. 2,880,778, 4-7-59, Cl. 153-15.
- Spangler, Edward O.: See—  
Pollitz, Harold C., Spangler, and Kessler. 2,879,952.
- Spangler, Grant E.: See—  
Estes, James W., and Spangler. 2,870,004.
- Spann, Delroy O., to Delta Tank Mfg. Co. Spherical separator. 2,893,510, 7-7-59, Cl. 183-2.7.
- Spann, Delroy O., to Delta Tank Mfg. Co., Inc. Process vessels. 2,903,088, 9-8-59, Cl. 183-2.7.
- Spann, Delroy O., to Delta Tank Mfg. Co., Inc. Split stream inlets. 2,911,059, 11-3-59, Cl. 183-2.7.
- Spann, Edwin C., and W. G. Copenhaver, to Phillips Petroleum Co. Fractionation column control. 2,881,118, 4-7-59, Cl. 202-160.
- Spannhake, Ernst W., to LeTourneau-Westinghouse Co. Vehicle steering mechanism. 2,907,399, 10-6-59, Cl. 180-79.1.
- Spanos, Nicholas C.: See—  
Jianas, Alexander G., Dos Passos, Spanos, and Towne. 2,882,643.
- Sparcatron Ltd.: See—  
Fefer, Gregory, Rudorff, and Seed. 2,876,386.
- Sparer, Seno, to American Optical Co. Knife holder clamp for micrometer. 2,901,944, 9-1-59, Cl. 88-40.
- Sparkes, Sidney F. Window or door assembly. 2,908,051, 10-13-59, Cl. 20-19.
- Sparklets Ltd.: See—  
Cullender, Henry F. 2,893,259.
- Sparklin, Charles H., to Whirlpool Corp. Speed governor. 2,903,535, 9-8-59, Cl. 200-80.
- Sparks, Earl C., Jr., to United States of America, Navy. Suppressed carrier modulator. 2,883,625, 4-21-59, Cl. 332-44.
- Sparks, Marshall S., Jr., to Phillips Petroleum Co. Analyzer. 2,874,297, 2-17-59, Cl. 250-43.5.
- Sparks, Marshall S., Jr., to Phillips Petroleum Co. Analyzer. 2,900,510, 8-18-59, Cl. 250-43.5.
- Sparks, Marshall S., Jr., to Phillips Petroleum Co. Analyzer and voltage measuring circuit. 2,905,823, 9-22-59, Cl. 250-43.5.
- Sparks, Marshall S., Jr., and T. H. Harp, Jr., to Phillips Petroleum Co. Regulated power supply. 2,900,511, 8-18-59, Cl. 250-43.5.
- Sparks, Thomas, to Monroe Calculating Machine Co. Double ribbon mechanism. 2,902,135, 9-1-59, Cl. 197-153.
- Sparks, Van J. Multiple-ball valve. 2,891,571, 6-23-59, Cl. 137-512.1.
- Sparks, William J., R. E. Clayton, and J. R. Briggs, to Esso Research and Engineering Co. Butyl rubber tire tread compositions, process for preparation and tire containing such composition. 2,884,982, 5-5-59, Cl. 152-330.
- Sparks, William J., and D. W. Young, to Esso Research and Engineering Co. Alcohol-containing gasoline composition. 2,897,067, 7-28-59, Cl. 44-56.
- Spase, Charles B., to Lippe-Rollway Corp. Drive mechanism. 2,872,005, 2-3-59, Cl. 192-104.
- Spase, Charles B., to Lippe-Rollway Corp. Speed limiting torque metering vibration dampening clutch. 2,879,873, 3-31-59, Cl. 192-104.
- Spase, Charles B., to Lippe-Rollway Corp. Friction shoe. 2,913,085, 11-17-59, Cl. 192-107.
- Spath, Catherine M., to Eastman Kodak Co. Antifoggants for reversal color development. 2,899,306, 8-11-59, Cl. 96-56.
- Spatta, George, to Clark Equipment Co. Apparatus and method for handling passengers. 2,885,242, 5-5-59, Cl. 296-28.
- Spatz, Walter B., to Paper Mate Mfg. Co. Retractable mechanism of pinch yoke type. 2,868,170, 1-13-59, Cl. 120-42.03.
- Spatz, Walter B. Marking pencil. 2,907,301, 10-6-59, Cl. 120-9.
- Spaude, Siegfried: See—  
Bernhauer, Konrad, and Spaude. 2,893,989.
- Spaulding, Carl P., to Consolidated Electrodynamics Corp. Electronic switching apparatus. 2,867,723, 1-6-59, Cl. 250-27.
- Spaulding, Carl P., to Datex Corp. Code comparison and control system. 2,909,769, 10-20-59, Cl. 340-347.
- Spaulding, Charles W., and R. A. Pelz, to Westinghouse Electric Corp. Electromagnetic device. 2,883,487, 4-21-59, Cl. 200-87.
- Spaulding, George E., Jr.: See—  
Meyer, Earl W., Jr., and Spaulding. 2,914,693.  
Meyer, Earl W., Jr., and Spaulding. 2,914,695.
- Spaulding, Howard O.: See—  
Koch, Royal G., and Spaulding. 2,869,141.
- Spaulding, Joseph H. Illuminator. 2,877,340, 3-10-59, Cl. 240-3.
- Spaulding, Spencer W., and R. Pressman, to Radio Corp. of America. Code converter. 2,886,241, 5-12-59, Cl. 235-154.
- Speake, George D., M. J. B. Scanlan, and E. Cottam, to Marconi's Wireless Telegraph Co. Ltd. Transmit-receive cells. 2,884,602, 4-28-59, Cl. 333-13.
- Speakman Co.: See—  
Fraser, James, and McLean. 2,906,293.  
Fraser, James, and McLean. 2,910,009.  
McLean, Edward S. 2,888,210.  
McLean, Edward S., and Fraser. 2,914,084.
- Speakman, Raymond H., to Imperial Chemical Industries Ltd. Melt spinning apparatus. 2,871,511, 2-3-59, Cl. 18-8.
- Spear, Adrian G., Jr.: See—  
Muller, George H., and Spear. 2,908,324.
- Spear, Charles E. Mechanical oscillator. 2,883,867, 4-28-59, Cl. 74-30.
- Spear, Walter A., to Nu-Tone, Inc. Kitchen power unit. 2,868,025, 1-13-59, Cl. 74-16.
- Spearman, Elmer I.: See—  
Alderman, Edwin N., Spearman, and Stout. 2,914,476



- Spearow, Ralph. Single casing multiple horizon oil production method. 2,871,945, 2-3-59, Cl. 166-52.
- Spearow, Ralph. Multiple horizon simultaneous pressurization and production method. 2,906,336, 9-29-59, Cl. 166-10.
- Spearow, Ralph. Method of cementing unusable boreholes. 2,918,124, 12-22-59, Cl. 166-21.
- Spechler, Daniel S.: *See*—
- Beeber, Allan R. A., and Spechler. 2,893,896.
- Specht, Edward H.: *See*—
- Neher, Harry T., Specht, and Kelley. 2,888,480.
- Specht, Lisa M. Beach sheet and anchoring means therefor. 2,907,057, 10-6-59, Cl. 5-344.
- Specht, Klara: *See*—
- Specht, Max. 2,917,387.
- Specht, Max, deceased, by K. and V. C. Specht, heirs;  $\frac{1}{2}$  to P. O. Tobeler, d.b. under the name of Trans-Oceanic. Wax treatment of coffee beans. 2,917,387, 12-15-59, Cl. 99-68.
- Specht, Verena C.: *See*—
- Specht, Max. 2,917,387.
- Special Engineering Service, Inc.: *See*—
- Ficht, Karl H. R. 2,887,147.
- Special Equipment Co.: *See*—
- Thompson, Clarence R. 2,868,251.
- Specialties Alimentaires Bourguignonnes (S. A. B.): *See*—
- Labarre, Maurice. 2,872,705.
- Specialties Development Corp.: *See*—
- Bagno, Samuel M., and Joerren. 2,867,282.
- Cutsogorge, George A. 2,901,740.
- Joerren, Ernest A., and Scott. 2,868,300.
- Klein, Clifford J. 2,906,928.
- MacIntyre, Ronald, and Sheakley. 2,871,197.
- Mapes, Daniel. 2,906,366.
- Masnik, Walter, Romeo, and Zurlo. 2,877,653.
- Nicita, Charles A. 2,916,635.
- Olson, Walter J., Parsons, and Schrank. 2,893,208.
- Peters, Melville F. 2,867,792.
- Seed, Daniel. 2,906,447.
- Spidy, Alexander R. 2,894,658.
- Sylvester, Walter G. 2,906,107.
- Ware, Colin C., Blake, and Demers. 2,899,566.
- Warwick, John. 2,881,988.
- Wentz, Edward A. 2,901,190.
- Young, David H. 2,906,288.
- Specialties, Inc.: *See*—
- Bucalo, Louis. 2,875,646.
- Lysle, Gordon, and Tuttle. 2,906,399.
- Newton, John C. 2,887,927.
- Tuttle, Clifton M., Brown, and Brasser. 2,880,325.
- Specialty Papers Co., The: *See*—
- Knowles, Edward R. 2,872,700.
- Knowles, Edward R. 2,913,762.
- Specialty Products Corp.: *See*—
- Skelly, James J. 2,874,438.
- Speck, John C., Jr. Polychloro-7,8-disubstituted-2,5-diimino glycoluril for use as an anti-vesicant. 2,885,305, 5-5-59, Cl. 117-121.
- Speck, Willis A., to Westinghouse Electric Corp. Neutral bar assembly. 2,909,757, 10-20-59, Cl. 339-198.
- Speckin, Alfred P., and J. R. Bashor, to United States Drill Head Co. Drill head. 2,884,818, 5-5-59, Cl. 77-22.
- Speckman, William J.: *See*—
- Tinsman, Jack R. 2,880,430.
- Spector, Baruch,  $\frac{1}{2}$  to N. H. Spector. Mechanical pencil with an automatic feed mechanism. 2,911,948, 11-10-59, Cl. 120-14.1.
- Spector, Marshall L., and R. P. Strang, to General Electric Co. Preparation of diphenylsilanediol. 2,899,453, 8-11-59, Cl. 260-448.2.
- Spector, Novera H.: *See*—
- Spector, Baruch. 2,911,948.
- Spectralum Corp.: *See*—
- Zakin, Paul P. 2,914,986.
- Spedding, Frank H., T. A. Butler, and I. B. Johns, to United States of America, Atomic Energy Commission. Process for separating uranium fission products. 2,877,109, 3-10-59, Cl. 75-84.1.
- Spedding, Frank H., and A. S. Newton, to United States of America, Atomic Energy Commission. Volatile fluoride process for separating plutonium from other materials. 2,882,125, 4-14-59, Cl. 23-14.5.
- Spedding, Frank H., and J. E. Powell, to Iowa State College Research Foundation, Inc. Method of separating nitrogen isotopes by ion-exchange. 2,889,205, 6-2-59, Cl. 23-193.
- Spedding, Frank H., H. A. Wilhelm, and W. H. Keller, to United States of America, Atomic Energy Commission. Thorium-beryllium alloys and method of producing same. 2,903,351, 9-8-59, Cl. 75-122.7.
- Speech Research For The Deaf Ltd.: *See*—
- Plant, George R. G. 2,915,589.
- Speed, David B., and I. R. Smith, to E. I. du Pont de Nemours and Co. Flux. 2,879,195, 3-24-59, Cl. 148-23.
- Speed Development Co. Ltd.: *See*—
- Ruffle, William H. 2,894,251.
- Speed, Donald K.: *See*—
- Hoffman, Howard T., Speed, and Janofsky. 2,893,634.
- Speed Feed Machine Corp.: *See*—
- Broderson, Neil O. 2,918,885.
- Speed-Park Inc.: *See*—
- Alimanestiano, Mihai. 2,890,802.
- Alimanestiano, Serban. 2,915,204.
- Speed, William C., and G. M. Sutheim, to Audio Devices, Inc. Production of ferromagnetic iron oxide. 2,900,236, 8-18-59, Cl. 23-200.
- Speed, William C., and G. M. Sutheim, to Audio Devices, Inc. Production of ferromagnetic iron oxide. 2,900,239, 8-18-59, Cl. 23-277.
- Spee-Dee Check Out Systems: *See*—
- McNeil, Clyde L., and Buck. 2,902,115.
- Speelman, Irving A., to Proper Mfg. Co., Inc. Self-applicable sphgmomanometer. 2,869,536, 1-20-59, Cl. 128-2.05.
- Speelman, Irving A., to Proper Mfg. Co., Inc. Sphgmomanometer cuffs. 2,896,610, 7-28-59, Cl. 128-2.05.
- Speelman, Irving A., to Proper Mfg. Co., Inc. Blood lancets. 2,896,628, 7-28-59, Cl. 128-314.
- Speer Carbon Co.: *See*—
- Krellner, Clement H. 2,903,666.
- Krellner, Clement H. 2,907,971.
- McGarvey, Harold J. 2,903,627.
- Speer, John H., Jr., to Hughes Aircraft Co. Free-running relay multivibrator. 2,892,105, 6-23-59, Cl. 307-132.
- Speer, Robert J.: *See*—
- Barns, Robert L., Doshier, Humphries, Jeanes, Lyon, Perry, Speer, and Earhart. 2,900,343.
- Speer, Walter, to Badische Anilin- & Soda-Fabrik Akt. Production of benzene dicarboxylic acids. 2,883,421, 4-21-59, Cl. 260-524.
- Speers, Stewart W., to American Viscose Corp. Humidifier and control system. 2,906,205, 9-29-59, Cl. 101-416.
- Speese, Daniel S. Compressing device for collapsible paste tubes. 2,874,876, 2-24-59, Cl. 222-102.
- Speese, Daniel S. Adjustable bracket for holding small fixtures. 2,896,895, 7-28-59, Cl. 248-226.
- Speeter, Merrill E., and W. C. Anthony, to The Upjohn Co. Production of certain tryptamines and compounds produced in the process. 2,870,162, 1-20-59, Cl. 260-319.
- Speeter, Merrill E., and R. D. Birkenmeyer, to The Upjohn Co. Alkylaminoalkyl 2,4,6-trimethylbenzamide. 2,901,507, 8-25-59, Cl. 260-558.
- Speth, Herman A., to Burroughs Corp. Electronic checking device. 2,885,146, 5-5-59, Cl. 235-61.11.
- Spehar, John P.: *See*—
- Finigan, Charles M., and Spehar. 2,884,474.
- Speicher, Paul L., to The Cyclone Seeder Co., Inc. Mobile broadcast spreader. 2,882,060, 4-14-59, Cl. 275-15.
- Speicher, William: *See*—
- Schaffter, Herman W., and Speicher. 2,894,239.
- Speicher, William, to General Electric Co. Electric-powered traction wheel. 2,899,005, 8-11-59, Cl. 180-60.
- Speidel Corp.: *See*—
- Augenstein, Karl C. 2,889,681.
- Augenstein, Karl C., and Levering. 2,901,895.
- Speidel, Hermann: *See*—
- Ruthardt, Konrad, and Speidel. 2,890,114.
- Speiden, Edgar F., to The Parkersburg Rig & Reel Co. Pneumatic counterbalance having a control mechanism therefor. 2,900,841, 8-25-59, Cl. 74-589.
- Speier, John L., to Dow Corning Corp. Preparation of organosilicon esters. 2,906,735, 9-29-59, Cl. 260-46.5.
- Speier, John L., Jr., to Dow Corning Corporation. (Cyanoalkoxy) alkyl substituted organosilicon compounds. 2,872,435, 2-3-59, Cl. 260-46.5.
- Speight, Eric A.: *See*—
- Carasso, John I., and Speight. 2,902,419.
- Speight, Francis R.: *See*—
- Lotarski, Stephen P., and Speight. 2,898,614.
- Speir, Earl R. Folding adjustable seat tray assembly. 2,878,945, 3-24-59, Cl. 211-88.
- Speith, Karl G.: *See*—
- Bungeroth, Adolf, Speith, and Schrewe. 2,895,190.
- Darmann, Otto, Kobusch, and Speith. 2,900,285.
- Speller, Jack B., to United Aircraft Corp. Analogue-to-digital converter. 2,873,440, 2-10-59, Cl. 340-347.
- Speller, Jack B., to United Aircraft Corp. Square wave generator. 2,885,549, 5-5-59, Cl. 250-27.
- Spenard, Le Roy C., to Holmes Electric Protective Co. Local alarm circuit for burglar alarm systems. 2,874,376, 2-17-59, Cl. 340-276.
- Spence, Albert A. Sun visor holder attachment. 2,881,926, 4-14-59, Cl. 211-89.
- Spence, Beatrice M. Therapeutic method and apparatus. 2,911,974, 11-10-59, Cl. 128-293.
- Spence, Hubert L., deceased, by L. S. Spence, executrix, to National Malleable and Steel Castings Co. Method of stabilizing and processing cushioning units. 2,887,770, 5-26-59, Cl. 29-407.
- Spence, John: *See*—
- Bock, George E., and Spence. 2,870,723.
- Jones, Jean E., and Spence. 2,912,329.
- Spence, John T. D., to The National Standard Co. Ltd. Method of packaging coils of longitudinally extending material. 2,875,561, 3-3-59, Cl. 53-13.
- Spence, Lorna S.: *See*—
- Spence, Hubert L. 2,887,770.
- Spence, Paulsen. Integral-pilot valve. 2,879,792, 3-31-59, Cl. 137-489.5.
- Spence, Paulsen. Regulating-valve means. 2,881,792, 4-14-59, Cl. 137-489.5.
- Spence, Paulsen. Rotary-stem actuating means. 2,894,399, 7-14-59, Cl. 74-96.
- Spence, Paulsen. Adjustable valve-actuating means. 2,903,012, 9-8-59, Cl. 137-271.



- Spence, Paulsen. Flanged elastomeric sleeve type flexible coupling for pipes. 2,905,488, 9-22-59, Cl. 285-236.
- Spence, Peter, & Sons Ltd.: *See*—  
Hill, Kenneth M., and Lynskey. 2,890,953.  
Lynskey, Peter J. 2,895,823.
- Spence, Robert: *See*—  
Nicholls, Cyril M., Wells, and Spence. 2,908,547.
- Spence, Thomas C., and R. B. Funk, to The Dow Chemical Co. Crimping fibres. 2,917,784, 12-22-59, Cl. 19-66.
- Spence, Thomas C., R. B. Funk, H. N. Woessner, to The Dow Chemical Co. Method for crimping acrylonitrile polymer fibers. 2,917,806, 12-22-59, Cl. 28-72.
- Spenceley, Robert M.: *See*—  
Shaw, William E., Spenceley, and Teetzel. 2,898,187.
- Spencer, Albert B., to General Electric Co. High gloss paint composition comprising a modified aromatic hydrocarbon-aldehyde resin, a pigment, and a tertiary amine, and process of making same. 2,890,192, 6-9-59, Cl. 260-43.
- Spencer, Alvin C. Dispensing device and container therefor. 2,874,877, 2-24-59, Cl. 222-162.
- Spencer, C. Richard, and M. J. Nagy, to Northrop Aircraft, Inc. Perspective drawing kit. 2,876,547, 3-10-59, Cl. 33-77.
- Spencer, Cecil A., to American Cyanamid Co. Tobias acid compositions and diazotization thereof. 2,867,613, 1-6-59, Cl. 260-141.
- Spencer, Charles C.: *See*—  
Schoch, Thomas J., and Spencer. 2,876,160.
- Spencer, Charles F.: *See*—  
Gillies, Duncan M., and Spencer. 2,898,848.
- Spencer Chemical Co.: *See*—  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,399.  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,400.  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,401.
- Francis, William C., and Hopkins. 2,876,218.
- Hopkins, Thomas R., and Pullen. 2,906,614.
- MacArthur, James G. 2,899,324.
- Thornton, James R., and Marsh. 2,891,069.
- Spencer, Clarence S. Dispensing-cap for containers. 2,889,081, 6-2-59, Cl. 222-153.
- Spencer, Donald B., to Guy F. Atkinson Co. Ladle relining method. 2,894,739, 7-14-59, Cl. 266-43.
- Spencer, Edward G., F. Reggia, J. E. Tompkins, and R. D. Hatcher, to United States of America, Army. Electro-magnetically steered microwave antenna. 2,905,940, 9-22-59, Cl. 343-778.
- Spencer, Glenn S., to Bendix Aviation Corp. Bobbin holder for spinning frames and the like. 2,872,127, 2-3-59, Cl. 242-130.2.
- Spencer, Glenn S., to Bendix Aviation Corp. Engine starter gearing. 2,872,823, 2-10-59, Cl. 74-6.
- Spencer, Glenn S., to Bendix Aviation Corp. Pendulous bobbin support for spinning frames and the like. 2,876,962, 3-10-59, Cl. 242-130.2.
- Spencer, Glenn S., to Bendix Aviation Corp. Two-speed transmission for vehicles. 2,892,521, 6-30-59, Cl. 192-6.
- Spencer, Glenn S., to Bendix Aviation Corp. Engine starter gearing. 2,900,525, 8-18-59, Cl. 290-38.
- Spencer, Glenn S., to Bendix Aviation Corp. Engine starter gearing. 2,900,526, 8-18-59, Cl. 290-38.
- Spencer, Gordon R., to Philco Corp. Cathode ray tube gun structure. 2,905,848, 9-22-59, Cl. 313-82.1.
- Spencer, Howard F. Soaking pit cover carriages. 2,892,550, 6-30-59, Cl. 212-4.
- Spencer-Hughes Corp.: *See*—  
Maynard, Ralph D., Jr. 2,876,899.
- Spencer, Jack O. Replaceable faucet handle. 2,898,776, 8-11-59, Cl. 74-553.
- Spencer, Jessie H., Jr., to General Motors Corp. Evaporator defrosting means. 2,904,968, 9-22-59, Cl. 62-140.
- Spencer, John F. T.: *See*—  
Haskins, Reginald H., and Spencer. 2,902,409.
- Spencer, Joseph N., to Commercial Solvents Corp. New sedatives and anticonvulsants. 2,902,404, 9-1-59, Cl. 167-65.
- Spencer, Kenneth E. V.: *See*—  
Johnston, Robert G., and Spencer. 2,903,394.
- Spencer, Leslie G., to Northern Electric Co. Ltd. Wire holding device. 2,890,524, 6-16-59, Cl. 30-124.
- Spencer, Oliver E. Railroad car cushioning mechanism. 2,915,198, 12-1-59, Cl. 213-43.
- Spencer, Paul W.: *See*—  
Peterson, Russell M., Spencer, Peterson, and McLouth. 2,880,682.
- Spencer, Raymond C.: *See*—  
Larson, Arthur D., and Spencer. 2,877,534.
- Spencer, Richard W., to Sperry Rand Corp. Stabilization of magnetic amplifiers. 2,881,268, 4-7-59, Cl. 179-171.
- Spencer, Richard W., to Sperry Rand Corp. Inductively reset carrier magnetic amplifier. 2,886,658, 5-12-59, Cl. 179-171.
- Spencer, Robert V., to J. H. Carpenter. Fanning ore concentrator. 2,875,898, 3-3-59, Cl. 209-458.
- Spencer, Rolf E., to Electric & Musical Industries Ltd. Apparatus for sensing the position of a movable element. 2,882,524, 4-14-59, Cl. 340-347.
- Spencer, Rolf E., to Electric & Musical Industries Ltd. Analog computing apparatus to evaluate the rate of change of one variable with respect to another. 2,887,270, 5-19-59, Cl. 235-184.
- Spencer, Rolf E., to Electric & Musical Industries Ltd. Rate measuring servosystem. 2,889,504, 6-2-59, Cl. 318-28.
- Spencer, Rolf E., to Electrical & Musical Industries Ltd. Apparatus for converting digital code signals to analogue signals. 2,916,734, 12-8-59, Cl. 340-347.
- Spencer, Rolf E., and R. Voles, to Electric & Musical Industries Ltd. Computing mechanism especially for controlling automatic machine tools. 2,883,110, 4-21-59, Cl. 235-189.
- Spencer, Rolf E., and G. H. Stephenson, to Electric & Musical Industries Ltd. Servo-mechanism function generator utilizing an error voltage. 2,894,685, 7-14-59, Cl. 235-150.
- Spencer, Rolf E., and R. Voles, to Electric & Musical Industries Ltd. Displacement error reducing pattern servosystem. 2,900,586, 8-18-59, Cl. 318-162.
- Spencer, Rolf E., and R. Voles, to Electric & Musical Industries Ltd. Servo mechanisms. 2,900,590, 8-18-59, Cl. 318-448.
- Spencer, Russell W., to North American Aviation, Inc. Chemical taper milling process. 2,881,059, 4-7-59, Cl. 41-42.
- Spencer, Thomas: *See*—  
Beech, Austin S., and Spencer. 2,879,905.
- Spencer, William A. Coin controlled barrier gate mechanism for vehicles. 2,878,998, 3-24-59, Cl. 235-99.
- Spencer-Smith, John L.: *See*—  
Matthew, John A., and Spencer-Smith. 2,905,976.
- Spengler, Günter, and G. Lohmann. Grease testing machine. 2,883,855, 4-28-59, Cl. 73-10.
- Spengler, Günter, and H. Hohn, to The Alpha Molykote Corp. Method of preparing lubricative crystalline molybdenum disulfide. 2,892,741, 6-30-59, Cl. 148-624.
- Spengler, Günter, and H. Hohn, to The Alpha Molykote Corp. Method for forming metal sulfide coatings. 2,905,574, 9-22-59, Cl. 117-65.
- Spengler, Herbert, K. Bischoff, and H. Dreeskampff, to Ruhrchemie Akt. Photoelectric apparatus for measuring and remote reading of liquid levels. 2,884,783, 5-5-59, Cl. 73-290.
- Spengler, Ralph A., A. O. Reynolds, and C. W. Snyder; said Reynolds and said Snyder assors. to said Spengler. Method of making plant pots. 2,881,680, 4-14-59, Cl. 92-58.
- Sperazz, Charles M., Sr.: *See*—  
Smith, Stanley W., and Sperazz. 2,879,014.
- Sperber, Heinrich: *See*—  
Becke, Friedrich, and Sperber. 2,913,500.
- Sperber, Milton M.: *See*—  
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- Sperber, Nathan: *See*—  
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- Sperber, Nathan, to Schering Corp. Blood anticoagulant composition and process. 2,899,358, 8-11-59, Cl. 167-65.
- Spercel, Robert J. Gauge for circular form tools. 2,884,703, 5-5-59, Cl. 33-201.
- Sperlich, Herman A.: *See*—  
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- Sperling, Harold D.: *See*—  
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- Sperling, Jacob G., to Emerson Radio & Phonograph Corp. Transistor frequency dividers. 2,869,002, 1-13-59, Cl. 307-88.5.
- Sperling, Reuben, to The Ruberoid Co. Process of blending a polyvinyl chloride plastisol with molten coal tar pitch. 2,883,354, 4-21-59, Cl. 260-28.5.
- Spero, George B.: *See*—  
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Magerlein, Barney J., and Spero. 2,883,402.  
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Sebek, Oldrich K., and Spero. 2,897,218.
- Spero, George B., to The Upjohn Co. Organic compounds and process. 2,881,168, 4-7-59, Cl. 260-239.55.
- Spero, George B., to The Upjohn Co. 6-methyl analogues of cortisone, hydrocortisone and 21-esters thereof. 2,897,217, 7-28-59, Cl. 260-397.45.
- Spero, George B., B. J. Magerlein, W. P. Schneider, and J. A. Hogg, to The Upjohn Co. 6-fluoro-17 $\alpha$ ,21-epoxy-1,4-pregnadienes. 2,884,420, 4-28-59, Cl. 260-239.55.
- Spero, John J.: *See*—  
Marraffino, Leonard L. 2,905,364.  
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Marraffino, Leonard L. 2,918,199.
- Spero, John J.,  $\frac{1}{2}$  to L. L. Marraffino. Device for dispensing striped materials. 2,873,887, 2-17-59, Cl. 222-94.
- Speros, Dimitrios M., to General Electric Co. Cathodes and emissive material therefor. 2,871,196, 1-27-59, Cl. 252-512.
- Sperotto, Guiseppe. Apparatus for the gradual decatizing of fabrics. 2,885,875, 5-12-59, Cl. 68-5.
- Sperow, James A. Gauge clamp for sharpening tools. 2,893,179, 7-7-59, Cl. 51-221.
- Sperr, Fritz, and E. Wiberg, to Union Carbide Corp. Methods of preparing esters of orthosilicic acid. 2,909,550, 10-20-59, Cl. 260-448.8.



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- Barr, John D. 2,911,833.  
 Cotton, Michael B. 2,880,617.  
 Glenny, Arthur P. 2,876,967.  
 Glenny, Arthur P. 2,891,407.  
 Glenny, Arthur P., and Dove. 2,890,442.  
 Harvey, Gilbert N. 2,900,736.  
 Jofeh, Marcus L. 2,894,396.  
 Sedgfield, Hugh B. 2,888,256.  
 Sedgfield, Hugh B. 2,913,907.  
 Sedgfield, Hugh B., and Errington. 2,878,006.  
 Sedgfield, Hugh B., Jofeh, and Albrecht. 2,869,851.  
 Sedgfield, Hugh B., and Luttrell. 2,868,021.  
 Sedgfield, Hugh B., Taylor, and MacDougall. 2,903,891.  
 Sedgfield, Hugh B., and Whalley. 2,874,578.  
 Sperry, Leonard J., to Globe-Union Inc. High voltage capacitor. 2,892,137, 6-23-59, Cl. 317-242.  
 Sperry, Leonard J., to Globe-Union Inc. Plastic tubular trimmer. 2,904,845, 9-22-59, Cl. 18-59.  
 Sperry, Paul A. Bow-forming device. 2,884,169, 4-28-59, Cl. 223-46.

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- Cowan, Gerald de G., Laurenson, and Van Hemert. 2,889,514.  
 Drake, Harcourt C. 2,900,596.  
 Elion, Herbert A. 2,881,336.  
 Henry, Elliott A. 2,883,860.  
 Henry, Elliott A. 2,888,824.  
 Pahud, Jacques P. 2,888,581.  
 Schulze, Harald. 2,873,391.  
 Van Valkenburg, Howard E., and Sansom. 2,883,861.  
 Wilson, Richard A. 2,884,592.

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- Abzug, Malcolm J. 2,884,212.  
 Ambrose, Walter J., and Lane. 2,879,670.  
 Andeen, Richard E. 2,896,883.  
 Artuso, Nichols F. 2,916,712.  
 Aumuller, Edward F. 2,880,616.  
 Barney, Kay H., and Greenspan. 2,903,605.  
 Beach, Lennox F. 2,886,897.  
 Beers, Max I., and Davis. 2,888,219.  
 Berkowitz, Bernard. 2,875,439.  
 Berky, Richard K. 2,901,899.  
 Bernstein, Alfred. 2,883,176.  
 Blain, Albert. 2,906,527.  
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 Blizard, Robert B. 2,887,783.  
 Bonn, Theodore H. 2,907,894.  
 Bouchard, John R., and Hammon. 2,878,679.  
 Broder, Alan, and Sammis. 2,867,766.  
 Brugger, Richard G. 2,915,902.  
 Carissimi, Louis C. 2,880,503.  
 Carter, Leslie F. 2,887,784.  
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 Chini, Joseph. 2,897,556.  
 Cohn, Seymour B. 2,891,190.  
 Cohn, Seymour B. 2,918,632.  
 Colistra, Walter P. 2,898,690.  
 Crosby, Robert L. 2,889,468.  
 Crowther, George A. 2,873,067.  
 Daniels, Howard L. 2,900,629.  
 Danner, Frederick G., and Browne. 2,903,607.  
 Davies, Donald A., and Lalli. 2,884,829.  
 Dean, Walter N. 2,873,444.  
 De Lallo, Louis D. 2,904,744.  
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 De Stevens, George. 2,916,488.  
 De Stevens, George, and Sprague. 2,892,834.  
 De Stevens, George, and Sprague. 2,892,837.  
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 Devol, George C. 2,918,864.  
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 Doersam, Charles H., Jr., and King. 2,907,985.  
 Duncan, Bobby J. 2,915,713.  
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 Field, Lester M. 2,913,611.  
 Frank, Robert L. 2,916,629.  
 Frantz, Wilbert P. 2,892,948.  
 Fuller, Edward J., and Pate. 2,874,380.  
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 Gottlieb, Marvin. 2,909,319.  
 Gulemi, Thomas A. 2,898,719.  
 Gunn, Donald A., Dean, and Senechal. 2,868,608.  
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- Halpern, William, Depp, and Trenchard. 2,887,872.  
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 Harris, Louis H. 2,880,635.  
 Hecht, Herbert. 2,894,491.  
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 Hess, John J., Jr. 2,869,063.  
 Hollyday, James H. 2,868,114.  
 Huss, Steven J., Wesslund, and Johnson. 2,889,541.  
 Jacobson, Robert I., and Deutsch. 2,881,423.  
 Jacoby, Marvin. 2,915,966.  
 Jessup, John M. 2,880,618.  
 Kass, Seymour. 2,906,013.  
 Kaufmann, Henry W. 2,913,593.  
 Kaufmann, Henry W. 2,913,595.  
 Kenyon, David E. 2,884,523.  
 Kirk, William A., and Brown. 2,868,253.  
 Koch, Earl E., and McCarty. 2,885,015.  
 Lally, Philip M. 2,878,412.  
 Lang, Albert P. 2,869,454.  
 Lanning, Walter C. 2,908,892.  
 Lawrence, Joseph D., Jr. 2,901,735.  
 Lawrence, Joseph D., Jr. 2,907,000.  
 Leavitt, Lionel E. 2,916,683.  
 Lipkin, Daniel M. 2,888,637.  
 Lipkin, Daniel M. 2,897,294.  
 Logan, J. Robert. 2,890,829.  
 Lukoff, Herman. 2,891,242.  
 Lynch, John J. 2,873,669.  
 Marino, Paul J., and Subbiondo. 2,879,672.  
 Mason, Harry L., and Noble. 2,908,830.  
 McBee, Warren D. 2,887,608.  
 McCarty, Horace G. 2,892,351.  
 McCarty, Horace G. 2,915,774.  
 McCarty, Horace G., and Bedke. 2,880,004.  
 McCarty, Horace G., and Brikowski. 2,910,816.  
 McCarty, Horace G., and Hale. 2,906,076.  
 McCully, Robert R., and McDuffie. 2,885,181.  
 McKenney, Henry F., and Vercesi. 2,918,618.  
 Meyer, Bruce L. 2,904,683.  
 Mihanowich, Stanley. 2,917,643.  
 Miles, James G., and Kalb. 2,910,238.  
 Moreno, Charles A. 2,888,674.  
 Murphy, Edward J. 2,880,399.  
 Nekola, Joseph F. 2,887,637.  
 Newell, William H., Burgess, Zabb, and Frangoulis. 2,888,195.  
 Newell, William H., Burgess, Zabb, and Frangoulis. 2,888,203.  
 Newell, William H., Crowther, and Brown. 2,902,212.  
 Nolt, Edwin B. 2,872,772.  
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 Osgood, Harold A., Jr., and Pilcher. 2,892,629.  
 Paige, Walter G. 2,869,457.  
 Palmer, Winslow. 2,873,445.  
 Patrick, James T., and Long. 2,914,291.  
 Paul, Israel A., and Greene. 2,875,329.  
 Pelle, James S. 2,880,120.  
 Petrea, James C. 2,902,805.  
 Pettit, Robert H. 2,895,086.  
 Porter, Vincent J. 2,910,656.  
 Porter, Vincent J., and Naiman. 2,913,680.  
 Prager, Irwin A., and Sprague. 2,886,565.  
 Procter, Edward C. 2,910,880.  
 Proskauer, Richard. 2,905,914.  
 Rankin, Donald L. 2,869,322.  
 Rider, Paul Z. 2,900,131.  
 Roifs, John C. 2,875,418.  
 Ross, Philip C. 2,893,002.  
 Rowley, Lothair H., and Boehm. 2,906,977.  
 Rowley, Lothair H., and Milenbach. 2,902,547.  
 Rubens, Sidney M. 2,900,282.  
 Rubens, Sidney M., Bergh, and Oberg. 2,892,041.  
 Rudmann, Frank J., Jr. 2,905,894.  
 Sant Angelo, Michael A. 2,907,939.  
 Schmitt, William F. 2,888,667.  
 Schremp, Frederick W. 2,919,007.  
 Schumacher, Walter B. 2,911,254.  
 Sege, Thomas D. 2,916,659.  
 Sensenig, Miles L. 2,910,842.  
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 Sferrazza, Peter J. 2,875,415.  
 Sims, John C., Jr. 2,892,970.  
 Sipin, Anatole J. 2,892,309.  
 Smith, Charles A. 2,885,231.  
 Snodgrass, Reuben P. 2,880,414.  
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 Spencer, Richard W. 2,881,268.  
 Spencer, Richard W. 2,886,658.  
 Sprague, Robert H. 2,892,838.  
 Sprague, Robert H. 2,899,430.  
 Sprague, Robert H. 2,912,433.  
 Steagall, William F. 2,901,635.  
 Steagall, William F. 2,911,543.  
 Steagall, William F. 2,914,751.  
 Stiefel, Rudy C. 2,873,666.  
 Stovall, John R., Jr. 2,901,737.  
 Talambiras, Robert P. 2,888,560.  
 Tear, James D. 2,874,542.  
 Tomiyasu, Kiyo. 2,867,781.  
 Tomiyasu, Kiyo. 2,873,430.  
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 Trefeisen, Donald R., and Schneek. 2,891,742.  
 Tribben, Everett R., and Fingerhood. 2,870,979.  
 Vutz, Wilhelm. 2,880,562.  
 Vutz, Wilhelm. 2,917,889.  
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 Welsh, Herbert F., Schreiner, Mock, and Eckert. 2,901,734.  
 Wesslund, Robert E., Mader, and Johnson. 2,874,372.  
 West, James R. 2,877,664.  
 West, James R. 2,906,393.  
 Whetter, Lloyd A. 2,900,506.  
 Whiteley, Charles A. 2,896,307.  
 Williams, Gerald I. 2,877,451.  
 Williams, Roger B., Jr. 2,871,369.  
 Williams, Warren D. 2,880,181.  
 Willwerth, John H. 2,902,185.  
 Winters, Berl C. 2,888,832.  
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- Sperry Rand Corp., Ford Instrument Co. Division: See—  
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 Buchhold, Theodor A. 2,897,296.  
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 Essex, Alois B., Garrett, and McKenney. 2,897,466.  
 Garfunkel, Alan R. 2,884,615.  
 Garfunkel, Alan R., and Oken. 2,868,999.  
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 Keating, William T., and Richter. 2,911,828.  
 Lustig, Howard E., and Weber. 2,887,552.  
 McKenney, Henry F. 2,873,066.  
 McKenney, Henry F. 2,878,442.  
 McKenney, Henry F., and Keating. 2,878,327.  
 McKenney, Henry F., Seliger, and Unold. 2,913,649.  
 McKenney, Henry F., and Unold. 2,892,969.  
 Newell, William H. 2,895,670.  
 Philipps, Edwin J. 2,918,821.  
 Rabin, Richard, and Merl. 2,906,997.  
 Rapport, Sigmund. 2,907,523.  
 Rich, Lewis C., and Rowley. 2,878,435.  
 Richter, Albert. 2,887,882.  
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 Rosenfeld, Azriel, Gross, and Gala. 2,910,910.  
 Rowley, Lohair H. 2,870,417.  
 Schroeder, George F. 2,895,339.  
 Seliger, Victor H., and Vafiades. 2,888,630.  
 Smith, Charles I., Zimet, and Robinson. 2,886,705.  
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 Young, John, Jr. 2,882,525.  
 Young, John, Jr. 2,892,111.  
 Zabb, Norman J., McKenney, and Newell. 2,873,068.  
 Zabb, Norman J., Newell, McKenney, and Weber. 2,913,720.
- Sperry, Russell L. Polycarboxylic acids and alkali metal salts thereof from carbohydrates. 2,881,211, 4-7-59, Cl. 260—528.
- Sperry, Russell L. Production of synthetic resinous materials by acid charring of lignins. 2,894,940, 7-14-59, Cl. 260—124.
- Sperry-Sun Well Surveying Co.: See—  
 Butterworth, Gilbert J., and Young. 2,886,397.
- Sperzel, Peter J. Pre-set sustaining hinge for toilet seats. 2,901,753, 9-1-59, Cl. 4—240.
- Spes, Hellmuth: See—  
 Enk, Eduard, and Spes. 2,884,454.
- Speth, Peter J. Dynamoelectric machine structure. 2,872,604, 2-3-59, Cl. 310—166.
- Spetner, Lee M. Automatic speed governor. 2,883,975, 4-28-59, Cl. 123—102.
- Spevack, Jerome S. Isotope concentration system. 2,895,803, 7-21-59, Cl. 23—204.
- Spewak, Morwell. Protective covering for bathing suit. 2,896,216, 7-28-59, Cl. 2—46.
- Speziale, Angelo J., to Monsanto Chemical Co. Polyamides. 2,909,566, 10-20-59, Cl. 260—561.
- Sphere Co., Inc., The: See—  
 Beronio, Charles E. 2,904,622.
- Spiatto, Frank. Easel card feeding and glue applying machine. 2,902,279, 9-1-59, Cl. 271—44.
- Spicacci, Attilio R., to Channing Corp. Anti-friction bearings. 2,914,365, 11-24-59, Cl. 308—187.2.
- Spicer, Harold E., R. Crosby, and F. A. Simpson, to Walton Engineering Co. Ltd. Thermally sensitive valves. 2,894,689, 7-14-59, Cl. 236—34.5.
- Spicer, John J., Jr., to Industrial Enterprises, Inc. Push button switch. 2,886,674, 5-12-59, Cl. 200—159.
- Spicer, John J., Jr., to Industrial Enterprises, Inc. Treadle type vehicle turn indicating equipment. 2,897,305, 7-28-59, Cl. 200—61.29.
- Spichtig, Robert L.: See—  
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- Spickelmier, Betty S.: See—  
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 Gillespie, Russell A. 2,898,646.
- Spickelmier, Carl F.: See—  
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 Gillespie, Russell A. 2,889,588.  
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- Spidy, Alexander R., to Specialties Development Corp. Inflator with water soluble release. 2,894,658, 7-14-59, Cl. 222—5.
- Spiecker, Friedrich, to Siemens & Halske, Akt. Automatic telephone system. 2,875,280, 2-24-59, Cl. 179—18.
- Spiegel, Israel, O. Schneider, deceased; by R. Schneider, legal representative, to Nopco Chemical Co. Removal of impurities from irradiated 7-dehydrocholesterol. 2,895,971, 7-21-59, Cl. 260—397.25.
- Spiegel, Maurice L., to La Maur Inc. Sprayable water-free alcoholic polyvinylpyrrolidone hair preparation. 2,871,161, 1-27-59, Cl. 167—87.1.
- Spiegel, Robert M.: See—  
 Jaffe, David L., and Spiegel. 2,903,584.
- Spiegel, Robert M., to Tele-Dynamics Inc. Carrier operated relay circuit. 2,906,867, 9-29-59, Cl. 250—20.
- Spiegelberg, Hans: See—  
 Schlaffer, Reinhard, and Spiegelberg. 2,881,160.
- Spiegelhalter, William G., to General Electric Co. Window closure for room air conditioner. 2,911,899, 11-10-59, Cl. 98—94.
- Spiegler, Louis, to E. I. du Pont de Nemours and Co. Process for preparing bis(chloroformates) of 1,2-diols. 2,873,291, 2-10-59, Cl. 260—463.
- Spiegler, Louis, to E. I. du Pont de Nemours and Co. Stabilization of organic isocyanates. 2,885,420, 5-5-59, Cl. 260—453.
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- Spielberg, Arnold M., to Radio Corp. of America. Electronic library system. 2,885,659, 5-5-59, Cl. 340—174.
- Spielberg, Arnold M., H. P. Guerber, and L. C. Hobbs, to Radio Corp. of America. System to control inter-message spacing. 2,907,010, 9-29-59, Cl. 340—174.
- Spielman, James F., to The Aerotherm Corp. Buckles. 2,882,581, 4-21-59, Cl. 24—230.
- Spielman, Marvin A.: See—  
 Michaels, Raymond J., Jr., and Spielman. 2,884,442.
- Spier, Hans G., to Baldwin-Lima-Hamilton Corp. Free piston engine. 2,869,524, 1-20-59, Cl. 123—46.
- Spieler, Edward D.: See—  
 Callan, Joseph M., and Spierer. 2,889,513.
- Spies, George R., Jr., to Air Reduction Co., Inc. Cutting torch tip. 2,881,826, 4-14-59, Cl. 158—27.4.
- Spies, Fred N., to The Regents of the University of California. Frequency modulating accelerometer. 2,917,300, 12-15-59, Cl. 264—1.
- Spies, John P.: See—  
 Bisgard, Andrew N., Robinson, and Spiess. 2,869,594.
- Spies, Newton E., Jr., and M. J. Zenk, Jr., to National Dairy Products Corp. Cheese curd metering apparatus. 2,893,609, 7-7-59, Cl. 222—219.
- Spies, Newton E., Jr., and R. A. Hollis, to National Dairy Products Corp. Method and apparatus for the continuous production of cheese curd. 2,908,575, 10-13-59, Cl. 99—116.
- Spiessl, Ewald: See—  
 Gebele, Kurt, and Spiessl. 2,917,983.
- Spievak, Louis A. Type composing apparatus. 2,887,936, 5-26-59, Cl. 95—4.5.
- Spiezio, Salvatore: See—  
 Akselrad, Joseph, and Spiezio. 2,919,073.
- Spillane, Philip D.: See—  
 Goering, Hans G., Schneider, and Spillane. 2,914,357.
- Spillane, Thomas F. Apparatus for cooling a welding cable. 2,914,598, 11-24-59, Cl. 174—15.
- Spillar, Rudolph, to Western Electric Co., Inc. Apparatus for spreading wires of wire spring relay components and welding contacts thereto. 2,901,589, 8-25-59, Cl. 219—78.
- Spiller, William R., and T. H. Johnson, to Harris-Intertype Corp. Web tension control for rotary printing press. 2,897,754, 8-4-59, Cl. 101—180.
- Spillman, Kenneth W., to The Parker Pen Co. Apparatus for injection molding of articles made of a thermoplastic. 2,876,495, 3-10-59, Cl. 18—30.
- Spilman, Raymond: See—  
 Greene, Robert Z., Benson, and Spilman. 2,871,081.
- Spindle Specialty Co.: See—  
 Lindsay, Maurice E. Re. 24,612.



- Spindler, Joseph C., to Zenith Radio Corp. Folded television antenna. 2,888,676, 5-26-59, Cl. 343-744.
- Spindler, Joseph C., to Zenith Radio Corp. Line cord antenna comprising tuned element coiled adjacent line cord. 2,915,627, 12-1-59, Cl. 250-20.
- Spindt, Roderick S.: *See*—  
Emmett, Paul H., Spindt, and Stevens. 2,888,913.
- Spinelli, Biagio A.: *See*—  
Garfinkel, Alan R., Spinelli, and Munt. 2,878,418.
- Spinelli, John J. Plasterboard construction. 2,879,662, 3-31-59, Cl. 72-124.
- Spinetta, Anthony E., to Solux Corp. Direct lighting equipment. 2,879,380, 3-24-59, Cl. 240-9.
- Spining, Warren P., to Worthington Corp. Deaerating feed-water heater. 2,872,999, 2-10-59, Cl. 183-2.5.
- Spink, Donald R.: *See*—  
McCord, Andrew T., and Spink. 2,904,479.
- Spink, Leland K.: *See*—  
Allen, Albert, and Spink. 2,896,656.
- Spinks, Newton H., Jr. Endless track convertible chassis. 2,875,839, 3-3-59, Cl. 180-9.1.
- Spinnbau G. m. b. H.: *See*—  
Caspari, Hans A. 2,904,977.  
Teipel, Rudolf H., and Baake. 2,903,840.  
Ude, Hans L. P. 2,875,476.
- Spinner, Milton: *See*—  
Small, Samuel N. 2,882,373.
- Spinnfaser Aktiengesellschaft: *See*—  
Berndt, Franz, and Sonnenschein. 2,904,454.  
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- Spinnler, Wilhelm: *See*—  
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- Spintex Spinnerei Maschinenbau, G.m.b.H.: *See*—  
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- Spiral Binding Co., Inc.: *See*—  
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- Spire, Etienne, to l'Air Liquide, Societe pour l'Etude et l'Exploitation des Procédes Georges Claude. Apparatus for gas flushing of molten metal. 2,871,008, 1-27-59, Cl. 266-39.
- Spiri, Willy H., to Abegg & Reinhold Co. Kelly bushing centering means. 2,904,311, 9-15-59, Cl. 255-23.
- Spiro, Irving J.: *See*—  
Boyden, Robert E., Eakin, Mark, and Spiro. 2,884,900.
- Spisak, Edward G., to Gar Wood Industries, Inc. Wheel cover. 2,910,323, 10-27-59, Cl. 301-37.
- Spiselman, Joseph W. Apparatus for contacting liquids and gases. 2,890,870, 6-16-59, Cl. 261-30.
- Spitfire Tool and Machine Co., Inc.: *See*—  
Day, Lawrence, Dobrick, and Kay. 2,895,261.
- Spitko, Kenneth F. Sign holding device. 2,902,241, 9-1-59, Cl. 248-208.
- Spitler, Robert E., to General Telephone Laboratories, Inc. Combination push and turn key. 2,894,079, 7-7-59, Cl. 200-1.
- Spittler, Heinrich, to Robert Bosch, G.m.b.H. Ignition noise suppressor. 2,896,120, 7-21-59, Cl. 315-85.
- Spittler, Henry A. Inventory board. 2,909,856, 10-27-59, Cl. 40-36.
- Spitz, Peter H., and D. S. Borey, to Esso Research and Engineering Co. Transfer line discharge nozzle. 2,902,433, 9-1-59, Cl. 208-127.
- Spitzer, Anne, to Lily of France, Inc. Brassiere frame. 2,895,481, 7-21-59, Cl. 128-476.
- Spitzer, Anne, to Lily of France, Inc. Undergarment. 2,899,963, 8-18-59, Cl. 128-542.
- Spitzer, Charles F., and C. A. Rosen, to General Electric Co. Electro-acoustic transducer. 2,911,484, 11-3-59, Cl. 179-110.
- Spitzer, Frank, to Storall Corp. Table support. 2,886,386, 5-12-59, Cl. 311-17.
- Spitzer, Joseph G.: *See*—  
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Nasarevich, Leo S., and Spitzer. 2,916,383.
- Spitzer, Lyman, Jr., to Research Corp. High temperature apparatus. 2,910,414, 10-27-59, Cl. 204-154.2.
- Spitzer, Penn F., Jr., and L. L. Perry, to American Cyanamid Co. Stable concentrated naphthol solutions. 2,883,258, 4-21-59, Cl. 8-46.
- Spitzli, Donald H., and N. R. Dolida, to Akron Products, Inc. Novel float. 2,897,625, 8-4-59, Cl. 43-43.1.
- Spivack, John D., J. B. Peterson, and H. Kroll, to Geigy Chemical Corp. Corrosion-inhibited compositions containing N-(alkylarylsulfonyl) amino acids and salts thereof. 2,908,648, 10-13-59, Cl. 252-47.5.
- Spivack, Stanley. Bench made of corrugated board. 2,895,541, 7-21-59, Cl. 155-169.
- Splinter, August M.: *See*—  
Polkosky, Joseph J., and Splinter. 2,881,343.
- Spitt, Frank G., to Admiral Corp. Signal separator circuit for television receivers. 2,868,873, 1-13-59, Cl. 178-7.3.
- Spitt, Frank G., to Raytheon Co. Transformer coupling of color signal. 2,910,529, 10-27-59, Cl. 178-5.4.
- Spodig, Heinrich. Magnetic separator. 2,901,108, 8-25-59, Cl. 209-219.
- Spodig, Heinrich. Magnet system. 2,910,632, 10-27-59, Cl. 317-201.5.
- Spodobalski, Joseph W., to Morris, Wheeler & Co., Inc. Apparatus for dressing rotary saws. 2,899,848, 8-18-59, Cl. 76-48.
- Spohn, James E., and W. J. Smith, to The Firestone Tire & Rubber Co. Method for producing crimped filaments. 2,875,019, 2-24-59, Cl. 18-54.
- Spokane Kenworth Co.: *See*—  
Dorn, Chester. 2,909,379.
- Spokes, Ray E., to American Brake Shoe Co. Railway tie pads. 2,880,127, 3-31-59, Cl. 154-43.
- Spokes, Ray E., and J. B. Littlefield, to American Brake Shoe Co. Friction elements. 2,901,456, 8-25-59, Cl. 260-41.5.
- Spokes, Raymond E.: *See*—  
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- Spolders, Rudolf: *See*—  
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- Spolter, Annita T.: *See*—  
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- Spolter, Arthur J.: *See*—  
Tschakert, Wilfried. 2,919,361.
- Spomer, Roland J.: *See*—  
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Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,400.  
Bull, Willard C., Cain, Spomer, Finkbeiner, and Hill. 2,911,401.
- Spöndlin, Rodolphe, L. Stouls, H. Bonnaud, and G. Simonet, to Commissariat a l'Energie Atomique. Gas purification process. 2,917,902, 12-22-59, Cl. 62-13.
- Sponge Products Corp.: *See*—  
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Marker, Henry H., and Greenleaf. 2,882,540.
- Sponzilli, William A., to United States of America, Air Force. Electronic monitors for thrust chamber pressure in reaction motors. 2,902,824, 9-8-59, Cl. 60-39.09.
- Spool Max. Bead-stringing machines. 2,885,130, 5-5-59, Cl. 223-48.
- Spooner, Alfred B.: *See*—  
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- Spooner Dryer & Engineering Co. Ltd., The: *See*—  
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- Spooner, Gilbert D.: *See*—  
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- Spooner, Norman F., and F. S. Sibley, to Hoskins Mfg. Co. Thermocouple element. 2,909,428, 10-20-59, Cl. 75-171.
- Spooner, Roy C., to Aluminium Laboratories Ltd. Methods of sealing anodic aluminium oxide coatings. 2,899,368, 8-11-59, Cl. 204-35.
- Spooner, William W., to The Spooner Dryer & Engineering Co. Ltd. Drums for the temperature treatment of materials. 2,878,583, 3-24-59, Cl. 34-122.
- Sporar, Lorraine: *See*—  
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- Sporing, Raymond H.: *See*—  
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- Sporka, Arthur F., to Tee-Pak, Inc. Production of packages. 2,919,059, 12-29-59, Cl. 229-3.5.
- Sporkland, Erik S. Safety-type snap fastener. 2,876,520, 3-10-59, Cl. 24-236.
- Sporlan Valve Co., Inc.: *See*—  
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- Sportarms Mfg. and Development Corp.: *See*—  
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- Sportsman Products Co. The: *See*—  
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- Spotnails, Inc.: *See*—  
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- Spotten, Douglas L.: *See*—  
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- Spottiswoode, Nigel L. and R. J., to National Research Development Corp. Stereoscopic cameras. 2,891,441, 6-23-59, Cl. 88-16.6.
- Spottiswoode, Nigel L. and R. J., to National Research Development Corp. Optical systems for stereoscopic cameras. 2,916,962, 12-15-59, Cl. 88-16.6.
- Spottiswoode, Raymond J.: *See*—  
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Spottiswoode, Nigel L. and R. J. 2,916,962.
- Spotts, Victor J.: *See*—  
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- Spound, Albert M., and J. Martin, said Martin assignor to said Spound. Reclining chair headrest constructions. 2,884,992, 5-5-59, Cl. 155-177.
- Spracklen, John G.: *See*—  
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- Spracklen, John G., to Zenith Radio Corp. Switching tube circuit with auxiliary load energized by self-bias developed at gating grid. 2,875,331, 2-24-59, Cl. 250-27.
- Spracklen, Stanford B., to Beckman Instruments, Inc. Trend recorder. 2,899,258, 8-11-59, Cl. 346-34.
- Spracklen, Stanford B., D. N. Campbell, and C. G. Fellows, to Union Carbide Corp. Apparatus for electrochemical fluid analysis. 2,876,189, 3-3-59, Cl. 204-195.



- Spra-Con Co., The: *See*—  
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 Fedotowsky, Leonid, and Marsh. 2,906,932.  
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 Geiser, David T. 2,899,654.  
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 Kodama, George T. 2,895,093.  
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 Ness, Odvar A., and Lambert. 2,869,052.  
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 Puppulo, Henry F. 2,919,213.  
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 Smyth, Donald M., and Shirn. 2,905,740.  
 Whitham, Frederick H. 2,914,996.  
 Wright, Wayne E., Fitz Gibbons, and Major. 2,885,523.  
 Sprague, Frank N. Land leveling machine. 2,881,540, 4-14-59, Cl. 37-153.  
 Sprague, George S., and H. Z. Friedlander, to American Cyanamid Co. Process for conditioning soil with a polymer containing N-methylol substituents. 2,898,320, 8-4-59, Cl. 260-41.  
 Sprague, Hallie W.: *See*—  
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 Sprague, Lindol H., to Nutone, Inc. Drive interconnection for culinary appliances. 2,917,929, 12-22-59, Cl. 74-16.  
 Sprague, Owen F.: *See*—  
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 Sprague, Robert H., to Sperry Rand Corp. Photographic sensitizing dyes derived from 2-alkyl-6,7-dihydro-4-H-thiopyrano(4,3D) thiazole. 2,892,838, 6-30-59, Cl. 260-240.4.  
 Sprague, Robert H., to Sperry Rand Corp. Sensitizing dyes containing a 6,7-dihydro-4-H-thiopyrano(4,3D)-thiazole nucleus. 2,899,430, 8-11-59, Cl. 260-240.4.  
 Sprague, Robert H., to Sperry Rand Corp. Sensitizing dyes containing a 6,7-dihydro-5-H-thiopyrano(3,2d) thiazole. 2,912,433, 11-10-59, Cl. 260-240.  
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 Sprang, William O., to No-Sag Spring Co. Cutting and twisting device for coiled wire. 2,902,060, 9-1-59, Cl. 140-92.3.  
 Sprattlin, Rebecca C. Complexion brush. 2,886,840, 5-19-59, Cl. 15-160.  
 Spratt, George G., to United States of America, Navy. Weapon release mechanism. 2,886,368, 5-12-59, Cl. 294-83.  
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 Sprecher, Roland O. Means for demonstrating optical refraction. 2,881,536, 4-14-59, Cl. 35-19.  
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 Sprengnether, W. F., Instrument Co., Inc.: *See*—  
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 Sprick, Walter, to International Business Machines Corp. Photocell with transparent photocathode. 2,919,364, 12-29-59, Cl. 313-96.  
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 Spring, John W., to The Cleveland Trencher Co. Crumbing mechanism for excavating machines. 2,908,091, 10-13-59, Cl. 37-80.  
 Spring Machinery Co.: *See*—  
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 Spring Packing Corp.: *See*—  
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 Spring, Samuel: *See*—  
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 Spring, Samuel, and R. H. Elliott, Jr., to Pennsalt Chemicals Corp. Process for aluminum etching. 2,882,134, 4-14-59, Cl. 41-42.  
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 Patterson, Lawrence W. 2,908,397.  
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 Springer, Charles W., to Union Tank Car Co. Static drain arrangement. 2,883,161, 5-26-59, Cl. 220-26.  
 Springer, Donald A. Rubber band dispenser. 2,906,398, 9-29-59, Cl. 206-56.  
 Springer, Henry A. Proctological support. 2,887,151, 5-19-59, Cl. 155-166.  
 Springer, Henry A. Surgical sponge hot liquid bath. 2,892,066, 6-23-59, Cl. 219-43.  
 Springer, Henry A. Illuminating devices. 2,893,379, 7-7-59, Cl. 128-23.  
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 Springer, William H. Rotatable dispensing support for beverage containers. 2,880,951, 4-7-59, Cl. 248-131.  
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- Sproule, Lorne W., L. F. King, and W. C. Pattenden, to Esso Research and Engineering Co. Lithium greases containing excess lithium hydroxide. 2,883,342, 4-21-59, Cl. 252-42.1.
- Sproull, Reavis C., and C. D. Cone, Jr., to Southern Lumber Co. Process for producing nitrogenated and phosphorylated fertilizer, mulch and soil conditioner. 2,881,066, 4-7-59, Cl. 71-29.
- Sprouse, Glen O.: *See*—
- Sesler, Robert W., Baldwin, and Sprouse. 2,874,733.
- Sprouse, Lowell E., to Vernco Corp. Multiple length spiral bladed blower wheel. 2,879,989, 3-24-59, Cl. 230-134.
- Sprouse, Norman T., and G. H. McIntyre, Jr., to United States Borax & Chemical Corp. Method and composition for producing boron trihalides. 2,901,322, 8-25-59, Cl. 23-205.
- Sprout, Waldron & Co., Inc.: *See*—
- Curran, John B., and Grahek. 2,887,718.
- Sprung, Joseph A., and R. M. Lindquist, to General Aniline & Film Corp. Acylated 3-aminopyrazolone couplers. 2,902,366, 9-1-59, Cl. 96-55.
- Spurgeon, Samuel J.: *See*—
- Lock, Robert L., Nilsson, and Spurgeon. 2,884,476.
- Nilsson, Nils L., and Spurgeon. 2,868,865.
- Spurgin, Clarence A. Rolling crust breaker. 2,896,730, 7-28-59, Cl. 172-158.
- Spurlin, William V., to Syntro Corp. Two part feeder bowl. 2,874,667, 2-24-59, Cl. 113-116.
- Spurlino, Pascal, R. S. Hull, and E. E. Rupel, to The National Cash Register Co. Control key operation from sorting racks. 2,868,912, 1-13-59, Cl. 200-61.59.
- Spurlock, Burwell, to California Research Corp. Hydrocarbon conversion process. 2,889,264, 6-2-59, Cl. 208-89.
- Spurlock, James W., to Pan American Petroleum Corp. Plugging formations with asphalt. 2,896,716, 7-28-59, Cl. 166-32.
- Spurr, Eugene V. Micrometer attachment. 2,912,764, 11-17-59, Cl. 33-167.
- Spurr, Robert: *See*—
- Wilcox, Isaac L., Barnes, Patch, and Spurr. 2,901,950.
- Spurr, Robert, to Sealright-Oswego Falls Corp. Liquid dispensing apparatus. 2,882,936, 4-21-59, Cl. 141-59.
- Square D Co.: *See*—
- Anger, Ernest G. 2,881,374.
- Anger, Ernest G. 2,902,634.
- Anger, Ernest G., and Montross. 2,899,620.
- Anger, Ernest G., and Pettitt. 2,885,616.
- Duvall, Harold A., and Miller. 2,917,083.
- Goudy, Paul R., and Stock. 2,885,516.
- Gould, Charles C., and Anger. 2,911,580.
- Gribble, Joseph J. 2,873,330.
- Gribble, Joseph J. 2,902,534.
- Huehnel, Alwin L. 2,867,681.
- Kingdon, Ralph H., and Scheich. 2,889,428.
- Manners, Frank A. 2,911,547.
- Mekelburg, Earl F. 2,881,284.
- Mekelburg, Earl F. 2,895,021.
- Mierendorf, Robert C. 2,873,421.
- Mierendorf, Robert C., and Meyer. 2,915,699.
- Mierendorf, Robert C., and Porter. 2,919,385.
- Mueller, Armand G. 2,911,579.
- Nielsen, Erik J. 2,889,533.
- Schaefer, Carl A., and Gottsacker. 2,902,551.
- Schurr, Charles A. 2,872,633.
- Stanback, Harris I., and Kingdon. 2,902,560.
- Stanback, Harris I., and Kingdon. 2,902,632.
- Van Valkenburg, Hermon L. 2,881,286.
- Ward, Arthur L. 2,871,994.
- White, Paul G. 2,872,632.
- Squier, John M.: *See*—
- Hastings, Russell, Jr., Mackie, and Squier. 2,911,232.
- Squire, Edward N.: *See*—
- Edwards, Walter M., Robinson, and Squire. 2,867,609.
- Squire, Edward N., to E. I. du Pont de Nemours and Co. Process for manufacturing fiber reinforced cross-linked methacrylate resin. 2,899,402, 8-11-59, Cl. 260-41.
- Squire, Herbert D., to Midwest Mfg. Corp. Door hinge. 2,867,839, 1-13-59, Cl. 16-166.
- Squire, Herbert D., to Midwest Mfg. Corp. Refrigerator door gasket. 2,867,862, 1-13-59, Cl. 20-69.
- Squire, Herbert D., to Midwest Mfg. Corp. Refrigerator pull-out shelf. 2,868,607, 1-13-59, Cl. 312-332.
- Squire, Herbert D. Refrigerator door container. 2,898,173, 8-4-59, Cl. 312-248.
- Squire, Herbert D., to Midwest Mfg. Corp. Refrigerator door lock. 2,916,903, 12-15-59, Cl. 70-149.
- Squire, Herbert D., to Admiral Corp. Refrigerator door shelf construction. 2,917,355, 12-15-59, Cl. 312-214.
- Squire, Herbert D., and R. N. Brandt, to Midwest Mfg. Corp. Safety release for refrigerator doors. 2,868,578, 1-13-59, Cl. 292-223.
- Squire, Major, and C. W. Turner, to Thorn Electrical Industries Ltd. Panel light. 2,903,571, 9-8-59, Cl. 240-8.16.
- Squire, William: *See*—
- Glick, Herbert S., Hertzberg, Squire, and Weatherston. 2,902,337.
- Squires, Rathbun B.: *See*—
- Brown, Myron J., and Squires. 2,888,575.
- Squires, Rathbun B., and D. O. Ballinger, to Westinghouse Electric Corp. Electrical measuring system. 2,900,605, 8-18-59, Cl. 324-142.
- Squires, William K.: *See*—
- Wendt, Karl R., Squires, and Gunning. 2,875,270.
- Squires, William K., to Sylvania Electric Products, Inc. Keyed AGC and sync separator circuit. 2,878,311, 3-17-59, Cl. 178-7.3.
- Squires, William K., to Sylvania Electric Products, Inc. Regulation system for television receiver sweep circuits. 2,882,337, 4-14-59, Cl. 178-5.8.
- Squires, William K., to Sylvania Electric Products Inc. Color television receiver. 2,894,060, 7-7-59, Cl. 178-5.4.
- Sramek, Elmer D.: *See*—
- Engleson, Harry E., and Sramek. 2,876,604.
- Engleson, Harry E., and Sramek. 2,881,682.
- Engleson, Harry E., and Sramek. 2,888,125.
- Engleson, Harry E., and Sramek. 2,890,556.
- Engleson, Harry E., and Sramek. 2,900,880.
- Engleson, Harry E., and Sramek. 2,901,084.
- Engleson, Harry E., and Sramek. 2,907,155.
- Engleson, Harry E., and Sramek. 2,914,322.
- Sramek, Elmer D., to F. B. Redington Co. Machine for positioning protectors for tubes containing toothpaste and the like. 2,885,847, 5-12-59, Cl. 53-137.
- Sramek, Elmer D., to F. B. Redington Co. Carton unloader. 2,914,323, 11-24-59, Cl. 271-32.
- Sramek, Elmer D., and E. A. Hartbauer, to F. B. Redington Co. Skip feed drive mechanism for a packaging machine. 2,885,844, 5-12-59, Cl. 53-63.
- Staab, George J., and J. F. Fleming, to Sterling Plastics Co. Perpetual calendar. 2,876,569, 3-10-59, Cl. 40-114.
- Staab, Walter: *See*—
- Kracker, Herbert, Bauer, Kirst, Lowenfeld, and Staab. 2,908,679.
- Stadt, Harold E.: *See*—
- Hradel, Joseph R., Stadt, and Muir. 2,892,406.
- Stadt, Harold E., and J. R. Hradel, to The Dow Chemical Co. Detonator head. 2,889,773, 6-9-59, Cl. 102-20.
- Stadt, Richard L., to International Harvester Co. Hydraulic fluid pressure operated device for clutches. 2,885,049, 5-5-59, Cl. 192-91.
- Staak, Julius H., to General Electric Co. Combination starter motor and magneto for internal combustion engines. 2,874,309, 2-17-59, Cl. 290-38.
- Staar, Marcel J. H. Advertising device. 2,909,858, 10-27-59, Cl. 40-106.45.
- Staats, Henry N. Apparatus for detecting and measuring the depth of reinforcing rods. 2,874,349, 2-17-59, Cl. 324-41.
- Staats, James E., to General Electric Co. Automatic temperature control system. 2,892,917, 6-30-59, Cl. 219-20.
- Staats, William A., to The F. E. Myers & Bro. Co. Quick drain device. 2,869,725, 1-20-59, Cl. 210-137.
- Staatsbedrijf der Posterijen, Telegrafie en Telefonie: *See*—
- Bevoort, Cornelis, and Baudet. 2,867,688.
- Bevoort, Cornelis, and Baudet. 2,876,281.
- Douwes Dekker, Jan M., and Beijinck. 2,892,903.
- Kosten, Leendert. 2,904,775.
- Mulders, Cornelis E., and Visser. 2,894,626.
- Snijders, Antonie. 2,879,334.
- Van Deinsen, Paul A. 2,884,599.
- Van Duuren, Hendrik C. A. 2,903,514.
- Van Duuren, Hendrik C. A. 2,911,473.
- Van Duuren, Hendrik C. A. 2,912,498.
- Van Duuren, Hendrik C. A. 2,912,499.
- Van Duuren, Hendrik C. A., and Snijders. 2,912,578.
- Stabenau, Robert: *See*—
- Jahn, Herbert, Reinecke, Stabenau, and Stahl. 2,877,301.
- Stabenau, Robert, to Siemens & Halske Akt. Page printing teletypewriter. 2,887,531, 5-19-59, Cl. 178-25.
- Stabenow, Georg, to La Mont Steam Generators, Inc. Hot liquid or vapor generator. 2,907,306, 10-6-59, Cl. 122-406.
- Stabil Internacional S. A.: *See*—
- Romero, Manuel. 2,870,027.
- Stableford, John L. Picture projection screen and surround. 2,905,053, 9-22-59, Cl. 88-28.9.
- Stabler, Powell W. Paste wax applicator. 2,908,922, 10-20-59, Cl. 15-131.
- Stabryla, Leon. Fish line jerking devices. 2,877,591, 3-17-59, Cl. 43-15.
- Stacey, Ernest F.: *See*—
- O'Brien, James P., Stacey, and Yeo. 2,916,056.
- Stacey, Ernest W., deceased, by H. M. Stacey, executrix, to United Shoe Machinery Corp. Rough rounding machines. 2,869,156, 1-20-59, Cl. 12-17.2.
- Stacey, Helen M.: *See*—
- Stacey, Ernest W. 2,869,156.
- Stachiewicz, Bogdan R.: *See*—
- Layburn, Robert L., and Stachiewicz. 2,892,932.
- Stachiewicz, Bogdan R., to General Dynamics Corp. Automatic frequency correction in two-way carrier communication systems. 2,871,294, 1-27-59, Cl. 179-15.5.
- Stachiewicz, Bogdan R., to General Dynamics Corp. Automatic frequency correction in suppressed carrier communication systems. 2,871,295, 1-27-59, Cl. 179-15.5.
- Stachiewicz, Bogdan R., to General Dynamics Corp. Frequency band inverting repeater for use in carrier communication systems. 2,908,760, 10-13-59, Cl. 179-15.5.
- Stack, Vernon T., to Hanes Hosiery Mills Co. Stop motion tripper mechanisms for knitting machines. 2,884,775, 5-5-59, Cl. 66-163.



- Stackpole Carbon Co.: *See*—  
 Andrews, Lewis D. 2,896,043.  
 Krellner, Walter G. 2,886,352.  
 Shobert, Erle L., II. 2,870,353.
- Stacy, Charles L., Jr., and R. F. Monroe, to The Dow Chemical Co. Polyethylene compositions containing certain ethynyl alcohols. 2,891,036, 6-16-59, Cl. 260-45.95.
- Stacy, Robert G., to The Budd Co. Enclosed dual-disk brakes for vehicles. 2,901,059, 8-25-59, Cl. 188-73.
- Stacy, Thomas F., to The French Oil Mill Machinery Co. Screw press. 2,902,923, 9-8-59, Cl. 100-145.
- Stadden, Richard S. Play hand car with interconnected steering and propelling means. 2,892,638, 6-30-59, Cl. 280-231.
- Stade, Gerhard, to Herbert Lindner, G. m. b. H. Device for adjusting and controlling the position of movable machine parts for example in machine tools. 2,871,716, 2-3-59, Cl. 74-472.
- Stadelman, Frank, to Latendorf Conveying Corp. Apparatus for de-lidding and de-panning bread loaves or the like. 2,886,195, 5-12-59, Cl. 214-308.
- Stadelman, Frank, to Latendorf Conveying Corp. Method of, and apparatus for, de-lidding and de-panning bread loaves or the like. 2,901,135, 8-25-59, Cl. 214-308.
- Stadelman, William J., and M. L. Wilson, to Liqua-Mix, Inc. Composition and method for preserving the quality of shell eggs. 2,876,110, 3-3-59, Cl. 99-170.
- Stadelmann, Rudolf: *See*—  
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- Stadler, Albert, to Eclipse Fuel Engineering Co. Adjustable proportional mixing burner. 2,877,838, 3-17-59, Cl. 158-118.
- Stadler, Bernie H.: *See*—  
 Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino Trammell, and Dibble. 2,916,698.  
 Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,699.
- Stadler, Henry L., to Bell Telephone Laboratories, Inc. Displacement and speed measuring apparatus. 2,906,953, 9-29-59, Cl. 324-70.
- Stadler, Robert: *See*—  
 Reppe, Walter, and Stadler. 2,883,418.
- Stadler, William F. Fish lure equipment. 2,880,545, 4-7-59, Cl. 43-4.
- Staeger, Werner, and R. Schenk, to Firma Kugelfischer George Schafer & Co. Fuel injection pump. 2,881,705, 4-14-59, Cl. 103-38.
- Staehle, Henry C., and C. K. Tupis, to Eastman Kodak Co. Photomechanical spirit duplicating process. 2,898,852, 8-11-59, Cl. 101-149.4.
- Staehler, Robert E.: *See*—  
 Pearsall, Frank M., Jr., and Staehler. 2,877,357.
- Staerck, Thomas H., to English Electric Valve Co. Ltd. Electron gun structure for cathode ray tubes. 2,871,387, 1-27-59, Cl. 313-32.
- Staeuble, Max, and K. Weber, to Ciba Ltd. New dyestuffs of the peri-dicarboxylic acid imide series. 2,914,531, 11-24-59, Cl. 260-249.5.
- Staff, Patricia. Transparent plastic shoes. 2,887,792, 5-26-59, Cl. 36-2.5.
- Staffansson, Uno. Ships with improved shiphold arrangement. 2,909,141, 10-20-59, Cl. 114-73.
- Staffeld, Stanley E. Clothes hanger. 2,902,173, 9-1-59, Cl. 211-124.
- Staffileno, Arch L.: *See*—  
 Robinson, Paul C., and Staffileno. 2,895,387.
- Staffin, Herbert K.: *See*—  
 Cochrane, John D., III, Ott, Staffin, and Stuart. 2,913,149.
- Staffin, Robert, and R. D. Lohman, to Radio Corp of America. Signal amplitude quantizer. 2,869,079, 1-13-59, Cl. 332-11.
- Stafford, Alton B. Combination air nozzle. 2,869,573, 1-20-59, Cl. 137-223.
- Stafford, George R.: *See*—  
 Klahr, Edwin E. 2,892,330.
- Stafford, John W., to Fas-Flo Filter Corp. Horizontal leaf filter. 2,885,082, 5-5-59, Cl. 210-334.
- Stafford, Joseph D., Jr., and C. E. Alleman, to Phillips Petroleum Co. Purification of ammonia. 2,905,597, 9-22-59, Cl. 202-40.
- Stafford, Linn T., and W. F. Bernadt, to General Electric Co. Method and apparatus for aligning slotted laminations. 2,896,311, 7-28-59, Cl. 29-155.61.
- Stafford, Neil S., to Food Machinery and Chemical Corp. Valve for fluids or fluidized solids especially for the spouts of bag filling apparatus. 2,874,925, 2-24-59, Cl. 251-61.
- Stafford, Neil S., to Food Machinery and Chemical Corp. Scale especially for bag filling machines. 2,883,140, 4-21-59, Cl. 249-63.
- Stafford, Robert W., to American Cyanamid Co. Lubricant in powder metallurgy. 2,882,589, 4-21-59, Cl. 29-182.
- Stafford, Stephen F. Apparatus for handling fluid materials. 2,895,548, 7-21-59, Cl. 161-7.
- Stafford, Veronica H.: *See*—  
 Klahr, Edwin E., and Stafford. 2,892,330.
- Stafiej, Stanley F.: *See*—  
 Groszow, Stephen J., and Stafiej. 2,892,869.  
 Smalley, Janet H., and Stafiej. 2,917,543.
- Wilson, Lucius H., Hopkins, and Stafiej. 2,909,514.
- Stageberg, Wilfred E., to Bemis Bro. Bag Co. Manufacture of bags. 2,913,966, 11-24-59, Cl. 93-20.
- Stagers, John O.: *See*—  
 Rathmann, Heinrich W., Stagers, and Bruner. 2,909,427.
- Stags, Jesse D. Time delay relay. 2,904,728, 9-15-59, Cl. 317-178.
- Stagmeier, Arthur F., to General Foods Corp. Container closure. 2,895,656, 7-21-59, Cl. 222-542.
- Stahl-Armaturen G. m. b. H.: *See*—  
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- Stahl, Clarence R.: *See*—  
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- Stahl, Gerald E., to Casco Products Corp. Offset fender guide. 2,871,814, 2-3-59, Cl. 116-28.
- Stahl, Glenn W., to United States of America, Atomic Energy Commission. Method for removing contamination from precipitates. 2,867,500, 1-6-59, Cl. 23-14.5.
- Stahl, Glenn W., to United States of America, Atomic Energy Commission. Enhancing precipitations by applying soluble complex fluorine-containing reagents. 2,886,408, 5-12-59, Cl. 23-14.5.
- Stahl, Horst: *See*—  
 Jahn, Herbert, Reinecke, Stabenau, and Stahl. 2,877,301.
- Stahl, Leslie W. Workpiece positioning device. 2,884,965, 5-5-59, Cl. 143-174.
- Stahl, Lloyd E., to Woodall Industries, Inc. Head lining assembly. 2,879,105, 3-24-59, Cl. 296-137.
- Stahl, Lloyd E., to Woodall Industries, Inc. Matching and supporting strip for headliner panels. 2,894,298, 7-14-59, Cl. 20-74.
- Stahl, Lloyd E., to Woodall Industries, Inc. Head Liner matching and supporting strip. 2,903,298, 9-8-59, Cl. 296-137.
- Stahl, Oscar C., to The Borden Co. Apparatus for coating hose. 2,894,483, 7-14-59, Cl. 118-50.
- Stahl, Richard F., and C. Woolf, to Allied Chemical Corp. Manufacture of 1,1,1,2,4,4,4-heptafluoro-3-monochlorobutene-2. 2,885,449, 5-5-59, Cl. 260-653.4.
- Stahl, Richard F., and C. Woolf, to Allied Chemical Corp. Manufacture of perchlorofluoropropenes. 2,900,422, 8-18-59, Cl. 260-653.4.
- Stahl, Robert J.: *See*—  
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 Burns, Meryl C., Giel, and Stahl. 2,895,674.
- Stahl, Robert J., and F. W. Krueger, to Ralston Mfg. Co. Paint shaker clamp. 2,901,805, 9-1-59, Cl. 24-250.
- Stahl- und Walzwerke Rasselstein/Andernach Akt.: *See*—  
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- Stähle, Eugen: *See*—  
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- Stahlecker, Hans: *See*—  
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- Stahler, Leonard M.: *See*—  
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- Stahlhut, Leo G., to Day-Brite Lighting, Inc. Recessed lighting fixture mounting assembly. 2,913,214, 11-17-59, Cl. 248-343.
- Stahmann, John A., to Gladding, McBean & Co. Apparatus for placing a design on a three dimensional porous carrier. 2,904,916, 9-22-59, Cl. 41-1.2.
- Stahmer, Bernhardt. Vertical take off and landing apparatus for use with aircraft. 2,884,633, 4-28-59, Cl. 244-12.
- Stahmer, Bernhardt. Hinging bag content dispenser. 2,903-161, 9-8-59, Cl. 222-81.
- Stahmer, Bernhardt. Upright edge bag support. 2,907,538, 10-6-59, Cl. 248-97.
- Stahmer, Bernhardt. Knock-down pontoon boat. 2,916,748, 12-15-59, Cl. 9-2.
- Stahovec, Joseph L.: *See*—  
 Gabor, William D., and Stahovec. 2,868,896.
- Staib, Ludwig A., Jr., to Bristol-Myers Co. Antacid preparations containing acrylic acid polymers and magnesium antacids. 2,912,358, 11-10-59, Cl. 167-55.
- Staicoopoulos, Dimitrios N., to E. I. du Pont de Nemours and Co. Methacrylate resin composition and method of making same. 2,868,760, 1-13-59, Cl. 260-41.
- Staicoopoulos, Dimitrios N., to E. I. du Pont de Nemours and Co. Composition comprising methyl methacrylate polymer, nitrocellulose, reaction product of a bisphenol and a dicarboxylic acid and solvent, process for preparing same and article coated therewith. 2,907,722, 10-6-59, Cl. 260-17.
- Staiger, Kurt, to Stewart-Warner Corp. Sealed coupling for radially and angularly misaligned ducts. 2,879,084, 3-24-59, Cl. 285-165.
- Stainless & Steel Products Co.: *See*—  
 Larson, John I. 2,909,186.
- Stair, Raymond L., to Gadget-Of-The-Month Club, Inc. Cigarette extinguishing apparatus. 2,871,864, 2-3-59, Cl. 131-256.
- Stal, Henricus P., to North American Philips Co., Inc. Device for imparting an axial and a rotary movement to a shaft. 2,894,401, 7-14-59, Cl. 74-99.
- Stalder, Theodore R.: *See*—  
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- Stalego, Charles J., and H. J. Snow, to Owens-Corning Fiberglass Corp. Method and apparatus of forming, processing and assembling fibers. 2,897,874, 8-4-59, Cl. 154-27.



- Staley, A. E. Mfg. Co.: *See*—  
 Brook, Frank H. 2,868,652.  
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 Etheridge, Oliver R. 2,919,214.  
 Hayes, Lester P., and Wolff. 2,881,195.  
 Langlois, David P. 2,891,869.  
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 Lockmiller, Noel R., Mussulman, and Turner. 2,881,075.  
 Smith, Clifford E. 2,871,147.  
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 Staley, John, to Reynolds Metals Co. Aluminum anodes. 2,913,384, 11-17-59, Cl. 204-198.  
 Staley, John, to Reynolds Metals Co. Strip conductor mechanical connection. 2,918,649, 12-22-59, Cl. 339-276.  
 Staley, John, and T. E. Lewis, to Reynolds Metals Co. Insulated strip conductor having end portion folded on controlled radius. 2,879,320, 3-24-59, Cl. 174-75.  
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 Staley, William G. 2,884,089.  
 Staley, Saunders S.: *See*—  
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 Clarke, Daniel J. 2,892,583.  
 Stalker, Edward A. 2,867,407.  
 Stalker, Edward A. 2,869,611.  
 Stalker, Edward A. 2,869,773.  
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 Stalker, Edward A. 2,880,962.  
 Stalker, Edward A. 2,887,957.  
 Stalker, Edward A. 2,888,241.  
 Stalker, Edward A., to The Stalker Development Co. Axial flow rotor construction of joined parts. 2,867,407, 1-6-59, Cl. 253-39.  
 Stalker, Edward A., to The Stalker Development Co. Apparatus including a female die receiving a reciprocating articulated male die for stretch-forming hollow blades. 2,869,611, 1-20-59, Cl. 153-32.  
 Stalker, Edward A., to The Stalker Development Co. Bladed wheels of fabricated construction. 2,869,773, 1-20-59, Cl. 230-134.  
 Stalker, Edward A. Compressors. 2,870,957, 1-27-59, Cl. 230-122.  
 Stalker, Edward A., to The Stalker Development Co. Dampers for bladed wheels. 2,873,946, 2-17-59, Cl. 253-77.  
 Stalker, Edward A., to The Stalker Development Co. Thin wall bladed wheels for axial flow machines. 2,875,948, 3-3-59, Cl. 230-134.  
 Stalker, Edward A., to The Stalker Development Co. Vibration dampers for gas turbine wheels and the like. 2,877,980, 3-17-59, Cl. 253-77.  
 Stalker, Edward A. Cooled turbine blades. 2,879,028, 3-24-59, Cl. 253-39.15.  
 Stalker, Edward A., to The Stalker Development Co. Fabricated bladed compressor wheels. 2,880,926, 4-7-59, Cl. 230-134.  
 Stalker, Edward A., to The Stalker Development Co. Axial flow bladed rotor construction. 2,880,962, 4-7-59, Cl. 253-39.  
 Stalker, Edward A., to The Stalker Development Co. Bladed axial flow pump construction. 2,887,957, 5-26-59, Cl. 103-89.  
 Stalker, Edward A., to The Stalker Development Co. Fabricated cooled turbine blades. 2,888,241, 5-26-59, Cl. 253-39.15.  
 Stalker, Edward A., to The Stalker Corp. Fluid rotor construction. 2,889,107, 6-2-59, Cl. 230-119.  
 Stalker, Edward A., to The Stalker Corp. Process for fabricating hollow blades. 2,889,615, 6-9-59, Cl. 29-156.8.  
 Stalker, Edward A., to The Stalker Corp. Fabricated axial flow bladed structures. 2,891,719, 6-23-59, Cl. 220-134.  
 Stalker, Edward A. Elastic fluid machine for increasing the pressure of a fluid. 2,895,667, 7-21-59, Cl. 230-120.  
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 Stallard, Ross G. Vertically adjustable demountable chair seat. 2,891,599, 6-23-59, Cl. 155-82.  
 Staller, Karel J., to International Telephone and Telegraph Corp. Methods and apparatus for color coding electric conductors. 2,885,739, 5-12-59, Cl. 18-61.  
 Staller, Karel J. Toy cap gun with longitudinally movable actuator. 2,899,766, 8-18-59, Cl. 42-57.  
 Staller, Karel J., and E. F. Svec, to Flexigrip Inc. Slider for slide fasteners. 2,867,877, 1-13-59, Cl. 24-201.  
 Stallings, Percy S., Jr., to Phillips Petroleum Co. Process and apparatus for purification of crystals. 2,913,344, 11-17-59, Cl. 99-205.  
 Stalkamp, Hubert G., to The Babcock & Wilcox Co. Gas recirculation method and automatic apparatus for superheat control. 2,875,736, 3-3-59, Cl. 122-479.  
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 Stamatoff, Gelu S., to E. I. du Pont de Nemours and Co. Stabilized polymeric 2,3-dichloro-1,3-butadiene. 2,915,495, 12-1-59, Cl. 260-45.7.  
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- Stanchus, Frank T.: *See—*  
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- Stanchus, Frank T., to Union Carbide Corp. Gas shielded arc cutting. 2,907,863, 10—6—59, Cl. 219—69.
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 Kapff, Sixt F. 2,888,330.  
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 Kerns, Gordon D. 2,911,350.  
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 Kolb, Kenneth E. 2,901,505.  
 Krebs, John R. 2,893,849.  
 Leisey, Frank A. 2,876,327.  
 Lemmon, Norman E., and Fields. 2,907,713.  
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 Lien, Arthur P., and McCaulay. 2,868,854.  
 Malloy, John B. 2,916,433.  
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 Marti, Paul O., Jr. 2,879,133.  
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 McCaulay, David A. 2,881,228.  
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 Meyer, Delbert H. 2,873,292.  
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 Neesley, John D. 2,913,349.  
 Nerheim, Arvie G. 2,892,759.  
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 Oita, Katashi, and Nevitt. 2,903,404.  
 Peters, Edwin F., and Evering. 2,880,201.  
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 Peterson, Kenneth C., and Corcoran. 2,905,708.  
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 Randall, Pryor N. 2,901,332.  
 Reinold, Eugene J. 2,914,936.  
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 Sabol, Albert R. 2,910,462.  
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 Schnaith, Robert F., and Kalinowski. 2,906,611.  
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 Thorne, Henry C., Jr., and Brehm. 2,877,173.  
 Tom, Theodore B., and Brehm. 2,914,479.  
 Uhl, Roy B., and Luetzelshwab. 2,896,657.  
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 Wennerberg, Arnold N. 2,914,453.  
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 Wolff, William F., and Hill. 2,877,176.  
 Wright, Lawrence T. 2,902,885.  
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 Zajac, Stephen J., and Swanson. 2,911,369.  
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- Standard Oil Co. of California: *See—*  
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- Standard Oil Co. (Ohio), The: *See*—  
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Hardman, Harley F. 2,877,129.  
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Reagan, John J. 2,883,973.  
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Stine, Harrison M., Strecker, and Faris. 2,906,701.  
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- Standard Packaging Corp.: *See*—  
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- Standard Steel Works, Inc.: *See*—  
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- Standifer, Lafayette B., Jr., and F. S. Simpson, to Dempster Brothers, Inc. Automatic hooks. 2,872,237, 2-3-59, Cl. 294—83.
- Standiford, Fred A. Decontamination system. 2,870,758, 1-27-59, Cl. 123—119.
- Standish, Earl L., to Allis-Chalmers Mfg. Co. Hydrogen seal for dynamoelectric machines. 2,895,751, 7-21-59, Cl. 286—19.
- Standish, William C., Jr., to United States Rubber Co. Device for circumferentially locating mold lettering. 2,874,472, 2-24-59, Cl. 33—21.
- Standley, Archibald D., Jr.: *See*—  
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- Standley, Wendell E.: *See*—  
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Nigrelli, Biagio J., Standley, and Wittmann. 2,890,785.
- Standlick, Ronald E., and D. E. Trumbull, to Pyles Industries, Inc. Automatic lubricator for conveyor mechanism. 2,917,133, 12-15-59, Cl. 184—15.
- Standridge, Claudie M., to Houston Oil Field Material Co., Inc. Eccentric spud bit. 2,903,239, 9-8-59, Cl. 255—1.6.
- Standridge, Joseph O., to Houston Oil Field Material Co., Inc. Guided rotary shoe. 2,902,261, 9-1-59, Cl. 255—72.
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- Standing, Norman, to Imperial Chemical Industries Ltd. Manufacture of highly polymeric polymethylene terephthalates. 2,899,410, 8-11-59, Cl. 260—75.
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- Stanford Laboratories, Inc.: *See*—  
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- Stanford, Robert C., to The Hallicrafters Co. Suppressed carrier modulating system. 2,915,711, 12-1-59, Cl. 332—52.
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- Stanley, James A., and M. N. Slater, to Radio Corp. of America. Method of aluminizing phosphor screens. 2,910,376, 10-27-59, Cl. 117—33.5.
- Stanley, Alfred H., to Joslyn Mfg. and Supply Co. Insulator bracket. 2,909,590, 10-20-59, Cl. 174—162.
- Stanley Aviation Corp.: *See*—  
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- Stanley, Charles V.: *See*—  
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- Stanley, Dale L. Ice cream dispensers. 2,899,988, 8-18-59, Cl. 141—90.
- Stanley, Henry W., Jr. Reinforced plastic mooring buoy. 2,911,658, 11-10-59, Cl. 9—8.
- Stanley Home Products, Inc.: *See*—  
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Szlachetka, Stella. 2,893,039.
- Stanley, James K., and G. F. Tisinai, to Standard Oil Co. Alloy compositions. 2,890,955, 6-16-59, Cl. 75—126.
- Stanley, John C., R. B. Moore, Jr., W. B. Frazier, and C. F. Williams, to Gateway Corp. Automatic hopper fed painting machine. 2,899,930, 8-18-59, Cl. 118—404.
- Stanley, John E., to Duo-Flex Corp. Acoustical ceiling. 2,882,559, 4-21-59, Cl. 20—4.
- Stanley, John H., to Parker-Hannifin Corp. Hand operated tube flaring tool. 2,891,598, 6-23-59, Cl. 153—79.
- Stanley John P., and C. W. Bradley, to R. P. Scherer Corp. Gelatin composition for capsules. 2,870,062, 1-20-59, Cl. 167—83.
- Stanley, Joseph M., to United States of America, Army. Insulated electrode. 2,907,808, 10-6-59, Cl. 136—4.
- Stanley, Leonard G.: *See*—  
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- Stanley, Lester N., and F. W. Posselt. Diazotizable amine compositions. 2,893,815, 7-7-59, Cl. 8—44.
- Stanley, Menloe L. Fastening devices. 2,876,517, 3-10-59, Cl. 24—131.
- Stanley, Paul H., to Autogiro Co. of America. Method of operating rotary wing aircraft including jet-driven rotors. 2,889,887, 6-9-59, Cl. 170—135.4.
- Stanley Products Co.: *See*—  
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- Stanley, Thomas C. Fishing lure. 2,886,913, 5-19-59, Cl. 43—42.19.
- Stanley, William L., to Union Oil Co. of California. Method of producing ammonium sulfate from acid sludges. 2,917,364, 12-15-59, Cl. 23—119.
- Stanley, William L., and S. H. Vannier, to United States of America, Agriculture. Isolation of furcoumarins. 2,889,337, 6-2-59, Cl. 260—343.2.
- Stanley, William N., Jr.: *See*—  
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- Stanley Works, The: *See*—  
Curtiss, George E., Jr., and Carroll. 2,877,040.  
Ferguson, Harold W. 2,911,210.  
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- Stanphill, Roy D., to Esso Research and Engineering Co. Method of inhibiting the deposition of formally solid paraffins from a petroliferous fluid containing same. 2,873,253, 2-10-59, Cl. 252—8.55.
- Stansbury, B. J., Inc.: *See—*  
St. Hilaire, Joseph L. 2,888,938.
- Stansbury, Burton J. Bumper mat for pipe. 2,896,762, 7-28-59, Cl. 193—41.
- Stansbury, Carroll: *See—*  
Montgomery, George F., and Stansbury. 2,889,519.
- Stansbury, Harry A., Jr.: *See—*  
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- Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. New preparation of 2,5-dimethylcyclopentanone. 2,875,249, 2-24-59, Cl. 260—586.
- Stansbury, Harry A., Jr., and H. F. Lykins, to Union Carbide Corp. Preparation of quinolines. 2,886,568, 5-12-59, Cl. 260—283.
- Stansbury, John G.: *See—*  
Bortoms, Paul H., Clapp, Loggins, and Stansbury. 2,918,696.  
Clapp, Robert J., Latham, and Stansbury. 2,897,546.
- Stansell, Alpheus F.: *See—*  
Boyd, Robert E., Scozzafava, and Stansell. 2,894,449.
- Stansell, Alpheus F., to Clary Corp. Advancing-retracting means for calculating machine pin carriage. 2,917,231, 12-15-59, Cl. 235—60.
- Stanthony Corp.: *See—*  
Joseph, Stanley M. 2,903,549.
- Stanton, Austin N. Presentation devices for visual information. 2,872,840, 2-10-59, Cl. 88—1.
- Stanton, Austin N. Bandages. 2,880,863, 4-7-59, Cl. 206—63.2.
- Stanton, Austin N. Fluid density transducers. 2,891,400, 6-23-59, Cl. 73—182.
- Stanton, Austin N. Electric discharge devices. 2,910,619, 10-27-59, Cl. 315—14.
- Stanton, Austin N. Micro-circuits, electric devices therefor, and methods for making same. 2,913,632, 11-17-59, Cl. 317—101.
- Stanton, Austin N. Acceleration and velocity detection devices and systems. 2,916,279, 12-8-59, Cl. 264—1.
- Stanton, Frank G.: *See—*  
Ralleo, James, Stanton, and Chiaramonte. 2,892,434.
- Stanton, George E., to Bendix Aviation Corp. Tire inflating valve for aircraft wheel. 2,871,905, 2-3-59, Cl. 152—404.
- Stanton, George W., T. B. Leferdink, R. W. Meikle, and M. J. Charlesworth, to The Dow Chemical Co. Method and composition for rendering polyacrylonitrile readily dyeable. 2,899,262, 8-11-59, Cl. 8—100.
- Stanton, Harold S., to Research Corp. Weed burner. 2,904,032, 9-15-59, Cl. 126—271.2.
- Stanton, Maurice: *See—*  
Potter, Richard P. 2,882,772.
- Stanton, Philip L. Pressure breathing therapy apparatus. 2,870,763, 1-27-59, Cl. 128—29.
- Stanton, Philip L. Resuscitator. 2,908,270, 10-13-59, Cl. 128—29.
- Stanton, Robert J.: *See—*  
Rudd, Wallace C., and Stanton. 2,904,668.
- Stanton, Robert J., and W. C. Rudd, to Magnetic Heating Corp. Welding of seams by high frequency resistance heating. 2,887,560, 5-19-59, Cl. 219—67.
- Stanton, Rozell P.: *See—*  
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- Stanton, Walter O. Magnetic phonograph pickup. 2,917,590, 12-15-59, Cl. 179—100.41.
- Stanwyck, Edmund. Apparatus for making and applying terminals to coil forms. 2,885,679, 5-12-59, Cl. 1—2.
- Stapf, Joseph E. Clothes washing apparatus. 2,911,813, 11-10-59, Cl. 68—20.
- Stapf, Robert J., to Kraft Foods Co. Emulsified salad dressings. 2,885,292, 5-5-59, Cl. 99—144.
- Staples, Alfred T.: *See—*  
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Watkins, Willie R. 2,915,071.
- Staples, Charles F. Boring machines. 2,902,890, 9-8-59, Cl. 77—3.
- Stanley, Crawford E., to Westinghouse Air Brake Co. Two-direction coded track circuit control for railway signals. 2,874,272, 2-17-59, Cl. 246—38.
- Staples, Crawford E., to Westinghouse Air Brake Co. Phase sensitive alternating current track circuit. 2,884,516, 4-28-59, Cl. 246—34.
- Staples, Lynn W., to Saginaw Wire Products Inc. Spring structures. 2,870,823, 1-27-59, Cl. 155—179.
- Staples, Lynn W., and R. D. Strout, to Saginaw Wire Products, Inc. Spring assembly. 2,875,818, 3-3-59, Cl. 155—179.
- Staples, Otis E., to Tectron, Inc. Automatic work loader for vertical hobbing machine. 2,885,929, 5-12-59, Cl. 90—4.
- Stapleton, Richard J.: *See—*  
McKim, Burton, and Stapleton. 2,904,636.
- Stapling Machines Co.: *See—*  
Greene, John P. 2,900,108.  
Peters, Guilford B. 2,893,587.
- Sta-Rite Products, Inc.: *See—*  
Bliss, Carl M. 2,911,916.
- Star Porcelain Co., The: *See—*  
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- Star Recorder Corp. of Denver, The: *See—*  
Phillips, Oliver V. 2,913,195.
- Star Shade Cutter Co.: *See—*  
Gast, Albert K., and A. K. Gast, Jr. 2,888,048.
- Star Stampa Tessuti Artistici S.p.A.: *See—*  
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- Starbird, James F., and N. C. Bacom. Remote control apparatus. 2,896,472, 7-28-59, Cl. 74—491.
- Starcher, Paul S.: *See—*  
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- Starck, Clemens B., to Eastman Kodak Co. Polystyrene film elements and subbing compositions therefor. 2,872,318, 2-3-59, Cl. 96—87.
- Starck, Hans: *See—*  
Starck, Werner and H., and Schüde. 2,901,443.
- Starck, Noel L. Safeguard device for automotive electrical systems. 2,904,702, 9-15-59, Cl. 307—10.
- Starck, Werner: *See—*  
Ossenbrunner, Armin, Klockgether, Starck, and Langbein. 2,913,351.
- Starck, Werner and H., and F. Schüde, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for preparing high molecular compounds. 2,901,443, 8-25-59, Cl. 260—2.
- Stareck, Jesse E., E. J. Seyb, Jr., A. A. Johnson, and W. H. Rowan, to Metal and Thermit Corp. Process for chromium plating. 2,916,424, 12-8-59, Cl. 204—51.
- Stargardt, Albert R., to Washington Steel Corp. Process for treating ore. 2,914,396, 11-24-59, Cl. 75—13.
- Stark, Arnold L.: *See—*  
Cheney, Grant W., and Stark. 2,878,154.
- Stark Ceramics, Inc.: *See—*  
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- Stark, Charles H. and G. F., to Automatic Remote Systems, Inc. Sensing mechanism. 2,890,828, 6-16-59, Cl. 235—61.11.
- Stark, Donald E.: *See—*  
Cornish, Eugene S., and Stark. 2,915,696.
- Stark, Eduard. Coin-operated liquid delivery machine. 2,901,077, 8-25-59, Cl. 194—13.
- Stark, Gunnard E.: *See—*  
Mundell, Elmore H., and Stark. 2,911,728.  
Schwartz, James, and Stark. 2,900,901.
- Stark, Guy F.: *See—*  
Stark, Charles H. and G. F. 2,890,828.
- Stark, John, Jr., and L. Dietch, to Radio Corp. of America. Color television receiver brightness control. 2,872,617, 2-3-59, Cl. 315—30.
- Stark, John B., to United States of America, Agriculture. Separations of nitrogenous organic compounds. 2,891,945, 6-23-59, Cl. 260—211.5.
- Stark, Julius A. Cattle oiler. 2,912,961, 11-17-59, Cl. 119—157.
- Stark, Louis, to Hughes Aircraft Co. Phase shifter. 2,897,459, 7-28-59, Cl. 333—31.
- Stark, Robert A.: *See—*  
Carmichael, Mead S., Jr., and Stark. 2,918,292.
- Stark, Samuel. Reversible garment. 2,873,738, 2-17-59, Cl. 128—159.
- Stark, Walter, to F. Soenneken. Loose leaf binder mechanisms. 2,871,711, 2-3-59, Cl. 74—97.
- Stark, Walter H.: *See—*  
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- Stark, William H. C.: *See—*  
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Mackenzie, William A., and Stark. 2,875,571.
- Starke, Herbert F., to Raytheon Co. Transistor stabilization circuits. 2,915,600, 12-1-59, Cl. 179—171.
- Starkenber, Arnold. Dispenser for comminuted commodities. 2,873,890, 2-17-59, Cl. 222—136.
- Starker, Lee N.: *See—*  
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- Starkey, Charles M., to Rockwell Mfg. Co. Parking meters. 2,906,386, 9-29-59, Cl. 194—72.
- Starkey, William A., to Ransburg Electro-Coating Corp. Method and apparatus for electrostatically coating an article. 2,888,362, 5-26-59, Cl. 117—47.
- Starks, Fred W., to E. I. du Pont de Nemours and Co. Preparation of trimeric hydrogen cyanide. 2,878,249, 3-17-59, Cl. 260—248.
- Starks, Fred W., to E. I. du Pont de Nemours and Co. Stabilization of chlorinated hydrocarbons. 2,919,295, 12-29-59, Cl. 260—652.5.
- Starks, Milton G. Tool trailer. 2,891,800, 6-23-59, Cl. 280—2.
- Starline, Inc.: *See—*  
Ferris, Robert G. 2,904,001.  
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- Starling, Leslie R., and J. A. Tiffany. Anchor bolt. 2,878,668, 3-24-59, Cl. 72—105.
- Starnes, Earl W. Apparatus for making yarn. 2,867,967, 1-13-59, Cl. 57—36.
- Starnes, William C.: *See—*  
Montgomery, Charles W., Starnes, and Zabor. 2,910,523.
- Starnes, William C., and R. C. Zabor, to Gulf Research & Development Co. Hydroisomerization process and apparatus. 2,906,798, 9-29-59, Cl. 260—683.65.
- Starr, Allan M. Spark plug. 2,878,299, 3-17-59, Cl. 123—169.
- Starr, Allan M., to United States of America, Atomic Energy Commission. Calutron ion source slit cleaner. 2,901,619, 8-25-59, Cl. 250—41.9.
- Starr, Charles S., and O. G. Barnes, to Notat Tire Co. Wheel for vehicles. 2,901,020, 8-25-59, Cl. 152—307.
- Starr, David A., Jr.: *See—*  
Kenosian, Harry, Seif, and Starr. 2,876,058.
- Starr, David A., Jr., to Burroughs Corp. Magnetic transducing means. 2,879,340, 3-24-59, Cl. 179—100.2.
- Starr, Donald F., and D. R. Calsetta, to S. B. Penick & Co. Fish toxicant compositions and method of using them. 2,884,356, 4-28-59, Cl. 167—46.
- Starr, James E., to Tatnall Measuring Systems Co. Column elongation transducer type testing machine. 2,900,818, 8-25-59, Cl. 73—95.
- Starr, James E., to Control Devices, Inc. Electronic memory circuit. 2,905,879, 9-22-59, Cl. 320—1.
- Starr, John H. Flush tank heating means. 2,895,140, 7-21-59, Cl. 4—18.
- Starr, Marvin G.: *See—*  
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- Starr, Norbert T., to Crawford Door Co. Dual door mechanism. 2,898,985, 8-11-59, Cl. 160—113.
- Starr, Rachel D. Bootblack stand. 2,875,465, 3-3-59, Cl. 15—267.
- Starr, Ralph W., to Selma Trailer & Mfg. Co. Telescopically adjustable control apparatus. 2,918,298, 12-22-59, Cl. 280—43.23.
- Starr, Raymond T., to Columbian Rope Co. Method of making synthetic fiber rope and rope produced thereby. 2,880,568, 4-7-59, Cl. 57—140.
- Starr, Sam. Foot powder and air circulating shoe. 2,887,793, 5-26-59, Cl. 36—3.
- Starre, Gerrit, to North American Philips Co., Inc. Dry shaver shear plate and cutter construction. 2,877,548, 3-17-59, Cl. 30—43.
- Starre, Gerrit, and E. Bakker, to North American Philips Co., Inc. Dry shaver with a self adjusting shear plate and rotary cutter. 2,900,720, 8-25-59, Cl. 30—43.
- Starrett, Delbert, to Phillips Petroleum Co. Motor valve. 2,908,478, 10-13-59, Cl. 251—58.
- Starrett, L. S., Co., The: *See—*  
Bishop, John I. 2,910,781.
- Metevia, William P. 2,871,571.
- Starrett, Leonard H. Weeding, mulching, and cultivating implement having auger-type digging elements. 2,876,850, 3-10-59, Cl. 172—42.
- Starreveld, Jaap, and A. C. de Klerk, to North American Philips Co., Inc. Radio receiver regulating voltage circuit. 2,874,275, 2-17-59, Cl. 250—20.
- Starrframaschinen A.G.: *See—*  
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- Glaser, Rolf. 2,899,868.
- Scherrer, Kurt. 2,914,991.
- Starriett, Robin J.: *See—*  
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- Starry, Raymond A. Jam-proof feed mouth assembly for ammunition containers. 2,895,382, 7-21-59, Cl. 89—34.
- Start, Ernest: *See—*  
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- Start, Ernest, and R. Blood, to William Cotton, Ltd. Straight bar knitting machine. 2,873,593, 2-17-59, Cl. 66—82.
- Start, Ernest, and L. Brown, to William Cotton Ltd. Straight bar knitting machines. 2,899,811, 8-18-59, Cl. 66—126.
- Starts, Albert. Power transmitting apparatus. 2,888,838, 6-2-59, Cl. 74—606.
- Starworth, Irving J., 20% to M. Zucker. Globe and method of manufacturing. 2,877,570, 3-17-59, Cl. 35—46.
- Staschover, Leo: *See—*  
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- Staschover, Leo, to Sterling Precision Corp. Single channel frequency resolver. 2,889,516, 6-2-59, Cl. 324—82.
- Staskiewics, Joseph C., and W. F. Ptak. Automatic hooksetter. 2,887,812, 5-26-59, Cl. 43—15.
- Stastny, Miroslav: *See—*  
Klaboch, Ladislav, and Stastny. 2,904,997.
- Statement, Murray J., to Sylvania Electric Products Inc. Low frequency magnetic generator. 2,875,398, 2-24-59, Cl. 321—69.
- Statham Instruments, Inc.: *See—*  
Di Giovanni, Mario. 2,885,520.
- Di Giovanni, Mario. 2,909,744.
- Di Giovanni, Mario. 2,918,641.
- Di Giovanni, Mario M. 2,889,526.
- Grant, Earl W. 2,885,644.
- Grant, Earl W. 2,896,057.
- Rosa, Gilbert N. 2,867,121.
- Statham Instruments, Inc.: *See—Continued*  
Statham, Louis D. 2,867,115.
- Statham, Louis D. 2,867,706.
- Statham, Louis D. 2,878,352.
- Statham, Louis D. 2,889,527.
- Statham, Louis D. 2,905,916.
- Statham, Louis D. 2,909,743.
- Stedham, Cecil K. 2,907,560.
- Stedman, Cecil K. 2,909,364.
- Statham, Louis D., to Statham Instruments, Inc. Means for extending range of transducers. 2,867,115, 1-6-59, Cl. 73—398.
- Statham, Louis D., to Statham Instruments, Inc. Pressure sensitive resistor. 2,867,706, 1-6-59, Cl. 201—63.
- Statham, Louis D., to Statham Instruments, Inc. Electrical motion sensing means. 2,878,352, 3-17-59, Cl. 201—63.
- Statham, Louis D., to Statham Instruments, Inc. Electrical strain wire transducer. 2,889,527, 6-2-59, Cl. 338—4.
- Statham, Louis D., to United States of America, Navy. Fuze. 2,900,911, 8-25-59, Cl. 102—70.2.
- Statham, Louis D., to Statham Instruments, Inc. Electrical motion sensing device. 2,905,916, 9-22-59, Cl. 338—6.
- Statham, Louis D., to Statham Instruments, Inc. Electrical strain wire transducer. 2,909,743, 10-20-59, Cl. 338—4.
- Stationser Loose Leaf Co.: *See—*  
Lotter, Adolph G. 2,886,039.
- Statler, Lowell. Grinding head. 2,895,266, 7-21-59, Cl. 51—180.
- Statni vyzkumny ustav tepelne techniky Praha: *See—*  
Loos, Horst R. 2,903,646.
- Statsinger, Joseph: *See—*  
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- Statsinger, Joseph, to American Bosch Arma Corp. Vertical sensing device. 2,879,669, 3-31-59, Cl. 74—5.6.
- Statz, Hermann. Junction transistors and methods for making them. 2,899,343, 8-11-59, Cl. 148—1.5.
- Staub, Guy A. Storage rack for pipe-like objects. 2,917,181, 12-15-59, Cl. 211—60.
- Staubach, Heinrich, to Ernst Leitz Canada Ltd., Optical Works. Telescopic sight. 2,891,445, 6-23-59, Cl. 88—32.
- Stäubli, Max: *See—*  
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- Staubly, Julian L.: *See—*  
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- Stauder, E. G., Mfg. Co., Inc.: *See—*  
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- Staudermann, Wilhelm: *See—*  
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- Staudt, Erwin E.: *See—*  
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- Staudt, Erwin E., to Eastman Kodak Co. Container for holding photographic accessories. 2,908,198, 10-13-59, Cl. 88—1.
- Staudt, John G., to The Dow Chemical Co. Method of fracturing oil wells. 2,881,837, 4-14-59, Cl. 166—22.
- Staufenberg, Charles W., Jr., to Raytheon Mfg. Co. Electric charging systems. 2,885,623, 5-5-59, Cl. 320—45.
- Stauffer, Helmut P. Bobbin support. 2,914,271, 11-24-59, Cl. 242—130.2.
- Stauffer Chemical Co.: *See—*  
Akers, Edward G. 2,893,611.
- Akers, Edward G. 2,893,612.
- Arnold, Chester L., and Bratt. 2,917,462.
- Baker, Edgar B. 2,868,758.
- Baker, Edgar B. 2,882,250.
- Benghiat, Isaac. 2,905,689.
- Fried, John H., and Sandza. 2,910,409.
- Hanks, Charles W., Hunt, and Smith. 2,880,483.
- Pitt, Harold M. 2,870,335.
- Tilles, Harry, and Antognini. 2,887,372.
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- Tilles, Harry, and Lindquist. 2,913,325.
- Tilles, Harry, and Lindquist. 2,913,326.
- Stauffer, Harry C.: *See—*  
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- Stauffer, Ralph J. Turbulent air-intake device for carburetors. 2,868,322, 1-13-59, Cl. 183—48.
- Stauffer, William O., to Kaiser Aluminum & Chemical Corp. Apparatus for discharging molten metal. 2,880,989, 4-7-59, Cl. 266—38.
- Staunt, Martin. Dental handpieces. 2,888,748, 6-2-59, Cl. 32—26.
- Staunt, Martin. Ball bearing assemblies. 2,911,268, 11-3-59, Cl. 308—201.
- Staunt, Martin. Contra angles for dental handpieces. 2,911,721, 11-10-59, Cl. 32—27.
- Stautz, Herbert N.: *See—*  
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- Stautzenberger, Adin L.: *See—*  
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- Stautzenberger, Adin L., and A. F. MacLean, to Celanese Corp. of America. Purification of lower aliphatic acids. 2,900,413, 8-18-59, Cl. 260-540.
- Stautzenberger, Adin L., and A. F. MacLean, to Celanese Corp. of America. Treatment of Raney metal suspensions. 2,903,438, 9-8-59, Cl. 210-54.
- Stava, Eleanor G.: *See—*
- Stava, Robert J., and Hollstein. 2,901,202.
- Stava, Robert J., deceased (by E. G. Stava, executrix), and O. C. Hollstein, to Picker X-Ray Corp., Waite Mfg. Div. Inc. Counter balance. 2,901,202, 8-25-59, Cl. 248-123.
- Stava, Robert J., W. G. Reininger, and G. G. Wilkens, to Picker X-Ray Corp., Waite Mfg. Div. Inc. Photo tube energizer. 2,901,632, 8-25-59, Cl. 250-95.
- Stava, Robert J., and W. G. Reininger, to Picker X-ray Corp. X-ray apparatus and control. 2,906,880, 9-29-59, Cl. 250-58.
- Stavenger, Paul L., and D. E. Wuth, to Dorr-Oliver Inc. Hydrocyclone control. 2,913,112, 11-17-59, Cl. 209-211.
- Stavid Engineering, Inc.: *See—*
- Wolf, Bertram H. 2,887,578.
- Stavis, Gus: *See—*
- Pickles, Sydney B., Dodington, and Stavis. 2,890,449.
- Stavis, Gus, to General Precision Laboratory Inc. Antenna pattern synthesizer. 2,874,381, 2-17-59, Cl. 343-703.
- Stavis, Gus, to General Precision Laboratory Inc. Dual beam antenna. 2,874,382, 2-17-59, Cl. 343-771.
- Stavis, Gus, to General Precision Laboratory Inc. Microwave dual beam linear array. 2,881,436, 4-7-59, Cl. 343-844.
- Stavis, Gus, to General Precision Laboratory Inc. Doppler radio antenna. 2,911,644, 11-3-59, Cl. 343-758.
- Stavoff, Kay: *See—*
- Rohlinger, Merlin J., Hause, Winslow, and Stavoff. 2,886,254.
- Stavrakis, Alexander, and H. G. Reuter, Jr., to Radio Corp. of America. Electrostatic printing. 2,910,964, 11-3-59, Cl. 118-637.
- Stavrinaki, Alexander G., to Bell Telephone Laboratories, Inc. Temperature compensated relay control circuit. 2,885,604, 5-5-59, Cl. 317-131.
- Stayboldt, Paul J.: *See—*
- Detrie, Arthur J., Lingenfelter, O'Neil, Stayboldt, and Troeger. 2,916,197.
- Stayner, Robert A.: *See—*
- Lew, Henry Y., and Stayner. 2,874,127.
- Lowe, Warren, and Stayner. 2,892,690.
- Stayton, Robert D., to Rickert Electric, Inc. Electromagnetic device. 2,908,785, 10-13-59, Cl. 200-104.
- Ste Anonyme Geoffrey-Delore: *See—*
- Haugwitz, Otto. 2,896,869.
- Stead, Clifford, to The Taft-Peice Mfg. Co. Lapping surface conditioning means. 2,883,803, 4-28-59, Cl. 51-131.
- Stead, Richard R., to Texas Instruments Inc. Etching of semiconductor materials. 2,871,110, 1-27-59, Cl. 41-42.
- Steagall, William F., to Sperry Rand Corp. Delay flop. 2,901,635, 8-25-59, Cl. 307-88.
- Steagall, William F., to Sperry Rand Corp. Bistable devices. 2,911,543, 11-3-59, Cl. 307-88.
- Steagall, William F., to Sperry Rand Corp. Quarter adders. 2,914,751, 11-24-59, Cl. 340-174.
- Stearns, Robert B. Electrical connector. 2,916,720, 12-8-59, Cl. 339-91.
- Stear, Edwin B., to Hughes Aircraft Co. Liquid metering device. 2,887,129, 5-19-59, Cl. 138-43.
- Stearn, Clifford A.: *See—*
- Hope, Norris, and Stearn. 2,896,802.
- Stearn, Richard A. Rear gate boat hoist. 2,889,061, 6-2-59, Cl. 214-394.
- Stearn, Richard A. Trailer boat hoist. 2,889,062, 6-2-59, Cl. 213-396.
- Stearns, Carl L.: *See—*
- Valentine, William, and Stearns. 2,889,252.
- Stearns, Charles M., Jr., and O. J. Van Leer, to Grotnes Machine Works, Inc. Method of and means for offset printing. 2,905,082, 9-22-59, Cl. 101-41.
- Stearns, Dick E. Apparatus for coating elongated member. 2,892,441, 6-30-59, Cl. 118-108.
- Stearns, George W., and E. E. Montijo, to Radio Corp. of America. Power switching network. 2,885,548, 5-5-59, Cl. 250-27.
- Stearns, Gerald S., and G. E. Smart. Method and apparatus for progressively compressing the end portion of a wire to form a nail. 2,917,756, 12-22-59, Cl. 10-52.
- Stearns, Harry C. Method and apparatus for improving the efficiency of internal combustion engines. 2,886,019, 5-12-59, Cl. 123-122.
- Stearns, James A.: *See—*
- Grummitt, Oliver J., and Stearns. 2,894,849.
- Stearns-Roger Mfg. Co., The: *See—*
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- Stearns, Thornton: *See—*
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- Wallenfang, Kurt. 2,902,645.
- Steatite Research Corp.: *See—*
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- Steber, Clarence L., to The Pyle-National Co. Single lamp brooder. 2,878,361, 3-17-59, Cl. 219-45.
- Steber, Clarence L., to The Pyle-National Co. Holder for reflector and projecting lamps. 2,918,568, 12-22-59, Cl. 240-81.
- Steber, Clarence L., and F. T. Schleicht, to The Pyle-National Co. Lens collar and retaining spring. 2,878,374, 3-17-59, Cl. 240-151.
- Stebbins, Allen J., to Pfaudler Permutit Inc. Interlocking means for battery of liquid treating units. 2,879,893, 3-31-59, Cl. 210-108.
- Stec, Joseph. Combined sun visor, work support and work container. 2,904,371, 9-15-59, Cl. 296-97.
- Stecher, Edwin O.: *See—*
- Sitterly, Charles K., and Stecher. 2,918,710.
- Stecher, Henry D. Splice box. 2,867,680, 1-6-59, Cl. 174-92.
- Stecher, Henry D., to The Adalet Mfg. Co. Cable seal and support. 2,881,241, 4-7-59, Cl. 174-77.
- Steck, Edgar A., to Sterling Drug Inc. Pyridazine ethers and thioethers, and preparation thereof. 2,905,672, 9-22-59, Cl. 260-250.
- Steck, George L. Hand tool for removing dents from sheet metal plates. 2,900,853, 8-25-59, Cl. 81-15.
- Stecker, Herbert C. Toilet detergent composition containing synergistic di- and tri-halo salicylanilide mixtures. 2,906,711, 9-29-59, Cl. 252-106.
- Steckhahn, Frank L.: *See—*
- Hohnstine, Jack T., Versocki, and Steckhahn. 2,894,928.
- Steckle, Charles, Jr.: *See—*
- Kahl, William D., Jr., and Steckle. 2,919,037.
- Steckler, Robert, F. A. Hessel, and J. Werner, to General Aniline & Film Corp. Liquefied m-phenylenediamine compositions for curing epoxy ether resins. 2,893,973, 7-7-59, Cl. 260-47.
- Steckler, Robert, G. Robinson, and P. Zimiles, to General Aniline & Film Corp. Curing agents for epoxy resins. 2,904,530, 9-15-59, Cl. 260-47.
- Stedelin, Jerome J., Jr., and G. A. Seaton. Time-cost computer. 2,913,172, 11-17-59, Cl. 235-61.8.
- Stedham, Cecil K., to Statham Instruments, Inc. Transducers. 2,907,560, 10-6-59, Cl. 264-1.
- Steding, Arthur: *See—*
- Hartewig, Heinrich, Steding, and Eidel. 2,872,385.
- Stedman, Cecil K., to Statham Instruments, Inc. Acoustic damper. 2,909,364, 10-20-59, Cl. 264-1.
- Stedman, Cecil K., and F. H. Smith, to United States of America, Navy. Microphone. 2,886,794, 5-12-59, Cl. 340-11.
- Stedman, Cresswell E., to U. S. Acoustics Corp. Mixing apparatus. 2,901,228, 8-25-59, Cl. 259-107.
- Stedt, Harry C. Boom-suspension buckets and the like. 2,877,575, 3-17-59, Cl. 37-182.
- Steed, Robert F. Liquid level gauge. 2,868,016, 1-13-59, Cl. 73-322.
- Steed, Stanley: *See—*
- Stamm, Robert H., Fox, and Steed. 2,884,078.
- Steed, William P., to Marchant Research, Inc. Decoupled diode gate circuits. 2,867,734, 1-6-59, Cl. 307-88.5.
- Steede, Otho G., to The Lewis Engineering and Mfg. Co. Christmas tree holder. 2,891,747, 6-23-59, Cl. 248-44.
- Steegestra, John R. Inkless recorder for indicating instruments. 2,909,403, 10-20-59, Cl. 346-74.
- Steel Co. of Ohio, Inc.: *See—*
- Barre, Henry J., Rader, and Goodyear. 2,901,960.
- Steel, Floyd G., to Digital Control Systems, Inc. Voted-output flip-flop unit. 2,910,584, 10-27-59, Cl. 250-27.
- Steel Heddle Mfg. Co.: *See—*
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- Kaufmann, Frank H. 2,879,806.
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- Kaufmann, John J. 2,874,726.
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- Kaufmann, John J. 2,905,204.
- Kaufmann, John J. 2,905,205.
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- Kaufmann, John J. 2,913,013.
- Steel Improvement & Forge Co., The: *See—*
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- Millard, Ralph S. 2,914,147.
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- Steel Shot Producers, Inc.: *See—*
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- Steel City Electric Co.: *See—*
- Bickerstaff, George W., Jr. 2,911,242.
- Steele, Alexander C. Push-bar operator for dial telephones. 2,889,413, 6-2-59, Cl. 179-90.
- Steele, Arthur B., to Union Carbide Corp. Process for the production of substituted piperazines. 2,868,791, 1-13-59, Cl. 260-268.
- Steele, Arthur B., to Union Carbide Corp. Preparation of substituted oxazolidones. 2,868,801, 1-13-59, Cl. 260-307.
- Steele, Clarence R.: *See—*
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- Steele, Clellie T.: *See*—  
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- Steele, Earl P., and W. D. Southworth, to Phillips Petroleum Co. Method of removing carbon monoxide from gaseous mixtures containing carbon dioxide including measuring the carbon dioxide content thereof and actuating operating means responsive to such measurement. 2,890,930, 6-16-59, Cl. 23-2.
- Steele, Floyd G., to Northrop Aircraft, Inc. Tape cam computer system. 2,872,106, 2-8-59, Cl. 235-61.
- Steele, Floyd G. Digital servo. 2,874,343, 2-17-59, Cl. 318-28.
- Steele, Floyd G., to Digital Control Systems, Inc. Computer and indicator system. 2,898,040, 8-4-59, Cl. 235-151.
- Steele, Floyd G., to Digital Control Systems, Inc. Magnetic reading apparatus. 2,898,578, 8-4-59, Cl. 340-174.
- Steele, Floyd G., to Digital Control Systems, Inc. Difunction root extractor circuits. 2,906,457, 9-29-59, Cl. 235-158.
- Steele, Floyd G., to Digital Control Systems, Inc. Single channel transmission system. 2,912,684, 11-10-59, Cl. 340-347.
- Steele, Floyd G., to Digital Control Systems, Inc. Logical gating network. 2,914,681, 11-24-59, Cl. 307-88.5.
- Steele, Floyd G., and W. F. Collison, Northrop Aircraft, Inc. Digital differential analyzer. 2,900,134, 8-18-59, Cl. 235-152.
- Steele, Glen R., to Bathey Mfg. Co. Storage rack construction. 2,893,567, 7-7-59, Cl. 211-147.
- Steele, Harry M., Jr., to The Garrett Corp. Rate gyroscope. 2,902,863, 9-8-59, Cl. 74-5.5.
- Steele, James E.: *See*—  
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- Steele, James R., and S. M. Lounsbury, to Moore and Steele Corp. Rail and flange lubricator. 2,887,179, 5-19-59, Cl. 184-3.
- Steele, James W. Collar supporting device. 2,870,945, 1-27-59, Cl. 223-83.
- Steele, Maurice G. Deodorant dispenser. 2,867,866, 1-13-59, Cl. 21-126.
- Steele, Maurice G. Window heater. 2,868,943, 1-13-59, Cl. 219-34.
- Steele, Richard B., to Air Reduction Co., Inc. Method and apparatus for electric arc welding. 2,906,859, 9-29-59, Cl. 219-130.
- Steele, Richard B., to Air Reduction Co., Inc. Multiple arc welding. 2,906,860, 9-29-59, Cl. 219-135.
- Steele, Richard E.: *See*—  
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- Steele, Roger C., and G. O. Tast, to Hexcel Products Inc. Pulling means for expanding honeycomb. 2,870,693, 1-27-59, Cl. 93-1.
- Steele, Theodore K.: *See*—  
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- Steelman Products Corp.: *See*—  
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- Steely, Orus C., and I. D. Eyer. Reference service cart. 2,897,910, 8-4-59, Cl. 182-15.
- Steen, Gottfried W., to Machlett Laboratories, Inc. X-ray tubes. 2,886,724, 5-12-59, Cl. 313-32.
- Steen, Harford K., to Interstate Bag Co., Inc. Paper strap and method for making same. 2,896,397, 7-28-59, Cl. 57-154.
- Steen, Walter W.: *See*—  
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- Steen, William E., to A. O. Smith Corp. Fluid meter. 2,911,955, 11-10-59, Cl. 121-90.
- Steenack, Robert, to The Western Union Telegraph Co. Printing telegraph signal normalizer. 2,891,109, 6-16-59, Cl. 178-70.
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- Steensen, Alfred P.: *See*—  
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- Steenson, William. Golf practice game. 2,869,875, 1-20-59, Cl. 273-177.
- Steers, William F., to Glaser-Steers Corp. Cathode ray tube focusing device. 2,880,343, 3-31-59, Cl. 313-84.
- Steeves, George J., to Phillips Petroleum Co. Crude oil centrifuging process. 2,899,373, 8-11-59, Cl. 208-39.
- Stefan, Edwin. Cabinet door molding strip. 2,879,560, 3-31-59, Cl. 20-74.
- Stefaniak, Walter J., to Allied Chemical Corp. Manufacture of fumaric acid. 2,914,559, 11-24-59, Cl. 260-537.
- Stefanik, John E., to Pittsburgh Plate Glass Co. Paste pointing synthetic resinous composition. 2,882,252, 4-14-59, Cl. 260-27.
- Stefanye, David, W. L. Howard, J. W. Brown, and R. L. Weintraub, to United States of America, Army. Acylated 3,6-pyridazinones. 2,916,491, 12-8-59, Cl. 260-250.
- Steffensen, Percy L., to Bethlehem Steel Co. Pelletizing furnace. 2,918,267, 12-22-59, Cl. 263-29.
- Steffenson, Carl G. Ignition tester. 2,898,546, 8-4-59, Cl. 324-17.
- Steffey, Edmond A. Metal decal. 2,889,233, 6-2-59, Cl. 117-3.1.
- Steffgen, Frederick W.: *See*—  
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- Steffgen, Frederick W., C. N. Kimberlin, Jr., F. J. Buchmann, and A. Voorhies, Jr., to Esso Research and Engineering Co. Hydroforming process. 2,908,636, 10-13-59, Cl. 208-140.
- Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. Spectacle case. 2,909,276, 10-20-59, Cl. 206-5.
- Stegeman, Wilson. Flexible urinal. 2,875,451, 3-3-59, Cl. 4-119.
- Stegeman, Wilson. Glass slide dispenser. 2,896,821, 7-28-59, Cl. 221-259.
- Stegemann, Werner G., to Rockwell Gesellschaft mit beschränkter Haftung. Method of and arrangement for starting an internal combustion engine. 2,905,163, 9-22-59, Cl. 123-179.
- Stegemeier, Richard J., to Union Oil Co. of California. Temperature recorder. 2,914,947, 12-1-59, Cl. 73-345.
- Steger, Elmer F.: *See*—  
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- Stegemann, Louis B. Grinding machine. 2,911,764, 11-10-59, Cl. 51-106.
- Steghart, Fritz L. F., and P. L. Kershaw, to The Rheostatic Co. Ltd. A-C bridge network for automatic controllers. 2,917,702, 12-15-59, Cl. 323-69.
- Stegler, Richard E., to Republic Aviation Corp. Means for and method of machining metals. 2,908,797, 10-13-59, Cl. 219-69.
- Steglich, Kurt, to Askania-Werke A.G. Photoelectric device, mainly for geodetical and astronomical instruments. 2,917,967, 12-22-59, Cl. 88-1.
- Stegmaier, Raymond L. Safe cabinet locking device. 2,886,392, 5-12-59, Cl. 312-217.
- Stegmaier, Raymond L. Interior file cabinet lock. 2,908,538, 10-13-59, Cl. 312-218.
- Stehlik, Rudolph F., to General Telephone Laboratories, Inc. Multiphone for use in telephone systems. 2,883,472, 4-21-59, Cl. 179-39.
- Stehlik, Rudolph F., to General Telephone Laboratories, Inc. Intercommunicating system. 2,897,285, 7-28-59, Cl. 179-31.
- Stehlin, Theodore A. Prefabricated valve. 2,896,905, 7-28-59, Cl. 251-366.
- Stehling, Chas. H. Co. The: *See*—  
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- Stehling, Ralph J. 2,872,932.
- Stehling, Ralph J., to The Chas H. Stehling Co. Apparatus for soaking pasting plates. 2,872,932, 2-10-59, Cl. 134-22.
- Stehn, Everett G.: *See*—  
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- Stehr, Joseph E. Bagging machine. 2,867,400, 1-6-59, Cl. 248-161.
- Steiber, Sven I. Wire reeling mechanism. 2,874,918, 2-24-59, Cl. 242-82.
- Steichele, Joseph, to SKF Kugellagerfabriken Gesellschaft mit beschränkter Haftung. Rollers for drawing mechanisms of textile spinning machines. 2,905,979, 9-29-59, Cl. 19-142.
- Steider, Ralph C. Tool for chipping carbon deposits. 2,880,434, 4-7-59, Cl. 15-89.
- Steidinger, Donald J., to Uarco Inc. Mechanism for adhering gummed tape to the top flaps of an envelope assembly in continuous form. 2,895,534, 7-21-59, Cl. 154-1.6.
- Steidley, Virgil K., to Gorman-Rupp Industries, Inc. Adjustable overflow liquid dispensing system. 2,870,941, 1-27-59, Cl. 222-70.
- Steierman, Bernard L., to Owens-Illinois Glass Co. Method of applying glass forming metal borates to surfaces. 2,919,210, 12-29-59, Cl. 317-123.
- Steigerwald, Karl H., to Carl Zeiss. Method for working materials by means of a beam of charged particles. 2,902,583, 9-1-59, Cl. 219-50.
- Steigerwald, Oliver I.: *See*—  
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- Oshry, Howard I., Steigerwald, and Heibel. 2,912,747.
- Steigerwald, Oliver I., and H. I. Oshry, to Erie Resistor Corp. Method of making a printed circuit. 2,912,745, 11-17-59, Cl. 29-155.5.
- Steigman, Israel N. Attachment for maintaining synchronism in a film winding apparatus. 2,880,645, 4-7-59, Cl. 88-16.2.
- Steigman, Israel N. Sound picture apparatus. 2,882,788, 4-21-59, Cl. 88-16.2.
- Steigmann, Ernst A.: *See*—  
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- Rosenthal, Harold, Kramer, and Steigmann. 2,886,444.
- Rosenthal, Harold, Kramer, and Steigmann. 2,886,449.
- Rosenthal, Harold, Kramer, Steigmann, and Tole. 2,886,443.
- Rosenthal, Harold, Kramer, Steigmann, and Tole. 2,886,445.
- Steigmann, Ernst A., to General Foods Corp. Dry gelatin-containing dairy products and method of making same. 2,913,341, 11-17-59, Cl. 99-56.
- Steil, Karl-Heinz: *See*—  
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- Stein, Alvin, and R. L. Walter, to Monsanto Chemical Co. Process for the suspension polymerization of vinylidene aromatic hydrocarbons having rubbery conjugate 1,3-diene polymers dissolved therein. 2,886,553, 5-12-59, Cl. 260—45.5.
- Stein Bros. Mfg. Co.: *See*—  
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- Stein, Cabot T. Photo-identification camera. 2,896,522, 7-28-59, Cl. 95—1.1.
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- Stein, Clyde R.: *See*—  
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- Stein, Clyde R., to Crane Co. Ram air cycle machine. 2,916,890, 12-15-59, Cl. 62—133.
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- Stein, Elmer L., to Eye-Beam Displays, Inc. Advertising displays. 2,914,874, 12-1-59, Cl. 40—125.
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- Stein, Frederick W. Method of and apparatus for treating materials. 2,869,360, 1-20-59, Cl. 73—76.
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- Stein, Gustav A., and K. Pfister, III, to Merck & Co., Inc. N-allyl-2-aminoisocamphane. 2,894,987, 7-14-59, Cl. 260—563.
- Stein, Hall & Co., Inc.: *See*—  
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- Stein, Henry E., H. V. Mog, and J. W. Stertzer, to American Brake Shoe Co. Hydraulically operated chucking apparatus. 2,873,120, 2-10-59, Cl. 279—4.
- Stein, Isidore H., to Allen B. Dumont Laboratories, Inc. Electrical heating device. 2,899,591, 8-11-59, Cl. 313—337.
- Stein, James H. Method and apparatus for cancelling acceleration noise in a magnetometer. 2,877,407, 3-10-59, Cl. 324—43.
- Stein, James H. Apparatus for cancelling turn and yaw noise in a magnetometer. 2,899,637, 8-11-59, Cl. 324—43.
- Stein, Joseph A., to Bacharach Industrial Instrument Co. Valve. 2,904,071, 9-15-59, Cl. 137—596.
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- Stein, Philip C., to Koppers Co., Inc. Circumferential shaft seal. 2,908,516, 10-13-59, Cl. 286—22.
- Stein, Richard C. Clam shell dredging device. 2,889,642, 6-9-59, Cl. 37—54.
- Stein, Robert E.: *See*—  
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- Stein, Sam. Self-attaching disposable litter bag. 2,894,675, 7-14-59, Cl. 229—53.
- Stein, Samuel F. Garments. 2,883,674, 4-28-59, Cl. 2—269.
- Stein, Sidney J., to International Resistance Co. Method of providing an adherent metal coating on a fluorocarbon resin. 2,872,341, 2-3-59, Cl. 117—47.
- Stein, Stephen. Radioactive source apparatus. 2,872,587, 2-3-59, Cl. 250—106.
- Stein, Victor: *See*—  
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- Stein, Werner: *See*—  
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- Raecke, Bernhard, Blaser, Stein, Schirp, and Schütt. 2,900,386.
- Schütt, Hartwig, and Stein. 2,912,437.
- Stein, Werner, to Henkel & Cie. G.m.b.H. Thermal degradation of ricinoleates. 2,913,490, 11-17-59, Cl. 260—537.
- Stein, Wilhelm, and H. Wehrenfennig. Timing mechanism for camera focal plane shutter. 2,891,455, 6-23-59, Cl. 95—57.
- Stein, William B.: *See*—  
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- Steinhacker, Peter, to Westfalia Separator A. G. Sludge-discharging centrifugal separators. 2,873,910, 2-17-59, Cl. 233—20.
- Steinauer, Julius J. Fishing apparatus. 2,899,768, 8-18-59, Cl. 43—15.
- Steinbach, Thomas M.: *See*—  
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- Steinback, Clarence L., to Acrometal Products, Inc. Carrier for spools and the like. 2,882,086, 4-14-59, Cl. 294—78.
- Steinbarg, Wayne L., to Cornell-Dubilier Electric Corp. Rack for pole-mounted capacitors and the like. 2,871,416, 1-27-59, Cl. 317—39.
- Steinberg, Meyer: *See*—  
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- Steinberg, Morris A., to United States of America, Atomic Energy Commission. Separation process. 2,913,379, 11-17-59, Cl. 204—64.
- Steinberg, Robert. Sports glove. 2,907,047, 10-6-59, Cl. 2—161.
- Steinberg, Walter A., to Reeves Instrument Corp. Rectifying apparatus and method. 2,899,627, 8-11-59, Cl. 321—27.
- Steinberger, Raymond L. Transducer for underwater sound. 2,906,993, 9-29-59, Cl. 340—10.
- Steinbronn, George J.: *See*—  
Kennedy, Anthony, Jr., Adams, Kirby, and Steinbronn. 2,892,242.
- Steinbuch, Karl W., H. Endress, and H. Reiner, to International Standard Electric Corp. Demodulator for a multi-channel pulse position modulated system. 2,906,824, 9-29-59, Cl. 179—15.
- Steindel, William C. Surveying instrument. 2,916,827, 12-15-59, Cl. 33—74.
- Steindl, John W. Helicopter-airplane. 2,877,964, 3-17-59, Cl. 244—6.
- Steinegger, Giovanni. Device for demagnetizing the magnetized wire of a sound recording and reproducing apparatus. 2,908,768, 10-13-59, Cl. 179—100.2.
- Steinemann, Willy, to Sandoz A. G. Monoazo dyestuffs and their metal complex compounds. 2,873,267, 2-10-59, Cl. 260—146.
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- Steinemann, Willy, to Sandoz Ltd. Oxazoline and dihydro oxazine monoazo dyestuffs and their metal complex compounds. 2,901,473, 8-25-59, Cl. 260—146.
- Steinen, William F. Draft regulator. 2,904,255, 9-15-59, Cl. 236—45.
- Steiner, Albert M., to Bromo-Mint Co., Inc. Toy dart gun. 2,888,004, 5-26-59, Cl. 124—27.
- Steiner, Donald Z. Carton. 2,900,122, 8-18-59, Cl. 229—29.
- Steiner, Fritz, and E. Mortek, to International Standard Electric Corp. Rolled condenser. 2,881,373, 4-7-59, Cl. 317—260.
- Steiner, Harry. Girdle. 2,880,733, 4-7-59, Cl. 128—554.
- Steiner, Harry C., to General Electric Co. Temperature responsive arrangement. 2,906,902, 9-29-59, Cl. 313—29.
- Steiner, James W., to Curtiss-Wright Corp. Radio direction finding chart recorder system. 2,878,585, 3-24-59, Cl. 35—10.2.
- Steiner, Joseph W.: *See*—  
Beach, Edward L., and Steiner. 2,908,809.
- Steiner, Maurice, to Aktiebolaget Astra, Apotekarnes Kemiska Fabrik. Hypodermic syringe. 2,871,856, 2-3-59, Cl. 128—216.
- Steiner, Maurice, to Societe Plastus S.A. Process of making blown hollow bodies from plastic materials. 2,899,709, 8-18-59, Cl. 18—55.
- Steiner, Oscar, and R. L. Dalton, to Graflex, Inc. Parallax compensating mechanism for photographic cameras. 2,888,868, 6-2-59, Cl. 95—44.
- Steiner, Phillip F., to International Harvester Co. Reversible pitch engine fan operating mechanism. 2,885,013, 5-5-59, Cl. 170—160.46.
- Steiner, Robert F. Turf plug cutter. 2,899,231, 8-11-59, Cl. 294—50.7.
- Steiner, Robert T., to Northwest Automatic Products Corp. Dispenser timing apparatus. 2,872,075, 2-3-59, Cl. 222—70.
- Steiner, Rudolf. Electromagnetic device and relay. 2,895,029, 7-14-59, Cl. 200—104.
- Steinert, Gerhard, to Kohlenscheidungs-Gesellschaft, m.b.H. Radiant tubular heat exchanger. 2,902,010, 9-1-59, Cl. 122—235.
- Steinert, Orville G.: *See*—  
Maxey, Hillis I., Steinert, and Clougherty. 2,902,812.
- Steinfeld, Hans K.: *See*—  
Nelson, Seddon C., and Steinfeld. 2,870,546.
- Steingiser, Samuel: *See*—  
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- Steinhacker, Mark A., to American Bosch Arma Corp. Servo controller. 2,896,142, 7-21-59, Cl. 318—30.
- Steinhardt, Bertram H.: *See*—  
Seidel, William B., and Steinhardt. 2,912,798.
- Steinhardt, David, D. X. Klein, and R. H. Barth, to Heyden Newport Chemical Corp. Formaldehyde polymers and the process of producing same. 2,915,560, 12-1-59, Cl. 260—615.5.
- Steinhart, Alfons J., to A. O. Smith Corp. Gauging apparatus for inspecting vehicle frames. 2,911,727, 11-10-59, Cl. 33—174.
- Steinhauer, Alfred F., and E. P. Merica, to The Dow Chemical Co. Derivatives of aspartamides. 2,891,082, 6-16-59, Cl. 260—404.5.
- Steinhauer, Henry: *See*—  
Sundt, Vigo V., and Steinhauer. 2,903,234.
- Steinhauer, Martin A. Metal fence post leg bending and forming machine. 2,895,528, 7-21-59, Cl. 153—15.



- Steinherz, Hans A., and E. S. Candidus, to National Research Corp. Apparatus for annealing in a high vacuum. 2,890,878, 6-16-59, Cl. 266-3.
- Steinhof, Adolf: *See—*
- Ziese, Walter, Chorbacher, and Steinhof. 2,907,634.
- Steinhoff, Eduard, to Didier-Werke A.G. Process for the manufacture of fire resistant material containing silicates. 2,889,229, 6-2-59, Cl. 106-57.
- Steinitz, Kurt. Screenprinting machines. 2,894,450, 7-14-59, Cl. 101-124.
- Steinitz, Stephan, to Vickers Inc. Magnetic amplifier apparatus. 2,907,947, 10-6-59, Cl. 323-89.
- Steinkamp, Allen T.: *See—*
- Lieb, Bernard L., Bryan, and Steinkamp. 2,894,087.
- Steinke, Carl J., to Zenith Radio Corp. Frequency channel indicator. 2,907,298, 10-6-59, Cl. 116-124.4.
- Steinke, Leo, to Robert Bosch G.m.b.H. Fuel injection arrangement. 2,886,015, 5-12-59, Cl. 123-32.
- Steinkohlen-Elektrizität Aktiengesellschaft: *See—*
- Justi, Eduard, Thuy, and Winsel. 2,912,478.
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- Steinle, Leo E.: *See—*
- Mankowich, Ivan, Steinle, and Chiavetta. 2,871,205.
- Mankowich, Ivan, Steinle, and Chiavetta. 2,871,206.
- Steinle, Shelton E.: *See—*
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- Greene, Charles R., and Steinle. 2,874,031.
- Greene, Charles R., and Steinle. 2,892,686.
- Skinner, John R., and Steinle. 2,871,103.
- Steinle, Shelton E., and C. R. Greene, to Shell Development Co. Conversion of hydrogen iodide to iodine. 2,918,354, 12-22-59, Cl. 23-216.
- Steinman, Leon, to Litton Industries, Inc. Transistor gates. 2,901,640, 8-25-59, Cl. 307-88.5.
- Steinmayer, Alwin G., and D. K. Jones, to McGraw-Edison Co. Electrical switch. Re. 24,696, 9-8-59, Cl. 200-50.
- Steinmayer, Alwin G., and J. G. Everhart, to McGraw-Edison Co. Magnetic core. 2,908,880, 10-13-59, Cl. 336-213.
- Steinmetz, Lawrence, and E. Schmidt; said Schmidt assor. to said Steinmetz. Stapling machine. 2,908,908, 10-20-59, Cl. 1-3.
- Steinmetz, Pearl J., to The H. W. Gossard Co. Brassiere. 2,882,906, 4-21-59, Cl. 128-483.
- Steinmetz, Walter C., to The Jeffrey Mfg. Co. Shaft locking means. 2,873,848, 2-17-59, Cl. 198-232.
- Steinmuller, L. & C. G. m. b. H.: *See—*
- Fikenscher, Friedrich. 2,913,228.
- Radermacher, Karl. 2,913,912.
- Schulte, Wilhelm. 2,873,702.
- Steins, Carleton K., to The Pennsylvania Railroad Co. Car coupling. 2,886,188, 5-12-59, Cl. 213-51.
- Steinwachs, Friedrich. Apparatus for determining adaptability of writing implements to persons using the same. 2,880,511, 4-7-59, Cl. 33-1.
- Steinway & Sons: *See—*
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- Steitz, Alfred, Jr.: *See—*
- Sharp, Shelby P., and Steitz. 2,885,446.
- Steitz, William R.: *See—*
- Slayter, Games, and Steitz. 2,915,170.
- Stel, Marinus: *See—*
- Bloem, Herman, and Stel. 2,875,094.
- Stell, George H., to Precision Metal Workers. Web dispenser. 2,893,616, 7-7-59, Cl. 225-52.
- Stell, Joseph: *See—*
- McIntosh, Harold A., Mouron, Stell, and Herzig. 2,870,885.
- Stella K.G., Werner Deussen: *See—*
- Deussen, Werner. 2,887,240.
- Stellmacher, Donald D., to Hoffman Electronics Corp. Miniature high voltage power supply or the like. 2,906,938, 9-29-59, Cl. 321-2.
- Stellmacher, Donald D., and R. C. Danta, to Hoffman Electronics Corp. Probe housings for nuclear radiation detector. 2,899,563, 8-11-59, Cl. 250-108.
- Stelma, Gerard N.: *See—*
- Bower, Ernest P., Maurits, and Stelma. 2,905,497.
- Stelter, Francis C. W., 1/2 to R. C. Murphy. Burglar alarm. 2,884,623, 4-28-59, Cl. 340-274.
- Stelzel, Roderick W., and H. Troeger, to Bendix Aviation Corp. Coupling apparatus. 2,889,905, 6-9-59, Cl. 192-48.
- Stelzer, Carl: *See—*
- Korber, Kurt, Schubert, and Stelzer. 2,902,040.
- Stelzer, Carl, to Kurt Korber & Co. K-G. Guiding system on machines for producing filter tip cigarettes. 2,874,701, 2-24-59, Cl. 131-94.
- Stelzer, James S., to The Weatherhead Co. Throttle control. 2,918,155, 12-22-59, Cl. 192-3.
- Stelzer, William. Booster brake mechanism. 2,870,606, 1-27-59, Cl. 60-54.6.
- Stelzer, William. Braking system for elevators. 2,873,009, 2-10-59, Cl. 192-2.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake system. 2,883,830, 4-28-59, Cl. 60-54.5.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 2,883,831, 4-28-59, Cl. 60-54.5.
- Stelzer, William, to Kelsey-Hayes Co. Closed system hydraulic motor. 2,883,970, 4-28-59, Cl. 121-41.
- Stelzer, William. Safety devices for inclined elevators. 2,886,136, 5-12-59, Cl. 187-13.
- Stelzer, William. Letter weighing scales. 2,890,036, 6-9-59, Cl. 265-53.
- Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 2,913,877, 11-24-59, Cl. 60-52.
- Stelzer, William, and D. T. Ayers, Jr., to Kelsey-Hayes Co. Fluid-pressure-operated booster brake mechanism. 2,879,747, 3-31-59, Cl. 121-41.
- Stelzer, William, and D. T. Ayers, Jr., to Kelsey-Hayes Co. Booster brake mechanism. 2,918,041, 12-22-59, Cl. 121-41.
- Stem, Donald E. Magnetic traps. 2,885,081, 5-5-59, Cl. 210-222.
- Stemp, Ronald G.: *See—*
- Mason, Frederick P. and Stemp. 2,903,106.
- Stemp, Ronald G., and M. H. Lloyd, to Creed & Co. Ltd. Facsimile apparatus. 2,914,372, 11-24-59, Cl. 346-139.
- Stempel-Hermetik G.m.b.H.: *See—*
- Hintze, Rudolf. 2,883,099.
- Hintze, Rudolf. 2,894,678.
- Ryba, Anton. 2,872,101.
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- Stenersen, Sten S.: *See—*
- Hansen, Harding B., Sealey, Stenersen, and Wiederkehr. 2,870,525.
- Stenerson, Charles K., and H. C. Waterman, to Motorola, Inc. Line selection system. 2,900,621, 8-18-59, Cl. 340-166.
- Stengel, Leonard A., to Commercial Solvents Corp. Apparatus for reforming hydrocarbons. 2,894,826, 7-14-59, Cl. 23-288.
- Stenger, August M., to Ingersoll-Rand Co. Compressor. 2,915,241, 12-1-59, Cl. 230-172.
- Stenger, Victor J. Flashlight holder. 2,894,119, 7-7-59, Cl. 240-52.5.
- Stenhagen, Gerrit: *See—*
- Umbricht, Emil, Stenhagen, and Johnson. 2,915,252.
- Stenkivist, Emil, to Allmänna Svenska Elektriska Aktiebolaget. High voltage power transmissions. 2,868,998, 1-13-59, Cl. 307-83.
- Stenning, Luis C., to Hazeltine Research, Inc. Multichannel communication system. 2,877,305, 3-10-59, Cl. 179-15.
- Stenographic Machines, Inc.: *See—*
- Zum Bahlen, Ralph E., and Svendsen. 2,878,870.
- Ste Nouvelle de l'Outilsage R.B.V. et de La Radio-Industrie: *See—*
- Donnay, Jacques R. 2,885,937.
- Stenstrom, Sten R. Regulating device for braking system in printing presses. 2,876,001, 3-3-59, Cl. 267-75.
- Stenstrom, Sten R. Reciprocating carriage motion. 2,902,866, 9-8-59, Cl. 74-27.
- Stentz, Blair E.: *See—*
- Conklin, William R., and Stentz. 2,900,045.
- Stenuick, Andre P. C. Drilling and similar machines. 2,895,715, 7-21-59, Cl. 255-45.
- Stenvall, Gillis E. R.: *See—*
- Welin, Solve, Ekstrom, and Stenvall. 2,891,891.
- Stepan, Alfred H.: *See—*
- Sias, Roy C., and Stepan. 2,882,301.
- Stepan Chemical Co., The: *See—*
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- Tomlinson, William F. 2,870,091.
- Stepath, Myron D., to Arcar Co. Cutting and gouging torch. 2,903,554, 9-8-59, Cl. 219-69.
- Stephan, A., u. Sohne: *See—*
- Otto, Fritz. 2,894,551.
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- Stephan, Aimee: *See—*
- Duhamel, Eugene, and Stephan. 2,903,746.
- Stephan, Aimee, to Societa Nazionale Prodotti Chimici e Farmaceutici S.p.A. Machine for printing on articles in the shape of developable bodies of revolution. 2,908,218, 10-13-59, Cl. 101-38.
- Stephan, Elmer F.: *See—*
- Igelsrud, Iver, and Stephan. 2,899,268.
- Stephan, Hallis N., to The New Britain Machine Co. Horizontal boring, drilling and milling machine. 2,882,800, 4-21-59, Cl. 90-21.
- Stephan, Hallis N., to The New Britain Machine Co. Slide drive relief mechanism. 2,911,887, 11-10-59, Cl. 90-21.
- Stephan, John T. Defoamer materials. 2,893,883, 7-7-59, Cl. 106-124.
- Stephan, John T. Combination polyglycol and fatty acid defoamer composition. 2,914,412, 11-24-59, Cl. 106-78.
- Stephan, Lawrence F. Locks for sectional davenport. 2,904,101, 9-15-59, Cl. 155-130.
- Stephanoff, Alexander. Drill pointing machine. 2,897,635, 8-4-59, Cl. 51-84.
- Stephanou, Stephen E.: *See—*
- Lake, Donald B., and Stephanou. 2,886,412.
- Lake, Donald B., and Stephanou. 2,886,534.
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- Alsberg, Frederick R., Rattee, and Stephen. 2,892,671.
- Sause, Robert, and Stephen. 2,892,674.
- Stephen, William E., to Imperial Chemical Industries Ltd. Triazine monoazo dyestuffs. 2,892,828, 6-30-59, Cl. 260-153.
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- Stephen, William E., to Imperial Chemical Industries Ltd. Monoazo triazine dyestuffs. 2,892,831, 6-30-59, Cl. 260-153.
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- Stephens, Allen J. Hub sealing means. 2,896,979, 7-28-59, Cl. 286-11.
- Stephens, Charles R., Jr.: *See*—  
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- Stephens, Charles R., Jr., to Chas. Pfizer & Co. Alkyl substituted anhydrotetracycline compounds and process of preparing the same. 2,895,993, 7-21-59, Cl. 260-559.
- Stephens, Clifford A., and R. W. McCandless, to Federal-Mogul-Bower Bearings, Inc. Oil seals. 2,889,163, 6-2-59, Cl. 288-3.
- Stephens, Douglas R.: *See*—  
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- Stephens, Douglas W. Means for designing and laying out plans for buildings. 2,883,764, 4-28-59, Cl. 35-16.
- Stephens, Joe F., to General Electric Co. Electron discharge device. 2,907,912, 10-6-59, Cl. 313-261.
- Stephens, John A., to Monsanto Chemical Co. Nitrogenous esters. 2,909,553, 10-20-59, Cl. 260-453.
- Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Horizontal belt mat winding machine. 2,880,943, 4-7-59, Cl. 242-67.1.
- Stephens, Lambert L.: *See*—  
Goodhue, Carl E., Schwarz, and Stephens. 2,882,725.
- Stephens, Melvin E. and W. H. Fisherman's casting float. 2,888,771, 6-2-59, Cl. 43-41.2.
- Stephens, Meredith W., 50% to W. La Rose. Metal cornice. 2,896,559, 7-28-59, Cl. 108-26.
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- Stephens, Robert R., to The Monarch Controller Co. Ltd. Pivotal-mounted mooring hook. 2,896,995, 7-28-59, Cl. 294-83.
- Stephens, Roy M., to Dan River Mills, Inc. Textile sliver can. 2,877,505, 3-17-59, Cl. 19-159.
- Stephens, Theodore J. Rotary lawn mower and adjustable grass catcher. 2,882,670, 4-21-59, Cl. 56-194.
- Stephens, William H.: *See*—  
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- Stephens, William T., to Parker Hannifin Corp. Valve controlled unit for hydraulic motors. 2,868,227, 1-13-59, Cl. 137-622.
- Stephensen, Allan P., and J. Kaufman, to Compco Corp. Lighting fixtures. 2,867,719, 1-6-59, Cl. 240-51.11.
- Stephenson, Carl R., 1/2 to L. Grondo. Easily disassembled flag assemblies. 2,894,480, 7-14-59, Cl. 116-173.
- Stephenson, Charles F.: *See*—  
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- Stephenson Corp.: *See*—  
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Goodner, Monroe H. 2,918,073.
- Stephenson, Donald H., and A. L. Jenny, to General Electric Co. Electrolyte for electrolytic capacitors. 2,890,394, 6-9-59, Cl. 317-230.
- Stephenson, Eric P. Beat frequency timer. 2,869,045, 1-13-59, Cl. 317-135.
- Stephenson, Geoffrey H.: *See*—  
Spencer, Rolf E., and Stephenson. 2,894,685.
- Stephenson, Geoffrey H., to Electric & Musical Industries Ltd. Variable linkage transformers. 2,882,483, 4-14-59, Cl. 323-47.
- Stephenson, Helen A. License holder. 2,886,907, 5-19-59, Cl. 40-10.
- Stephenson, Hugh M.: *See*—  
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- Stephenson, James O.: *See*—  
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- Stephenson, John O., and J. H. Hillis, said Hillis assor, to said Stephenson. Universal adapter. 2,908,492, 10-13-59, Cl. 269-127.
- Stephenson, Joseph D.: *See*—  
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- Stephenson, Luther. Development of an air controlled approach radar landing system. 2,871,470, 1-27-59, Cl. 343-11.
- Stephenson, Matthias, to Thomas French & Sons Ltd. Electrical heating elements. 2,868,946, 1-13-59, Cl. 219-46.
- Stephenson, Matthias, and J. Sellers, to Thomas French & Sons Ltd. Ladder webbing. 2,897,850, 8-4-59, Cl. 139-384.1.
- Stephenson, Millard A. Method of and apparatus for re-constituting beverages. 2,872,070, 2-3-59, Cl. 222-1.
- Stephenson, Oliver: *See*—  
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- Stephenson, Orlando W., to Gadget-Of-The-Month Club, Inc. Adjustable core extractor. 2,908,483, 10-13-59, Cl. 255-69.
- Stephenson, Revis L., and W. J. Lee, to United States Hoffman Machinery Corp. Valve structure. 2,898,078, 8-4-59, Cl. 251-5.
- Stephenson, Robert L.: *See*—  
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- Stephenson, William L., to North American Phillips Co., Inc. Electric circuit arrangement for generating substantially linear voltage changes. 2,916,705, 12-8-59, Cl. 331-111.
- Stapp, Richard D.: *See*—  
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- Steppe, Volrad, to Chemische Fabrik Grunau Aktiengesellschaft. Dry fire extinguishing composition. 2,901,427, 8-25-59, Cl. 252-5.
- Sterick, Harrison D. Insert mat for ingot molds and manufacture thereof. 2,874,427, 2-24-59, Cl. 22-139.
- Sterick, Harrison D., and W. E. Schmetz. Ingot mold insert mat. 2,910,747, 11-3-59, Cl. 22-139.
- Sterilon Corp.: *See*—  
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- Steril-Plast, Inc.: *See*—  
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- Steri-Washer Corp.: *See*—  
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- Sterling Aluminum Products, Inc.: *See*—  
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- Peterson, William F., Jubel, and Rich. 2,886,867.
- Peterson, William F., and Venner. 2,874,009.
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- Archer, Sydney, and Hoppe. 2,895,988.
- Clinton, Raymond O. 2,880,233.
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- Clinton, Raymond O., and Laskowski. 2,882,296.
- Crounce, Nathan N. 2,878,248.
- Elpern, Bill. 2,880,211.
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- Kirchner, Frederick K. 2,894,946.
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- Luduen, Froilan P. 2,919,228.
- Steck, Edgar A. 2,905,672.
- Surrey, Alexander R. 2,874,182.
- Surrey, Alexander R. 2,886,594.
- Zenitz, Bernard L. 2,885,441.
- Sterling, George B.: *See*—  
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- Sterling, Henley F., to International Standard Electric Corp. Refining processes for semiconductor materials. 2,914,397, 11-24-59, Cl. 75-63.
- Sterling, John J. Football position indicator. 2,869,238, 1-20-59, Cl. 33-46.
- Sterling Multi-Products, Inc.: *See*—  
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- Sterling Plastics Co.: *See*—  
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- Sterling Precision Corp.: *See*—  
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- Sterling Precision Corp., Instrument Division: *See*—  
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- Sterling Precision Instrument Corp.: *See*—  
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- Sterling, Robert F., to Westinghouse Electric Corp. Arc resistant molded members. 2,917,607, 12-15-59, Cl. 200-144.
- Sterling, Walter S.: *See*—  
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- Newey, William H., and Sterling. 2,905,363.
- Sterman, Samuel, to Union Carbide Corp. Bis(hydroxyphenyl)alkane reacted with polyorgano siloxane resins. 2,885,384, 5-5-59, Cl. 260-46.5.
- Stermer, Maynard G.: *See*—  
Martuscello, Peter J., and Stermer. 2,880,551.
- Stern, Arthur P., to General Electric Co. Transistor converter with emitter connected to series-resonant local oscillation circuit. 2,878,376, 3-17-59, Cl. 250-20.
- Stern, Arthur P., to General Electric Co. Tunable transistor radio frequency amplifier having approximately constant bandwidth. 2,889,453, 6-2-59, Cl. 250-20.
- Stern, Arthur P., to General Electric Co. Color television signal conversion system. 2,900,439, 8-18-59, Cl. 178-5.4.
- Stern, Arthur P., and J. A. Raper, to General Electric Co. Complementary transistor AGC system. 2,882,350, 4-14-59, Cl. 179-171.
- Stern, Benjamin B. Flexible shaft coupling structure. 2,908,150, 10-13-59, Cl. 64-11.
- Stern, David R.: *See*—  
Stewart, Robert D., and Stern. 2,879,301.



- Stern, David R., and Q. H. McKenna, to American Potash & Chemical Corp. Production of elemental boron electrolytically. 2,892,762, 6-30-59, Cl. 204-60.
- Stern, David R., and Q. H. McKenna, to American Potash & Chemical Corp. Production of pure elemental silicon. 2,892,763, 6-30-59, Cl. 204-60.
- Stern, David R., and A. A. Uchiyama, to American Potash & Chemical Corp. Continuous electrothermic production of boric oxide. 2,893,838, 7-7-59, Cl. 23-149.
- Stern, Hansjoerg, to General Electric Co. Vibratory control apparatus. 2,879,467, 3-24-59, Cl. 322-32.
- Stern, Howard H., and J. A. Turner, to General Dynamics Corp. Rate gyro with built-in variable washout. 2,893,247, 7-7-59, Cl. 74-5.6.
- Stern, Ira. Adjustable fastening device. 2,895,198, 7-21-59, Cl. 24-206.
- Stern, Isidor, and B. Blum. Fixtures for hanging wall to wall drapes. 2,910,121, 10-27-59, Cl. 160-125.
- Stern, Jan P. Plastic containers. 2,896,827, 7-28-59, Cl. 222-490.
- Stern, Jerome J., and D. D. Whyte, to Whyte Mfg. Co., Inc. Spool. 2,868,475, 1-13-59, Cl. 242-118.4.
- Stern, Lewis J.: *See*—  
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- Stern, Lewis J., and Harlan L. Davis, deceased, by Hildred L. Davis, administratrix, to Stubnitz-Greene Spring Corp. Spring seat. 2,909,216, 10-20-59, Cl. 155-179.
- Stern, Marc. Piston ring and piston construction. 2,874,012, 2-17-59, Cl. 309-31.
- Stern, Marc. Die casting machine pressure chambers. 2,887,742, 5-26-59, Cl. 22-68.
- Stern, Max H., and O. D. Hawks, to Eastman Kodak Co. Preparation of stigmastrol material. 2,870,176, 1-20-59, Cl. 260-397.25.
- Stern, Robert G., and A. J. Sherman, to Curtiss-Wright Corp. Stick force system for aircraft trainers. 2,909,852, 10-27-59, Cl. 35-12.
- Stern, William, to Illinois Tool Works. Screw having a drill point and serrated cutting edge. 2,871,752, 2-3-59, Cl. 85-47.
- Sternbach, Leo H., to Hoffmann-La Roche Inc. 1,4-benzodiazepine 4-oxides. 2,893,992, 7-7-59, Cl. 260-239.
- Sternbeck, Olaf: *See*—  
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- Sternbeck, Olaf, to Telefonaktiebolaget L M Ericsson. Switching device for magnetic field tubes. 2,917,624, 12-15-59, Cl. 250-27.
- Sternbeck, Olaf, and W. E. M. Uhlmann, to Telefonaktiebolaget L M Ericsson. Method for storing information in an electronic storage tube. 2,871,401, 1-27-59, Cl. 315-12.
- Sterne, Rita C.: *See*—  
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- Sterne, Willard F., and R. A. Bright, to V. I. Du Bois, L. T. Holzworth, R. C. Sterne, E. Silbert, and F. E. Taylor. Safety goggle. 2,914,770, 12-1-59, Cl. 2-14.
- Sterner, Everett L., to Collins Radio Co. Device for selecting signal of greatest energy. 2,870,326, 1-20-59, Cl. 250-6.
- Sterner, Frank W., W. J. Wollenhaupt, Jr., and L. C. Wollenhaupt: said Sterner and W. J. Wollenhaupt, Jr., assors, to Wm. B. Berry Co. Sequence presentation device. Re. 2,742,22, 10-20-59, Cl. 273-102.2.
- Sterner, Philip E., to Erie Resistor Corp. Electric circuit assembly. 2,898,520, 8-4-59, Cl. 317-101.
- Sterner, Russell L., to C. Klug. Tufting machine. 2,887,076, 5-19-59, Cl. 112-80.
- Sternfels, Ernest A., to Continental Ore Corp. Recovery of metallic and non-metallic values from sulfide and sulfide-oxide ores. 2,878,102, 3-17-59, Cl. 23-147.
- Sternglass, Ernest J., to Westinghouse Electric Corp. Electron discharge device. 2,905,844, 9-22-59, Cl. 313-68.
- Sternglass, Ernest J., to Westinghouse Electric Corp. Electron discharge device. 2,916,664, 12-8-59, Cl. 315-21.
- Sternglass, Ernest J., and W. A. Feibelman, to Westinghouse Electric Corp. Transmission secondary emission dynode structure. 2,898,499, 8-4-59, Cl. 313-103.
- Sternlicht, Beno, to General Electric Co. Bearings. 2,901,297, 8-25-59, Cl. 308-121.
- Sterns, William G., to Hughes Aircraft Co. High efficiency broadband antenna array. 2,878,472, 3-17-59, Cl. 343-853.
- Sternschuss, Richard. Belt buckle tongue. 2,884,675, 5-5-59, Cl. 24-163.
- Stertz, John W.: *See*—  
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- Sterzer, Walter G.: *See*—  
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- Stetka, Daniel G.: *See*—  
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- Stetson, Gerald E., to Colonial Aircraft Corp. Impedance matched antenna apparatus. 2,899,678, 8-11-59, Cl. 343-864.
- Stetson, John B., Co.: *See*—  
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- Stetson, William C., to Saxonburg Ceramics. End seal for electrical heating elements. 2,908,580, 10-13-59, Cl. 106-46.
- Stettler, Oskar, to North American Philips Co., Inc. Electricity meter. 2,900,602, 8-18-59, Cl. 324-137.
- Stettler, Oskar, to North American Philips Co., Inc. Electricity meter. 2,917,703, 12-15-59, Cl. 324-137.
- Stettner & Co., Fabrik Elektro-Keramischer Artikel: *See*—  
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- Steuart, Frank R. Ice fisherman's angling hole plug. 2,877,595, 3-17-59, Cl. 43-56.
- Steuber, Walter, to E. I. du Pont de Nemours and Co. Process for forming films and filaments directly from polymer intermediates. Re. 2,469,1, 8-25-59, Cl. 18-54.
- Steuby, John S. Cam generator. 2,884,839, 5-5-59, Cl. 90-20.
- Steuer, Dieter: *See*—  
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Schnell, Hermann, and Steuer. 2,874,466.
- Steuer, Werner, and M. Rang, deceased, by P. Rang, administratrix. Hand piece for drilling, milling or grinding. 2,876,015, 3-3-59, Cl. 279-46.
- Steunenber, Robert K.: *See*—  
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- Steven, Fritz: *See*—  
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- Steven, George, and W. M. Kauffmann, to Worthington Corp. Two-cycle internal combustion engine. 2,889,682, 6-9-59, Cl. 60-13.
- Steven, Harry M., and R. W. Marshall, to General Electric Co. Circuit breaker. 2,884,497, 4-28-59, Cl. 200-88.
- Stevens, Adele M.: *See*—  
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- Stevens-Arnold Inc.: *See*—  
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- Stevens, Bertram, to Thorn Electrical Industries Ltd. Instrument dial illuminator. 2,905,807, 9-22-59, Cl. 240-8.16.
- Stevens, Brooks, Jr., to Ames Textile Corp. Method of knitting pile fabric. 2,903,869, 9-15-59, Cl. 66-92.
- Stevens, Bryce L.: *See*—  
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- Stevens, Charles H., Jr., to Empire Products, Inc. Cable connector assembly. 2,907,973, 10-6-59, Cl. 339-59.
- Stevens, Clarence C.: *See*—  
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- Stevens, Dillon: *See*—  
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- Stevens, Donald L.: *See*—  
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- Stevens, Donald R.: *See*—  
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- Stevens, Donna, to The Dow Chemical Co. Metal salts of ethionine. 2,872,469, 2-3-59, Cl. 260-429.9.
- Stevens, Edward W.: *See*—  
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- Stevens, Everett G.: *See*—  
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- Stevens, Francis D.: *See*—  
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- Stevens, Frank D., to Carrier Corp. Air distribution means. 2,881,689, 4-14-59, Cl. 98-40.
- Stevens, Franklyn E., Jr.: *See*—  
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- Stevens, George E. Hydraulic flow control plate. 2,896,565, 7-28-59, Cl. 115-42.
- Stevens, George H., and O. Wilsker, to United States of America, Navy. Servo system. 2,890,401, 6-9-59, Cl. 318-270.
- Stevens, Graham J. L.: *See*—  
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- Stevens, Harold A., and F. E. Mitchell, Sr. Vent cap for gasoline tanks and the like. 2,894,530, 7-14-59, Cl. 137-493.7.
- Stevens, Harold E.: *See*—  
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- Stevens, Harold E., to Bird Electronic Corp. Bi-directional single unit sampling device. 2,884,595, 4-28-59, Cl. 324-95.
- Stevens, Harold E., to Bird Electronic Corp. Bi-directional sampling device for insertion in high-frequency coaxial transmission line. 2,884,606, 4-28-59, Cl. 333-81.
- Stevens, Harold W.: *See*—  
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- Stevens, Henry P.: *See*—  
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- Stevens, Howard C.: *See*—  
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- Stevens, Howard C., and J. E. Minty, to Manning, Maxwell & Moore, Inc. Cargo release hook. 2,868,580, 1-13-59, Cl. 294-83.
- Stevens, J. P., & Co., Inc.: *See*—  
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- Stevens, James: *See*—  
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- Stevens, Joel B.: *See*—  
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- Stevens, Joel B., to Eastman Kodak Co. Method for removing false twist and longitudinal folds from continuous filament crimped tow. 2,908,045, 10-13-59, Cl. 19—66.
- Stevens, Kenneth J.: *See*—  
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- Stevens, Leland J., to General Electric Co. Stacking type insulators. 2,899,482, 8-11-59, Cl. 174—30.
- Stevens, Leland J., to General Electric Co. Multiple conductor spreader. 2,918,520, 12-22-59, Cl. 174—146.
- Stevens, Leo J. System for converting an operator-staffed signal-controlled elevator system into a passenger-operated automatic system. 2,903,092, 9-8-59, Cl. 187—29.
- Stevens, Marcus A.: *See*—  
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- Stevens, Myron B. Individually stable connected tables. 2,890,087, 6-9-59, Cl. 311—4.
- Stevens, Oliver L. Locking means. 2,910,315, 10-27-59, Cl. 287—52.09.
- Stevens, Richard W. Electric lanterns. 2,897,346, 7-28-59, Cl. 240—25.
- Stevens, Robert E.: *See*—  
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- Stevens, Robert T., deceased; A. M. Stevens, by decree of distribution, executrix of the estate of D. Stevens, deceased. Power apparatus for tightening threaded fastening elements. 2,867,144, 1-6-59, Cl. 81—52.4.
- Stevens, Roger W., to United States Steel Corp. Helicoidal stone-sawing wire. 2,876,761, 3-10-59, Cl. 125—21.
- Stevens, Theodore W.: *See*—  
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- Stevens, William D., to The Babcock & Wilcox Co. Insulated furnace wall. 2,889,698, 6-9-59, Cl. 72—16.
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- Stevens, William W. High chair. 2,902,084, 9-1-59, Cl. 155—143.
- Stevenson, Alden, to Minneapolis-Honeywell Regulator Co. Method of making alloyed junction in a silicon wafer. 2,887,415, 5-19-59, Cl. 148—1.5.
- Stevenson, Cary H.: *See*—  
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- Stevenson, Cary H., to Lindberg Engineering Co. Electric furnace heating element. 2,891,303, 6-23-59, Cl. 29—183.
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- Stevenson, James R., D. W. Lysett, and R. C. Zeidler, to Ford Motor Co. Tractor control mechanism. 2,880,833, 4-7-59, Cl. 192—48.
- Stevenson, John M., Sr. Open top incinerator. 2,915,025, 12-1-59, Cl. 110—18.
- Stevenson, John W., and R. G. Werkema, to United States of America, Atomic Energy Commission. Uranium recovery process. 2,897,048, 7-28-59, Cl. 23—14.5.
- Stevenson, Kenneth M., Jr.: *See*—  
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- Stevenson, Robert, to Magnetic Seal Corp. Ball bearing and seal. 2,913,289, 11-17-59, Cl. 308—187.1.
- Stevenson, Robert G., to Sun Oil Co. Soil bearing measuring device. 2,916,913, 12-15-59, Cl. 73—94.
- Stevenson, Robert L., and P. L. M. Barker, to Tix Television Films, Inc. Apparatus for producing optical effects. 2,888,857, 6-2-59, Cl. 88—16.
- Stevenson, William A. Sheet metal working tool for automobile bodies. 2,884,043, 4-28-59, Cl. 153—39.
- Stevensons (Dyers) Ltd.: *See*—  
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- Steventon, Charles F., to The British Oxygen Co. Ltd. Blow-pipes. 2,893,420, 7-5-59, Cl. 137—271.
- Stevinson, Harry T., to National Research Council. Shock absorber. 2,870,871, 1-27-59, Cl. 188—1.
- Steward, Lewis B., and J. S. Hawkins, to Jennings Radio Mfg. Corp. Multiple pole vacuum switch. 2,886,668, 5-12-59, Cl. 200—104.
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- Steward, Merrill F.: *See*—  
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- Steward, William A. Work control and scheduling device. 2,904,915, 9-22-59, Cl. 40—96.
- Stewart, Alexander E., to Dominion Engineering Works Ltd. Stock cross-flow distribution. 2,869,436, 1-20-59, Cl. 92—44.
- Stewart, Alexander E., to Dominion Engineering Works Ltd. Wire draping device for Fourdrinier machines. 2,903,060, 9-8-59, Cl. 162—273.
- Stewart, Alexander E., and V. S. Grater, to Dominion Engineering Works Ltd. Suction roll nozzle with manifold and valve means. 2,884,059, 4-28-59, Cl. 162—370.
- Stewart, Alfred W.: *See*—  
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- Stewart, Arthur H. Boring tool and method for making same. 2,883,888, 4-28-59, Cl. 76—102.
- Stewart, Aubrey P., Jr., R. A. Johnson, and D. F. Wilcox, to Foremost Dairies, Inc. Process for preparing sterile evaporated milk. 2,886,450, 5-12-59, Cl. 99—200.
- Stewart, Basil O., to National Gypsum Co. Manufacture of wood fiber hardboard. 2,880,655, 4-7-59, Cl. 92—61.
- Stewart, Basil O., to National Gypsum Co. Manufacture of wood fiber hardboard. 2,888,376, 5-26-59, Cl. 162—163.
- Stewart, Charles R. Fishline casting device. 2,875,548, 3-3-59, Cl. 43—19.
- Stewart, Daniel, to Scottish Oils Ltd. Discharge means for containers or vertical retorts. 2,897,983, 8-4-59, Cl. 214—18.
- Stewart, David G.: *See*—  
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- Stewart, David G., to Shell Development Co. Polyalkylene oxide resins. 2,870,101, 1-20-59, Cl. 260—2.
- Stewart, David G., D. Y. Waddan, and E. T. Borrows, to Shell Development Co. Production of polymers of epoxide compounds. 2,870,100, 1-20-59, Cl. 260—2.
- Stewart, Edward C., to Barber-Greene Co. Idler roller anchoring device. 2,869,710, 1-20-59, Cl. 198—192.
- Stewart, Francis S. Alkyl methacrylate polymer coating compositions and method of making same. 2,901,454, 8-25-59, Cl. 260—32.8.
- Stewart, George A. Combined candy holder and toy. 2,882,170, 4-14-59, Cl. 99—180.
- Stewart, George G. Brush. 2,876,477, 3-10-59, Cl. 15—167.
- Stewart, Gerald E., and A. Utz. Fluid pressure cleaning device. 2,880,938, 4-7-59, Cl. 239—245.
- Stewart, Hall: *See*—  
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- Stewart, Harold W., and H. E. Railsback. Disaster warning system. 2,915,743, 12-1-59, Cl. 340—310.
- Stewart, Henry T. Means for shutting off lost circulation in well bores. 2,902,096, 9-1-59, Cl. 166—228.
- Stewart, Herman V. D. Device for supporting a flexible vacuuming hose in a swimming pool. 2,910,086, 10-27-59, Cl. 137—356.
- Stewart, Jack L.: *See*—  
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- Stewart, Jack L., to The Antenna Specialists Co. Antenna. 2,872,680, 2-3-59, Cl. 343—805.
- Stewart, Jack L., M. R. Friedberg, and A. A. Finke, to The Antenna Specialists Co. Mounting device for mobile antenna. 2,870,243, 1-20-59, Cl. 174—153.
- Stewart, James W. Sheet-metal working hammer having a divided head portion. 2,906,150, 9-29-59, Cl. 81—15.
- Stewart, Joe W., to A. O. Smith Corp. Asphalt-base mastic. 2,870,036, 1-20-59, Cl. 106—269.
- Stewart, John, to Ferranti Ltd. Electric signal selecting and integrating device. 2,910,678, 10-27-59, Cl. 340—212.
- Stewart, John K. Rail lubricators. 2,884,093, 4-28-59, Cl. 184—3.
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- Stewart, Joseph, F. Knoth, Jr., and P. E. Neiman, to Esso Research and Engineering Co. Process for purifying oxy amyl alcohols. 2,891,895, 6-23-59, Cl. 202—51.
- Stewart, Karl J., and D. L. Johnson. Photoelectric automatic blade level control. 2,916,836, 12-15-59, Cl. 37—143.
- Stewart, Kenneth V., and L. C. Finkle, to Manufacturers Development. Drilling tool. 2,918,833, 12-29-59, Cl. 77—22.
- Stewart, Leonard F. General Motors Corp. Variable venturi. 2,908,488, 10-13-59, Cl. 261—59.
- Stewart, Richard D., to The Dow Chemical Co. Ear protector. 2,910,980, 11-3-59, Cl. 128—152.
- Stewart, Richard F., to Texas Instruments Inc. Method of and apparatus for cutting a semiconductor crystal. 2,886,026, 5-12-59, Cl. 125—12.
- Stewart, Robert D., and D. R. Stern, to American Potash & Chemical Corp. Method for the preparation of phosphine borines. 2,879,301, 3-24-59, Cl. 260—606.5.
- Stewart, Robert D., and R. I. Wagner, to American Potash & Chemical Corp. Method of preparation of alkyl-substituted phosphines. 2,900,416, 8-18-59, Cl. 260—606.5.
- Stewart, Thomas H.: *See*—  
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- Stewart-Warner Corp.: *See*—  
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- Allen, Arthur C. 2,884,196.
- Allen, George W. 2,875,821.
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- Stewart, Warren E., to Sinclair Refining Co. Stationary bed catalytic apparatus. 2,901,330, 8-25-59, Cl. 23-288.
- Stewart, William D.: *See*—  
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- Stewart, William D., E. Pondexter, Jr., and W. L. Wachtel, to Atlantic Research Corp. Processing cellulose nitrate. 2,915,519, 12-1-59, Cl. 260-223.
- Stewart, William H. Staple having flat depressed head with reinforcing ridge. 2,887,004, 5-19-59, Cl. 85-49.
- Stewart, William H. Malleable nail-strap. 2,913,204, 11-17-59, Cl. 248-71.
- Stewart, William P., Jr., to General Motors Corp. Control device. 2,891,577, 6-23-59, Cl. 137-637.
- Stewart, William R., to International Business Machines Corp. Information storage apparatus. 2,869,789, 1-20-59, Cl. 235-61.11.
- Stewart, William T.: *See*—  
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- Stewart, William T., and A. Goldschmidt, to California Research Corp. Process for preparing higher alkyl ester of methacrylic acid. 2,891,991, 6-23-59, Cl. 260-486.
- Stewart, William T., F. A. Stuart, and W. Lowe, to California Research Corp. Lubricant composition. 2,892,786, 6-30-59, Cl. 252-51.5.
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- Stewart, William T., F. A. Stuart, W. Lowe, and F. W. Kavanagh, to California Research Corp. Detergent copolymers. 2,892,819, 6-30-59, Cl. 260-78.5.
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- Stewart, William T., F. A. Stuart, and W. Lowe, to California Research Corp. Detergent copolymers. 2,892,821, 6-30-59, Cl. 260-80.5.
- Stewart, Wilson M. Coin sorter. 2,880,836, 4-7-59, Cl. 194-102.
- Steyer, Alphonse, to American Type Founders Co., Inc. Web control means for rotary offset web printing presses. 2,875,688, 3-3-59, Cl. 101-177.
- Steyer, Fred H., to Waldes Kobinoor, Inc. Tools for assembling external retaining rings. 2,901,817, 9-1-59, Cl. 29-229.
- Stibbe, G., & Co., Ltd.: *See*—  
 Burdett, Henry S. 2,871,684.
- Stibitz, George R. Function unit. 2,910,872, 11-3-59, Cl. 74-1.
- Stich, Jules N.: *See*—  
 Kimura, Shuji, and Stich. 2,871,121.
- Stichling, Gerhardt C. Device for locating and retrieving submerged objects. 2,866,986, 1-6-59, Cl. 9-9.
- Stichnoth, Otto: *See*—  
 Poehler, Guenter, and Stichnoth. 2,879,295.
- Stickelber, Merlin A.: *See*—  
 Jorgenson, Gerald A., Kieffaber, and Stickelber. 2,888,886.  
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- Stickelber & Sons, Inc.: *See*—  
 Jorgenson, Gerald A., Kieffaber, and Stickelber. 2,888,886.  
 Jorgenson, Gerald A., Kieffaber, and Stickelber. 2,888,888.
- Sticker Industrial Supply Corp.: *See*—  
 Reighart, June H. 2,905,055.  
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- Sticker, Wilhelm, to Les Constructions Guinard. Solid jacket centrifugal separator. 2,905,379, 9-22-59, Cl. 233-14.
- Stickney, Wendell H., to Diamond Gardner Corp. Inking. 2,873,673, 2-17-59, Cl. 101-350.
- Stickney, Wendell H., to Diamond Gardner Corp. Method of and apparatus for preregistering printing plates. 2,902,771, 9-8-59, Cl. 33-184.5.
- Stidger, Clifford W., to Gerber Products Co. Photoelectric sensing device. 2,916,703, 12-8-59, Cl. 331-66.
- Stidwill, George B. M., to Howard Smith Paper Mills Ltd. Load leveller. 2,894,147, 7-7-59, Cl. 250-234.
- Stiebel, Theodor H. Electrically heated instantaneous hot water generator and storage tank. 2,889,444, 6-2-59, Cl. 219-39.
- Stiebel, Theodor H. Miniature immersion heater with electric controller sealed in handle. 2,902,581, 9-1-59, Cl. 219-41.
- Stieber, Joseph A. Electrical method and means for making relief maps. 2,876,562, 3-10-59, Cl. 35-41.
- Stieber, Joseph G.: *See*—  
 Caesar, Orville S., and Stieber. 2,894,578.
- Stiebling, Ewald: *See*—  
 Kolling, Helmut, and Stiebling. 2,880,163.
- Stiefel, Rudy C., to Sperry Rand Corp. High speed printer. 2,873,666, 2-17-59, Cl. 101-93.
- Stiefenhofer, Ferdinand: *See*—  
 Kaden, Willy, and Stiefenhofer. 2,874,914.
- Stieg, Fred B. Cellulose sponges. 2,880,726, 4-7-59, Cl. 128-285.
- Stieg, William E., and J. A. Kardys, to Chas. Pfizer & Co., Inc. Stable vitamin A for aqueous dispersion. 2,907,696, 10-6-59, Cl. 167-81.
- Stieger, Helmut: *See*—  
 Schachner, Kurt, and Stieger. 2,914,018.
- Stieglitz, Henry M., to Frank Adam Electric Co. Bus ducts. 2,870,240, 1-20-59, Cl. 174-88.
- Stieglitz, Hermann W., to Thomson Electric Welder Co. Welding machine. 2,875,319, 2-24-59, Cl. 219-101.
- Stiehl, Karl, H. Franz, and J. Valenteyn, to Deutsche Gold- und Silber Scheideanstalt vormals Roessler. Method of improving porous films of plasticized vinyl polymers. 2,875,088, 2-24-59, Cl. 117-10.
- Stielow, John H. Means for preparing stencil cards for addressing machines. 2,878,916, 3-24-59, Cl. 197-135.
- Stielow, John H. Addressing machines, or addressographs. 2,907,271, 10-6-59, Cl. 101-123.
- Stiener, Stewart, C. F. Stephenson, and A. C. Howell, Jr., to Color Carousel Corp. Paint mixing machine drive. 2,917,695, 12-15-59, Cl. 318-467.
- Stieritz, William G.: *See*—  
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- Stieritz, William G., to Bell Telephone Laboratories, Inc. Gaseous discharge devices. 2,889,481, 6-2-59, Cl. 313-189.
- Stierna, Armos J. End table record cabinet. 2,868,606, 1-13-59, Cl. 312-293.
- Stiff, Henry A., Jr., and L. E. Davis, to The Atlantic Refining Co. Method of water injection into an earth bore. 2,875,836, 3-3-59, Cl. 166-42.
- Stiffner, Hugh A. Stepladder jack. 2,882,003, 4-14-59, Cl. 248-226.
- Stifter, John J. Orthodontic attachment. 2,908,974, 10-20-59, Cl. 32-14.
- Stihl, Andreas. Grinding chain tool. 2,869,534, 1-20-59, Cl. 125-21.
- Stihl, Andreas. Power saw chain for use on hard rock. 2,912,968, 11-17-59, Cl. 125-21.
- Stila S. A.: *See*—  
 Kessi, Willy. 2,872,777.
- Stilbert, Elmer K., Jr., I. J. Cummings, and G. E. Clock, to The Dow Chemical Co. Intumescent coating composition and articles coated therewith. 2,912,392, 11-10-59, Cl. 260-17.4.
- Stilbert, Elmer K., Jr., I. J. Cummings, and G. E. Clock, to The Dow Chemical Co. Intumescent coating composition and articles coated therewith. 2,912,393, 11-10-59, Cl. 260-17.4.
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- Stile-Craft Manufactures, Inc.: *See*—  
 Rogers, Gerald L. 2,908,511.
- Stiler, Ted. Transformer. 2,876,424, 3-3-59, Cl. 336-192.
- Stiles, Alan R., to Shell Development Co. Complex nitrophenyl phosphates. 2,895,982, 7-21-59, Cl. 260-461.
- Stiles, Alan R., and R. R. Whetstone, to Shell Development Co. Complex esters of beta-phosphato-alpha, beta-olefinically unsaturated monocarboxylic acids. 2,893,401, 7-7-59, Cl. 260-461.
- Stiles, Donald J., to International Business Machines Corp. Rotary drive mechanism for card pickers. 2,880,996, 4-7-59, Cl. 271-41.
- Stiles, Harry L., to The Silex Co. Cord reel device. 2,908,453, 10-13-59, Cl. 242-94.
- Stiles, Harry L., to The Silex Co. Glass electric percolator. 2,916,599, 12-8-59, Cl. 219-44.
- Stiles, Harry L., and N. T. Thome, to Silex Co. Lawn trimmer and edger with wheel adjusting means. 2,867,960, 1-13-59, Cl. 56-25.4.
- Stiles, Kenneth M., to The Sierracin Corp. Apparatus for casting plastic sheets. 2,867,003, 1-6-59, Cl. 18-39.
- Stiles, Samuel R., to The M. W. Kellogg Co. Alkylation of hydrocarbons. 2,894,050, 7-7-59, Cl. 260-683.58.
- Stiles, Samuel R., to The M. W. Kellogg Co. Sulfuric acid purification. 2,903,339, 9-8-59, Cl. 23-172.
- Still, Elmer G. Centrifugal air propellers. 2,901,047, 8-25-59, Cl. 170-135.
- Still, Robert J. Auxiliary vehicle spring. 2,890,040, 6-9-59, Cl. 267-45.



- Stiller, Bruno V. Merchandise selecting system. 2,885,115, 5-5-59, Cl. 221-129.
- Stiller, Frank P., to Sandoz, Inc. Sealing of dyed anodized aluminum. 2,888,388, 5-26-59, Cl. 204-35.
- Stiller, William B. Key case. 2,912,030, 11-10-59, Cl. 150-40.
- Stillman, William J. Furniture glider. 2,875,552, 3-3-59, Cl. 47-137.
- Stillo, Frank W., to International Harvester Co. Apparatus for starting diesel engines. 2,882,885, 4-21-59, Cl. 125-180.
- Stillwagon, Crawford K. Valve. 2,912,218, 11-10-59, Cl. 251-306.
- Stillwagon, George B., Jr.,  $\frac{1}{2}$  to K. G. Fraser. Sealing means. 2,869,342, 1-20-59, Cl. 64-32.
- Stillwagon, George B., Jr.,  $\frac{1}{2}$  to K. G. Fraser. Pinning construction for universal joint. 2,873,591, 2-17-59, Cl. 61-17.
- Stillwagon, George B., Jr.,  $\frac{1}{2}$  to K. G. Fraser. Universal joint and method of making same. 2,896,431, 7-28-59, Cl. 64-11.
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- Stillwell, Harry F.: *See*—  
Porter, Kenneth W., Jr., and Stillwell. 2,918,575.
- Stillwell, Harry F., to Collins Radio Co. Pulse decoding means. 2,894,127, 7-7-59, Cl. 250-27.
- Stilmar, Frederic B.: *See*—  
Gladding, Edward K., and Stilmar. 2,917,489.
- Stilmar, Frederic B., to E. I. du Pont de Nemours and Co. Polyurethanes of polyalkylene ether-thioether glycols. 2,900,368, 8-18-59, Cl. 260-77.5.
- Stiltner, Marshall A.: *See*—  
Syce, Albert A. 2,896,773.
- Stilwell, Donald B., to Cole Mfg. Co. Driving mechanism for single and double feed hoppers. 2,902,954, 9-8-59, Cl. 11-52.
- Stilwell, Robert E., to Food Machinery and Chemical Corp. Pipe coupling having a manually operated latching means. 2,874,978, 2-24-59, Cl. 285-5.
- Stilwell, Robert E., and J. K. Campbell, to Food Machinery and Chemical Corp. Portable irrigation system. 2,892,466, 6-30-59, Cl. 137-344.
- Stilwell, Winfred N., 50% to L. Edelson. Slide fastener. 2,890,512, 6-16-59, Cl. 24-205.15.
- Stimm, Kean W. Light meter. 2,917,969, 12-22-59, Cl. 88-23.
- Stimson, Percy G.: *See*—  
Marvin, Howard L., and Stimson. 2,911,905.
- Stimson, Samuel. Method of producing three-dimensionally appearing drawings. 2,903,801, 9-15-59, Cl. 35-26.
- Stinchfield, Roger M.: *See*—  
Clinton, William P., Guggenheim, Kraut, and Stinchfield. 2,915,403.
- Guggenheim, Herbert, and Stinchfield. 2,915,399.
- Stindt, Frederick: *See*—  
McPhee, Alexander H., Olcott, Reid, and Stindt. 2,893,562.
- Stine, Harrison M.: *See*—  
Strecker, Harold A., and Stine. 2,870,084.
- Stine, Harrison M., H. A. Strecker, and R. B. Faris, Jr., to The Standard Oil Co. Alloys of platinum and germanium as catalysts for the reforming of N-paraffin hydrocarbons. 2,906,700, 9-29-59, Cl. 208-138.
- Stine, Harrison M., H. A. Strecker, and R. B. Faris, Jr., to The Standard Oil Co. Process for reforming hydrocarbons with catalysts comprising alloys of platinum and germanium. 2,906,701, 9-29-59, Cl. 208-138.
- Stine, James B.: *See*—  
Smith, Augustus B., Roberts, Wagner, and Stine. 2,871,126.
- Stine, Paul J.: *See*—  
McClintock, Sherman E. 2,896,748.
- McClintock, Sherman E. 2,903,684.
- Stinehelfer, Harold E., to The Western Union Telegraph Co. Microwave energy attenuating wall. 2,870,439, 1-20-59, Cl. 343-18.
- Stineman, Jacob W., Jr., and S. A. Robinson, to Philco Corp. Method and apparatus for the controlled aging of semiconductor devices. 2,894,313, 7-14-59, Cl. 29-25.3.
- Stineman, Russell W., to Boeing Airplane Co. Power equalization apparatus for multiple alternator systems. 2,872,591, 2-3-59, Cl. 290-4.
- Stineman, Russell W., and J. E. Shearer, to Boeing Airplane Co. Fuel feeding and apparatus cooling systems for vehicles. 2,917,903, 12-22-59, Cl. 62-55.
- Stinger, Henry J.: *See*—  
Carter, Elbert P., and Stinger. 2,905,869.
- Stingley, Dale V., to Armour and Co. Batch deodorizer. 2,919,232, 12-29-59, Cl. 202-46.
- Stinnett, George J.: *See*—  
Tauber, Samuel P., and Stinnett. 2,899,876.
- Stinson, Harold S. Attachment for fishhooks. 2,898,701, 8-11-59, Cl. 43-44.6.
- Stinson, Harold S. Attachment for fishhooks. 2,900,755, 8-25-59, Cl. 43-44.6.
- Stinson, Mary L., to Goodman Mfg. Co. Adjustably supported return idler assembly for belt conveyors. 2,904,166, 9-15-59, Cl. 198-202.
- Stinson, Stellita G. Sport sock. 2,904,980, 9-22-59, Cl. 66-171.
- Stipek, Charles J. Self-projectable and retractable sprinkler heads. 2,879,946, 3-31-59, Cl. 239-204.
- Stirn, Frank E., and A. S. Taylor, to American Cyanamid Co. Machine for stripping capsules. 2,878,630, 3-24-59, Cl. 53-182.
- Stirn, Frank E., and A. S. Taylor, to American Cyanamid Co. Encapsulating die roll system. 2,902,802, 9-8-59, Cl. 53-28.
- Stirnemann, Ernst, and T. E. Lanz, to Lonza Electric and Chemical Works Ltd. Electropolyolysis apparatus. 2,879,218, 3-24-59, Cl. 204-325.
- Stirratt, Austin F. Game device. 2,915,190, 12-1-59, Cl. 211-13.
- Stirton, Alexander J.: *See*—  
Weil, James K., Stirton, and Maurer. 2,867,586.
- Stirton, Alexander J., J. W. Weil, and E. W. Maurer, to United States of America, Agriculture. Detergent compositions. 2,915,473, 12-1-59, Cl. 252-161.
- Stirton, Robert J., and G. Leitmann, to United States of America, Navy. Apparatus for trajectory determination. 2,907,028, 9-29-59, Cl. 343-112.
- Stites, Loren H. Rotating electric switch. 2,913,560, 11-17-59, Cl. 200-155.
- Stitt, Elmer E., deceased, by O. M. Stitt, administratrix. Cricket dispenser. 2,883,788, 4-28-59, Cl. 43-55.
- Stitt, Elmer R.: *See*—  
Sieber, Charles B. 2,882,805.
- Stitt, Olive M.: *See*—  
Stitt, Elmer E. 2,883,788.
- Stitzel, George B.: *See*—  
Vogtmann, Frank L., and Stitzel. 2,886,028.
- Stivender, Paul M., to General Motors Corp. Closed circuit turbines. 2,882,687, 4-21-59, Cl. 60-59.
- Stivers, Norman J., to Pioneer Rubber Co. Inc. Balloon holder. 2,882,645, 4-21-59, Cl. 46-88.
- Stixrood, Jarvis A., to United States of America, Army. Counterbalancing hydraulic cylinder. 2,896,583, 7-28-59, Cl. 121-40.
- Stoakes, James D.: *See*—  
Bodine, Albert G., Jr., and Stoakes. 2,887,604.
- Stobb, Anton R., to Western Printing & Lithographing Co. Signature stitching, folding and trimming mechanism. 2,869,863, 1-20-59, Cl. 270-37.
- Stobb, Anton R., to Western Printing & Lithographing Co. Process and apparatus for collecting and stacking of flexible sheets. 2,884,243, 4-28-59, Cl. 271-45.
- Stobb, Anton R. Tension control means for a web of paper. 2,899,199, 8-11-59, Cl. 271-2.3.
- Stobbe, Walter M.: *See*—  
Hanthorn, Horace F., and Stobbe. 2,884,587.
- Stober, Kenneth E., C. H. Engvis, and T. W. Dwight, Jr., to The Dow Chemical Co. Method for coating rubber in granular form with impalpable resinous vinyl aromatic polymer dusts. 2,895,939, 7-21-59, Cl. 260-45.5.
- Stobi, Johann, to Maschinenfabrik Benninger A.G. Embroidery machine. 2,883,950, 4-28-59, Cl. 112-94.
- Stock, Arthur J. Non-segregating system for handling and feeding solid particulate material. 2,903,144, 9-8-59, Cl. 211-2.
- Stock, Charles S., to American Air Filter Co., Inc. Ventilating system for room having outside downdraft wall. 2,909,981, 10-27-59, Cl. 98-33.
- Stock, Howard P.: *See*—  
Goudy, Paul R., and Stock. 2,885,516.
- Stock, Maurice W. Combination carpet anchor and finishing bar. 2,892,208, 6-30-59, Cl. 16-16.
- Stockard, Jesse L.: *See*—  
Weaver, Earl M., Hawthorne, and Stockard. 2,894,726.
- Stocker, Arthur C., to United States of America, Navy. Deflection apparatus. 2,881,342, 4-7-59, Cl. 313-76.
- Stocker, Arthur C., to United States of America, Air Force. High frequency electron discharge device. 2,895,076, 7-14-59, Cl. 315-44.
- Stocker, Edward T., to Western Electric Co., Inc. Insulation stripping unit. 2,882,769, 4-21-59, Cl. 81-9.51.
- Stocker, Josef, to Alpura Aktiengesellschaft. Apparatus for sterile packing or sterile substances. 2,918,770, 12-29-59, Cl. 53-180.
- Stockert, Alphonse P. Grain cleaner with variable pitch and throw control. 2,908,392, 10-13-59, Cl. 209-318.
- Stockett, James R. Hydraulic circuit for saw mill feed works. 2,909,897, 10-27-59, Cl. 60-51.
- Stockfleth, Harry C. Quiver silencer. 2,872,959, 2-10-59, Cl. 150-1.5.
- Stockfleth, Harry C. Archery bow and view-finding reel. 2,918,049, 12-22-59, Cl. 124-23.
- Stockham Valves & Fittings, Inc.: *See*—  
Blomstran, Carl A., and Ehrensperger. 2,889,133.
- Stockholm, Margaret V.: *See*—  
De Graffenried, Albert L. 2,894,246.
- Stockholm, Raymond J.: *See*—  
De Graffenried, Albert L. 2,894,246.
- Stockholm, Robert Q.: *See*—  
De Graffenried, Albert L. 2,894,246.
- Stockholm, Seth R.: *See*—  
De Graffenried, Albert L. 2,894,246.
- Stocking, Bert A. Battery post connector. 2,906,988, 9-29-59, Cl. 339-116.
- Stocking, George E., to General Electric Co. Air conditioning apparatus. 2,911,797, 11-10-59, Cl. 62-176.
- Stöckl, Franz, to Optische Anstalt C.P. Goerz, G.m.b.H. Holding magnet system. 2,897,415, 7-28-59, Cl. 317-171.



- Stockland Road Machinery Co.: See—  
Ricklick, Eugene A. 2,867,452.
- Stockman, Earle F.,  $\frac{1}{2}$  to F. M. Nishio. Insulated screw driver. 2,899,996, 8-18-59, Cl. 145-50.
- Stockman, William E., to Ling Electronics, Inc. Peak and notch filters including active elements. 2,888,526, 5-26-59, Cl. 179-171.
- Stoddard, Carl K.: See—  
Schmidt, Charles L., and Stoddard. 2,882,143.  
Smith, Elbert C., and Stoddard. 2,889,220.
- Stoddard, Edgar S.: See—  
Conkling, Donald R., and Stoddard. 2,885,789.
- Stoddard, Edgar S., to General Electric Co. Methods of preserving fresh foods. 2,894,845, 7-14-59, Cl. 99-193.
- Stoddard, Edgar S., to General Electric Co. Methods of and apparatus for preserving fresh foods. 2,894,846, 7-14-59, Cl. 99-217.
- Stoddard, Edgar S., to General Electric Co. Water demineralizing units. 2,906,684, 9-29-59, Cl. 204-229.
- Stoddard, Edgar S., to General Electric Co. Water treatment methods. 2,912,372, 11-10-59, Cl. 204-151.
- Stoddard, Edgar S., and D. J. Vallino, to General Electric Co. Water demineralizing units. 2,906,685, 9-29-59, Cl. 204-264.
- Stoddard, Glen W. Forage blower. 2,894,787, 7-14-59, Cl. 302-37.
- Stoddard, Jessie S. Dress form. 2,874,883, 2-24-59, Cl. 223-68.
- Stoddard, Jessie S. Dress form. 2,879,928, 3-31-59, Cl. 223-68.
- Stoddard, Nicholas J., and W. A. Seem, to Universal Winding Co. Method of processing yarn. 2,891,376, 6-23-59, Cl. 57-157.
- Stoddard, Orren J., to United States of America, Navy. Multi-stage ring circuit. 2,901,607, 8-25-59, Cl. 250-27.
- Stoddard, Robert J., A. W. Brown, and H. T. Bratt, to American Hoist & Derrick Co. Block stowage means for derricks. 2,902,177, 9-1-59, Cl. 212-58.
- Stoddard, Stuart V., to Godfrey L. Cabot, Inc. Thermal carbon black process. 2,911,287, 11-3-59, Cl. 23-209.4.
- Stoddard, William B., Jr., to The Champion Paper and Fibre Co. Process of bleaching chemical wood pulp with nitrogen trichloride. 2,882,120, 4-14-59, Cl. 8-105.
- Stoddard, Hugh F., and T. Voutselas, to Baird-Atomic, Inc. Pulse forming networks. 2,867,752, 1-6-59, Cl. 315-84.6.
- Stoddard, Hugh F., V. Cordingley, and T. Voutselas, to Baird-Atomic, Inc. Supporting structure for electronic components. 2,880,379, 3-31-59, Cl. 317-101.
- Stoddard, John O.: See—  
Bell, Francis J., and Stoddard. 2,918,176.
- Stoeberl, Frank J.: See—  
Merryman, Carl, and Stoeberl. 2,896,577.
- Stoeckel, Albert L., and C. T. Zimmermann, to United States Steel Corp. Weighing conveyor. 2,905,310, 9-22-59, Cl. 198-39.
- Stoeckel, Albert L., and C. T. Zimmermann, to United States Steel Corp. Apparatus for counting bundles moving along a conveyor. 2,913,173, 11-17-59, Cl. 235-98.
- Stoecklin, Ernst: See—  
Mory, Rudolf, Stoecklin, and Schmid. 2,914,539.
- Stoecklin, Josef, to Aktiengesellschaft Brown, Boveri & Cie. Electrical relay having testing means. 2,878,430, 3-17-59, Cl. 317-113.
- Stoelting, Herman O., to McGraw-Edison Co. System of parallel mercury vapor lighting. 2,878,422, 3-17-59, Cl. 315-121.
- Stoelting, Herman O., to McGraw-Edison Co. Circuit interrupter device. 2,883,493, 4-21-59, Cl. 200-146.
- Stoesser, Frederick G. Intra luminal vein stripper. 2,868,206, 1-13-59, Cl. 128-803.
- Stoesser, Wesley C., E. H. Sommerfield, and W. R. Surine, to The Dow Chemical Co. Method of esterifying epoxy resins with unsaturated acids. 2,875,165, 2-24-59, Cl. 260-18.
- Stoffel, Paul J.: See—  
Beaver, David J., Hamm, and Stoffel. 2,867,520.  
Beaver, David J., and Stoffel. 2,870,205.  
Beaver, David J., and Stoffel. 2,885,403.  
Beaver, David J., and Stoffel. 2,894,986.  
Beaver, David J., and Stoffel. 2,897,242.  
Beaver, David J., Stoffel, and Hamm. 2,913,322.
- Stoffel Seals Corp.: See—  
Andraeu, Emil G. 2,903,287.
- Stohn, Kendall R. Combined right and left hand release for packers. 2,909,226, 10-20-59, Cl. 166-138.
- Stohr, Helmut: See—  
Indest, Heinz, Massat, and Stohr. 2,884,414.
- Stöhr, Walter, to Siemens & Halske Akt. Omnidirectional antenna using dipoles. 2,880,418, 3-31-59, Cl. 343-799.
- Stoiber, Joseph, to Eastman Kodak Co. Double exposure prevention device. 2,911,895, 11-10-59, Cl. 95-31.
- Stoicos, Constantine E. Vacuum cleaning apparatus. 2,877,313, 3-10-59, Cl. 200-61.6.
- Stokes, Charles A., to Godfrey L. Cabot, Inc. Igniting composition containing a pyrogenic oxide. 2,902,351, 9-1-59, Cl. 44-7.
- Stokes Corp.: See—  
Strauss, William. 2,878,515.  
Wyatt, William K., Jr., and Brownell. 2,879,724.
- Stokes, Edward D., to Esso Research and Engineering Co. Method of operating a fluid bed coking system. 2,882,223, 4-14-59, Cl. 208-157.
- Stokes, F. J., Corp., The: See—  
Belsterling, Charles A. 2,885,618.  
Frank, Raymond G. 2,883,703.  
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Frank, Raymond G. 2,906,214.  
McMinn, Charles E., and Fuller. 2,889,441.
- Stokes, F. J., Machine Co.: See—  
Israelson, Arlo F., and Tenpas. 2,900,076.
- Stokes, George E., to English Rose Ltd. Fall bar adjustment in cotton's patent knitting machines. 2,917,913, 12-22-59, Cl. 66-110.
- Stokes, J. D.,  $\frac{1}{2}$  to Ferdinand and Gregorie, Jr. Train rail lubricating device. 2,907,410, 10-6-59, Cl. 184-3.
- Stokes, Jacob L.: See—  
Straka, Robert P., and Stokes. 2,906,672.
- Stokes, Morris A., to Armstrong Siddeley Motors Ltd. Combustion systems for gas turbine engines. 2,916,367, 12-8-59, Cl. 48-107.
- Stokes, Ray A. Dual abrasive blast nozzle. 2,869,290, 1-20-59, Cl. 51-11.
- Stokes, William E., Jr.: See—  
Stratton, Wayne, and Stokes. 2,878,694.
- Stokes, William H.: See—  
Pritchard, John E., and Stokes. 2,883,925.
- Stokes, William S., to Pipeline Coating & Engineering Co., Inc. Means to support and insulate pipelines. 2,868,230, 1-13-59, Cl. 138-65.
- Stokesberry, Paul W.: See—  
Vance, Glenn, Powers, Stokesberry, Colman, and Klipstein. 2,877,286.
- Stocking, William, Jr. Shear pin assembly for marine engines. 2,916,897, 12-15-59, Cl. 64-28.
- Stokland, Sigmund. Dispensers for agricultural machines. 2,874,878, 2-24-59, Cl. 222-177.
- Stokland, Sigmund. Agricultural machines for use as seed planters and fertilizer distributors. 2,904,220, 9-15-59, Cl. 222-140.
- Stolecki, William, V. P. Romeo, C. P. Cardani, and C. K. Woodman, to United Shoe Machinery Corp. Machines for mounting electronic components. 2,903,698, 9-15-59, Cl. 1-2.
- Stolecki, William E., V. P. Romeo, C. P. Cardani, and C. K. Woodman, to United Shoe Machinery Corp. Feed means for component mounting machines. 2,908,909, 10-20-59, Cl. 1-100.
- Stoll, Arthur, E. Jucker, and A. Lindenmann, to Saul & Co., as nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. 6-alkoxy-tropinone derivatives. 2,883,387, 4-21-59, Cl. 260-292.
- Stoll, Arthur, J. Renz, and J.-P. Bourquin, to Sandoz Ltd. 10-[2'-(N-alkyl-piperidyl-2'')-ethyl-1']-phenothiazines containing a substituent in 3-position. 2,902,486, 9-1-59, Cl. 260-243.
- Stoll, Arthur, J. P. Bourquin, and J. Renz, to Sandoz Ltd. (also known as Sandoz A.G.). N-(piperidyl-2-ethyl)-N-(mercaptophenyl)-anilines. 2,902,491, 9-1-59, Cl. 260-293.4.
- Stoll, Hermann, to Robert Bosch G.m.b.H. Fuel injection systems for multicylinder engines. 2,892,453, 6-30-59, Cl. 123-139.
- Stoll, Karl, to Mannesmann Akt. Torsion bar suspension systems. 2,892,623, 6-30-59, Cl. 267-57.
- Stoll, Karl, to K. Klager. Device for the plastering of corners in the building trade. 2,902,855, 9-8-59, Cl. 72-136.
- Stoll, Kenneth M., to Sylvania Electric Products Inc. Electron tube. 2,916,648, 12-8-59, Cl. 313-178.
- Stoll, Ralph K., and A. R. Christensen, to Niagara Instrument Corp. Convertible grill. 2,885,950, 5-12-59, Cl. 99-340.
- Stoll, Walter W., and E. R. Reuter, said Reuter assor. to said Stoll. Beet harvesting machine and clearance device therefor. 2,906,350, 9-29-59, Cl. 171-10.
- Stoll, Willy: See—  
Thuillier, Jean E., Litvan, and Stoll. 2,911,440.
- Stolle, Anthony D.: See—  
Gallagher, William P., Stolle, and Schroeder. 2,886,106.
- Stollenwerk, Hans. Stretcher. 2,899,693, 8-18-59, Cl. 5-82.
- Stollman, Harry E., to Essex Metal Products Co. Buckle construction with decorative panel. 2,891,254, 6-23-59, Cl. 2-321.
- Stollenberg, Donald A., to The Duriron Co., Inc. Filter press. 2,912,110, 11-10-59, Cl. 210-90.
- Stoltman, Donald D.: See—  
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- Stoltman, Donald D., to General Motors Corp. Throttle actuating mechanism. 2,871,001, 1-27-59, Cl. 261-23.
- Stoltman, Donald D., to General Motors Corp. Air bleed control. 2,883,112, 4-21-59, Cl. 236-101.
- Stoltman, Donald D., to General Motors Corp. Combined injection and pressure carburetor fuel system. 2,916,269, 12-8-59, Cl. 261-23.
- Stoltz, Elmer C., W. J. Zeeveld, and E. J. Stoltz. Hydraulic motor. 2,878,787, 3-24-59, Cl. 121-119.
- Stoltz, Elmer J.: See—  
Stoltz, Elmer C., Zeeveld, and Stoltz. 2,878,787.
- Stolz, Desmond. Welding machine and method. 2,913,567, 11-17-59, Cl. 219-79.
- Stolz, Heinrich, and H. Stolz, to Curt Matthaei. Wire hook connecting conveyer bands, belts, and the like. 2,912,732, 11-17-59, Cl. 24-33.
- Stolz, Hermann: See—  
Stolz, Heinrich, and Stolz. 2,912,732.



- Stolzenberger, Adam J.: *See*—  
Wasserman, Lee S., and Stolzenberger. 2,910,639.
- Stoming, Robert F.: *See*—  
Kallman, Robert I., Steinbach, and Stoming. 2,875,891.  
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- Stone, Bernard: *See*—  
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- Stone, Bobbie D., to Monsanto Chemical Co. Method of treating nematodes with thiourea and ethylene thiourea copper complexes. 2,900,295, 8-18-59, Cl. 167-22.
- Stone, Bobbie D., and M. L. Nielsen, to Monsanto Chemical Co. Process for preparing thiocarbonates. 2,893,835, 7-7-59, Cl. 23-114.
- Stone, Bobbie D., E. Seifter, and P. H. Santmyer, to Monsanto Chemical Co. Nematode control by sulfur dioxide and ammonia. 2,912,793, 11-17-59, Cl. 47-58.
- Stone, Bobbie D., and M. L. Nielsen, to Monsanto Chemical Co. Process for compounding conjugated diene rubbers with cyclootrithiotetramine and product obtained thereby. 2,900,358, 8-18-59, Cl. 260-41.5.
- Stone, Carl R., and E. G. Schmidt, to Crane Co. Diaphragm ballcock. 2,875,977, 3-3-59, Cl. 251-331.
- Stone, Cecil C.: *See*—  
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- Stone, Claire E., and J. C. Layton, to Towlsaver, Inc. Dispenser for rolls of strip material. 2,908,450, 10-13-59, Cl. 242-55.3.
- Stone, Clifford C.: *See*—  
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- Stone Container Corp.: *See*—  
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- Stone, Cyril W.: *See*—  
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- Stone, Elmer O., to Sylvania Electric Products Inc. Power supply. 2,872,616, 2-3-59, Cl. 315-27.
- Stone, Elmer O., and F. L. Burroughs, to Sylvania Electric Products Inc. Colorimeter. 2,910,909, 11-3-59, Cl. 88-14.
- Stone, George M., Jr., and M. S. Sisulak, to General Electric Co. Clothes washing apparatus. 2,867,106, 1-6-59, Cl. 68-24.
- Stone, Harold A.: *See*—  
Dearing, Clarence W., Gruczek, and Stone. 2,889,156.
- Stone, Irwin: *See*—  
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- Stone, Irwin M., to Baxter Laboratories, Inc. Treatment of malt beverages. 2,892,718, 6-30-59, Cl. 99-48.
- Stone, Irwin M., P. P. Gray, and H. Morawetz, to Baxter Laboratories, Inc. Production of stable malt beverages. 2,912,333, 11-10-59, Cl. 99-48.
- Stone, J., & Co. (Deptford) Ltd.: *See*—  
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Stamberger, Andrew. 2,872,554.  
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Stamberger, Andrew. 2,894,235.  
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- Stone, James D., and L. M. Stahler, to United States Borax & Chemical Corp. Herbicidal granular composition and method of preparing the same. 2,904,423, 9-15-59, Cl. 71-2.4.
- Stone, Joseph J., to United States of America, Army. Smooth-curve function generator. 2,890,832, 6-16-59, Cl. 235-197.
- Stone, Lawrence H.: *See*—  
Earle, Ernest L., Jr., Sienkiewicz, and Stone. 2,917,389.
- Stone, Lyle M.: *See*—  
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- Stone, Morton D. Mattress and cushion construction. 2,874,390, 2-24-59, Cl. 5-351.
- Stone, Morris D., J. I. Greenberger, and M. Lamourediedieu, to United Engineering and Foundry Co. Method of continuously heat treating aluminum strip. 2,887,422, 5-19-59, Cl. 148-21.91.
- Stone, Newton C.: *See*—  
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- Stone, Orison W.: *See*—  
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- Stone, Orison W., to Continental Can Co., Inc. Tray carton. 2,875,941, 3-3-59, Cl. 229-34.
- Stone, Orison W., to Continental Can Co., Inc. Reinforced handle construction for paperboard cartons. 2,911,136, 11-3-59, Cl. 229-52.
- Stone, Orton G. Pivoted coupling and shim therefor. 2,896,983, 7-28-59, Cl. 287-100.
- Stone, Peter, to Premier Materials Co. Collapsible utility table or stand. 2,871,075, 1-27-59, Cl. 311-83.
- Stone, Richard S.: *See*—  
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- Stone, Robert H. Fluorescent fixture hoist. 2,896,908, 7-28-59, Cl. 254-1.
- Stone, Robert P., to United States of America, Army. Means for elimination of loss of contrast in direct view storage tubes. 2,873,404, 2-10-59, Cl. 315-12.
- Stone, Robert P., to Radio Corp. of America. Auxiliary heaters to aid in activation of cathode ray type guns. 2,875,361, 2-24-59, Cl. 313-85.
- Stone, Roger T., to Fincas e Industrias Tirlbi Ltda. Method for dispersing natural atmospheric fogs and clouds. 2,908,442, 10-13-59, Cl. 239-2.
- Stone, Roy A., and L. K. Ploughman, to National Lock Co. Catch assembly. 2,873,989, 2-17-59, Cl. 292-70.
- Stone, Stanford C. Variable capacitor. 2,892,138, 6-23-59, Cl. 317-249.
- Stone, Sven H.: *See*—  
Svenson, Ernest J., and Stone. 2,909,084.
- Stone, Thomas W.: *See*—  
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- Stone, Virgil D., to Gulf Oil Corp. Automatic plug injector and method of cleaning pipelines. 2,915,422, 12-1-59, Cl. 134-8.
- Stone, Walter N.: *See*—  
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- Stone & Webster Engineering Corp.: *See*—  
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- Stone, Wilfred H., to Meredith Publishing Co. Electronic loose plate detector for printing press. 2,902,929, 9-8-59, Cl. 101-378.
- Stone, Wilfred H., and D. W. Watson, to Meredith Publishing Co. Photoelectric article detector. 2,916,633, 12-8-59, Cl. 250-223.
- Stone, William R. Telephone holder. 2,901,553, 8-25-59, Cl. 179-148.
- Stone Crest Studios, Inc.: *See*—  
Sconce, Freddie O., and Taylor. 2,871,759.
- Stonehill, Albert A., to Ethicon, Inc. Ligature and suture package. 2,892,539, 6-30-59, Cl. 206-63.3.
- Stonehouse, Bernard H., to The General Electric Co. Ltd. Electric supply arrangements. 2,891,211, 6-16-59, Cl. 321-24.
- Stoneman, Lois R.: *See*—  
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- Stoner, Arthur M., to The Jacobs Mfg. Co. Key operated internally geared chuck. 2,880,007, 3-31-59, Cl. 279-53.
- Stoner, Arthur M., to The Jacobs Mfg. Co. Chuck key and support. 2,880,008, 3-31-59, Cl. 279-58.
- Stoner, Charles F. U., to Fairchild Engine and Airplane Corp. Aircraft landing gear-double acting shock strut. 2,891,788, 6-23-59, Cl. 267-64.
- Stoner, Eugene M., to Fairchild Engine & Airplane Corp. Cartridge magazine of aluminum or magnesium. 2,903,809, 9-15-59, Cl. 42-50.
- Stoner, George G.: *See*—  
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- Stoner, George G., and G. C. Wright, to General Aniline & Film Corp. Process of reacting a polymeric N-vinyl lactam with a polymeric carboxylic acid and product obtained thereby. 2,901,457, 8-25-59, Cl. 260-45.5.
- Stoner, Theodore R. Timer mechanism. 2,891,406, 6-23-59, Cl. 74-2.
- Stones, Alvin E.: *See*—  
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- Stookey, Byron O. Fish lure. 2,867,933, 1-13-59, Cl. 43-42.02.
- Stookey, Stanley D., to Corning Glass Works. Photograph made on glass. 2,911,749, 11-10-59, Cl. 41-26.
- Stop-Motion Devices Corp.: *See*—  
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- Stopps, Alfred L. Nesting pallets. 2,916,239, 12-8-59, Cl. 248-120.
- Stora Kopparbergs Bergslags Aktiebolag: *See*—  
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- Storall Corp.: *See*—  
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- Storatz, Gottfried J.: *See*—  
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- Storatz, Gottfried J., to International Harvester Co. Hitch for connecting vehicles to tractors. 2,877,024, 3-10-59, Cl. 280-400.
- Storbeck, Werner, to "Endopharm" Frankfurter Arzneimittel-fabrik G.m.b.H. 2,4,6-tribromo-3-acetylaminobenzoic acid and salts thereof. 2,890,244, 6-9-59, Cl. 260-518.
- Storchheim, Samuel. Solid state bonding of thorium with aluminum. 2,914,847, 12-1-59, Cl. 29-473.3.
- Storer, Alton B.: *See*—  
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- Storey, Robert H.: *See*—  
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- Storie, Reginald J. Beach pack. 2,898,609, 8-11-59, Cl. 5-344.
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- Stork, Gilbert: *See*—  
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- Stork, Gilbert, H. J. Ringold, F. Sondheimer, and G. Rosenkranz, to Syntex S. A. Process for the production of 20-keto-21-iodo steroids. 2,874,154, 2-17-59, Cl. 260-239.55.
- Storkline Furniture Corp.: *See*—  
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- Storm, Arthur W., and K. R. Groll, to Erie Mining Co. Chunk breaker for rectangular furnace. 2,884,237, 4-28-59, Cl. 263-29.



- Storm, Frederick K., Jr., and E. H. Smiley, to E. F. Hagman. Automatically adjustable pape turner. 2,885,806, 5-12-59, Cl. 40-104.
- Storm, John F., and R. M. Williamson, to Minneapolis-Honeywell Regulator Co. Condition sensing apparatus. 2,896,454, 7-28-59, Cl. 73-304.
- Stormont, Noble: *See*—
- Beck, Karl M., and Stormont. 2,893,869.
- Storms, John N.: *See*—
- Harland, Philip W., and Storms. 2,874,572.
- Storrie, Arthur: *See*—
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- Storrs, Charles H., and M. C. Morgan. Card pocket board. 2,906,409, 9-29-59, Cl. 211-55.
- Storrs, William H., to The Hartford Special Machinery Co. Fluid actuated jack with pressure responsive automatic lock. 2,876,746, 3-10-59, Cl. 121-40.
- Storsand, Bjarne, to Oerlikon Engineering Co. High capacity choke for D.C. installations. 2,901,717, 8-25-59, Cl. 336-223.
- Story, Charles F.: *See*—
- Robinson, Joseph J., Jr., and Story. 2,906,034.
- Story, Joseph B. Treatment of sulfur dye waste liquors. 2,877,177, 3-10-59, Cl. 210-49.
- Storz, Charles R., Jr., to Storz Instrument Co. Physician's headlight. 2,883,980, 4-28-59, Cl. 128-23.
- Storz, Charles R., Jr., to Storz Instrument Corp. Surgical spring clip forceps. 2,890,519, 6-16-59, Cl. 29-225.
- Storz Instrument Co.: *See*—
- Storz, Charles R., Jr. 2,883,980.
- Storz, Charles R., Jr. 2,890,519.
- Stothert & Pitt, Ltd.: *See*—
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- Fawcett, Cecil C., Stott, and Laager. 2,903,849.
- Moldorsky, Matthew, Musser, and Stott. 2,902,933.
- Musser, C. Walton, Stott, and Benditt. 2,883,909.
- Stott, Albert M. Tension thruster with buffer. 2,873,726, 2-17-59, Cl. 123-24.
- Stott, Albert M., and F. J. Shinaly, to United States of America, Army. Rotary thruster. 2,910,053, 10-27-59, Cl. 123-24.
- Stott, Charles B., and P. W. Daino, to International Business Machines Corp. Self-complementing gas tube accumulator. 2,907,520, 10-6-59, 235-92.
- Stott, Everett W. Aquarium heater. 2,914,649, 11-24-59, Cl. 219-40.
- Stott, Frank D., to National Research Development Corp. Absorptiometers. 2,899,858, 8-18-59, Cl. 88-14.
- Stott, Geoffrey. Curing natural rubber latex with a peroxide. 2,868,859, 1-13-59, Cl. 260-773.
- Stott, Roy W. Steak cooker. 2,915,959, 12-8-59, Cl. 99-345.
- Stoudenheimer, Richard G., to Radio Corp. of America. Photosurface. 2,880,344, 3-31-59, Cl. 313-102.
- Stoudenmire, Jay H., to Bendix Aviation Corp. Self-synchronous transmission system. 2,896,141, 7-21-59, Cl. 318-24.
- Stough, Gerald D., to Whitehead & Kales Co. Road form structure. 2,875,500, 3-3-59, Cl. 25-118.
- Stough, Gerald D., to Whitehead & Kales Co. Rectilinearly adjustable rigid attachment means between members. 2,917,139, 12-15-59, Cl. 189-36.
- Stough, Gerald D., to Whitehead & Kales Co. Portable adjustable rack. 2,917,261, 12-15-59, Cl. 248-120.
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- Duffield, Robert B., and Stoughton. 2,872,288.
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- Alderman, Edwin N., Spearman, and Stout. 2,914,476.
- Alderman, Edwin N., Jr., and Stout. 2,913,420.
- Stout, Glenn M., and E. J. Peterson, to American Electronics Co. Control circuit for flasher lights and the like. 2,887,592, 5-19-59, Cl. 307-132.
- Stout, Joseph M., to Ford Motor Co. Piston. 2,872,909, 2-10-59, Cl. 123-90.
- Stout, Orin C.: *See*—
- Schueler, Lyle B., Cantieri, and Stout. 2,904,260.
- Stout, Raymond K. Method of packaging cigarettes and construction of cigarette package. 2,908,421, 10-13-59, Cl. 221-208.
- Stout, William H., and P. H. Raumaker, said Raumaker to said Stout. Coupler for pipe sections with intermediate fluid actuated seal and gripping means. 2,871,033, 1-27-59, Cl. 285-106.
- Stouten, Edwin A., and S. K. Beach, to Alexander Dodds Co. Dovetailing machine. 2,893,450, 7-7-59, Cl. 144-87.
- Stovall, Elmo G., and G. R. Williams, Jr. Pipe working machines. 2,917,976, 12-22-59, Cl. 90-12.
- Stovall, John R., Jr., to Sperry Rand Corp. Disk recording compensating devices. 2,901,737, 8-25-59, Cl. 340-174.
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- Doyle, Frank P., and Stove. 2,877,265.
- Stover, Ancil C., to W. A. Eisenhauer, W. P. Ellwood, and I. J. and L. E. Eisenhauer, d.b.a. The Eisenhauer Mfg. Co. Hydraulic suspension and stabilizer systems for vehicles. 2,890,063, 6-9-59, Cl. 280-109.
- Stover, Carrell J., to The Allen Iron & Steel Co. Shear for channels or the like. 2,884,063, 4-28-59, Cl. 164-47.
- Stover, Harris A., to Collins Radio Co. Adaptable input circuit for receiver providing proper tracking with either of two antennas of different impedance. 2,888,555, 5-26-59, Cl. 250-20.
- Stover, Harris A., to Collins Radio Co. Wire saving switching system for load positioning motor control. 2,888,624, 5-26-59, Cl. 318-467.
- Stover, Harry E., to Anchor Hocking Glass Corp. Machine for aseptically sealing containers. 2,869,300, 1-20-59, Cl. 53-88.
- Stover, Harry E., to Anchor Hocking Glass Corp. Machine for hermetically sealing glass containers. 2,869,301, 1-20-59, Cl. 53-110.
- Stover, Harry E., to Anchor Hocking Glass Corp. Device for molding gaskets. 2,877,493, 3-17-59, Cl. 18-5.
- Stover, Harry E., to Anchor Hocking Glass Corp. Hydraulic container sealing means. 2,891,366, 6-23-59, Cl. 53-361.
- Stover, Harry E., to Anchor Hocking Glass Corp. Container sealing apparatus. 2,915,862, 12-8-59, Cl. 53-112.
- Stover, Henry S.: *See*—
- Fauteck, Walter S., Rollert, and Stover. 2,910,916.
- Stover, Ingram V., and W. L. Vallee, to Blackhawk Mfg. Co. Adjustable load support. 2,895,712, 7-21-59, Cl. 254-134.
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- Ruh, Robert P., Stowe, and Davis. 2,889,379.
- Stowe, Robert A., and E. R. Larsen, to The Dow Chemical Co. Production of a tetrachlorotetrafluorobutene. 2,917,557, 12-15-59, Cl. 260-653.3.
- Stowell, Finch: *See*—
- Miller, Edward E., and Stowell. 2,897,887.
- Stowitts, Frank H., and D. P. Wheeler, to Michigan Carton Co. Dispensing carton with a push-pull closure for same. 2,899,119, 8-11-59, Cl. 229-17.
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- Grover, Charles F., and Stoyer. 2,917,129.
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- Jarvis, Alvin J., and Straayer. 2,883,125.
- Straba Handels-Akt.: *See*—
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- Strabeck, Carl A. Knuckle saver punch and chisel holder. 2,889,726, 6-9-59, Cl. 81-1.
- Strachan, Edward J. Holder and ejector for collapsible tubes. 2,906,479, 9-29-59, Cl. 248-108.
- Strachan & Henshaw Ltd.: *See*—
- Chodorowski, Wieslaw T. 2,911,132.
- Strachanow, Grigory: *See*—
- Fyler, George W., and Strachanow. 2,918,602.
- Strachey, Christopher: *See*—
- Crawley, Hubert J., and Strachey. 2,898,041.
- Stradella, Giuseppe. "Atraumatic" surgical needle. 2,891,547, 6-23-59, Cl. 128-339.
- Strader, Don S., to Pantex Mfg. Corp. Regulating control for immersed electrode boiler. 2,875,317, 2-24-59, Cl. 219-40.
- Strader, Edward A. Bin level indicator. 2,915,205, 12-1-59, Cl. 214-17.
- Stradley, Norman H., and W. R. Beck, to Minnesota Mining & Mfg. Co. High-index glass elements. 2,870,030, 1-20-59, Cl. 106-47.
- Strahan, Heaston A. Cutting torch carriage. 2,886,305, 5-12-59, Cl. 266-23.
- Strahlberg, Kurt: *See*—
- Sippach, Frederick W., Jr., and Strahlberg. 2,884,525.
- Strahmann, Hans. Apparatus for making bread and pastry dough. 2,868,143, 1-13-59, Cl. 107-30.
- Strahmann, Hans. Process for making baking dough. 2,873,697, 2-17-59, Cl. 107-54.
- Straight, David M.: *See*—
- Gold, Harold, and Straight. 2,876,755.
- Gold, Harold, and Straight. 2,876,756.
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- Strain, Bruce: *See*—
- Krumrei, William C., Strain, and Peddicord. 2,877,185.
- Strain, Bruce, S. L. Eaton, and K. R. Erierson, to The Procter & Gamble Co. Making perborate containing detergents. 2,876,200, 3-3-59, Cl. 252-97.
- Strain, Douglas C., and L. R. Rockwood, to Electro-Measurements, Inc. Variable control for electrical impedance assemblies. 2,884,505, 4-28-59, Cl. 201-48.
- Straitiff, Dorsey E. Well digging machine. 2,880,964, 4-7-59, Cl. 255-1.
- Straka, Cyril J., and W. C. Weltman, to Westinghouse Electric Corp. Phenolic resin varnish and method of making the same. 2,885,386, 5-5-59, Cl. 260-57.
- Straka, Oldrich: *See*—
- Dubsky, Borivoj, and Straka. 2,902,768.
- Dubský, Bofivoj, and Straka. 2,917,692.
- Straka, Robert P., and J. L. Stokes, to United States of America, Agriculture. Method of conducting microbial counts. 2,906,672, 9-29-59, Cl. 195-103.5.
- Straka, William J.: *See*—
- Giordano, Anthony, and Straka. 2,881,097.



- Strakos, Robert P.: *See*—  
Kearney, John F., and Soderberg. 2,892,995.
- Straley, James B., to Brodrex Co. Apparatus for spraying waxy substances onto fruit surfaces. 2,898,881, 8-11-59, Cl. 118—24.
- Straley, James M., and J. G. Fisher, to Eastman Kodak Co. Metallizable azo dyes prepared from aminobenzothiazole derivatives and  $\beta$ -naphthol derivatives. 2,868,774, 1-13-59, Cl. 260—146.
- Straley, James M., and R. R. Giles, to Eastman Kodak Co. Metallizable azo dyes prepared from benzothiazoles and hydroxy-thianaphthenes. 2,868,775, 1-13-59, Cl. 260—146.
- Straley, James M., D. J. Wallace, and J. G. Fisher, to Eastman Kodak Co. Thiazoleazodiphenylamine compounds. 2,871,231, 1-27-59, Cl. 260—146.
- Straley, James M., and J. G. Fisher, to Eastman Kodak Co. Metallizable azo dyes prepared from benzothiazole derivative and  $\beta$ -naphthol. 2,875,190, 2-24-59, Cl. 260—146.
- Straley, James M., and R. C. Harris, to Eastman Kodak Co. Cellulose acetate fibers containing nickel carbonate. 2,882,176, 4-14-59, Cl. 106—194.
- Straley, James M., and J. G. Fisher, to Eastman Kodak Co. 2-hydroxy-5-methylsulfonylphenylazodiphenylamine compounds. 2,887,477, 5-19-59, Cl. 260—149.
- Straley, James M., and D. G. Hedberg, Jr., to Eastman Kodak Co. Metallized anthraquinone dyes. 2,895,967, 7-21-59, Cl. 260—366.
- Straley, James M., J. G. Fisher, and D. J. Wallace, to Eastman Kodak Co. Nickel and cobalt complexes of pyrazolone monoazo compounds. 2,908,677, 10-13-59, Cl. 260—147.
- Straley, James M., and J. G. Fisher, to Eastman Kodak Co. Metallizable azo dyes prepared from substituted aminobenzothiazoles and a  $\beta$ -naphthol. 2,916,482, 12-8-59, Cl. 260—146.
- Strand, Sven H. Anchor bolt having elastically connected wedge members. 2,903,938, 9-15-59, Cl. 85—24.
- Strandberg, Charles F. Impulse switch for random information counters. 2,908,778, 10-13-59, Cl. 200—19.
- Strandberg, Malcolm W. P. Microwave frequency discriminator. 2,905,902, 9-22-59, Cl. 331—9.
- Strang, Charles D., to Kiekhaefer Corp. Fuel injection system. 2,890,692, 6-16-59, Cl. 123—140.
- Strang, Charles D., to Kiekhaefer Corp. Reversible outboard motor. 2,909,146, 10-20-59, Cl. 115—7.
- Strang, Roger P.: *See*—  
Spector, Marshall L., and Strang. 2,899,453.
- Strange, Booth B., to Western Geophysical Co. of America. Apparatus for making seismograph record sections. 2,876,689, 3-10-59, Cl. 95—73.
- Strange, John P.: *See*—  
Yant, William P., and Strange. 2,876,064.
- Strange, John W.: *See*—  
Lancucki, Marian A., and Strange. 2,891,141.
- Strange, John W., to Thorn Electrical Industries Ltd. Instrument panel illuminator. 2,872,567, 2-3-59, Cl. 240—8.16.
- Stranne, Olaf W.: *See*—  
Persson, Ponté S., Stranne, and Oresten. 2,914,878.
- Strano, Salvatore: *See*—  
Jackes, Stanley F., and Strano. 2,884,899.
- Stransky, Gustave. Hatch covers for ships. 2,869,502, 1-20-59, Cl. 114—202.
- Stransky, Gustave. Hatch cover arrangement. 2,917,017, 12-15-59, Cl. 114—202.
- Strasberg, Murray: *See*—  
Podolak, Edward, and Strasberg. 2,918,651.
- Strasel, Raymond K., to Jacobsen Mfg. Co. Turf slicer. 2,881,847, 4-14-59, Cl. 172—549.
- Strasel, Raymond K., to Jacobsen Mfg. Co. Adjustable wheel mounting for lawn mower. 2,882,063, 4-14-59, Cl. 280—43.
- Strassman, Alvin J., and H. E. Howard, to Hughes Aircraft Co. Electronic tachometer with selected expanded scale. 2,887,654, 5-19-59, Cl. 324—70.
- Straszner, Walter C. Window shade. 2,875,480, 3-3-59, Cl. 20—62.
- Stratabar Process Co.: *See*—  
Paxton, Elisha W. 2,902,524.
- Strate, Frank R. Metal powder welding apparatus. 2,900,138, 8-18-59, Cl. 289—61.
- Strate, Robert A. Dough cutters. 2,878,564, 3-24-59, Cl. 30—303.
- Strategic-Udy Metallurgical and Chemical Processes, Ltd.: *See*—  
Udy, Marvin J. 2,901,341.  
Udy, Marvin J. and M. C. 2,878,114.
- Stratford Engineering Corp.: *See*—  
Putney, David H. 2,906,796.  
Stratford, Herbert W. 2,909,533.  
Stratford, Herbert W. 2,909,534.  
Stratford, Herbert W. 2,909,634.
- Stratford, Herbert W., to Stratford Engineering Corp. Method and apparatus for chemical reactions. 2,909,533, 10-20-59, Cl. 260—400.
- Stratford, Herbert W., to Stratford Engineering Corp. Vertical contactor with features. 2,909,534, 10-20-59, Cl. 260—400.
- Stratford, Herbert W., to Stratford Engineering Corp. Process and apparatus for chemical reactions. 2,909,634, 10-20-59, Cl. 260—400.
- Stratford, William M., to Texaco Inc. Hydrocarbon conversion process. 2,908,634, 10-13-59, Cl. 208—113.
- Stratford, William M., to Texaco Inc. Treating solid materials. 2,914,391, 11-24-59, Cl. 48—206.
- Strathearn, Donald M., and H. H. Jennings, to Philco Corp. Combination washer and dryer. 2,869,345, 1-20-59, Cl. 68—19.
- Stratman, William C., to North American Aviation, Inc. Pneumatic grip gauge. 2,894,331, 7-14-59, Cl. 33—143.
- Stratman, William C., and W. H. Bringhurst, to North American Aviation, Inc. Airfeed drill nose adapter. 2,882,762, 4-21-59, Cl. 77—55.
- Stratmann, Wolf: *See*—  
Krüger, Otto, and Stratmann. 2,915,024.
- Stratton, Charles A., Phillips Petroleum Co. Clay-thickened lubricants and the preparation thereof. 2,879,229, 3-24-59, Cl. 252—21.
- Stratton, David W.,  $\frac{1}{2}$  to J. B. Rudy. Potentiometer structures. 2,876,318, 3-3-59, Cl. 201—48.
- Stratton, Edwin J. D., to Uarco Inc. Continuous form stationery and method of forming same. 2,884,262, 4-28-59, Cl. 282—12.
- Stratton, Hal: *See*—  
Bauer, Robert F., and Stratton. 2,891,770.
- Stratton, Wayne, and W. E. Stokes, Jr. Lathe drill attachment. 2,878,694, 3-24-59, Cl. 77—5.
- Straub, Hermann, W. Beig, A. Maier, and L. Wiedmann, to I-T-E Circuit Breaker Co. Spring brush for rotating parts. 2,889,530, 6-2-59, Cl. 339—5.
- Straub, Watson A. Combined bottle carrying case and bottle cap remover. 2,875,654, 3-3-59, Cl. 81—3.1.
- Straube, Harold M., to Bell Telephone Laboratories, Inc. Shield for electric current apparatus. 2,879,318, 3-24-59, Cl. 174—36.
- Straube, Harold M., to Bell Telephone Laboratories, Inc. Lockout circuits utilizing thermistor-gas tube combinations. 2,914,747, 11-24-59, Cl. 340—155.
- Straughan, Virgil E.: *See*—  
Mayer, Edward F., and Straughan. 2,878,120.  
Mayer, Edward F., and Straughan. 2,891,911.
- Straughan, Virgil E., to General Dynamics Corp. Apparatus for imparting electrostatic charges in electrophotography. 2,892,973, 6-30-59, Cl. 317—262.
- Straughan, Virgil E., to General Dynamics Corp. Process for developing electrostatic image with liquid developer. 2,899,335, 8-11-59, Cl. 117—37.
- Straus, Everet M., to DWG Cigar Corp. Cigar. 2,914,071, 11-24-59, Cl. 131—11.
- Straus, Moritz: *See*—  
Klaue, Hermann. 2,883,007.
- Strauss, Monroe B. Pie marker, method of finishing meringue pies and the resulting meringue pie. 2,901,352, 8-25-59, Cl. 99—92.
- Strauss, Arvid, now by change of name A. Marlo. Artificial articles imitating natural articles. 2,896,352, 7-28-59, Cl. 41—10.
- Strauss, Charles E. Work holding jaws for chucks. 2,896,958, 7-28-59, Cl. 279—123.
- Strauss, Edwin. Adjustable fastening means for handles and the like. 2,882,549, 4-21-59, Cl. 16—125.
- Strauss, Howard J., to The Electric Storage Battery Co. Storage battery separator. 2,880,260, 3-31-59, Cl. 136—143.
- Strauss, Howard J., to The Electric Storage Battery Co. Alkaline storage battery. 2,905,739, 9-22-59, Cl. 136—6.
- Strauss, Howard J., to The Electric Storage Battery Co. Sealed alkaline storage battery. 2,915,576, 12-1-59, Cl. 136—9.
- Strauss, Irving, to Bruno-New York Industries Corp. Wire twisting tool. 2,884,210, 4-28-59, Cl. 242—7.
- Strauss, Jerome, to Vanadium Corp. of America. Device for supplying treating agents sequentially to molten metal. 2,915,386, 12-1-59, Cl. 75—93.
- Strauss, Philip J. Adjustable toasting appliances. 2,916,984, 12-15-59, Cl. 99—390.
- Strauss, Ray C. Driving controls. 2,912,081, 11-10-59, Cl. 192—3.
- Strauss, Walter A.: *See*—  
Ehrlich, Joseph R., and Strauss. 2,870,497.
- Strauss, Wennemar: *See*—  
Gundel, Wolfgang, and Strauss. 2,876,177.  
Gundel, Wolfgang, Strauss, and Haas. 2,892,760.  
Haas, Hermann, Kirstahler, Gundel, and Strauss. 2,893,932.  
Kirstahler, Alfred, Willmund, and Strauss. 2,905,602.
- Strauss, Wennemar, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Method of copper-plating metal surfaces. 2,903,403, 9-8-59, Cl. 204—32.
- Strauss, Wennemar, and H. Wedell, to Dehydag Deutsche Hydrierwerke G.m.b.H. Brighteners for electroplating baths. 2,910,413, 10-27-59, Cl. 204—44.
- Strauss, William, to Stokes Corp. Valved gates for an injection molding press. 2,878,515, 3-24-59, Cl. 18—30.
- Strausser, Arlan E. Fishing rig. 2,896,358, 7-28-59, Cl. 43—42.72.
- Straussler, Nicholas P. S. Pneumatic tires. 2,868,262, 1-13-59, Cl. 152—401.
- Straw, Douglas, to General Aniline & Film Corp. Diazotypes containing 2,2'-alkylenebis(1,3-cyclohexanediones) as azo components. 2,915,396, 12-1-59, Cl. 96—91.
- Straw, Jesse H.: *See*—  
Polk, Louis F., and Straw. 2,878,574.
- Strawinski, Jay F. Method of making laminated sheet material. 2,867,560, 1-6-59, Cl. 154—124.



- Straznickas, Donald A., to Sundstrand Machine Tool Co. Governor. 2,890,877, 6-16-59, Cl. 264-8.
- Streater, August L., and W. R. Wilson, to General Electric Co. Circuit and method for testing high capacity power circuit breakers. 2,914,724, 11-24-59, Cl. 324-28.
- Streeter, Edward C. Self-locking shelf and price tag molding assembly. 2,908,399, 10-13-59, Cl. 211-147.
- Streeter, James H. Boat trailer and cradle. 2,917,194, 12-15-59, Cl. 214-500.
- Streiber, Robert L., to Bendix Aviation Corp. Brake shoe. 2,871,996, 2-3-59, Cl. 188-250.
- Streiber, Robert L., to Bendix Aviation Corp. Brake with spaced lining segments. 2,875,859, 3-3-59, Cl. 188-78.
- Streck, Clemens, to General Aniline & Film Corp. Method of metallizing azoic dyeings. 2,867,494, 1-6-59, Cl. 8-42.
- Streck, Clemens, to General Aniline & Film Corp. Stabilization of acylacetarylide coupling components against formaldehyde deterioration. 2,877,083, 3-10-59, Cl. 8-44.
- Streck, Clemens, to General Aniline & Film Corp. Method of metallizing azoic dyeings. 2,893,814, 7-7-59, Cl. 8-42.
- Streck, Clemens, to General Aniline & Film Corp. Azoic dyeing of leather. 2,913,301, 11-17-59, Cl. 8-13.
- Streck, Clemens, to General Aniline & Film Corp. Azoic dyeing of leather. 2,913,302, 11-17-59, Cl. 8-13.
- Streckebach, Ernst: *See*—  
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- Strecker, Charles E.: *See*—  
Brooks, Wesley W., and Strecker. 2,869,037.
- Strecker, Charles E., to General Electric Co. Ballast apparatus. 2,878,421, 3-17-59, Cl. 315-100.
- Strecker, Harold A.: *See*—  
Brown, Glenn R., Jr., Strecker, and Crawford. 2,874,116.  
Stine, Harrison M., Strecker, and Faris. 2,906,700.  
Stine, Harrison M., Strecker, and Faris. 2,906,701.
- Strecker, Harold A., and H. M. Stine, to The Standard Oil Co. Process of aromatizing a naphtha with a alumina-chromia-platinum catalyst. 2,870,084, 1-20-59, Cl. 208-136.
- Streed, William R., to C. C. Harris and W. R. Streed, d.b.a. Machine Products Co. Slab-debarker having blade carrying members biased to engage the sides of the slab. 2,917,090, 12-15-59, Cl. 144-208.
- Street, John N.: *See*—  
Craig, Dwin R., and Street. 2,880,662.
- Street, Leslie J., to The Decca Record Co. Ltd. Waveguides. 2,883,632, 4-21-59, Cl. 333-98.
- Street, Luther R., to Springfield Newspapers, Inc. Inking apparatus for printing press. 2,887,950, 5-26-59, Cl. 101-210.
- Street, R. R., & Co., Inc.: *See*—  
Mathews, Martin B., and Thunberg. 2,913,893.  
Mayberry, Joe L., and Giddings. 2,895,321.
- Streets, Charles M., to Coopers Mechanical Joints Ltd. Combined gas filters and silencers. 2,886,129, 5-12-59, Cl. 183-44.
- Streeter-Amet Co.: *See*—  
Marquardt, John A. 2,899,544.
- Streeter, Clifford J., and K. R. Kadoun. Device for holding down flaps of cardboard boxes. 2,867,019, 1-6-59, Cl. 24-81.
- Streeter, George W., III. Leg and foot rest. 2,911,657, 11-10-59, Cl. 5-327.
- Streeter, Kenneth C., to United States of America, Air Force. Universal tapping arrangement for potentiometers. 2,916,716, 12-8-59, Cl. 338-137.
- Streeter, Milton H., to Arthur D. Little, Inc. Purification of low-boiling gases. 2,895,303, 7-21-59, Cl. 62-12.
- Streeter, Royal A.: *See*—  
Hulzschub, Donald L., Kurka, Phillips, and Streeter. 2,905,908.
- Streett, Le Roy P.: *See*—  
Oelgoetz, Paul A., and Streett. 2,885,273.
- Strehle, Horst: *See*—  
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Hennig, Walter, Strehle, and Mende. 2,906,184.
- Strehlow, Walter F., to Allis-Chalmers Mfg. Co. Interchangeable front end structure for tractors. 2,890,892, 6-16-59, Cl. 280-92.
- Strehlow, Walter F., to Allis-Chalmers Mfg. Co. Pressure gauge. 2,909,928, 10-27-59, Cl. 73-406.
- Strehlow, Walter F., to Allis-Chalmers Mfg. Co. Device for varying the steerable wheel tread of vehicles. 2,911,229, 11-3-59, Cl. 280-96.
- Streib, Homer F. Circular wing aircraft. 2,876,964, 3-10-59, Cl. 244-12.
- Streib, Homer F. Circular wing aircraft with universally tiltable ducted power plant. 2,876,965, 3-10-59, Cl. 244-12.
- Streiff, Henri: *See*—  
Gaertner, Hans, and Streiff. 2,912,428.  
Schmid, Max, and Streiff. 2,888,453.
- Streiffert, John G.: *See*—  
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- Streightif, Clifford B.: *See*—  
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- Strelow, Heinz G. E.: *See*—  
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- Stremke, William F., W. F. Stremke, Jr., and R. R. Pazderski. Dispensing tray for wrapping sheets. 2,903,261, 9-8-59, Cl. 271-61.
- Stremke, William F., W. F. Stremke, Jr., and R. R. Pazderski. Semi-automatic wrapping machine. 2,917,885, 12-22-59, Cl. 53-206.
- Stremke, William F., W. F. Stremke, Jr., and R. R. Pazderski. Semi-automatic wrapping machines. 2,917,886, 12-22-59, Cl. 53-206.
- Stremke, William F., Jr.: *See*—  
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Stremke, William F., W. F. Stremke, Jr., and Pazderski. 2,917,885.  
Stremke, William F., W. F. Stremke, Jr., and Pazderski. 2,917,886.
- Stretton, Thomas E., and F. D. Miller, to National Distillers and Chemical Corp. Chlorination process. 2,916,428, 12-8-59, Cl. 204-163.
- Stretz, Harland R.: *See*—  
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- Streuber, Rudolf G., to Research-Cottrell, Inc. Discharge electrode tensioning means. 2,867,286, 1-6-59, Cl. 183-7.
- Streuer, Wilhelm A.: *See*—  
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- Striar, Max B. Knitting machine. 2,902,848, 9-8-59, Cl. 66-125.
- Stribuload Inc.: *See*—  
Saunders, Seymour G., and Holcomb. 2,911,076.
- Strich, Philippe P. Centrifugal separator. 2,910,184, 10-27-59, Cl. 210-371.
- Stricker, Henry C., Jr., to Highway Trailer Co. Vehicle tandem axle air suspension. 2,879,076, 3-24-59, Cl. 280-104.5.
- Strickhouser, Sherman I., and R. J. Van Twisk, to United States Rubber Co. Bathing cap. 2,917,749, 12-22-59, Cl. 2-68.
- Strickland, Edward T.: *See*—  
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- Strickland, Gordon E. Adjustable door template. 2,895,229, 7-21-59, Cl. 33-194.
- Strickland, Harold A., to General Electric Co. Electric cooking appliances. 2,879,368, 3-24-59, Cl. 219-20.
- Strickland, Jerome R., and M. E. Anderson, to Free Lock Corp. Selective drive hub. 2,907,432, 10-6-59, Cl. 192-71.
- Strickland, John F.: *See*—  
Clark, Kenneth C., and Strickland. 2,904,925.
- Strickland, John S.: *See*—  
Brooks, Alfred J., and Strickland. 2,895,276.
- Strickland, Robert W.: *See*—  
Schultz, Frank A., and Strickland. 2,872,979.
- Strickland, Royce M.: *See*—  
Turton, John W., and Strickland. 2,889,725.
- Strickland, Royce M., Jr.: *See*—  
Hirt, Gerald E., and Strickland. 2,878,965.
- Strickland, Silas A., to Federal-Mogul-Bower Bearings, Inc. Method for making tapered roller bearing cones. 2,880,495, 4-7-59, Cl. 29-148.4.
- Strickland, Silas E., to The American Tobacco Co. Blender for stripped tobacco. 2,880,735, 4-7-59, Cl. 131-108.
- Strickland, Thomas G., to The Stearns-Roger Mfg. Co. Recovery of natural gasoline by fractionation. 2,895,909, 7-21-59, Cl. 208-364.
- Stricklem, Elza A. Adapter for pump cylinders. 2,918,019, 12-22-59, Cl. 103-155.
- Strickler, Carl D. Dental appliance. 2,880,509, 4-7-59, Cl. 32-14.
- Strickler, Dean R., and J. P. Kaenan, to The General Tire and Rubber Co. Retread mold. 2,886,851, 5-19-59, Cl. 18-38.
- Strickler, John C. Can closing machine. 2,870,727, 1-27-59, Cl. 113-23.
- Strickler, John C. Can closing machine. 2,916,000, 12-8-59, Cl. 113-22.
- Strickler John F., Jr.: *See*—  
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- Strickler, Morris A. Bait catcher. 2,891,811, 6-23-59, Cl. 294-19.
- Strickler, Walter B.: *See*—  
Gooderham, John W., Jacobitti, Myers, Shipley, and Strickler. 2,868,884.
- Stricklett, Lloyd P. Bending hand tool. 2,878,699, 3-24-59, Cl. 81-15.
- Stridsberg, Karl A.: *See*—  
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- Strigell, George. Combined motor and/or motor apparatus. 2,907,307, 10-6-59, Cl. 123-16.
- Strike, John L.: *See*—  
Pearson, Otto H., and Strike. 2,913,156.
- Strimel, Robert S., to Tinius Olsen Testing Machine Co. Instrumentation for strain testing. 2,910,778, 11-3-59, Cl. 33-148.
- Strimple, James H., to National Lead Co. Ceramic frit composition. 2,918,383, 12-22-59, Cl. 106-48.
- Stringer, Loren F., to Westinghouse Electric Corp. Control apparatus. 2,871,437, 1-27-59, Cl. 321-18.
- Stringer, Richard F.: *See*—  
Boisture, Worth W., Molstedt, Stringer, and Griffin. 2,874,095.  
Griffin, Lindsay I., Jr., Newchurch, Krebs, and Stringer. 2,886,514.
- Stringham, Leonidas K., and P. E. Jerabek, to The Lincoln Electric Co. Arc welding flux composition. 2,895,863, 7-21-59, Cl. 148-26.



- Strip, Joseph, to United States of America, Army. Apparatus for time multiplexing speech and short bursts of information. 2,881,251, 4-7-59, Cl. 179-2.
- Stripp, Kenneth F., and A. R. Moore, to Radio Corp. of America. Transistor construction. 2,874,083, 2-17-59, Cl. 148-33.
- Stritof, Martin, Jr.: *See*—  
Le Bolt, John M., Minow, and Stritof. 2,917,223.
- Strnad, James J.: *See*—  
Blazek, William J., and Strnad. 2,897,582.
- Strnad, James J., and H. B. Van Auker, to Lemco Products, Inc. Grinding machine. 2,881,569, 4-14-59, Cl. 51-56.
- Strnisha, Frank M. Sickle bar plier type tool. 2,897,701, 8-4-59, Cl. 81-5.1.
- Strobel, Albert F., and W. W. Williams, to General Aniline & Film Corp. Substituted sulfonyl Fe-nitroso- $\beta$ -naphthol dyes. 2,891,951, 6-23-59, Cl. 260-242.
- Strobel, Charles K., and G. F. Conner, to Robertshaw-Fulton Controls Co. Temperature control devices. 2,868,928, 1-13-59, Cl. 200-140.
- Strobel, Herbert. Tool for cutting screw threads. 2,908,022, 10-13-59, Cl. 10-111.
- Stroble, Carl P.: *See*—  
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- Stroble, Reimann L.: *See*—  
Zunick, Michael J., and Stroble. 2,885,585.
- Stroburg, Clark E., and H. H. Henry. Mower end guard cleaner. 2,909,886, 10-27-59, Cl. 56-296.
- Strocco, Gene. Hinge constructions. 2,907,490, 10-6-59, Cl. 220-32.
- Strodtz, Norman H., to Continental Can Co., Inc. Polarographic method and apparatus for determining the weight of oxide films. 2,894,882, 7-14-59, Cl. 204-1.
- Stroebe, Alfred W.: *See*—  
Kebritz, Leonard M., and Strobel. 2,874,062.
- Stroh, George B., and W. H. Cowles, to Holley Carburetor Co. Engine fuel regulating system including automatic minimum flow adjustment. 2,879,643, 3-31-59, Cl. 60-39.28.
- Stroh, Rudolf: *See*—  
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- Stroh, Walter J., to Zenith Radio Corp. Television receiver. 2,891,106, 6-16-59, Cl. 178-7.3.
- Stroheim, Milretta R., to The C. W. Zumbiel Co. Cover retaining device. 2,878,931, 3-24-59, Cl. 206-65.
- Strohm, Oscar W. Reinforced cast brake drum and method of conditioning used brake drums. 2,897,925, 8-4-59, Cl. 188-218.
- Strohmeyer, William E.: *See*—  
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- Strole, William P.: *See*—  
Mathis, Clyde H., Strole, and Parker. 2,918,506.
- Strom, David W., to Hardinge Brothers, Inc. Compound slide rest. 2,897,578, 8-4-59, Cl. 29-1.
- Strom, Erik. Dental spotlight. 2,911,525, 11-3-59, Cl. 240-41.15.
- Strom, Kenneth G.: *See*—  
Hanson, Einar H., and Strom. 2,903,723.
- Ström, Nils R.: *See*—  
Bargholtz, Hubert F. S., Lindbergh, Schmechtig, and Ström. 2,912,043.
- Strom, Robert S.: *See*—  
Hellyer, John T. 2,899,140.
- Stromback, Du Ray E.: *See*—  
Deighton, William W., Du Gan, Markgraf, and Stromback. 2,914,759.
- Strombeck-Becker Mfg. Co.: *See*—  
Bergstrand, Harold A. 2,870,567.  
Bergstrand, Harold A. 2,870,568.  
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- Strombeck, Leo: *See*—  
Anderson, Swan F., and Strombeck. 2,918,769.
- Stromberg-Becker Mfg. Co.: *See*—  
Bergstrand, Harold A. 2,917,865.
- Stromberg, Henry K.,  $\frac{1}{2}$  to F. J. Glacy. Garden tool. 2,881,846, 4-14-59, Cl. 172-548.
- Stromberg, Ralph O. Automobile cooling system. 2,878,794, 3-24-59, Cl. 123-41.27.
- Stromberg Time Corp.: *See*—  
Hillyer, Curtis. 2,918,654.
- Stromberg, Verner L.: *See*—  
Hughes, William B., and Stromberg. 2,888,401.
- Stromberg, Verner L., to Petrolite Corp. Salicylaldehyde and vanillin Schiff base derivatives of certain aminoalkyl cyclic amidines. 2,888,458, 5-26-59, Cl. 260-240.
- Stromberg, Verner L., and A. H. Smith, to Petrolite Corp. Fuel oil composition. 2,917,376, 12-15-59, Cl. 44-63.
- Stromeyer, L., & Co. G.m.b.H.: *See*—  
Stromeyer, Peter. 2,881,718.
- Stromeyer, Peter, to L. Stromeyer & Co. G.m.b.H. Undulating tensioned roof construction. 2,881,718, 4-14-59, Cl. 108-1.
- Stromsoe, Douglas A.: *See*—  
Powell, Jonathan S., Jr., and Stromsoe. 2,901,146.
- Strong, Bernard, to E. Shipton & Co. Ltd. Method of and apparatus for the manufacture of lined containers. 2,898,972, 8-11-59, Cl. 154-1.
- Strong, Clinton S., to Technical Design and Development Co., Inc. Waste receptacle with automatic tamper. 2,887,040, 5-19-59, Cl. 100-265.
- Strong, Frank M., F. Skoog, and C. O. Miller, to Wisconsin Alumni Research Foundation. 6-(furfuryl)-aminopurine. 2,903,455, 9-8-59, Cl. 260-252.
- Strong, George R.: *See*—  
Sutton, Creel Y., and P. B. and R. Strong. 2,877,972.
- Strong, Joseph T.: *See*—  
Grant, David, and Strong. 2,913,005.
- Strong, Joy R. Floor scrubbing appliance. 2,893,037, 7-7-59, Cl. 15-180.
- Strong, Paul B.: *See*—  
Sutton, Creel Y., and P. B. and R. Strong. 2,877,972.
- Strong, Ralph A. Clothes support for use with ironing board. 2,880,532, 4-7-59, Cl. 38-141.
- Strong, Ricks: *See*—  
Sutton, Creel Y., and P. B. and R. Strong. 2,877,972.
- Strong, Thomas M., to International Business Machines Corp. Switching apparatus. 2,910,597, 10-27-59, Cl. 307-88.5.
- Strosche, Hermann K. J., to International Standard Electric Corp. Method of producing a selenium rectifier. 2,908,592, 10-13-59, Cl. 117-200.
- Strother, John A., W. J. Hanson, and D. A. Beytes, to Pitney-Bowes, Inc. Mail canceling device. 2,887,951, 5-26-59, Cl. 101-232.
- Stroud, Amy P.: *See*—  
Stroud, John I. and A. P. 2,914,326.
- Stroud, Clark B. Golf glove. 2,877,465, 3-17-59, Cl. 2-20.
- Stroud, Fay H.: *See*—  
Frank, Bernard E., Hazen, and Stroud. 2,885,914.
- Stroud, John I. and A. P. Exercise device for infants. 2,914,326, 11-24-59, Cl. 272-60.
- Stroup, Charles L., and A. C. Westrom, to Hubbard and Co. Current-interrupting apparatus. 2,910,560, 10-27-59, Cl. 200-114.
- Stroup, Earl L., to Overhead Door Corp. Locks for upwardly acting doors. 2,867,466, 1-6-59, Cl. 292-244.
- Stroup, Earl L., to Overhead Door Corp. Door control operator and limit switch mechanism. 2,867,697, 1-6-59, Cl. 200-47.
- Stroup, Earl L., to Overhead Door Corp. Upwardly acting doors having tracks inclined relative to the door frame. 2,871,932, 2-3-59, Cl. 160-40.
- Stroup, Earl L., to Overhead Door Corp. Upwardly acting door and combined hinge and roller spindle support therefor. 2,877,843, 3-17-59, Cl. 160-209.
- Stroup, Earl L., to Overhead Door Corp. Sectional door structure. 2,880,796, 4-7-59, Cl. 160-232.
- Stroup, Earl L., to Overhead Door Corp. Hinge and track engaging roller support for slidable closures. 2,883,697, 4-28-59, Cl. 16-97.
- Stroup, Earl L., to Overhead Door Corp. Upwardly acting sectional door and combined hinge and roller spindle supports therefor. 2,892,494, 6-30-59, Cl. 160-201.
- Stroup, Earl L., to Overhead Door Corp. Vertically movable sectional doors. 2,892,496, 6-30-59, Cl. 160-229.
- Stroup, Earl L., to Overhead Door Corp. Hinges and track engaging roller supports for slidable closures. 2,902,087, 9-1-59, Cl. 160-209.
- Stroup, Leslie G., to Raytheon Co. Magnetic amplifier electric motor control. 2,915,690, 12-1-59, Cl. 318-207.
- Strouse, Arthur F., to Strouse, Inc. Spray tube. 2,908,446, 10-13-59, Cl. 239-573.
- Strouse, Inc.: *See*—  
Strouse, Arthur F. 2,908,446.
- Strout, Basil A.: *See*—  
Bishop, Harold W., and Strout. 2,877,541.
- Strout, Raymond D.: *See*—  
Staples, Lynn W., and Strout. 2,875,818.
- Strozier, Henry H., to McGraw-Edison Co. Voltage divider for switching capacitors. 2,887,647, 5-19-59, Cl. 323-93.
- Strub, Henry M., Jr., to The Duplan Corp. Means for controlling wildness of yarn during delivery. 2,909,913, 10-27-59, Cl. 66-125.
- Strub, Robert D., to Amana Refrigeration, Inc. Vibration dampening mount for motor. 2,903,209, 9-8-59, Cl. 248-15.
- Strubel, Paul F.: *See*—  
Pistey, John M., and Strubel. 2,868,930.
- Struber, Franz. Pneumatic plant for removing broken ends on spinning or similar machines. 2,893,196, 7-7-59, Cl. 57-34.5.
- Struble, Glenn E.: *See*—  
Kramer, Joseph, and Struble. 2,916,196.
- Struble, Glenn E., to Diamond Gardner Corp. Double walled box. 2,870,951, 1-27-59, Cl. 229-34.
- Struble, Glenn E., to Diamond Gardner Corp. Cartons. 2,896,780, 7-28-59, Cl. 206-65.
- Struble, Glenn E., to Diamond Gardner Corp. Box. 2,896,830, 7-28-59, Cl. 229-52.
- Struble, Glenn E., to Diamond Gardner Corp. Carton. 2,903,177, 9-8-59, Cl. 229-34.
- Struble, W. R.: *See*—  
Witter, Melvin L. 2,884,000.
- Structural Clay Products Research Foundation: *See*—  
Edmonds, Harvey A., Evanson, and Gilbert. 2,918,161.  
Edmonds, Harvey A., and Gilbert. 2,868,349.  
Taylor, Robert B., and Johnson. 2,881,613.
- Structural Concrete Components Ltd.: *See*—  
Sainty, Christopher L. 2,892,341.
- Struhsar, John. Door check and closer. 2,881,467, 4-14-59, Cl. 16-66.



- Strull, Gene: *See*—  
 Losco, Ezekiel F., and Strull. 2,909,453.
- Strull, Gene, to Westinghouse Electric Corp. Processes for making transistors. 2,879,188, 3-24-59, Cl. 148-1.5.
- Strumwasser, Eric, to Hughes Aircraft Co. Dielectric support for ferrites in waveguide devices. 2,913,687, 11-17-59, Cl. 333-98.
- Strunk, Charles L. Writing guide for the blind. 2,913,836, 11-24-59, Cl. 35-38.
- Strunk, Leonard M. Vehicle steering mechanism. 2,886,118, 5-12-59, Cl. 180-6.26.
- Struthers Wells Corp.: *See*—  
 Penning, Douglas E. 2,904,015.  
 Svanoe, Hans. 2,892,682.  
 Svanoe, Hans. 2,897,053.
- Strutynski, Peter: *See*—  
 Lauterbach, William E., and Strutynski. 2,896,427.
- Struxness, Edward G., J. K. Johnson, K. Z. Morgan, and T. N. McVay, to United States of America, Atomic Energy Commission. Self sintering of radioactive wastes. 2,918,717, 12-29-59, Cl. 25-156.
- Strych, Henry A.: *See*—  
 Blust, Henry L., Strych, and Vivian. 2,902,149.
- Stryker, Norman R., to Bell Telephone Laboratories, Inc. Loudness transmission testing system. 2,870,272, 1-20-59, Cl. 179-175.1.
- Strzyzewski, Anton, and W. Geilenkirchen. Process for improving the adhesiveness of lacquers and printing colours on polyethylene products. 2,873,241, 2-10-59, Cl. 204-163.
- Stuard, Truman W. Garment hanger. 2,912,149, 11-10-59, Cl. 223-92.
- Stuart, Alfred A., and C. W. Benfield, to United States of America, Navy. Conductive-line curve reader. 2,883,653, 4-21-59, Cl. 340-345.
- Stuart, Allan, and H. Drachman. Adjustable sleeping garment. 2,905,944, 9-29-59, Cl. 2-83.
- Stuart, Archibald P.: *See*—  
 Jezl, James L., and Stuart. 2,880,251.  
 Schneider, Abraham, and Stuart. 2,885,355.
- Stuart, Archibald P., to Sun Oil Co. Olefin polymerization process. 2,914,515, 11-24-59, Cl. 260-88.2.
- Stuart, Clarence C., to Traffic Transport Engineering, Inc. Trailer for transporting two trucks. 2,878,052, 3-17-59, Cl. 296-1.
- Stuart, Clarence C., to Traffic Transport Engineering, Inc. Trailer for transporting vehicles. 2,892,656, 6-30-59, Cl. 296-1.
- Stuart, Donald C.: *See*—  
 Cone, Carroll, and Stuart. 2,916,276.
- Stuart, Duncan J. K.: *See*—  
 Weaving, John H., and Stuart. 2,869,397.
- Stuart, Frank A.: *See*—  
 Lowe, Warren, Stewart, and Stuart. 2,892,791.  
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 Stewart, William T., Stuart, and Lowe. 2,892,786.  
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 Stewart, William T., Stuart, Lowe, and Kavanagh. 2,892,819.  
 Stewart, William T., Stuart, Lowe, and Kavanagh. 2,892,820.  
 Stewart, William T., Wilgus, and Stuart. 2,892,793.
- Stuart, Frank A., W. T. Stewart, W. Lowe, and F. W. Kavanagh, to California Research Corp. Lubricant composition. 2,892,783, 6-30-59, Cl. 252-42.7.
- Stuart, Frank A., W. T. Stewart, and W. Lowe, to California Research Corp. Lubricant composition. 2,892,790, 6-30-59, Cl. 252-56.
- Stuart, Joseph, II: *See*—  
 Cochrane, John D., III, Ott, Staffin, and Stuart. 2,913,149.
- Stuart, Joseph, III, to General Motors Corp. Power plant control. 2,881,843, 4-14-59, Cl. 170-135.29.
- Stuart, Meredith R., to Brown Co. Apparatus for operating on work pieces. 2,873,628, 2-17-59, Cl. 77-21.
- Stuart, Murray H.: *See*—  
 Bredtschneider, Kurt B., Onak, and Stuart. 2,899,667.
- Stuart, Simon. Electrical lamp socket. 2,869,097, 1-13-59, Cl. 339-69.
- Stuart, Whitney A., and L. G. Huxtable, to United States of America, Army. Helmet with combined visor and ear-cheek shields. 2,866,978, 1-6-59, Cl. 2-6.
- Stuart, Whitney A., and L. G. Huxtable, to United States of America, Army. Helmet with combined neck and ear shield. 2,888,681, 6-2-59, Cl. 2-6.
- Stuart, Whitney A., and L. G. Huxtable, to United States of America, Army. Helmet with side shields. 2,889,555, 6-9-59, Cl. 2-6.
- Stuart, William R., to Eitel-McCullough, Inc. Electrode structure for electron. 2,901,657, 8-25-59, Cl. 313-257.
- Stuart-Williams, Raymond: *See*—  
 Alexander, Matthew A., and Stuart-Williams. 2,897,486.
- Stuart-Williams, Raymond, and M. Rosenberg, to Telemeter Magnetics, Inc. Magnetic memory device. 2,900,624, 8-18-59, Cl. 340-174.
- Stubbe, Ralph R., to Westinghouse Electric Corp. Automatically controlled bandwidth amplifier. 2,917,572, 12-15-59, Cl. 178-5.4.
- Stubbins, Daniel E.: *See*—  
 Lufkin, Paul M., and Stubbins. 2,872,615.
- Stubblefield, George E.: *See*—  
 Stanford, Clarence. 2,893,745.
- Stubblefield, James L. Device for dividing a single line of cartons into two lines. 2,873,836, 2-17-59, Cl. 193-36.
- Stubblefield, James L. Marking machine. 2,887,835, 5-26-59, Cl. 53-111.
- Stube, Fred F., to R. E. Dietz Co. Flasher warning lamps. 2,918,668, 12-22-59, Cl. 340-331.
- Stuber, Bernard K., to Dawson Carbide Industries. Automatic recessing device. 2,871,731, 2-3-59, Cl. 77-58.
- Stubnitz Greene Corp.: *See*—  
 Meyers, John S. 2,910,115.  
 Stubnitz, Maurice, and Stern. 2,871,922.  
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- Stubnitz-Greene Spring Corp.: *See*—  
 Davis, Harlan L. 2,880,787.  
 Slocum, Charles W. 2,874,344.  
 Stern, Lewis J., and Davis. 2,909,216.
- Stubnitz, Maurice, and L. J. Stern, to Stubnitz Greene Corp. Vehicle cushion construction. 2,871,922, 2-3-59, Cl. 155-179.
- Stubnitz, Maurice, and L. J. Stern, to Stubnitz Greene Corp. Spring structure. 2,871,923, 2-3-59, Cl. 155-179.
- Stuchbery, Arthur L., to The Metal Box Co. Ltd. Control devices for apparatus for applying coatings to metal sheets. 2,894,481, 7-14-59, Cl. 118-1.
- Stuck, Harold D., to John W. Bolton & Sons, Inc. Apparatus and method for disintegrating fibrous material. 2,911,334, 11-3-59, Cl. 162-17.
- Stucka, Edward P., to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,898,048, 8-4-59, Cl. 236-87.
- Stucker, Joseph B.: *See*—  
 Wolfram, George, and Stucker. 2,885,363.
- Stuckey, James M.: *See*—  
 Ridgway, John A., Jr., and Stuckey. 2,910,513.
- Stucki, Arthur C. Means for automatically selecting the highest or lowest pressure from a group of changing fluid pressures. 2,897,834, 8-4-59, Cl. 137-101.
- Stucki, Hans R., to Celanese Corp. of America. Voluminous yarn. 2,869,318, 1-20-59, Cl. 57-157.
- Stucky, Eric A., to Fabrique Juvenia, Petits-fils de Didsheim-Goldschmidt. Time indicating device for watches, clocks and the like. 2,886,942, 5-19-59, Cl. 58-126.
- Studebaker, Isaac R., to International Telephone and Telegraph Corp. Cathode-ray tube system. 2,913,623, 11-17-59, Cl. 315-24.
- Studebaker, John G.: *See*—  
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- Studebaker, John W. and J. G. Educational workbook. 2,877,567, 3-17-59, Cl. 35-9.
- Studebaker-Packard Corp.: *See*—  
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 De Lorean, John Z. 2,885,908.  
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 Fostey, James W. 2,914,298.  
 Hughson, Douglas, O'Brien, and Witzky. 2,914,056.  
 Kamins, Milton. 2,909,077.  
 McFarland, Forest R., and Lucia. 2,889,844.  
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 Nash, Edward L. 2,873,622.  
 Olmhausen, Charles R. 2,873,724.  
 Pringham, Henry E. J. 2,881,749.  
 Robinson, George W. 2,889,619.  
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- Studer, Frank J.: *See*—  
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- Studer, Lewis O.: *See*—  
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- Studiengesellschaft Kohle mit beschränkter Haftung: *See*—  
 Koch, Herbert, and Huiskens. 2,876,241.  
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- Studier, Martin H.: *See*—  
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- Studies, Aurele A., deceased, by C. B. Studies, executrix. Refacing machine. 2,911,765, 11-10-59, Cl. 51-123.
- Studies, Clara B.: *See*—  
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- Stuebbe, Friedrich K. H.: *See*—  
 Hoerth, Robert. 2,881,904.
- Stueber, Harry K. Thermal insulation system. 2,872,946, 2-10-59, Cl. 138-64.
- Stuehme, Werner, and S. Funke, to Kali-Chemie Akt. Carbamic acid ester of phenyl isopropyl carbinol. 2,878,158, 3-17-59, Cl. 167-52.
- Stuehmer, Werner, and S. Funke, to Kali-Chemie Akt. Phenyl acetonitrile compounds, and a process of making same. 2,897,229, 7-28-59, Cl. 260-465.
- Stuetzer, Otmar M., to United States of America, Air Force. Semiconductor amplifier. 2,918,628, 12-22-59, Cl. 330-39.
- Stuewer, Gerald D.: *See*—  
 Magin, Kenneth E., and Stuewer. 2,889,271.
- Stuewer, Reinhold F., to Grove Silk Co. Method of dulling nylon and like materials. 2,897,577, 8-4-59, Cl. 28-72.



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- Stuwer, Reinhold F., and J. Kalinowski, to Grove Silk Co. Method of preparing yarn and stretchable articles. 2,906,001, 9-29-59, Cl. 28—76.
- Stuhlmiller, Leon C.: *See*—  
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- Stuhre, Walter, to Philco Corp. Method of securing components to a printed wiring panel. 2,893,006, 7-7-59, Cl. 1—60.
- Stuhre, Walter, to Philco Corp. Apparatus for securing components to panels. 2,893,010, 7-7-59, Cl. 1—210.
- Stuiber, Walter, to Triumph Werke Nurnberg A.G. Adjusting device for spring-loaded key levers. 2,890,782, 6-16-59, Cl. 197—33.
- Stuiber, Walter, and R. Neidhardt, to Triumph Werke Nurnberg A.G. Type lever actuating mechanism. 2,905,296, 9-22-59, Cl. 197—17.
- Stuiber, Walter, and G. Scheinpflug, to Triumph Werke Nurnberg A.G. Repeat actuation mechanism for business machines. 2,905,297, 9-22-59, Cl. 197—17.
- Stukenborg, Louis C., 50 percent to H. V. Utterback. Spring-supported rearing toy horse. 2,903,262, 9-8-59, Cl. 272—52.
- Stulcken, H. C. Sohn: *See*—  
Köhnenkamp, Johann D., Sprengel, and Tietgen. 2,914,193.
- Stulen, Walter H., Jr., to Curtiss-Wright Corp. Extrusion die lubrication. 2,887,224, 5-19-59, Cl. 207—17.
- Stull, Morton B. Liquid dispensing device. 2,874,881, 2-24-59, Cl. 222—421.
- Stull, Keefer S., Jr., to Westinghouse Electric Corp. Wide band amplifier including bandwidth switching apparatus. 2,900,457, 8-18-59, Cl. 179—171.
- Stuiler, Walter H., and L. G. Burmeister, to Chain Belt Co. Automatic batch measuring and dispensing apparatuses. 2,880,890, 4-7-59, Cl. 214—2.
- Stultz, Posy G. and P. G. Stultz, Jr., to C. M. O'Boyle. Mechanical brake slack adjuster for railway car foundation brakes. 2,884,097, 4-28-59, Cl. 188—196.
- Stultz, Posy G., Jr.: *See*—  
Stultz, Posy G., and Posy G. Stultz, Jr. 2,884,097.
- Stultz, Samuel E. Separable and reversible snap fastener. 2,896,287, 7-28-59, Cl. 24—211.
- Stumbeck, Max J., to Engelhard Industries, Inc. Compound metal member. 2,888,742, 6-2-59, Cl. 29—195.
- Stumbough, Lutie J. Clean-out fitting. 2,911,235, 11-3-59, Cl. 285—93.
- Stummeyer, Herbert: *See*—  
Pohlemann, Heinz, Stummeyer, and Adolphi. 2,919,288.
- Stump, Eugen, to Daimler-Benz Akt. Internal combustion engine with fuel injection into the combustion chamber. 2,887,995, 5-26-59, Cl. 123—32.
- Stump, Eugen, to Daimler-Benz Akt. Steering mechanism for motor vehicles. 2,896,473, 7-28-59, Cl. 74—499.
- Stump, Eugen, to Daimler-Benz Akt. Laminated spring. 2,896,941, 7-28-59, Cl. 267—49.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Electric control device, particularly for motor vehicle transmissions. 2,898,773, 8-11-59, Cl. 74—336.5.
- Stump, Eugen, to Daimler-Benz Aktiengesellschaft. Cooling system for air-cooled internal combustion engines, and particularly automobile engines. 2,904,021, 9-15-59, Cl. 123—41.05.
- Stump, Eugen, and H. Siegel, to Daimler-Benz Akt. Steering gear. 2,870,650, 1-27-59, Cl. 74—499.
- Stump, Richard W. Push-button flush tank control. 2,879,522, 3-31-59, Cl. 4—67.
- Stumpf, Frank M., to United States Mineral Wool Co. Method of and apparatus for spraying lightweight fibrous and granular particles. 2,890,079, 6-9-59, Cl. 302—49.
- Stumpf, Louis F.: *See*—  
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- Stuntz, John W.: *See*—  
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- Stuntz, Ross M., Jr.: *See*—  
Pope, Samuel H., and Stuntz. 2,914,946.
- Stupian, Joe A., to Ordnance Specialties, Inc. Explosive cutter for parachute lines. 2,897,799, 8-4-59, Cl. 123—24.
- Sturdivant, Freddie H. Trailer breakaway control. 2,867,294, 1-6-59, Cl. 188—3.
- Sturgeon, Stocker S., and N. E. Handel, to The Foxboro Co. Electromagnetic flowmeter. 2,867,119, 1-6-59, Cl. 73—194.
- Sturges, Hiram A.: *See*—  
Biewald, Robert R. 2,868,308.
- Sturgis, Bernard L., to Otterfaft Products, Inc. Lawn edger. Re. 24,729, 10-27-59, Cl. 56—249.
- Sturgis, Bernard M.: *See*—  
Geller, Henry C., and Sturgis. 2,912,314.
- Sturgis Posture Chair Co.: *See*—  
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- Sturm, Coy E.: *See*—  
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- Sturm, Ralph E., and R. H. Morgan, to Bendix Aviation Corp. System for the translation of intelligence at low signal-to-noise ratios. 2,899,494, 8-11-59, Cl. 178—6.8.
- Sturm, Ruger and Co., Inc.: *See*—  
Ruger, William B. 2,898,693.
- Sturman, Robert E. Soap dispenser. 2,886,214, 5-12-59, Cl. 222—193.
- Sturmhoefel, Heinz. Stool and ladder combination. 2,918,108, 12-22-59, Cl. 155—42.
- Sturrock, Murray G., E. L. Cline, and K. R. Robinson, to Koppers Co., Inc. Ozonolysis of coal-tar products. 2,898,350, 8-4-59, Cl. 260—385.
- Sturup, Inc.: *See*—  
Fountain, Henry F., and Tancred. 2,870,336.
- Sturtevant, Michael J.: *See*—  
Smits, John M., and Sturtevant. 2,913,526.
- Sturtevant Mill Co.: *See*—  
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- Sturz, Bernard V.: *See*—  
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- Sturtz, Harry. Hypodermic syringe hand grip. 2,892,457, 6-30-59, Cl. 128—218.
- Sturzenegger, Alfred E., to Eaton Mfg. Co. Pole form for eddy-current clutches and the like. 2,908,833, 10-13-59, Cl. 310—105.
- Stutz, Karl, to Inventio A. G. Lift control device. 2,871,985, 2-3-59, Cl. 187—29.
- Stutz, Robert C., to Niagara Blower Co. Heat exchanger. 2,890,864, 6-16-59, Cl. 257—37.
- Stuyts, Andreas L., A. H. Hoekstra, G. H. Weber, and G. W. Rathenau, to North American Philips Co., Inc. Making anisotropic permanent magnets. 2,900,344, 8-18-59, Cl. 252—62.5.
- Stwerka, Richard. Ventilating window screen or the like. 2,918,120, 12-22-59, Cl. 160—88.
- Styers, Henry H. Litter bag and hanger therefor. 2,900,156, 8-18-59, Cl. 248—99.
- Styers, Henry H., to Poly-cut Corp. Bag forming and sealing machine. 2,909,969, 10-27-59, Cl. 93—8.
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- Styrene Products Ltd.: *See*—  
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- Suarez Grau, Julio F., to The A. C. Gilbert Co. Controller housing construction. 2,887,242, 5-19-59, Cl. 220—4.
- Suau, Edouard: *See*—  
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- Subart, William, deceased; C. Vidas, and J. D. McNamara, executors of the estate, to C. Vidas. Jordan. 2,900,141, 8-18-59, Cl. 241—155.
- Subbiondo, Joseph G.: *See*—  
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- Suben, Morten,  $\frac{1}{2}$  to M. Caplan. Collapsible tray table and frame assemblage. 2,873,155, 2-10-59, Cl. 311—18.
- Sublett, Ira, and C. D. Johnson, to Fairmont Railway Motors, Inc. Railway ballast digging apparatus. 2,911,734, 11-10-59, Cl. 37—104.
- Sublett, Robert L.: *See*—  
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- Sublette, Ivan H., A. D. Beard, L. S. Bensky, L. C. Hobbs, and S. M. Fillebrown, to Radio Corp. of America. Information handling device. 2,877,446, 3-10-59, Cl. 340—173.
- Submarine Cables, Ltd.: *See*—  
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- Meyers, Arthur L. 2,894,057.
- Submerged Combustion Co. of America, Inc.: *See*—  
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- Suburban Toy & Mfg. Corp.: *See*—  
Falcon, Donald W. 2,889,449.
- Succop, Anna L. Motor and pump combination. 2,880,676, 4-7-59, Cl. 103—118.
- Sucher, Jerome. Color television tube with polarizing filter. 2,907,917, 10-6-59, Cl. 15—21.
- Suchocki, John J.: *See*—  
Bowe, George R., Schutz, and Suchocki. 2,908,598.
- Suchow, Lawrence, to Francis Earle Laboratories, Inc. Nacreous molybdenum and tungsten oxides. 2,875,074, 2-24-59, Cl. 106—47.
- Suchow, Lawrence, to Francis Earle Laboratories, Inc. Nacreous graphite pigment. 2,875,076, 2-24-59, Cl. 106—148.
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- Nickel, Horst, and Suckfüll. 2,919,269.
- Suckfull, Fritz, R. Putter, and H. Nickel, to Farbenfabriken Bayer Akt. Metal containing polyazo dyestuffs. 2,891,047, 6-16-59, Cl. 260—145.
- Sucro, Jost S.: *See*—  
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- Sucro-Mel Sociedad Anonima: *See*—  
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- Suda, Stanley: *See*—  
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- Hauck, Edwin J., and Suda. 2,867,195.
- Suda, Teruo: *See*—  
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- Sudbury, John D.: *See*—  
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- Suderow, George E.: See—  
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- Suderow, George E., to United States of America, Army. Releasable pivoted clamp for joining internally hinged structural members. 2,868,565, 1-13-59, Cl. 285-308.
- Suderow, George E., to De Long Corp. Gripper and jack assembly for platforms and supporting columns. 2,870,639, 1-27-59, Cl. 74-162.
- Suderow, George E., to De Long Corp. Releasable gripper and locking assembly for land and marine supporting columns. 2,873,580, 2-17-59, Cl. 61-46.5.
- Suderow, George E., to De Long Corp. Supporting leg assembly for marine platform. 2,908,142, 10-13-59, Cl. 61-46.5.
- Suderow, George E., to De Long Corp. Off-shore working assembly. 2,909,900, 10-27-59, Cl. 61-46.5.
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- Sue Ann Food Products Corp.: See—  
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- Suen, Tzeng J.: See—  
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Russell, William N., and Suen. 2,878,237.
- Suen, Tzeng J., and W. N. Russell, to American Cyanamid Co. Tripolymer and starch clay adhesive composition containing same. 2,893,977, 7-7-59, Cl. 260-17.4.
- Suen, Tzeng J., and Y. Jen, to American Cyanamid Co. Resinous compositions. 2,900,367, 8-18-59, Cl. 260-67.6.
- Suen, Tzeng J., and R. L. Webb, to American Cyanamid Co. Aqueous polymerization process using amino acid chelating agent and product. 2,917,477, 12-15-59, Cl. 260-29.6.
- Suendermann, Otto A., and H. J. Sogn. Flexible pipe coupling means comprising a compression seal component. 2,913,264, 11-17-59, Cl. 285-342.
- Suenram, Wayne C. Cable handling clamp. 2,900,690, 8-25-59, Cl. 24-134.
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- Suesserott, Charles F., to General Electric Co. Multiple pilot control for burner systems. 2,889,872, 6-9-59, Cl. 158-131.
- Suga, Arthur M., to Simonds Abrasive Co. Abrasive article. 2,897,076, 7-28-59, Cl. 51-307.
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- Sugarman, Meyer L., Jr., to Radio Corp. of America. Electrostatic printing. 2,914,403, 11-24-59, Cl. 96-1.
- Sugarman, Meyer L., Jr., to Eastman Kodak Co. Preparation of surfaces for receiving lead sulfide coatings. 2,917,403, 12-15-59, Cl. 117-34.
- Sugawara, Shinichi: See—  
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- Sugden, Clifford N., to Manning, Maxwell & Moore, Inc. Instrument dial. 2,880,692, 4-7-59, Cl. 116-129.
- Sugg, George M. Pivoting davit. 2,888,152, 5-26-59, Cl. 214-1.
- Suggs, Thomas F., to Cocker Machine & Foundry Co. Measuring and recording mechanism. 2,877,082, 3-10-59, Cl. 346-123.
- Sugi, Masao: See—  
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- Suhl, Harry: See—  
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- Suhl, Harry, to Bell Telephone Laboratories, Inc. Ferrite microwave devices for use at high signal energy levels. 2,883,629, 4-21-59, Cl. 333-24.
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- Suif, Fernand A. Portable typewriter. 2,917,150, 12-15-59, Cl. 197-22.
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- Suko, Ray, and L. Wolf. Land-clearing apparatus. 2,918,980, 12-29-59, Cl. 172-29.
- Sukovich, Andrew E.: See—  
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- Sukul, Deva R. Room service indicator. 2,902,784, 9-8-59, Cl. 40-61.
- Sulger, Harold E., to Porto Holding Corp. Induction motors. 2,901,645, 8-25-59, Cl. 310-166.
- Sullinger, Francis E., to Joy Mfg. Co. Hydraulic equalizing connections. 2,910,191, 10-27-59, Cl. 213-75.
- Sullivan, Cornelius J.: See—  
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- Sullivan, Donald L. Automatic feeder for verterbrata. 2,869,638, 1-20-59, Cl. 161-10.
- Sullivan, Frank, and Co.: See—  
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- Sullivan, Frank A. V.: See—  
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- Sullivan, Frank A. V., and S. A. J. Westerback, to American Cyanamid Co. Preparation of thioamides. 2,875,202, 2-24-59, Cl. 260-247.1.
- Sullivan, Frank A. V., to American Cyanamid Co. Rubber vulcanization with substituted tetramethylene thiurams and dithiocarbamates. 2,879,262, 3-24-59, Cl. 260-79.5.
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- Sullivan, Frederick W., Jr. Process for the treatment of acid sludge. 2,906,674, 9-29-59, Cl. 202-14.
- Sullivan, George C. Method of manufacturing gun barrels. 2,901,814, 9-1-59, Cl. 29-1.1.
- Sullivan, Harold R., and C. A. Neptune, Jr., to The Shelby Spring Hinge Co. Door closer. 2,908,050, 10-13-59, Cl. 20-16.
- Sullivan, Henry F., to Frank Sullivan and Co. Leaf hinging mechanism for tables. 2,907,616, 10-6-59, Cl. 311-60.
- Sullivan, James C., and M. H. Studier, to United States of America, Atomic Energy Commission. Cation exchange method for the recovery of protactinium. 2,894,807, 7-14-59, Cl. 23-14.5.
- Sullivan, James F. Carpet reeling apparatus. 2,868,469, 1-13-59, Cl. 242-55.
- Sullivan, James F., to American Machine & Foundry Co. Illuminated display device. 2,880,536, 4-7-59, Cl. 40-130.
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- Sullivan, John F., and G. W. Reich, Jr., to International Telephone and Telegraph Corp. Synchronized data processing system. 2,912,585, 11-10-59, Cl. 250-27.
- Sullivan, John J. Structure providing for vertically arranged parking areas. 2,908,946, 10-20-59, Cl. 20-1.13.
- Sullivan, Marie-Jo: See—  
Elslager, Edward F., and Sullivan. 2,902,403.
- Sullivan, Mary A.: See—  
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- Sullivan, Michael V., to Bell Telephone Laboratories, Inc. Burst separator for color television. 2,901,532, 8-25-59, Cl. 178-5.4.
- Sullivan, Miles V.: See—  
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- Sullivan, Miles V. Toy top. 2,906,057, 9-29-59, Cl. 46-64.
- Sullivan, Norman M., to The Alvey-Ferguson Co. Antifriction-type conveyor rail for article storage racks. 2,889,907, 6-9-59, Cl. 193-35.
- Sullivan, Robert C.: See—  
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- Sullivan, Robert E.: See—  
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- Sullivan, Robert E., and W. T. Gregory, to Dow Corning Corp. Antifoam emulsion. 2,894,913, 7-14-59, Cl. 252-358.
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- Sullivan, Timothy J., to Sullivan Valve and Engineering Co. Temperature and pressure responsive electric switch. 2,871,317, 1-27-59, Cl. 200-140.
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- Sullivan, Walter P. Cover for shopping carts. 2,917,094, 12-15-59, Cl. 150-52.
- Sullivan, William R., P. J. Cleary, and D. B. Love, to Armour and Co. Steak making process. 2,917,388, 12-15-59, Cl. 99-107.
- Sulmonetti, William B. Surgical traction apparatus for hospital beds. 2,875,753, 3-3-59, Cl. 128-84.
- Sulmonetti, William B. Locking swivel type clamp assembly. 2,876,027, 3-3-59, Cl. 287-54.
- Sulphates Ltd.: See—  
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- Sulzer, Fred. Aluminum smoking pipe. 2,884,931, 5-5-59, Cl. 131-220.
- Sulzer Freres, Societe Anonyme: See—  
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- Engel, Walter. 2,879,750.  
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- Sulzer, Peter G., to United States of America, Commerce. Frequency-stabilized oscillator. 2,871,356, 1-27-59, Cl. 250—36.
- Suman, Robert W.: *See*—  
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- Sumitomo Electric Industries, Ltd.: *See*—  
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- Summerer, Raymond E., to General Motors Corp. Igniter plug. 2,874,321, 2-17-59, Cl. 313—130.
- Summerer, William H., to Admiral Corp. Television tube support. 2,900,630, 8-18-59, Cl. 340—367.
- Summerhayes, Harry R., Jr., to General Electric Co. Steel mill optical width gage. 2,868,059, 1-13-59, Cl. 88—14.
- Summerhayes, Harry R., Jr., to General Electric Co. Apparatus for determining frequency. 2,888,643, 5-26-59, Cl. 324—82.
- Summers, Claude R., Jr., to Gulf Oil Corp. Polymerization of olefins and reactor therefor. 2,892,002, 6-23-59, Cl. 260—683.15.
- Summers, Erwin R., to General Electric Co. Insulated journal sleeve and thrust plate for guide and thrust bearings. 2,881,034, 4-7-59, Cl. 308—160.
- Summers, Gerald C.: *See*—  
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- Summers, Gerald C., and W. Grayley, to Socony Mobil Oil Co., Inc. Exploring unit for acoustical well logging. 2,897,478, 7-28-59, Cl. 340—18.
- Summers Gyroscope Co.: *See*—  
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- Summers, Hugh L.: *See*—  
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- Summers, J. Mills, and J. R. Newcomer, Jr., to Camloc Fastener Corp. Fastener. 2,878,542, 3-24-59, Cl. 24—221.
- Summers, J. Mills, and J. R. Newcomer, Jr., to Camloc Fastener Corp. Stressed panel fastener. 2,881,499, 4-14-59, Cl. 24—221.
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- Summers, James J., to Mine Safety Appliances Co. Loose coupling for tubular members. 2,906,549, 9-29-59, Cl. 285—140.
- Summers, Thomas O., Jr., to The Garrett Corp. Common oxygen supply for engine and cabin of high altitude aircraft. 2,877,966, 3-17-59, Cl. 244—59.
- Summers, William J., and H. P. Hasell, to Westinghouse Electric Corp. Contact pulley assembly for wire plating apparatus. 2,882,214, 4-14-59, Cl. 204—279.
- Summers-Smith, James D.: *See*—  
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- Summit Container Co.: *See*—  
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- Summit Mfg. Co., Division of Ace Tool Engineering Co., Inc. *See*—  
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- Sumner, Arthur H. Shell construction and method of making the same. 2,905,579, 9-22-59, Cl. 154—116.
- Sumner, Eric E., to Bell Telephone Laboratories, Inc. Monostable transistor circuit. 2,876,367, 3-3-59, Cl. 307—88.5.
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- Sumners, Lumus L., 45% to W. R. Thompson, Jr., and 10% to W. G. Teal. Traffic control apparatus for a closed area. 2,917,283, 12-15-59, Cl. 256—1.
- Sump, Cord H., and C. E. Swartz, to Armour Research Foundation of Illinois Institute of Technology. Bearing composition. 2,888,739, 6-2-59, Cl. 29—182.5.
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- Boyle, Francis A. 2,908,641.  
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 Mertes, Thomas S. 2,872,249.  
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- Sun Rubber Co., The: *See*—  
 Bailey, Harold G. 2,879,545.  
 Rekettye, Paul. 2,893,057.  
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- Sun Tool & Machine Co., The: *See*—  
 Reaser, Warren E. 2,906,065.  
 Reaser, Warren E., and Temple. 2,883,800.
- Sun, Yung Ho: *See*—  
 Adams, Cecil E., Eschliman, and Sun. 2,878,753.
- Sunbeam Corp.: *See*—  
 Graham, Bernard A. 2,888,899.  
 Jepson, Ivar. 2,871,587.  
 Jepson, Ivar. 2,878,940.  
 Jepson, Ivar. 2,881,299.  
 Jepson, Ivar. 2,886,934.  
 Jepson, Ivar. 2,893,174.  
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 Jepson, Ivar. 2,909,085.  
 Jepson, Ivar. 2,914,255.  
 Jepson, Ivar, and Koci. 2,903,552.  
 Jepson, Ivar, and Veceli. 2,906,043.  
 Koci, Ludvik J. 2,886,910.  
 Koci, Ludvik J. 2,899,888.  
 Neumeyer, Martin J. 2,873,173.
- Sunbeam Lighting Co.: *See*—  
 Barr, George A. 2,890,011.
- Sunbom, Chester A.: *See*—  
 Valentyne, Peter H., and Sunbom. 2,902,950.
- Sund, Fred. Flexible fin draper. 2,874,824, 2-24-59, Cl. 198-203.
- Sundahl, Harold J. Pipe hanger. 2,905,415, 9-22-59, Cl. 248-54.
- Sundback, Gideon, to Talon, Inc. Slide actuated closure. 2,867,878, 1-13-59, Cl. 24-205.
- Sundbeck, Bertil: *See*—  
 Hanell, Erik S., and Sundbeck. 2,904,591.
- Sundberg, Bengt O. Check-out counters for self-service-stores. 2,893,517, 7-7-59, Cl. 186-1.
- Sundberg, Erik G., to Aktiebolaget Tudor. Cover for electrodes in galvanic cells. 2,896,006, 7-21-59, Cl. 136-43.
- Sundberg, Erik G., and B. Y. R. Gartvall, to Aktiebolaget Tudor. Micro-porous rubber separator for galvanic cells such as accumulators and method of manufacturing such separator. 2,913,512, 11-17-59, Cl. 136-145.
- Sundberg, Robert L.: *See*—  
 Chiddix, Max E., Maxcy, and Sundberg. 2,901,430.
- Sundberg, Sven A., to Allmänna Brandredskapsaffären AB. Hose clamps. 2,899,733, 8-18-59, Cl. 24-279.
- Sundell, Harold C., to F. J. Curran. Leveling device for furniture and the like. 2,871,616, 2-3-59, Cl. 45-139.
- Sunden, Karl H. Firing pin mechanism for hand grenades. 2,911,913, 11-10-59, Cl. 102-64.
- Sünder, Jakob, to Adrian & Busch. Starting mechanism for heel seat lasting machines. 2,883,010, 4-21-59, Cl. 188-85.
- Sunderlin, Joseph E., to Westinghouse Electric Corp. Magnetic pulse doubling circuit. 2,883,563, 4-21-59, Cl. 307-106.
- Sunderman, Frederick W., and B. West. Dithiocarbamates for treatment of nickel poisoning. 2,876,159, 3-3-59, Cl. 167-85.
- Sundholm, Edwin P. Grease gun. 2,915,226, 12-1-59, Cl. 222-340.
- Sundholm, Norman K., to United States Rubber Co. Manufacture of N-alkyl- and N-cycloalkylbis(2-benzothiazolesulfen)amides. 2,873,277, 2-10-59, Cl. 260-306.6.
- Sundholm, Norman K., to United States Rubber Co. Manufacture of N-alkyl- and N-cycloalkylbis(2-benzothiazolesulfen) amides. 2,889,331, 6-2-59, Cl. 260-306.6.
- Sundin, Anders E., to Hydrauliska Industri Aktiebolaget. Hydraulic jack. 2,895,622, 7-21-59, Cl. 212-35.
- Sundin, George H., to United States Steel Corp. Unloading mechanism for belt conveyors. 2,902,143, 9-1-59, Cl. 198-187.
- Sundquist, Arvid M., to Reliance Tool & Die Works. Archery bowsight. 2,893,124, 7-7-59, Cl. 33-46.
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 Lefler, Nils G. 2,891,589.
- Sundstrand Corp.: *See*—  
 Earl, Howard E., and Hilgers. 2,918,761.  
 Hann, Melvin M. 2,916,880.  
 Swanson, Fred R., and Erikson. 2,917,977.  
 Swanson, Fred R., and Erikson. 2,918,850.
- Sundstrand Machine Tool Co.: *See*—  
 Anderson, Axel. 2,914,292.  
 Anderson, Axel and E. 2,882,458.  
 Baits, Stephen S. 2,871,981.  
 Berggren, Carl A. 2,903,902.  
 Carlsson, Floyd E. 2,869,567.  
 Erikson, Evans W. 2,900,527.  
 Erikson, Robert W. 2,892,413.  
 Erikson, Robert W., and Kiefer. 2,915,015.  
 Gomborg, Edward N. 2,915,349.  
 Granberg, Bengt R., and Anderson. 2,877,677.  
 Granberg, Bengt R., Johnson, and Anderson. 2,913,945.  
 Hann, Melvin M. 2,888,810.  
 Lundgren, Bruce H., and Hann. 2,896,546.  
 Monosmith, Leroy B. 2,877,536.  
 Mosbacher, Bruce H. 2,914,889.  
 Sadler, Carl L., Eisengrein, and Hermanson. 2,885,566.  
 Sangster, Arlon G. 2,876,650.  
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- Sunstrand Machine Tool Co.: *See*—Continued  
 Straznickas, Donald A. 2,890,877.  
 Swanson, Walter S., Wiley, and McGee. 2,877,676.  
 Teumer, Kenneth A. 2,888,806.  
 Teumer, Kenneth A. 2,915,076.
- Sundstrom, Harold C. Machine for removing hardened paint. 2,918,685, 12-29-59, Cl. 15-4.
- Sundström, Karl E.: *See*—  
 Akerman, Karl A. L., and Sundström. 2,868,060.
- Sundstrom, Per W., to R. Holmdahl. Apparatus for drawing projections. 2,908,078, 10-13-59, Cl. 33-18.
- Sundstrom, Savin L., to The Bastian-Blessing Co. Packed coupling with deformable rings for relative orientation of the members. 2,893,756, 7-7-59, Cl. 285-18.
- Sundt, Edward V. Speed reducer. 2,874,594, 2-24-59, Cl. 74-805.
- Sundt, Edward V. Speed reducer for motors. 2,908,191, 10-13-59, Cl. 74-804.
- Sundt, Edward V. Artist's canvas. 2,911,747, 11-10-59, Cl. 41-4.
- Sundt, Edward V. Protecting system for meters or the like. 2,919,407, 12-29-59, Cl. 324-110.
- Sundt, Vigo von K., to Gisholt Machine Co. Machine tool headstock control mechanism. 2,902,873, 9-8-59, Cl. 74-364.
- Sundt, Vigo von K., to Gisholt Machine Co. Speed control mechanism. 2,902,874, 9-8-59, Cl. 74-364.
- Sundt, Vigo von K., and H. Steinhauer, to Gisholt Machine Co. Timed valve with cam actuator. 2,903,234, 9-8-59, Cl. 251-36.
- Sung, Chien-Bor, to Bendix Aviation Corp. Linear fluid actuator utilizing vanes. 2,900,961, 8-25-59, Cl. 121-38.
- Sunich, Albert R., ½ to T. C. Jones. Reducing table. 2,878,805, 3-24-59, Cl. 128-33.
- Sunkist Growers, Inc.: *See*—  
 Bryant, Edwin F. 2,871,236.
- Wilson, Clarence W. 2,916,500.
- Sunnen, Joseph. Automotive valve tool. 2,870,528, 1-27-59, Cl. 29-219.
- Sunnen, Joseph. Automotive wrist pin tool. 2,887,768, 5-26-59, Cl. 29-283.
- Sunroc Corp.: *See*—  
 Sorensen, Egon. 2,867,328.  
 Sorensen, Egon, Gott, and Hayes. 2,914,252.
- Sunrod Mfg. Corp.: *See*—  
 Olsson, Sven M. J., and Martinson. 2,911,455.
- Sunstein, David E. Index signal generating means. 2,892,123, 6-23-59, Cl. 315-22.
- Sunstein, David E., to Philco Corp. Bandwidth compression system. 2,897,490, 7-28-59, Cl. 343-17.1.
- Sunstein, David E., to Philco Corp. Ignition system. 2,901,670, 8-25-59, Cl. 315-200.
- Sunstein, David E., to Philco Corp. Color identification in radar systems. 2,901,747, 8-25-59, Cl. 343-17.
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 Ashe, Thomas S., and Linton. 2,906,839.  
 Liebmman, Gerhard. 2,884,193.
- Suomi, Verner E., and O. C. Winzen, to Winzen Research, Inc. Balloon structure and method of launching the same. 2,919,083, 12-29-59, Cl. 244-31.
- Suorsa, Arvo. Artificial minnow. 2,907,132, 10-6-59, Cl. 43-42.51.
- Suoizzi, Joseph J.: *See*—  
 Hooper, Edward T., Jr., and Suozzi. 2,868,877.
- Suozzo, Leonard S., to Bergen Pipesupport Corp. Combined spring hanger and shock absorber. 2,873,078, 2-10-59, Cl. 248-54.
- Suozzo, Leonard S., to Bergen Pipesupport Corp. Constant support device. 2,903,213, 9-8-59, Cl. 248-54.
- Suozzo, Leonard S., to Bergen Pipesupport Corp. Sway brace for piping. 2,908,491, 10-13-59, Cl. 267-1.
- Supaslot Angle Co. (G. B.) Ltd., The: *See*—  
 Sanders, William G. 2,906,380.
- Super-Cut, Inc.: *See*—  
 Metzger, Leopold H. 2,867,063.  
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 Miller, Harold C. 2,890,694.  
 Miller, Harold C. 2,896,477.  
 Miller, Harold C. 2,904,688.  
 Miller, Harold C. 2,912,971.
- Superdisplay, Inc.: *See*—  
 Fitzgerald, Harold J. 2,883,252.
- Super-Grip Anchor Bolt Co., Inc.: *See*—  
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- Super Laundry Machinery Co.: *See*—  
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- Super Mold Corp. of California: *See*—  
 Duerksen, Arnold. 2,902,717.  
 Eriksen, Merrill K., and Roesch. 2,908,939.  
 McDonald, Earl. 2,916,772.
- Super Oil Seal Mfg. Co., Ltd.: *See*—  
 Rogers, George S. 2,888,279.
- Super Sagless Spring Corp.: *See*—  
 Bank, Albert M., and Katz. 2,884,990.  
 Katz, Alex J. 2,886,097.  
 Katz, Alex J. 2,907,373.
- Super-Steel Products Co.: *See*—  
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- Super Whip Valve Co.: *See*—  
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- Superior Concrete Accessories, Inc.: *See*—  
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- Superior Displays, Inc.: *See*—  
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- Superior Electric Co., The: *See*—  
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Burski, Leonard J. G. 2,910,610.  
Carpenter, William P. 2,910,625.  
Laurie, William H. 2,896,179.  
May, Joseph C. 2,896,153.  
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McCabe, Owen J. 2,882,450.  
Perrins, Allen R. 2,896,156.
- Superior Industries, Inc.: *See*—  
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- Superior Mfg. Co.: *See*—  
Neidig, Dan. 2,914,215.
- Superior Oil Co., The: *See*—  
Bauer, Robert F., McNeill, and Ledbetter. 2,909,359.  
Bauer, Robert F., and Stratton. 2,891,770.  
Zaskey, Arthur F. 2,881,590.
- Superior Products Co.: *See*—  
Birkett, Keith H. 2,897,151.  
Wilcox, John F. 2,909,044.
- Superior Rubber Mfg. Co.: *See*—  
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Wood, Charles J. 2,910,098.
- Superior Separator Co.: *See*—  
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MacGillivray, Robert K. 2,915,180.
- Superior Sewing Machine & Supply Corp.: *See*—  
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- Superior Sleeprite Corp.: *See*—  
Balonick, Samuel A. 2,871,490.
- Superior Steel & Malleable Castings Co.: *See*—  
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- Superior Switchboard & Devices Co., The: *See*—  
Moore, Craig M. Re. 2,74,705.  
Rutledge, Hal M., and Moore. 2,907,928.
- Superior Tabbies, Inc.: *See*—  
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- Superior Tube Co.: *See*—  
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- Supper, Henry L. Calendar device. 2,900,749, 8-25-59, Cl. 40-114.
- Supreme Photo Products, Inc.: *See*—  
Swinerton, Gerald. 2,880,647.
- Supreme Products Corp.: *See*—  
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Kohner, Melvin, and Wright. 2,900,719.  
Ondeck, Elmer J. 2,893,743.  
Ondeck, Elmer J. 2,910,302.  
Ondeck, Elmer J. 2,916,117.
- Supurdisplay, Inc.: *See*—  
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- Suran, Jerome J.: *See*—  
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- Suran, Jerome J., to General Electric Co. Waveform compensation networks. 2,876,355, 3-3-59, Cl. 250-36.
- Suran, Jerome J., to General Electric Co. Semiconductor wave filter. 2,913,541, 11-17-59, Cl. 179-171.
- Sureau, Robert F. M.: *See*—  
Petticolas, Pierre, Richard, Sureau, Roe, and Develotte. 2,893,817.
- Surface Combustion Corp.: *See*—  
Bergmann, Richard L. 2,882,735.  
Cone, Carroll. 2,873,862.
- Cone, Carroll, and Stuart. 2,916,276.
- Cullen, Orville E. 2,900,990.
- Dailey, William H., Jr., and Woolcott. 2,883,175.
- De Coriolis, Ernest G. 2,898,099.
- De Coriolis, Ernest G., Hanna, and Peters. 2,893,237.
- Hannum, Clair T., and Schramm. 2,898,101.
- Hill, Joseph F., Whitcomb, and Van Horn. 2,893,097.
- Kelley, Gilbert A. 2,881,853.
- Kelley, Gilbert A. 2,894,376.
- Kelley, Gilbert A., Rahm, and Thompson. 2,876,833.
- Knight, Philip L. 2,873,798.
- Knight, Philip L. 2,876,831.
- Loughry, Theodore F., and Escott. 2,867,512.
- Manor, Paul A. 2,881,687.
- Munford, Theodore W. 2,883,171.
- Peters, Arthur W. 2,876,832.
- Radlinski, Harry F., and Conover. 2,916,278.
- Sanzenbacher, Charles W., and Huebner. 2,897,158.
- Schramm, Henry W., Tollefsrud, and Parkes. 2,917,297.
- Surgenor, Douglas M.: *See*—  
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- Surgenor, David H., to The Rheostatic Co. Ltd. Magnetic snap action switches. 2,871,316, 1-27-59, Cl. 200-138.
- Surine, William R.: *See*—  
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- Suring, Alphonse: *See*—  
Durant, Leonard G., Irvine, Pennington, and Suring. 2,910,398.
- Surino, Alphonse, to Pandia Inc. Digesting apparatus discharge valve assembly. 2,882,967, 4-21-59, Cl. 162-246.
- Surmatis, Joseph D., to Hoffmann-La Roche Inc. 6,10,12-trimethyl-5,9-tridecadien-2-one. 2,870,210, 1-20-59, Cl. 260-593.
- Surprise, Floyd H., and L. R. Redden. Rotating ground working implement or cultivator. 2,908,337, 10-13-59, Cl. 172-549.
- Surratt, Reather C. Power tiller for orchards. 2,868,305, 1-13-59, Cl. 172-47.
- Surrey, Alexander R., to Sterling Drug Inc. N-aralkyl-N-(acyloxyalkyl)-2,2-dihaloalkanamides and their preparation. 2,874,182, 2-17-59, Cl. 260-477.
- Surrey, Alexander R., to Sterling Drug Inc. N-(2-carbamylalkyl)-aralkylamines. 2,886,594, 5-12-59, Cl. 260-558.
- Surtees, Howard, to Fairey Aviation Co. Ltd. Feed back control servosystems. 2,880,384, 3-31-59, Cl. 318-448.
- Süs, Oskar: *See*—  
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- Süs, Oskar, and G. Werner, to Azoplate Corp. Lithoplate from diazonium-diazo-sulfonates. 2,890,115, 6-9-59, Cl. 96-33.
- Susikari, William V. H. Gangway for ships. 2,886,228, 5-12-59, Cl. 228-48.
- Sussenguth, Otto: *See*—  
Hentschel, Herbert, and Sussenguth. 2,880,195.
- Sussex, Richard N., to General Motors Corp. Windshield wiper blade assembly. 2,888,702, 6-2-59, Cl. 15-245.
- Sussman, Harry, to United States of America, Navy. Acoustic panel. 2,884,084, 4-28-59, Cl. 181-5.
- Sutcliffe, Noel H.: *See*—  
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- Suter, George D., to United States of America, Army. Low tension spark plugs. 2,910,606, 10-27-59, Cl. 313-131.
- Suter, Hans, and W. Kündig, to Eprova Ltd. New quaternary ammonium compounds and process for the production thereof. 2,913,459, 11-17-59, Cl. 260-247.7.
- Suter, Hans A., and S. D. Cooley, to Celanese Corp. of America. Epoxidation. 2,903,465, 9-8-59, Cl. 260-348.5.
- Suter, Hubert: *See*—  
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- Sutheim, George M.: *See*—  
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- Sutherland, Clifford O. Spinning top game apparatus. 2,879,066, 3-24-59, Cl. 273-147.
- Sutherland, Clifford O. Game apparatus. 2,901,255, 8-25-59, Cl. 273-135.
- Sutherland, Hunt: *See*—  
Gersumky, William D., and Sutherland. 2,878,290.
- Sutherland, Leslie H.: *See*—  
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Rolland, Calvin C., and Sutherland. 2,907,802.  
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- Sutherland Paper Co.: *See*—  
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- Sutherland, Robert E.: *See*—  
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- Sutherland, Robert E., to Universal Oil Products Co. Upgrading gasoline. 2,905,619, 9-22-59, Cl. 208-64.
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- Sutliff, Clyde G. Screen printing apparatus. 2,892,398, 6-30-59, Cl. 101-116.
- Sutliff, Wayne N. Jar bumper sub. 2,875,983, 3-3-59, Cl. 255-27.
- Sutcliffe, Miles B. Cap for tooth paste closure. 2,903,168, 9-8-59, Cl. 222-553.
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- Sutor, Walter L., to E. I. du Pont de Nemours and Co. Apparatus for melt spinning filaments which will coalesce. 2,891,277, 6-23-59, Cl. 18-8.
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- Sutowski, Walter S. Bearing structure. 2,897,027, 7-28-59, Cl. 308-238.
- Sutphen, Robert M.: *See*—  
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- Sutro, Paul: *See*—  
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- Sutter, Alexander. Postage stamp-examining appliance. 2,881,656, 4-14-59, Cl. 88-14.
- Sutter, Frederic E.: *See*—  
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- Sutter Products Co.: *See*—  
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- Sutter, Raymond H., to Sutter Products Co. Method of and apparatus for making resin bonded sand shell molds and cores. 2,867,017, 1-6-59, Cl. 22-10.
- Suttle, Andrew D., Jr.: *See*—  
Schutz, Henry G., and Suttle. 2,914,452.
- Suttle, Ward C., to Bendix Aviation Corp. Fuel injection system. 2,897,808, 8-4-59, Cl. 123-140.
- Suttle, Ward C., to Bendix Aviation Corp. Fuel supply system. 2,910,057, 10-27-59, Cl. 123-140.



- Sutton, Clement E., Jr., to General Electric Co. Bushing terminal and line lead guard. 2,875,267, 2-24-59, Cl. 174-139.
- Sutton, Creel Y., and P. B. and R. Strong: said Sutton assor. to G. R. Strong. Picture hanger. 2,877,972, 3-17-59, Cl. 248-32.
- Sutton, Dozier A., Geometrical instruments. 2,867,042, 1-6-59, Cl. 33-158.
- Sutton Engineering Co.: See—  
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- Sutton, John R. Offshore equipment supports and methods for making same. 2,900,794, 8-25-59, Cl. 61-46.5.
- Sutton, Mack: See—  
Coopersmith, John M., Peterson, and Sutton. 2,918,508.
- Sutton, O. A., Corp., The: See—  
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- Sutton, Robert W., to Bendix Aviation Corp. Carburetor. 2,867,424, 1-6-59, Cl. 261-52.
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- Sutton, Sidney D., to Veedip Ltd. Rubber gloves and the like. 2,916,036, 12-8-59, Cl. 128-260.
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- Svabek, John E., Jr.: See—  
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- Svac, Andrew: See—  
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- Svala, Carl G.: See—  
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- Svansson, Nils G.: See—  
Corneliusson, Karl G. E., Damm, Landqvist, Linnarson, and Svansson. 2,892,470.
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- Swan, Allan O., to Talon, Inc. Extruded fastener. 2,871,539, 2-3-59, Cl. 24-201.



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- Swanson, Carl G. A., to Lake Erie Machinery Corp. Mandrel positioning and ram arresting apparatus. 2,896,783, 7-28-59, Cl. 207-3.
- Swanson, Carl J. Expandable rule. 2,909,841, 10-27-59, Cl. 33-161.
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- Swanson, Edwin C., to Greenlee Bros. & Co. Portable metal working tool. 2,869,407, 1-20-59, Cl. 81-15.
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- Swanson, Fred R., and C. F. Erikson, to Sundstrand Corp. Machine tool. 2,917,977, 12-22-59, Cl. 90-15.
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- Swanson, John I., to Union Steel Products Co. Carrying rack. 2,896,549, 7-28-59, Cl. 104-135.
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- Swanson, Jons R. F. Table adapted for vertical stacking and horizontal grouping. 2,871,073, 1-27-59, Cl. 311-1.
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- Swanson, Norman F. Multiple cutter power mower. 2,870,592, 1-27-59, Cl. 56-25.4.
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- Swanson, Oscar W., to Underwood Corp. Carriage movement controlling mechanism. 2,905,306, 9-22-59, Cl. 197-177.
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- Swanson, Richard L. Drill chuck. 2,879,069, 3-24-59, Cl. 279-103.
- Swanson, Robert E., to Nathan Mfg. Corp. Pneumatic sound producing device. 2,884,892, 5-5-59, Cl. 116-142.
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- Swanstrom, John E., Connell, Cooper, and Swanson. 2,869,409.
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- Merchant, Chester O. 2,887,209.
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- Swart, Kenneth H., to H. C. Smith Oil Tool Co. Water lubricated bit. 2,880,970, 4-7-59, Cl. 255-303.



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- Swarthout, Warren E.: *See*—  
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- Swarts, Theodore S. Arithmetic instruction apparatus. 2,888,753, 6-2-59, Cl. 35-33.
- Swartz, Allen I., to Columbia Broadcasting System, Inc. Method of treating semiconducting materials for electrical devices. 2,885,364, 5-5-59, Cl. 252-62.3.
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- Swayze, Rue E. Apparatus for purifying exhaust gases. 2,873,815, 2-17-59, Cl. 183-5.
- Swayze, Rue E. Engine lubricating system. 2,899,016, 8-11-59, Cl. 184-6.
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- Sweeney, John P., and D. E. Reed, to Ampex Corp. Magnetic tape apparatus. 2,914,619, 11-24-59, Cl. 179-100.2.
- Sweeney, Maxwell P., to United Engineers & Constructors Inc. Process for the pyrolysis and gasification of hydrocarbonaceous materials. 2,884,368, 4-28-59, Cl. 208-53.
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- Sweet, Corliss M. Adjustable tool mounting for lathes. 2,900,704, 8-25-59, Cl. 29-96.
- Sweet, Monroe H., to General Aniline & Film Corp. Electrical charge transfer system. 2,915,705, 12-1-59, Cl. 324-111.
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- Sweetman, William G. Chemical cutting method and apparatus. 2,918,125, 12-22-59, Cl. 166-35.
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- Sweitzer, Benjamin H. Shock absorber steering wheel construction. 2,876,654, 3-10-59, Cl. 74-493.
- Sweitzer, Carl W., to Columbian Carbon Co. Carbon black process. 2,915,371, 12-1-59, Cl. 23-209.4.
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- Swenson, Alfred G., to General Electric Co. Thermostat calibration means. 2,873,329, 2-10-59, Cl. 200-139.
- Swenson, Arthur B.: *See*—  
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- Swenson, Carl T., to Milsco Mfg. Co. Arm rest. 2,871,928, 2-3-59, Cl. 155-198.
- Swenson, Harvey F., and A. A. Baudat, to Sweden Freezer Mfg. Co. Fruit and vegetable juicer. 2,901,015, 8-25-59, Cl. 146-76.
- Swenson, Leonard K., to J. F. Pritchard & Co. Method of removing monovalent base ions from sulfite pulping liquors. 2,916,355, 12-8-59, Cl. 23-129.
- Swenson, Reuben A.: *See*—  
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- Swenson, Swan V. Spray gun for applying plaster and the like. 2,887,274, 5-19-59, Cl. 239-371.
- Swenson, Theodore J., to Corning Glass Works. Article coating. 2,911,345, 11-3-59, Cl. 204-201.
- Swenson, Thure R., to R. T. Moloney, American National Bank and Trust Co. of Chicago, executor. Gear mechanism. 2,908,180, 10-13-59, Cl. 74-421.
- Swenson, William E.: *See*—  
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- Swerdlow, Nathan, and W. R. Wilson, to General Electric Co. Electric bus duct apparatus. 2,892,012, 6-23-59, Cl. 174-99.
- Swerman, Robert W., to Midwest Mfg. Corp. Door construction. 2,877,760, 3-17-59, Cl. 126-190.
- Swern, Daniel: *See*—  
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- Swern, Daniel, and H. B. Knight, to United States of America, Agriculture. Epoxidized diacetoglycerides. 2,898,348, 8-4-59, Cl. 260-348.
- Swezey, Edwin W.: *See*—  
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- Swicegood, Hamilton F.: *See*—  
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- Swicegood, Lucy-Jim D. and H. F. Bedding. 2,896,226, 7-28-59, Cl. 5-320.
- Swick, Edwin G., to Illinois Tool Works. Sheet material fastener. 2,905,992, 9-29-59, Cl. 24-81.
- Swick, John M., to Hammond Iron Works. Floating covers for tanks. 2,913,138, 11-17-59, Cl. 220-26.
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- Swierczak, Philip C., to Radio Corp. of America. Wide-band amplifier circuits for television receivers and the like. 2,881,265, 4-7-59, Cl. 179-171.
- Swift, Charles D. Illuminated electric shaver. 2,914,655, 11-24-59, Cl. 240-2.
- Swift & Co.: *See*—  
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- Swift, John F., to International Harvester Co. Multi-piston servo-motor. 2,901,888, 9-1-59, Cl. 60—97.
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- Swihart, Glen W. Sweeping device. 2,893,047, 7-7-59, Cl. 15—347.
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- Swing-A-Vay Mfg. Co.: *See*—  
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- Swink, Ethel F.: *See*—  
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- Swink, William M., deceased; E. F. Swink, legatee. Well tool. 2,882,832, 4-21-59, Cl. 103—232.
- Swinnerton, Gerald, to Supreme Photo Products, Inc. Magazine type record cord projector. 2,880,647, 4-7-59, Cl. 88—28.
- Swint, John H. Fly swatter. 2,891,347, 6-23-59, Cl. 43—137.
- Swisher, Max B. Self-propelled riding vehicle. 2,879,859, 3-31-59, Cl. 180—26.
- Swisher, Max B., to Swisher Mower and Machine Co., Inc. Self-propelled riding lawn mower. 2,899,793, 8-18-59, Cl. 56—25.4.
- Swisher Mower and Machine Co., Inc.: *See*—  
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- Switzer Brothers, Inc.: *See*—  
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- Switzer, Harold K. Fishing line retriever. 2,889,655, 6-9-59, Cl. 43—17.2.
- Switzer, Robert L.: *See*—  
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- Switzer, Robert L., to Union Oil Co. of California. Hydraulic system control. 2,917,029, 12-15-59, Cl. 121—158.
- Swords, Robert W. Apparatus for boring and facing work pieces. 2,896,308, 7-28-59, Cl. 29—26.
- Syce, Albert A., to M. A. Stiltner. Conveyor belt. 2,896,773, 7-28-59, Cl. 198—201.
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- Sykes, Julian J., Jr., to Continental Motors Corp. Engine construction. 2,914,137, 11-24-59, Cl. 184—6.
- Sykes, Robert E., to Bell & Gossett Co. Spray gun. 2,888,207, 5-26-59, Cl. 239—301.
- Sykes, Robert E., to Bell & Gossett Co. Flapper valve. 2,894,528, 7-14-59, Cl. 137—238.
- Sykes, Robert E., to Bell & Gossett Co. Compressor. 2,899,130, 8-11-59, Cl. 230—182.
- Syler, Harrison B. Disc-dialing keyless lock. 2,885,881, 5-12-59, Cl. 70—146.
- Sylvan, Joseph. Frame structure. 2,918,994, 12-29-59, Cl. 189—36.
- Sylvan, Stig, to American Air Filter Co., Inc. Mechanical dry tubular-stocking dust collector of the traversing reverse-jet blow ring or self cleaning type. 2,885,028, 5-5-59, Cl. 183—51.
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 Sylvest, Karl J., to F. L. Smith & Co. Apparatus for heating finely divided materials. 2,895,231, 7-21-59, Cl. 34-86.  
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 Sylvester, Joseph, to Penn-Union Electric Corp. Electrical bus support. 2,905,743, 9-22-59, Cl. 174-73.  
 Sylvester, Ralph W., to A. Reich & Sons, Inc. Filling valve assembly for canning machine. 2,877,813, 3-17-59, Cl. 144-250.  
 Sylvester, Walter G., to Specialties Development Corp. Rotary resilient coupling. 2,906,107, 9-29-59, Cl. 64-27.  
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 Michalak, Stanley A., and Imonetti. 2,882,101.  
 Symons, Arthur H. 2,882,099.  
 Symons, Edgar P., to Symons Brothers Co. Grain cutters with opposed eccentrically rotating blades. 2,884,036, 4-28-59, Cl. 146-71.5.



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- Symons, Norman K. J., to E. I. du Pont de Nemours and Co. Silica-filled polycapromide. 2,874,139, 2-17-59, Cl. 260-37.
- Symons, Robert S.: See—
- Nelson, Richard B., and Symons. 2,895,110.
- Synco Corp.: See—
- Carmichael, Thomas F. 2,878,404.
- Jacob, Allan S. 2,900,591.
- Synco Machine Co.: See—
- Brustle, Carl O. 2,884,120.
- Gieseke, Edward P. 2,903,842.
- Syndicate Glass Inc.: See—
- MacAleese, Robert H. 2,891,680.
- Synergistics, Inc.: See—
- Halpern, Alfred. 2,878,252.
- Halpern, Alfred. 2,914,442.
- Synstegard, Alfred C. Cable laying device. 2,900,170, 8-18-59, Cl. 254-134.3.
- Syntax S.A.: See—
- Djerassi, Carl, and Rosenkranz. 2,877,237.
- Djerassi, Carl, and Rosenkranz. 2,899,427.
- Djerassi, Carl, and Rosenkranz. 2,906,750.
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- Djerassi, Carl, Stork, Rosenkranz, and Sondheimer. 2,885,397.
- Kinck, Fred A., Ringold, and Rosenkranz. 2,906,758.
- Mancera, Octavio, Rosenkranz, and Sondheimer. 2,890,227.
- Ringold, Howard J., and Batres. 2,897,199.
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- Rosenkranz, George, and Sondheimer. 2,910,485.
- Sondheimer, Franz, Mancera, and Rosenkranz. 2,877,242.
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- Syntron Co.: See—
- Brayshaw, Stanier E. 2,904,731.
- Gilbert, Walter E. 2,918,590.
- Hitchcock, Richard C., and Weir. 2,869,065.
- Kast, George, Gilbert, and Scott. 2,885,617.
- Missen, Edward J. 2,906,898.
- Smith, Cleveland S. 2,906,236.
- Spurlin, William V. 2,874,667.
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- Gill, Douglas, and Syring. 2,875,630.
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- Syrovy, Augustin J.: See—
- Neracher, Carl A., Dunn, Iavelli, and Syrov. 2,917,141.
- Neracher, Carl A., Dunn, Iavelli, Syrov, and Schotz. 2,916,929.
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- Pucher, Leo E., Cunningham, and Szabo. 2,880,258.
- Szabo, Joseph L., and W. F. Bruce, to American Home Products Corp. Aliphatic and alicyclic diamines and salts thereof. 2,868,833, 1-13-59, Cl. 260-501.
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- Szady, Leopold T., to Formsprag Co. Sprag assembly for one-way clutches. 2,883,023, 4-21-59, Cl. 192-45.1.
- Szaloki, Zoltan: See—
- Grishin, Peter F., Szaloki, and Zimmermann. 2,889,679.
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- Szaruga, Joseph A.: See—
- Rappaport, George, Szaruga, and Wall. 2,895,926.
- Szarvasi, Etienne: See—
- Servigne, Marcel, Szarvasi, and Neuvy. 2,868,850.
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- Szayna, Antoni, to United States Rubber Co. Alkyd resins modified with mono-allyl maleate end groups. 2,889,312, 6-2-59, Cl. 260-77.
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- Szechman, Joshua, to Amroc Inc. Adjustable supports for anodes. 2,919,237, 12-29-59, Cl. 204-225.
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- Pakswier, Serge, and Szegho. 2,879,182.
- Szegvari, Andrew. Valve mechanism, etc. and use thereof. 2,913,115, 11-17-59, Cl. 209-379.
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- Sziklas, Edward A., and C. M. Banas, to United Aircraft Corp. Radiantly cooled inlet. 2,914,915, 12-1-59, Cl. 60-35.6.
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- Szpak, Stanislaw J., and B. Darrel, to General Electric Co. Method of making printed circuit. 2,910,351, 10-27-59, Cl. 41-43.
- Szpila, Jerome S.: See—
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- Szten, Emil M.: See—
- Austrow, Harold W., May, Neumann, and Stzen. 2,876,916.
- Szubin, Edward D.: See—
- Valko, Emery I., Tesoro, and Szubin. 2,882,185.
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- Maciszewski, Arthur H., Hupert, Goldstein, and Szubski. 2,881,315.
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- Szumski, John P.: See—
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Woodcock, John W. 2,868,407.
- TKM Electric Corp.: *See*—  
Kober, William. 2,873,395.
- T-L Holding Co.: *See*—  
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Hunter, William A. 2,879,551.  
Hunter, William A. 2,911,684.  
Raper, George F. 2,890,494.  
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- T. & T. Mfg. Co.: *See*—  
Tessier, Aram J. 2,883,967.
- Tab Products Co.: *See*—  
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- Tabachnick, Howard: *See*—  
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- Tabakof, Allen B., and H. V. Pitt. Packing carton liner for sensitive instruments. 2,906,445, 9-29-59, Cl. 229-14.
- Tabbi, Guy, to Grieco-Bros., Inc. Garment hanger organizer and dispenser. 2,918,174, 12-22-59, Cl. 211-49.
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- Taber, Dudley A.: *See*—  
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- Tabor, Carl J. Apparatus for nebulizing liquid and humidifying inhalant gases. 2,906,513, 9-29-59, Cl. 261-78.
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- Taccone, Russell W., to Taccone Pneumatic Foundry Equipment Corp. Hollow core molding machine. 2,877,521, 3-17-59, Cl. 22-10.
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- Tack, Carl E., to American Steel Foundries. Rotor brake. 2,890,767, 6-16-59, Cl. 188-59.
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- Taeovorian, Skon: *See*—  
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Hemminger, Charles E., Welty, Taff, and Sage. 2,901,415.
- Taft-Peirce Mfg. Co., The: *See*—  
Stead, Clifford. 2,883,803.
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- Taggart, Robert E., to Lynch Corp. Carton blank feeder and gluer. 2,877,737, 3-17-59, Cl. 118-212.
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- Taicher, Leonard L., to Pan American Modes, Inc. Shoes. 2,887,795, 5-26-59, Cl. 36-58.5.
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- Takacs, Robert J., to The Owen Bucket Co. Jaw suspension for grapple. 2,894,781, 7-14-59, Cl. 294-107.
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- Talbert, Thomas L. Anti-snagging device for fishhooks. 2,874,509, 2-24-59, Cl. 43-43.2.
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- Talbot, Warren, to Minneapolis-Honeywell Regulator Co. Liquid level sensing means. 2,894,390, 7-14-59, Cl. 73-295.
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- Talboys, Henry H., to Nordberg Mfg. Co. Method and machine for tamping railway ballast. 2,887,066, 5-19-59, Cl. 104—12.
- Talco Engineering Co., The: *See—*  
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- Talet, Pierre A., to Soci  t   Nobel Francaise. Glyoxal cross-linked acrylamide copolymers. 2,886,557, 5-12-59, Cl. 260—72.
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- Talge, Henry J.: *See—*  
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- Talley, Walter J., to The Pure Oil Co. Pallet for moving and storing cardboard. 2,885,241, 5-5-59, Cl. 294—67.
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- Talmadge, Howard A., to United Aircraft Corp. Clamp. 2,867,883, 1-13-59, Cl. 24—279.
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Brown, Alexander M. 2,913,795.  
Carlile, Alfred E. 2,895,170.  
Hawkins, Thane E. 2,913,796.  
Hendley, James A. 2,907,355.  
Poux, Noel J. 2,870,507.  
Sundback, Gideon. 2,867,878.  
Swan, Allan O. 2,871,539.  
Van Amburg, William F., and Vincent. 2,894,469.
- Tamarin, Bernard J. Torpedo-type cleaner with detachable cord reel. 2,877,488, 3-17-59, Cl. 15—323.
- Tamarin, Bernard J. Container. 2,901,097, 8-25-59, Cl. 206—412.
- Tamarin, Bernard J. and R. B. Cigarette package and method of making the same. 2,903,157, 9-8-59, Cl. 221—260.
- Tamarin, Richard B.: *See—*  
Tamarin, Bernard J. and R. B. 2,903,157.
- Tambini, Robert L.: *See—*  
Hawk, Le Roy R., Bolkin, Smith, and Tambini. 2,908,577.
- Tamblyn, John W., and H. W. Coover, Jr., to Eastman Kodak Co. Polyvinyl chloride plastic compositions containing an organophosphorus amide as an ultraviolet inhibitor. 2,912,411, 11-10-59, Cl. 260—45.9.
- Tamburro, Francis P., to Wilcox & Gibbs Sewing Machine Co. Sewing machine. 2,910,024, 10-27-59, Cl. 112—123.
- Tamele, Miroslav W., and K. Nozaki, to Shell Development Co. Platinum metal catalysts. 2,917,466, 12-15-59, Cl. 252—455.
- Tamm, Emil S., to The General Industries Co. Speed control for electric motors. 2,883,598, 4-21-59, Cl. 318—325.
- Tamminen, Pentti J. Galvanic battery of the flat cell type and method of producing the same. 2,889,389, 6-2-59, Cl. 136—111.
- Tamura, Shiro: *See—*  
Maruyama, Taketo, Sakamoto, Tamura, Kawahara, and Okubo. 2,896,252.
- Tamura Works, Ltd.: *See—*  
Kubota, Tadashi. 2,904,459.
- Tan, Kheng S., to International Harvester Co. Valve for operating a pair of related devices. 2,912,826, 11-17-59, Cl. 60—97.
- Tanabe, Kenichi: *See—*  
Osugi, Tetsuro, Tanabe, Ohno, and Suda. 2,906,594.
- Tanabe, Masato, and J. W. Bolger, to Riker Laboratories, Inc.  $\Delta^{2,2(2)}$ -solanidene-3 $\beta$ ,12 $\beta$ -diol,  $\Delta^{5,22(2)}$ -solanidene-3 $\beta$ ,12 $\beta$ -diol, and process for the preparation thereof. 2,911,402, 11-3-59, Cl. 260—239.5.
- Tanabe, Takashi: *See—*  
Sakurai, Ryoichi, Tanabe, and Nagao. 2,902,335.
- Tanaka, Akira: *See—*  
Ragsdale, La Verne B., and Tanaka. 2,875,809.
- Tanaka, Keiji: *See—*  
Kobayashi, Takizo. 2,906,923.
- Tanaka, Kiichiro: *See—*  
Imai, Kaneo, Ikeda, Tanaka, and Sugawara. 2,868,839.
- Tanaka, Nawokich. Means for presenting pictures in three dimensional effect. 2,888,855, 6-2-59, Cl. 88—1.
- Tanaka, Nobutaka, and T. Kawahashi, to International Standard Electric Corp. Repeating system for time-division multiplex communication circuits. 2,890,283, 6-9-59, Cl. 179—15.
- Tancred, William L.: *See—*  
Fountain, Henry F., and Tancred. 2,870,336.
- Tancred, William L., to The W. N. Borg Corp. Relay. 2,892,058, 6-23-59, Cl. 200—104.
- Tandler, William S., to The Warner and Swasey Co. Gauging head and master fixture for multiprobe gauging apparatus. 2,880,516, 4-7-59, Cl. 33—174.
- Tandler, William S., and M. Grossman, to The Warner & Swasey Co. Tolerance indicating gauging apparatus. 2,892,257, 6-30-59, Cl. 33—174.
- Tanenbaum, Morris: *See—*  
Logan, Ralph A., Peters, and Tanenbaum. 2,879,190.
- Tanenbaum, Morris, to Bell Telephone Laboratories, Inc. Photocell array. 2,911,539, 11-3-59, Cl. 250—211.
- Tangel Material Handling Equipment, Inc.: *See—*  
Claud-Mantle, Arthur. 2,873,689.
- Tangeman, Larry: *See—*  
Blue, John, Johnston, and Tangeman. 2,913,992.
- Tangen, Orland W.: *See—*  
Gray, Ronald V. 2,916,924.
- Tanguy, Denis R., to Schlumberger Well Surveying Corp. Memorizing system. 2,888,309, 5-26-59, Cl. 346—33.
- Taniguchi, Fumio. Electrically heated boiling water pot. 2,868,945, 1-13-59, Cl. 219—44.
- Tank, Lawrence E.: *See—*  
Kuhl, Charles F., Jr., Tank, and Tinari. 2,882,390.
- Tank Service and Construction Co.: *See—*  
Graham, Arthur H., and Staley. 2,884,156.
- Tanke, Willard H., and W. L. Voegeli, to Allis-Chalmers Mfg. Co. Power lift system. 2,914,125, 11-24-59, Cl. 172—8.
- Tankersley, James A., to Bendix Aviation Corp. Brake adjuster. 2,888,109, 5-26-59, Cl. 188—196.
- Tann Corp.: *See—*  
Ovshinsky, Stanford R. 2,904,741.  
Ovshinsky, Stanford R. 2,917,599.
- Tann, David. Variable pitch pulley. 2,883,870, 4-28-59, Cl. 74—230.17.
- Tann, David. Wiring board and method of construction. 2,893,150, 7-7-59, Cl. 41—24.
- Tann, David. Washing and drying machines. 2,895,232, 7-21-59, Cl. 34—95.
- Tann, William E., to The Firestone Tire & Rubber Co. Polychloroprene cement cured with carbon disulfide, lower alkylaminoalcohols and lower polyalkylamines. 2,875,184, 2-24-59, Cl. 260—79.5.
- Tannenbaum, Eileen: *See—*  
Atalla, Martin M., Scheibner, and Tannenbaum. 2,899,344.
- Tannenbaum, Jerome, to B & K Mfg. Co. System for testing an amplifier. 2,896,157, 7-21-59, Cl. 324—57.
- Tannenbaum, Miklos, and L. Kun, to Pablo Saltesz. Pacifier. 2,889,829, 6-9-59, Cl. 128—252.
- Tannenbaum, Wesley, and R. D. Adams, to Avco Mfg. Corp. Thyatron circuit. 2,901,611, 8-25-59, Cl. 250—27.
- Tanner, Charles L., to Tanner Engineering Co. Fluid pressure seal ring. 2,873,132, 2-10-59, Cl. 288—19.
- Tanner, Charles L. Reinforced seal ring. 2,898,167, 8-4-59, Cl. 309—23.
- Tanner, Clarence M. Food tray. 2,906,412, 9-20-59, Cl. 211—74.
- Tanner, David S. Swivel stand for model airplanes. 2,910,260, 10-27-59, Cl. 248—181.
- Tanner Engineering Co.: *See—*  
Tanner, Charles L. 2,873,132.
- Tanner, Harley L., III: *See—*  
Itria, Oswald A., and Tanner. 2,887,053.
- Tanner, Paul H.: *See—*  
Niiranen, John V., and Tanner. 2,871,579.
- Tanner, Walton B., and J. R. Wesel, to E. I. du Pont de Nemours and Co. Purification of polyvinyl acetate. 2,878,168, 3-17-59, Cl. 202—46.
- Tannery, Fred R. Rubber stamp. 2,899,895, 8-18-59, Cl. 101—381.



- Tansel, Cecil L., to Harris-Intertype Corp. Phototypograph. 2,896,523, 7-28-59, Cl. 95-4.5.
- Tanzola, William A.: *See*—  
George, Charles B., Tanzola, and Kahler. 2,877,085.  
Kahler, Harry L., and Tanzola. 2,900,222.
- Tanzola, William A., and J. R. Schieber, to Betz Laboratories, Inc. Liquid dispensing mechanism. 2,867,334, 1-6-59, Cl. 222-64.
- Tapas, John C.: *See*—  
Kleiman, Morton, and Tapas. 2,904,599.
- Tapeswitch Corp. of America: *See*—  
Koenig, Robert H. 2,896,042.
- Taplin, John F. Manostat. 2,879,783, 3-31-59, Cl. 137-116.3.
- Taplin, John F., to Fairchild Engine and Airplane Corp. Differential pressure-responsive regulating means. 2,918,074, 12-22-59, Cl. 137-86.
- Taplin, William H., and G. H. Harris, to The Dow Chemical Co. Process for producing aromatic acids. 2,906,775, 9-29-59, Cl. 260-524.
- Tapp, Ernest A.: *See*—  
Frakes, Hershal S. 2,879,892.
- Tapp, Ernest T. J., and J. Davey, to County Commercial Cars Ltd. Mountings for driven wheels of motor vehicles. 2,882,984, 4-21-59, Cl. 180-1.
- Tapp, Ernest T. J., and J. Davey, to County Commercial Cars Ltd. Implement supporting mechanism for tractors. 2,918,131, 12-22-59, Cl. 172-445.
- Tapp, Harry F., to Gilbert & Barker Mfg. Co. Switch mechanism for storage tank level measuring apparatus. 2,901,567, 8-25-59, Cl. 200-65.
- Tapp, James F.: *See*—  
Frakes, Hershal S. 2,879,892.
- Tapp, Raymond P. J., to Market Transport Ltd. Loading and unloading apparatus carried by vehicles. 2,911,118, 11-3-59, Cl. 214-77.
- Tappan Co., The: *See*—  
Lantz, Ray F., Scott, Perl, and Clark. 2,911,810.
- Tapper, Robert. Epilation device. 2,894,512, 7-14-59, Cl. 128-303.18.
- Tarantino, Thomas R.: *See*—  
Brouillard, Robert E., and Tarantino. 2,900,390.
- Taras, John: *See*—  
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Randall, David I., and Taras. 2,908,544.  
Randall, David I., and Taras. 2,914,542.  
Randall, David I., Wowk, and Taras. 2,914,538.
- Tarbes, Pierre, to Société Nouvelle de l'Outilsage R. B. V. et de La Radio-Industrie. Photoresistive cells. 2,875,308, 2-24-59, Cl. 201-63.
- Tarbox, George R., to Eastern Malleable Iron Co. Hammer. 2,884,970, 5-5-59, Cl. 145-36.
- Tarbox, John P. Physician's bag. 2,870,904, 1-27-59, Cl. 206-12.
- Tarbox, John P. Simulated baseball game apparatus. 2,886,318, 5-12-59, Cl. 273-88.
- Tarbox, Richard P.: *See*—  
Neuworth, Martin B., Paterson, and Tarbox. 2,904,595.
- Tarbucket, Robert R.: *See*—  
Epstein, Herman, and Tarbucket. 2,917,996.
- Tarbucket, Robert R., to Burroughs Corp. Tape feeding system. 2,869,684, 1-20-59, Cl. 188-78.
- Tarby, Stephen E.: *See*—  
Ailes, Warren, George, and Tarby. 2,874,451.
- Tarex S.A.: *See*—  
Bergonzo, Pierre. 2,903,924.
- Tarin, Lillian. Pouring spout for cartons. 2,878,966, 3-24-59, Cl. 222-90.
- Tarleton, Frederic L., to General Electric Co. Refrigerator cabinet construction. 2,880,049, 3-31-59, Cl. 312-296.
- Tarleton, Howard A., and E. H. Rothrock, to Black, Starr & Gorham. Cigarette case. 2,897,958, 8-4-59, Cl. 206-41.
- Tarlton, Frank H., to Rolls-Royce Ltd. Vehicle power steering apparatus. 2,870,645, 1-27-59, Cl. 74-388.
- Tarloton, Russell A., to Westinghouse Electric Corp. Laminated magnetic stack. 2,880,498, 4-7-59, 29-196.1.
- Tarmann, Bruno, and R. Obauer, to Gebr. Bohler & Co. Akt. Process of making drop-forgings. 2,871,557, 2-3-59, Cl. 29-528.
- Tarmy, Barry L.: *See*—  
Houston, Robert W., Tarmy, and Long. 2,904,484.
- Tarmy, Barry L., and R. B. Long, to Esso Research and Engineering Co. Radiochemical treatment of heavy oils. 2,904,485, 9-15-59, Cl. 204-154.
- Tarr, Thomas A., to Phillips Petroleum Co. Fractional crystallization process and apparatus. 2,874,199, 2-17-59, Cl. 260-666.
- Tarr, Thomas A., to Phillips Petroleum Co. Separation by crystallization. 2,885,431, 5-5-59, Cl. 260-475.
- Tarrant, Fred K. Machine for picking up litter. 2,918,694, 12-29-59, Cl. 15-350.
- Tarrant, James H.: *See*—  
Wells, Daniel M., and Tarrant. 2,881,693.
- Tarrant, Paul, to Dow Corning Corp. Halocyclobutyl substituted organosilicon compounds. 2,911,428, 11-3-59, Cl. 260-448.2.
- Tarschisch, Harry: *See*—  
Leonard, Edward J., Hemel, Karow, Gibson, Liston, and Tarschisch. 2,918,533.
- Tarsey, Alexandre R.: *See*—  
Davis, Delmar B., and Tarsey. 2,890,100.
- Tarsey, Alexandre R., and W. D. Guthrie, to Titanium Metals Corp. of America. Purification of titanium tetrachloride with copper. 2,871,094, 1-27-59, Cl. 23-87.
- Tarsio, Peter J., and L. Nicholl, to Kay-Fries Chemicals Inc. Preparation of cytosine and intermediates. 2,892,840, 6-30-59, Cl. 260-256.1.
- Tarsoly, Balázs. Material separator and energy apparatus. 2,875,949, 3-3-59, Cl. 233-27.
- Tarte, Franklin E., Jr. Rotary pocketed target. 2,886,321, 5-12-59, Cl. 273-105.
- Tarte, Franklin E., Jr. Game apparatus. 2,893,734, 7-7-59, Cl. 273-85.
- Tarte, Franklin E., Jr. Tape reel storage device. 2,918,342, 12-22-59, Cl. 312-330.
- Tarukawa, Tomiji. Apparatus for the automatic measurement of an amount of any powdery stock-material. 2,902,188, 9-1-59, Cl. 222-63.
- Tarwid, Wesley A.: *See*—  
Muehling, Charles L., and Tarwid. 2,914,213.
- Tarwid, Wesley A., to American Can Co. Polyester plasticized vinyl polymer organosol composition. 2,918,445, 12-22-59, Cl. 260-32.8.
- Tarzian, George M., to American Special Machine Co. Drive mechanism for automatic assembly machines. 2,903,914, 9-15-59, Cl. 74-820.
- Tascher, Paul J. Abrasive flux and flush control system for dental apparatus. 2,875,521, 3-3-59, Cl. 32-58.
- Tashiro, Frank K. Shot-type fishing sinker. 2,904,924, 9-22-59, Cl. 43-44.89.
- Tashjian, Aram: *See*—  
Kreft, Leon J. 2,868,193.
- Tashjian, Harry J.: *See*—  
Wilson, Lawrence A., Durfee, and Tashjian. 2,900,831.
- Tassara, Luigi, to Metal-Lux S. r. l. Continuous variation potentiometer. 2,873,336, 2-10-59, Cl. 321-55.
- Tassie, John W. D., to Advance Glove Mfg. Co. Finger cot. 2,882,528, 4-21-59, Cl. 2-21.
- Tast, Glen O.: *See*—  
Steele, Roger C., and Tast. 2,870,693.
- Tatay, Frank. Portable, extensible air conditioner. 2,917,128, 12-15-59, Cl. 181-36.
- Tate, Bryce E.: *See*—  
Bavley, Abraham, and Tate. 2,899,457.  
Bavley, Abraham, and Tate. 2,899,462.
- Tate, Clifford E., and P. J. G. Freeman, to Marconi's Wireless Telegraph Co. Ltd. Transceiver with automatic bias control of modulator. 2,894,122, 7-7-59, Cl. 250-13.
- Tate, Edward E.: *See*—  
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Kaye, Philip, and Tate. 2,888,698.  
Kaye, Philip, and Tate. 2,908,928.  
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Peilet, Lester R., Kaye, and Tate. 2,916,757.
- Tate, Francis E. G.: *See*—  
Scott, Gerald, and Tate. 2,889,381.
- Tate, George E.: *See*—  
Arnold, Stanfield N., and Tate. 2,909,158.
- Tate, George E., to Foster Wheeler Corp. Method for generating vapor. 2,895,456, 7-21-59, Cl. 122-406.
- Tate, Roger W., to Esso Research and Engineering Co. Fractionation in coker scrubber of heavy gas oils containing a high concentration of metal contaminants. 2,901,416, 8-25-59, Cl. 208-82.
- Tate, Roger W., W. A. Rex, deceased (V. C. Rex, administratrix), and C. E. Hemminger, to Esso Research and Engineering Co. Method of controlling oxidation state of hydroforming catalysts. 2,873,248, 2-10-59, Cl. 208-136.
- Tate, Roger W., and R. J. Volkmann, to Delavan Mfg. Co. Liquid spray nozzle. 2,904,263, 9-15-59, Cl. 239-494.
- Tateishi, Arthur. Mounting for a fan assembly or the like. 2,904,298, 9-15-59, Cl. 248-127.
- Tateishi, Toshio, to Nippon Mishin Seizo Kabushiki Kaisha. Sewing mechanism of sewing machine. 2,873,706, 2-17-59, Cl. 112-181.
- Tatnall Measuring Systems Co.: *See*—  
Bean, William T., Jr. 2,899,658.  
McClelland, John C. 2,908,163.  
Starr, James E. 2,900,818.
- Tatsak, Jack E.: *See*—  
Sherts, William M., Tatsak, and Zurney. 2,873,559.
- Tatsch, Richard. Nested conduits. 2,872,035, 2-3-59, Cl. 206-65.
- Tattersall, Norman, to Leyland Motors Ltd. Motor vehicle driving gear. 2,894,609, 7-14-59, Cl. 192-3.2.
- Taub, George. Dental composition comprising synthetic polymer, solvent therefor, and inorganic filler. 2,877,199, 3-10-59, Cl. 260-32.8.
- Taube, Carl: *See*—  
Böckmann, Klaus, and Taube. 2,900,379.
- Taube, Carl, Farbenfabriken Bayer Akt. Disazo dyestuffs. 2,886,562, 5-12-59, Cl. 260-161.
- Taube, Carl, and K. Böckmann, to Farbenfabriken Bayer Aktiengesellschaft. Process for improving the fastness properties of dyes with substantive dyestuffs. 2,912,296, 11-10-59, Cl. 8-74.
- Taubenslag, Morris J., and E. G. May, to United States of America. Navy, D.C. discriminator gating circuit. 2,898,460, 8-4-59, Cl. 250-27.
- Tauber, Robert. Surgical needle guiding instrument. 2,897,820, 8-4-59, Cl. 128-334.



- Tauber, Samuel P., and G. J. Stinnett, to United States Rubber Co. Sealers for joints. 2,899,876, 8-18-59, Cl. 94-18.
- Taubert, Kurt: *See*—  
Hennig, Walter, Scheinert, Taubert, and Strehle. 2,911,894.
- Taubes, Ernest P., to Photostat Corp. Photographic developing apparatus. 2,889,762, 6-9-59, Cl. 95-94.
- Taubman, Samuel. Shower door handle. 2,904,368, 9-15-59, Cl. 292-347.
- Taugner, Jack W.: *See*—  
Coleman, Ivan V., and Taugner. 2,897,273.
- Taunt, James E., to International Business Machine Corp. Tester. 2,895,106, 7-14-59, Cl. 324-158.
- Tausch, Gilbert H., C. B. Corley, Jr., and J. W. Kenneday, to Jersey Production Research Co. Permanent well completion apparatus. 2,888,080, 5-26-59, Cl. 166-192.
- Tausch, Gilbert H., C. B. Corley, Jr., and J. W. Kenneday, to Jersey Production Research Co. Permanent well completion apparatus. 2,894,588, 7-14-59, Cl. 166-192.
- Tausch, Gilbert H., and J. W. Kenneday, to Jersey Production Research Co. Permanent well completion apparatus. 2,906,345, 9-29-59, Cl. 166-189.
- Tauscher, Vernon A., to Northrop Aircraft, Inc. Stepper motor. 2,876,655, 3-10-59, Cl. 74-565.
- Tavani, Lorenzo, and M. Morini, to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Process for the production of cation exchange resins of the carboxylic type. 2,885,371, 5-5-59, Cl. 260-22.
- Tavannes Watch Co. S. A.: *See*—  
Maire, Georges. 2,872,775.
- Tavares, Everett A. Rudder. 2,909,143, 10-20-59, Cl. 114-166.
- Tavender, Walter K.: *See*—  
Reimers, Alfred E., Tavender, and McCormack. 2,880,300.
- Tavender, Walter K., and L. J. McCormack, Jr. Portable steam guns and steam-superheating apparatus therefor. 2,878,360, 3-17-59, Cl. 219-39.
- Tavender, Walter K., and L. J. McCormack, Jr. Removable heating element for pressing-iron sole plate and methods of removably mounting such heating element therein. 2,913,564, 11-17-59, Cl. 219-25.
- Tavener, Ernest E., to Keith Blackman, Ltd. Gas pressure loaded regulator. 2,902,047, 9-1-59, Cl. 137-505.18.
- Taverna, Arthur R., to Allied Research Products, Inc. Addition agent for cadmium plating solution. 2,912,870, 11-10-59, Cl. 204-50.
- Tavernese, Vincent, and A. H. Deatrick; said Tavernese assor. to R. D. Adams. Concentrate entraining injector and mixer. 2,881,781, 4-14-59, Cl. 137-205.5.
- Tavi, Felix. Ski having tensioning means. 2,918,293, 12-22-59, Cl. 280-11.13.
- Tavis, John R., to Consolidated Electrodynamics Corp. Galvanometer structure. 2,867,770, 1-6-59, Cl. 324-154.
- Tavis, John R., to Consolidated Electrodynamics Corp. Suspension galvanometer. 2,873,427, 2-10-59, Cl. 324-97.
- Tavis, John R., to Consolidated Electrodynamics Corp. Suspension galvanometer. 2,874,353, 2-17-59, Cl. 324-97.
- Tavis, John R., to Consolidated Electrodynamics Corp. Galvanometer structure. 2,886,781, 5-12-59, Cl. 324-154.
- Tavone, Vincent. Reciprocating irrigation sprinkler system. 2,895,680, 7-21-59, Cl. 239-76.
- Tavone, Vincent. Adjustable sprinkler for lawns. 2,895,682, 7-21-59, Cl. 239-281.
- Tawco Products, Inc.: *See*—  
Williams, Donald L., and Allen. 2,911,051.
- Tayco Developments, Inc.: *See*—  
Taylor, Paul H. 2,909,398.
- Taylor, Alan W.: *See*—  
Allen, Robert W., and Taylor. 2,868,590.
- Taylor, Albert J.: *See*—  
Johnson, James R., and Taylor. 2,905,528.
- Taylor, Allan J., to Northrop Aircraft, Inc. Elevating dolly. 2,896,909, 7-28-59, Cl. 254-9.
- Taylor, Allan J., and A. Toth, to Northrop Corp. Material handling fixture. 2,901,201, 8-25-59, Cl. 248-119.
- Taylor, Allen R.: *See*—  
Smith, Harry R., and Taylor. 2,917,712.
- Taylor, Arthur K., to Taylor Machine Co. Method and apparatus for registering cylindrical forms. 2,907,274, 10-6-59, Cl. 101-401.1.
- Taylor, Arthur R., to Brown Co. Method and apparatus for pressing fibrous tubing. 2,884,062, 4-28-59, Cl. 162-415.
- Taylor, Arthur S.: *See*—  
Stirn, Frank E., and Taylor. 2,878,630.  
Stirn, Frank E., and Taylor. 2,902,802.
- Taylor, Arthur S., and W. P. Konazewski, to American Cyanamid Co. Method and machine for marking bottle closures. 2,891,468, 6-23-59, Cl. 101-5.
- Taylor, Ashton B. Terminal blocks for electrical trolley systems. 2,884,614, 4-28-59, Cl. 339-263.
- Taylor, Billy W., to Fisher Scientific Co. Fractional distillation apparatus. 2,876,175, 3-3-59, Cl. 202-158.
- Taylor Biscuit Co.: *See*—  
Barr, James W. 2,909,261.
- Taylor, Brian: *See*—  
Bird, Raymond, and Taylor. 2,890,439.
- Taylor, Carl C., and S. L. Pitzer. Flow controllers. 2,915,084, 12-1-59, Cl. 137-501.
- Taylor, Charles A., to Burroughs Corp. Reset mechanism for accelerometers. 2,878,775, 3-24-59, Cl. 116-129.
- Taylor, Charles H.: *See*—  
Briskin, Theodore S., Lustig, and Taylor. 2,907,532.
- Taylor, Charles L., to General Electric Co. Electronic tube structure. 2,888,590, 5-26-59, Cl. 313-299.
- Taylor, Charles R., to Rockwell Mfg. Co. Hydraulic mechanism. 2,913,990, 11-24-59, Cl. 103-125.
- Taylor, Charles W., to The Goodyear Tire & Rubber Co. Extrusion apparatus. 2,908,938, 10-20-59, Cl. 18-14.
- Taylor, Charles W., and M. E. Komp, to The Goodyear Tire & Rubber Co. Friction composition comprising carbonized elements held in a matrix of uncarbonized material and method for preparing same. 2,885,379, 5-5-59, Cl. 260-38.
- Taylor, Clair A., and D. A. Robbins. Attachment for use in cleaning firearms. 2,877,484, 3-17-59, Cl. 15-210.
- Taylor, Clarence C.: *See*—  
Leo, Herbert T., and Taylor. 2,910,366.
- Taylor, Claude A.: *See*—  
Welden, Artie L. 2,885,296.
- Taylor, Clement F., to General Electric Co. Mass flowmeter motive apparatus. 2,907,208, 10-6-59, Cl. 73-194.
- Taylor, Clyde B.: *See*—  
Snyder, Robert E., and Taylor. 2,910,309.
- Taylor, Daniel D., to Beckman Instruments, Inc. Mill for comminuting solid material. 2,883,118, 4-21-59, Cl. 241-172.
- Taylor, Daniel D., to Beckman Instruments, Inc. Electrical detonator. 2,918,871, 12-29-59, Cl. 102-70.2.
- Taylor, Donald F., R. L. Baughman, and L. F. Yntema, to Fansteel Metallurgical Corp. Purification of refractory metals. 2,904,430, 9-15-59, Cl. 75-200.
- Taylor, Donald F., R. L. Baughman, and L. F. Yntema, to Fansteel Metallurgical Corp. Method of recovering tantalum and columbium. 2,905,548, 9-22-59, Cl. 75-84.
- Taylor, Donald F., R. L. Baughman, and L. F. Yntema, to Fansteel Metallurgical Corp. Method of recovering refractory metals. 2,905,549, 9-22-59, Cl. 75-84.
- Taylor, Donald F., R. L. Baughman, and L. F. Yntema, to Fansteel Metallurgical Corp. Recovery of refractory metals. 2,905,550, 9-22-59, Cl. 75-84.
- Taylor, Donald J. Self-prompter. 2,867,051, 1-6-59, Cl. 40-78.
- Taylor, Donald R., Jr., and P. Z. Ingerman, to Philco Corp. Deflection system for cathode ray tubes. 2,911,566, 11-3-59, Cl. 315-27.
- Taylor, Donald S., and N. P. Nies, to United States Borax & Chemical Corp. Anhydrous crystalline borate and process for producing same. 2,886,461, 5-12-59, Cl. 106-316.
- Taylor, Douglas E.: *See*—  
Jones, Lloyd R., Freund, Raynor, and Taylor. 2,882,346.
- Taylor, Douglas E., L. R. Jones, and W. F. Mitchell, to Dictaphone Corp. Control apparatus for remote dictation systems. 2,870,264, 1-20-59, Cl. 179-100.1.
- Taylor, Edward R., Jr., to E. I. du Pont de Nemours and Co. Single phase liquid lubricating, anti-corrosion, anti-acid composition and preparation of same. 2,914,481, 11-24-59, Cl. 252-74.
- Taylor, Edwin A.: *See*—  
Salt, Albert E., and Taylor. 2,902,755.
- Taylor, Elizabeth H.: *See*—  
Taylor, John L. 2,916,051.
- Taylor, Elizabeth H. Infant's sleeping bag. 2,888,009, 5-26-59, Cl. 128-134.
- Taylor, Ervin W. Underwater spear gun. 2,888,768, 6-2-59, Cl. 42-1.
- Taylor, F., & Sons (Manchester) Ltd.: *See*—  
Hurd, Eric W. 2,867,412.  
Hurd, Eric W. 2,887,299.
- Taylor Fibre Co.: *See*—  
Bowditch, William R., Jr. 2,879,827.
- Taylor, Florence E.: *See*—  
Sterne, Willard F., and Bright. 2,914,770.
- Taylor, Floyd B., 9% to G. H. Guckert, 18% to H. Beneke, 18% to E. Winters, and 5% to W. J. Threadgill. Pneumatic lock system for vehicles. 2,888,287, 5-26-59, Cl. 292-33.
- Taylor, Floyd L.: *See*—  
Buehrle, Victor E., Jr., Adrion, and Buehrle. 2,909,250.
- Taylor, Frank C., Jr., and H. L. Aamoth, to The Dow Chemical Co. Method of removing acids from aqueous solutions with phosphate salts of quaternary ammonium anion exchange resins. 2,868,832, 1-13-59, Cl. 260-499.
- Taylor, Frank E. Key case. 2,897,667, 8-4-59, Cl. 70-456.
- Taylor, Frank F., Co., The: *See*—  
Gill, Donald W. 2,875,815.  
Gill, Donald W. 2,917,316.
- Taylor, Franklin E., and C. Akrell, to Sylvania Electric Products Inc. Signal seeking receiver. 2,885,546, 5-5-59, Cl. 250-20.
- Taylor, Frederic W. Hand grip steering wheel. 2,881,638, 4-14-59, Cl. 74-552.
- Taylor, George F.: *See*—  
Burnett, Barrie S., and Taylor. 2,886,626.
- Taylor, Gordon N. Individual sound system for passenger vehicles. 2,908,766, 10-13-59, Cl. 179-82.
- Taylor, Harlan D., to United Aircraft Corp. Cambered shroud. 2,912,157, 11-10-59, Cl. 230-134.
- Taylor, Harry A. Holder for game sheets. 2,872,215, 2-3-59, Cl. 281-44.



- Taylor, Harry E. Portable picnic table. 2,908,322, 10-13-59, Cl. 155-124.
- Taylor, Howard A. Target device. 2,905,469, 9-22-59, Cl. 273-105.6.
- Taylor, Howard L., Jr.: *See*—  
Gordon, Thurlow M., Jr., and Taylor. 2,906,827.
- Taylor, Howard S., to Airguide Instrument Co. Magnetic compass. 2,903,798, 9-15-59, Cl. 33-225.
- Taylor, Howard U.: *See*—  
Roup, Rolland R., Hitzeman, Taylor, and Beard. 2,905,564.
- Taylor, Irving R.: *See*—  
Deffenbaugh, James F., and Taylor. 2,912,564.
- Taylor, Ivan J. High speed camera. 2,906,162, 9-29-59, Cl. 88-16.
- Taylor, Jack A., and G. J. Topol, to Bowser, Inc. Emulsion breaker. 2,883,345, 4-21-59, Cl. 252-360.
- Taylor, James B., III, to American Flange and Mfg. Co. Disposable vent plug. 2,907,489, 10-6-59, Cl. 220-27.
- Taylor, James B., III, and G. W. Barradas, to American Flange and Mfg. Co. Inc. Closure combination and elements thereof. 2,900,103, 8-18-59, Cl. 220-39.
- Taylor, James D. W. Bobbin feeding mechanism for spooling machines. 2,896,818, 7-28-59, Cl. 221-178.
- Taylor, James E. Vibratory coating method and apparatus. 2,880,118, 3-31-59, Cl. 117-201.
- Taylor, James L.: *See*—  
Miller, Harry C., Taylor, and McCoy. 2,873,162.
- Taylor, James L., and L. C. Byerly, to Burlington Industries, Inc. Combination yarn. 2,890,567, 6-16-59, Cl. 57-140.
- Taylor, James V.: *See*—  
Read, Robert C., and Gregor. 2,875,457.
- Taylor, John. Fastener device. 2,913,042, 11-17-59, Cl. 155-196.
- Taylor, John A.: *See*—  
Sedgfield, Hugh B., Taylor, and MacDougall. 2,903,891.
- Taylor, John A., S. S. Podnos, and H. C. Fraser, to United States of America, Army. Concrete piercing fuse. 2,873,677, 2-17-59, Cl. 102-75.
- Taylor, John E., to Bendix Aviation Corp. Demodulator. 2,914,682, 11-24-59, Cl. 307-88.5.
- Taylor, John H.: *See*—  
Maier, Alfred E., and Taylor. 2,883,585.
- Taylor, John H., to Ross Engineering of Canada Ltd. Pressure regulator with associated relief valve. 2,891,784, 6-23-59, Cl. 267-1.
- Taylor, John H., to Vulcan Iron Works. Rotary kiln. 2,908,179, 10-13-59, Cl. 74-414.
- Taylor, John J.: *See*—  
Kalb, John W., Taylor, and Yost. 2,915,674.
- Taylor, John L.; Elizabeth H. Taylor, administratrix of said John L. Taylor, deceased. Fluid pressure operated valve. 2,916,051, 12-8-59, Cl. 137-623.
- Taylor, Joseph B.: *See*—  
Horton, William B., and Taylor. 2,908,139.
- Taylor, Joseph B., to Eastman Kodak Co. Photographic spirit duplicating process. 2,903,964, 9-15-59, Cl. 101-149.4.
- Taylor, Kenneth M., to The Carborundum Co. Refractory bodies containing boron nitride and a boride, and the manufacture thereof. 2,872,327, 2-3-59, Cl. 106-55.
- Taylor, Kenneth M., to The Carborundum Co. Refractory bodies containing boron nitride. 2,887,393, 5-19-59, Cl. 106-44.
- Taylor, Kenneth M., to The Carborundum Co. Method of making boron nitride material and bodies. 2,888,325, 5-26-59, Cl. 23-191.
- Taylor, Kenneth M., to The Carborundum Co. Boron nitride-metal carbide bodies and the manufacture thereof. 2,888,355, 5-26-59, Cl. 106-43.
- Taylor, Kenneth M., to The Carborundum Co. Sintered metal bodies containing boron nitride. 2,888,738, 6-2-59, Cl. 29-182.5.
- Taylor, Lance, and L. A. Sims. Wiper de-icer. 2,903,732, 9-15-59, Cl. 15-250.5.
- Taylor, Leroy R. Appointment clock. 2,867,274, 1-6-59, Cl. 161-1.
- Taylor, Lincoln H., Jr.: *See*—  
Hewitt, Reginald I., and Taylor. 2,877,154.
- Taylor, Louis L., and R. M. Hodge, to North American Aviation, Inc. Infrared ranging system. 2,919,350, 12-29-59, Cl. 250-83.3.
- Taylor Machine Co.: *See*—  
Taylor, Arthur K. 2,907,274.
- Taylor, Marilyn: *See*—  
Buehrle, Victor E., Jr., Adrion, and Buehrle. 2,909,250.
- Taylor, Maurice C. Preparation of polymeric phosphonitrilic chloride. 2,872,283, 2-3-59, Cl. 23-14.
- Taylor, Owen L., to The Bryant Electric Co. Switch. 2,867,700, 1-6-59, Cl. 200-67.
- Taylor, Owen L., to The Bryant Electric Co. Wiring device. 2,881,279, 4-7-59, Cl. 200-67.
- Taylor, Owen L., to The Bryant Electric Co. Electric heater control. 2,894,103, 7-7-59, Cl. 219-20.
- Taylor, Owen L., to The Bryant Electric Co. Relay. 2,896,051, 7-21-59, Cl. 200-122.
- Taylor, Owen L., to The Bryant Electric Co. Wiring device. 2,915,735, 12-1-59, Cl. 339-164.
- Taylor, Owen L., to Westinghouse Electric Corp. Electric wiring device. 2,917,610, 12-15-59, Cl. 200-152.
- Taylor, Owen L., and C. M. Smith, to The Bryant Electric Co. Wiring device. 2,870,290, 1-20-59, Cl. 200-113.
- Taylor, Paul E. Trailer door. 2,914,121, 11-24-59, Cl. 160-37.
- Taylor, Paul H., to Wales-Strippit Corp. Method and apparatus for making plastic seal members for liquid springs. 2,866,999, 1-6-59, Cl. 18-1.
- Taylor, Paul H., to Wales-Strippit Corp. Self-contained perforating implement. 2,867,276, 1-6-59, Cl. 164-110.
- Taylor, Paul H. Liquid spring and oleo suspension for aircraft and vehicles. 2,873,963, 2-17-59, Cl. 267-64.
- Taylor, Paul H. Resilient and dampened push pull members. 2,888,257, 5-26-59, Cl. 267-1.
- Taylor, Paul H. Differential area liquid springs. 2,909,368, 10-20-59, Cl. 267-64.
- Taylor, Paul H., to Tayco Developments, Inc. Liquid spring seal. 2,909,398, 10-20-59, Cl. 309-23.
- Taylor, Paul H. Electrolytic process for hard surfacing aluminum. 2,913,416, 12-22-59, Cl. 204-58.
- Taylor, Philip, and G. H. Perry, to National Research Development Corp. Beam deflection systems for cathode ray tubes. 2,895,074, 7-14-59, Cl. 315-26.
- Taylor, Purvis N.: *See*—  
Parker, George C., and Taylor. 2,914,270.
- Taylor, Raymond G., Jr., to Borg-Warner Corp. Swab cup. 2,917,352, 12-15-59, Cl. 309-33.
- Taylor, Raymond G., Jr., to Borg-Warner Corp. Disc swab. 2,919,167, 12-29-59, Cl. 309-33.
- Taylor, Raymond L., to Bell Telephone Laboratories, Inc. Electrolytic capacitors. 2,908,849, 10-13-59, Cl. 317-230.
- Taylor, Richard, to International Business Machines Corp. Alternating current error detector system. 2,886,702, 5-12-59, Cl. 250-27.
- Taylor, Richard G., and J. O. Puckett. Woodworking apparatus. 2,868,249, 1-13-59, Cl. 144-91.
- Taylor, Richard H.: *See*—  
Hall, Preston M., and Taylor. 2,914,652.
- Taylor, Richard O.: *See*—  
Hilleman, Maurice R., and Taylor. 2,884,936.
- Taylor, Robert B., and P. V. Johnson, to Structural Clay Products Research Foundation. Reinforced brick masonry wall and brick therefor. 2,881,613, 4-14-59, Cl. 72-40.
- Taylor, Robert C., and R. Grundy, to Ratby Engineering Co., Ltd. Bar feeds for automatic lathes and other machine tools. 2,915,810, 12-8-59, Cl. 29-93.
- Taylor, Roland R., to Fraser & Johnston Co. Parallel slot gas burner. 2,884,998, 5-5-59, Cl. 158-116.
- Taylor, Ronald W., and J. A. Hunter; said Taylor assor. to W. H. Sanders (Electronics) Ltd. Mechanism for the control of strip materials. 2,888,259, 5-26-59, Cl. 271-2.2.
- Taylor, Ross A., Jr.: *See*—  
Sconce, Freddie O., and Taylor. 2,871,759.
- Taylor, Ross E., to Studebaker-Packard Corp. Fast idle control system for power machinery. 2,883,876, 4-28-59, Cl. 74-472.
- Taylor, Russell C., to American Can Co. Locking clip. 2,876,897, 3-10-59, Cl. 206-65.
- Taylor, Samuel K., and K. A. Cool, to The Service Recorder Co. Recorder. 2,868,612, 1-13-59, Cl. 346-123.
- Taylor, Seymour, to Chas. Pfizer & Co. Ophthalmic dispenser. 2,898,911, 8-11-59, Cl. 128-249.
- Taylor, Stanley: *See*—  
Lubszynski, Hans G., McGill, and Taylor. 2,910,602.
- Taylor, Stephen A., to The Goodyear Tire & Rubber Co. Conveyor belt. 2,909,271, 10-20-59, Cl. 198-198.
- Taylor, Stewart R. Method and composition for pacifying bees. 2,900,300, 8-18-59, Cl. 167-39.
- Taylor, Taylor & Hobson Ltd.: *See*—  
Cook, Gordon H. 2,915,942.
- Cook, Gordon H., and Merigold. 2,895,379.
- Taylor, Thomas D.: *See*—  
Mueller, Charles W., and Taylor. 2,889,793.
- Taylor, Thomas D., to Union Special Machine Co. Sewing machine. 2,911,930, 11-10-59, Cl. 112-219.
- Taylor, Wallace F., to Minnesota Mining & Mfg. Co. Dimensionally thermostable polysulfide compositions containing metal oxides and metal sulfates and article coated therewith. 2,893,906, 7-7-59, Cl. 154-43.
- Taylor, Welton I., and J. H. Silliker, to Swift & Co. Processing of food materials. 2,876,108, 3-3-59, Cl. 99-150.
- Taylor, Wesley A.: *See*—  
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- Taylor, Willard U.: *See*—  
Schane, Philip, Jr., and Taylor. 2,878,115.
- Taylor, William A. Paint can lid. 2,898,006, 8-4-59, Cl. 222-154.
- Taylor, William C., to Owens-Corning Fiberglas Corp. Process for producing cellular insulating materials. 2,915,409, 12-1-59, Cl. 106-86.
- Taylor, William E., to Motorola, Inc. High frequency transistor package. 2,880,383, 3-31-59, Cl. 317-235.
- Taylor, William H.: *See*—  
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- Schneider, Paul L., Cromwell, and Taylor. 2,904,148.
- Taylor, William H. Apparatus for feeding, counting and stacking magazines, books and other articles. 2,901,952, 9-1-59, Cl. 93-93.



- Taylor, William H. Model aircraft control device. 2,907,569, 10-6-59, Cl. 272-31.
- Taylor, William H. Automatic reversing mechanism for magazines and the like. 2,911,891, 11-10-59, Cl. 93-93.
- Taylor, William I., to Ciba Pharmaceutical Products, Inc. Preparation of normal-alkyl reserpates and alkyl deserpidates. 2,877,225, 3-10-59, Cl. 260-287.
- Taylor, William I., to Ciba Pharmaceutical Products, Inc. Process for the manufacture of indoles and products obtained thereby. 2,877,229, 3-10-59, Cl. 260-293.2.
- Taylor, William R., to Diamond Alkali Co. Liner for container. 2,912,137, 11-10-59, Cl. 220-65.
- Taylor-Wilson Mfg. Co.: *See*—
- McConnell, William M. 2,907,202.
- Taylor-Winfield Corp.: *See*—
- Campbell, Donald M., and Seeloff. 2,879,490.
- Cooper, Joseph H. 2,911,515.
- Horlacher, Harry W., Jr. 2,892,920.
- Riley, Joseph J., and Hurcomb. 2,892,926.
- Seeloff, Melvin M. 2,879,374.
- Seeloff, Melvin M., and Hansen. 2,913,568.
- Taylorix Organisation, Stiegler, Hausser & Co.: *See*—
- Schmidt, Heinz, and Fischer. 2,887,207.
- Taymouth Industries Ltd.: *See*—
- Zakrzewski, Andrew S., Ashby, Daskiewicz, and Moore. 2,870,805.
- Tazuma, James J., to Food Machinery and Chemical Corp. Aminoaryl isocyanates and their manufacture. 2,884,435, 4-28-59, Cl. 260-453.
- Tazuma, James J., to Food Machinery and Chemical Corp. Chlorination of aromatic polyisocyanates. 2,915,545, 12-1-59, Cl. 260-453.
- Tchoubar, Bianka, to Centre National de la Recherche Scientifique. Alkylation of malonic esters. 2,894,981, 7-14-59, Cl. 260-485.
- Tchoubritsch, Michel, and G. Terroir, to Societe d'Etudes et d'Applications de Procédes Nouveaux. Rapid priming siphon for water flushing tanks. 2,899,686, 8-18-59, Cl. 4-42.
- Teagarden, Dwight M., to ACF Industries, Inc. Pressure carburetor. 2,918,046, 12-22-59, Cl. 123-119.
- Teagle, William T. Agricultural machines. 2,901,257, 8-25-59, Cl. 275-8.
- Teague, Claude E., Jr., to R. J. Reynolds Tobacco Co. Tobacco. 2,869,557, 1-20-59, Cl. 131-144.
- Teague, Claude E., Jr., to R. J. Reynolds Tobacco Co. Tobacco. 2,872,360, 2-3-59, Cl. 131-17.
- Teague, Claude E., Jr., to R. J. Reynolds Tobacco Co. Process of preparing sodium salts of substituted malonic acids. 2,899,464, 8-11-59, Cl. 260-515.
- Teague, Minnie E. Disposable T-binder. 2,891,545, 6-23-59, Cl. 128-291.
- Teague, Walter D., Jr., to Bendix Aviation Corp. Oil cooler emergency by-pass valve. 2,896,919, 7-28-59, Cl. 257-2.
- Teague, William L., and J. H. McWhirter, to Westinghouse Electric Corp. Transformer core structures. 2,892,169, 6-23-59, Cl. 336-213.
- Teaf, John H., to Radio Condenser Co. Tuner. 2,898,767, 8-11-59, Cl. 74-10.33.
- Teahen, James M.,  $\frac{1}{4}$  to J. M. Teahen, Jr.,  $\frac{1}{4}$  to M. E. Teahen, and  $\frac{1}{4}$  to M. E. Conrad. Flushing tank. 2,909,787, 10-27-59, Cl. 4-68.
- Teahen, James M., Jr.: *See*—
- Teahen, James M. 2,909,787.
- Teahen, Margaret E.: *See*—
- Teahen, James M. 2,910,787.
- Teal, Alvin P.: *See*—
- Leuszier, Wayne E., Wood, and Teal. 2,868,313.
- Leuszier, Wayne E., Wood, and Teal. 2,868,314.
- Teal, Gordon K., to Bell Telephone Laboratories, Inc. Method of making electrical resistors. 2,901,381, 8-25-59, Cl. 117-221.
- Teal, Lewis: *See*—
- Ward, Marshall L., and Teal. 2,879,731.
- Teal, William G.: *See*—
- Summers, Lumus L. 2,917,283.
- Tear, James D., to Sperry Rand Corp. Motion reproducing mechanism. 2,874,542, 2-24-59, Cl. 60-52.
- Teare, William H.: *See*—
- Bondley, Ralph J., and Teare. 2,900,541.
- Teas, John A., Jr. Device for supporting items inside a medicine cabinet. 2,888,146, 5-26-59, Cl. 211-86.
- Teasdale, Barton F.: *See*—
- Rubin, Leon J., Teasdale, and Mertens. 2,910,363.
- Tebb, Bernard: *See*—
- Wood, John G., Hainsworth, and Tebb. 2,870,886.
- Tebb, Bernard, and C. H. Perry, to Mastabar Mining Equipment Co. Ltd. Props, especially for use in coal mines. 2,895,454, 7-21-59, Cl. 121-40.
- Tebboth, John A., and M. K. Johnson, to The British Oxygen Co. Ltd. Preparation of 1-alkynes. 2,908,732, 10-13-59, Cl. 260-678.
- Tebbutt, Eric, to Rose Brothers (Gainsborough) Ltd. Packaging of liquids. 2,893,187, 7-7-59, Cl. 53-180.
- Teddington Development Corp.: *See*—
- Black, Richard M. 2,914,363.
- Tecalemit Ltd.: *See*—
- Jackson, Harold E. 2,874,238.
- Jackson, Harold E. 2,905,090.
- Jackson, Harold E. 2,905,270.
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- Tecfab, Inc.: *See*—
- Greene, William L. 2,902,854.
- Tech-Art Inc.: *See*—
- Lloyd, Allen H. 2,882,803.
- Lloyd, Allen H. 2,883,915.
- Techler, Thomas W., to The Lindsay Co. Float valve. 2,904,062, 9-15-59, Cl. 137-391.
- Technical Design and Development Co., Inc.: *See*—
- Strong, Clinton S. 2,887,040.
- Technical Enterprises Inc.: *See*—
- Redniss, Alexander, Goodman, and Cantor. 2,871,093.
- Technical Oil Tool Corp.: *See*—
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- Technical Operations, Inc.: *See*—
- Goldberg, Gershon M., and Lu Valle. 2,875,050.
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- Technical Research Co.: *See*—
- Hackmyer, Saul A. 2,870,742.
- Lent, Robert P., and G. W. Anderton. 2,910,952.
- Technical Waxes Ltd.: *See*—
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- Technicolor Corp.: *See*—
- Dixon, Thomas P., and Howse. 2,897,259.
- Goldberg, Richard J., and Olds. 2,870,704.
- Schreiber, William F. 2,916,549.
- Technicon Chromatography Corp.: *See*—
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- Technicon Instruments Corp.: *See*—
- Isreeli, Jack. Re. 24,736.
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- Technicon International Ltd.: *See*—
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- Kling, Nelson G. 2,872,893.
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- Whitehead, Edwin C., and Ferrari. 2,883,103.
- Whitehead, Edwin C., and Ferrari. 2,899,280.
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- Technitrol Engineering Co., Inc.: *See*—
- Schurr, Vernon D. Re. 24,756.
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- Nunn, Howard D. 2,914,743.
- Nunn, Howard D. 2,916,715.
- Tecklenburg, Harry, to The Procter & Gamble Co. Process for making detergent composition. 2,889,283, 6-2-59, Cl. 252-89.
- Tecnofax Corp.: *See*—
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- Tecumseh Products Co.: *See*—
- Richardson, John W. 2,873,731.
- Touborg, Jens. 2,918,210.
- Tedesco, Jack L. Automatic circuit closer for electrical systems. 2,918,550, 12-22-59, Cl. 200-118.
- Teel, Lawrence H., to Swift & Co. Hide stamper. 2,875,684, 3-3-59, Cl. 101-3.
- Teel, Paul H.: *See*—
- Webb, Derrel D., and Teel. 2,904,114.
- Teenform Foundations, Inc.: *See*—
- Sloate, Morton. 2,881,765.
- Tee-Pak, Inc.: *See*—
- Lawlor, Joseph R. 2,897,087.
- Sporka, Arthur F. 2,919,059.
- Teepie, Frank A., Jr., to Atlantic Steel Co. Bale tie. 2,867,872, 1-13-59, Cl. 24-26.
- Teer, Kees: *See*—
- Haantjes, Johan, and Teer. 2,904,628.
- Haantjes, Johan, Teer, and de Vrijer. 2,912,492.
- Valeton, Josue J. P., de Vrijer, and Teer. 2,870,248.
- Teer, Kees, to North American Philips Co., Inc. Device for simultaneously producing a plurality of television information signals. 2,907,817, 10-6-59, Cl. 178-5.4.
- Teer, Kees, to North American Philips Co., Inc. Multiplex transmission system. 2,907,820, 10-6-59, Cl. 178-6.8.
- Teer, Kees, and J. J. P. Valeton, to North American Philips Co., Inc. Television signal transmission system. 2,912,491, 11-10-59, Cl. 178-6.
- Teeter, Howard M.: *See*—
- Cowan, John C., and Teeter. 2,901,469.
- Gast, Lyle E., Cowan, and Teeter. 2,873,255.
- Teeter, Howard M., W. J. Schneider, and L. E. Gast, to United States of America, Agriculture. Coating compositions. 2,889,309, 6-2-59, Cl. 260-45.9.
- Teeter, Howard M., M. J. Danzig, and J. C. Cowan, to United States of America, Agriculture. Addition products of fatty acids and unsaturated nitro compounds. 2,901,495, 8-25-59, Cl. 260-404.
- Teeter, Wallis L. High power broadband waveguide switch. 2,869,081, 1-13-59, Cl. 333-7.
- Teetor, Herman C. Electric plug with disabling means. 2,879,494, 3-24-59, Cl. 339-37.
- Teetor, Macy O. Magnetic catch. 2,910,319, 10-27-59, Cl. 292-251.5.



- Teetor, Ralph R., to Perfect Circle Corp. Vehicle speed maintaining and maximum speed controlling device. 2,916,100, 12-8-59, Cl. 180-82.1.
- Teetzel, Frederick M.: *See—*  
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- Tefs, Edwin O., to The Chapman Valve Mfg. Co. Valve apparatus. 2,898,932, 8-11-59, Cl. 137-340.
- Tegeler, Frederick A. Burglar alarm system. 2,907,828. 10-6-59, Cl. 179-5.
- Tegen, George R., to Giddings & Lewis Machine Tool Co. Method of flame hardening. 2,867,556, 1-6-59, Cl. 148-21.56.
- Tegerdine, George E., to Bedco International Ltd. Clothes washing machines having independent centrifuge. 2,887,864, 5-26-59, Cl. 68-26.
- Tegner, Carl-Axel E.: *See—*  
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- Teibel, Martin J.: *See—*  
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- Teich, Julius R., to Superior Displays, Inc. Humidifier for display cabinet. 2,884,201, 4-28-59, Cl. 239-35.
- Teicher, Harry, to Monsanto Chemical Co. Mold dressing for casting non-ferrous metals. 2,879,169, 3-24-59, Cl. 106-38.27.
- Teichert, Conrad A., to General Motors Corp. Fluid injection device. 2,898,051, 8-4-59, Cl. 239-533.
- Teichman, Rudolph R., to Link-Belt Co. Rotary dryers and/or coolers. 2,870,547, 1-27-59, Cl. 34-129.
- Teichmann, Charles F., to Texaco Development Corp. Manufacturing of wallboard. 2,889,242, 6-2-59, Cl. 162-10.
- Teichner, Stanislas J., to National Research Council. Production of active oxides of large specific surface area. 2,888,323, 5-26-59, Cl. 23-143.
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- Teiser, Sidney, and W. R. Sassaman, to Lawyers' Co-Operative Publishing Co. Combined photographic developing and fixing bath. 2,897,080, 7-28-59, Cl. 96-61.
- Teitel, Robert J., to United States of America, Atomic Energy Commission. Liquid metal compositions containing uranium. 2,883,330, 4-21-59, Cl. 204-193.2.
- Teitel, Robert J., to United States of America, Atomic Energy Commission. Uranium bismuthide dispersion in molten metal. 2,910,417, 10-27-59, Cl. 204-193.2.
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- Teitelbaum, Ben: *See—*  
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- Teixeira, Frank M. Loading and unloading apparatus for vehicles. 2,904,196, 9-15-59, Cl. 214-84.
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- Tek, Mehmet R.: *See—*  
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- Tek, Mehmet R., and S. J. Marwil, to Phillips Petroleum Co. Separation and recovery of oil from oil sands. 2,910,424, 10-27-59, Cl. 208-11.
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- Telautograph Corp.: *See—*  
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- Telecomputing Corp.: *See—*  
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- Telecontrols-International, Inc.: *See—*  
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- Teleky, Joseph G., to Charles Ross & Son Co. Floating roll mill with two point direct hydraulic pressure control. 2,872,122, 2-3-59, Cl. 241-111.
- Telematics, Inc.: *See—*  
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- Terrell, Basil J., and F. J. Bayley, to Parsons and Marine Engineering Turbine Research and Development Association. Means for cooling gas turbines. 2,873,087, 2-10-59, Cl. 253—39.15.
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- Terry Industries, Inc.: *See*—  
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- Testo, Nate E. Telescoping tubular expander and cylindrical pilot for expanding metal tubing in situ when end of tubing is clamped around inserted pilot. 2,898,970, 8-11-59, Cl. 153—80.5.
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- Tetart, Emile: *See*—  
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- Teter, John W., and C. D. Keith, to Engelhard Industries, Inc. Catalyst preparation. 2,885,369, 5-5-59, Cl. 252—466.
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- Tetro, Roland G., to The E. Ingraham Co. Escapement. 2,871,702, 2-3-59, Cl. 74—1.5.
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- Tewksbury, Robert A., and L. C. Wolford, to Duncan Electric Co., Inc. Dual-range meters. 2,885,639, 5-5-59, Cl. 324—115.
- Teworte, Wilhelm: See—  
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 Millis, Edwin G. 2,899,539.  
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- Thayer, Harry C., Jr., to Western Electric Co., Inc. Strip-tinning device. 2,884,896, 5-5-59, Cl. 118-211.
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- Thayer, Louis C., to Beckman Instruments, Inc. Measuring cell. 2,892,976, 6-30-59, Cl. 324-30.
- Thayer, Louis C., and M. Czuba, Jr., to Beckman Instruments, Inc. Method for measuring traces of dissolved oxygen. 2,901,327, 8-25-59, Cl. 23-230.
- Thayer, Louis C., and M. W. Greene, to Beckman Instruments, Inc. Apparatus for the measurement of fluid conductivity. 2,902,639, 9-1-59, Cl. 324-30.
- Thayer, Robert W., deceased; E. C. Thayer, executrix. Bobbin. 2,893,659, 7-7-59, Cl. 242-130.
- Thayer Scale Corp.: *See*—  
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- Thayer, Warren L.: *See*—  
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- Thelle, Richard, to Pye Ltd. Television camera tubes. 2,878,416, 3-17-59, Cl. 315-10.
- Thelle, Richard, to Pye Ltd. Television pick-up tube. 2,880,338, 3-31-59, Cl. 313-65.
- Theimer, Ernst T., to Van Ameringen-Haebler, Inc. Terpene alcohols and compounds thereof, and processes for making same. 2,867,668, 1-6-59, Cl. 260-631.5.
- Theis, Elmer E. Chill pad for an ingot mold. 2,878,538, 3-24-59, Cl. 22-139.
- Theis, Martin: *See*—  
 Rumberg, Alfred, Damgen, and Theis. 2,872,494.
- Theiss, John B.: *See*—  
 Lehman, James N., and Theiss. 2,867,762.
- Theisz, Emil: *See*—  
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- Thelen, Josef, to The Babcock & Wilcox Co. Panel wall construction. 2,870,880, 1-27-59, Cl. 189-34.
- Thelin, Jack H.: *See*—  
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- Thelin, Jack H., to American Cyanamid Co. Sulfur containing hexachloronaphthalenes. 2,905,695, 9-22-59, Cl. 260-327.
- Them, Edward G., to Therm-O-Disc, Inc. Thermostatic controls. 2,879,357, 3-24-59, Cl. 200-138.
- Then, Edward O., to American Can Co. Carrying device for containers. 2,878,930, 3-24-59, Cl. 206-65.
- Then, Edward O., to American Can Co. Key for opening tearing strip containers. 2,884,158, 4-28-59, Cl. 220-52.
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- Thene, Anthony A. Material spreading attachment for truck. 2,872,080, 2-3-59, Cl. 222-178.



- Theobald, Albert P., to Waldorf Paper Products Co. Method and apparatus for forming triangular posts. 2,900,882, 8-25-59, Cl. 93—84.
- Theoclitus, Gregory, to The Air Preheater Corp. Heat accumulator for regenerator. 2,891,774, 6-23-59, Cl. 257—6.
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- Ehrhart, Gustav, Ruschig, Aumuller, Stein, and Ther. 2,912,460.
- Thereau, Donald W., and H. A. Nordstrom. Water target. 2,874,967, 2-24-59, Cl. 273—102.1.
- Therien, George H. Combination screened door. 2,888,071, 5-26-59, Cl. 160—92.
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- Johnson, John A. Re. 24,682.
- Thermel, Inc.: *See*—
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- Thermet, Robert, and L. Parvi, to Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Manufacture of tetrachloroethylene and carbon tetrachloride. 2,890,250, 6-9-59, Cl. 260—654.
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- Therm-O-Disc, Inc.: *See*—
- Them, Edward G. 2,879,357.
- Thermo Electric Co., Inc.: *See*—
- Ghiglia, Joseph J. 2,897,702.
- Klassen, Stephen L. 2,897,470.
- Thermo Electron Engineering Corp.: *See*—
- Hatsopoulos, George N., and Kaye. 2,915,652.
- Thermofrigor, societe anonyme: *See*—
- Neuhaus, Jean, Kemeny, and Ranky. 2,919,215.
- Thermoid Co.: *See*—
- Harrison, Joseph W., and Asay. 2,903,744.
- McCluer, John D. 2,884,343.
- Therm-O-Lab Corp.: *See*—
- Kwate, Bernard. 2,882,187.
- Thermometer Corp. of America: *See*—
- Rieger, Frederic L. 2,873,536.
- Thermo Projects Inc.: *See*—
- Haynes, George P., and Letvin. 2,889,284.
- Theros, William J.: *See*—
- Cahn, Harold, and Theros. 2,867,220.
- Thesen, Carolyn M.: *See*—
- Thesen, William H. 2,897,775.
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- Thesing, Jan, to E. Merck Akt., Darmstadt. Process of manufacturing isoquinolinol and 5,6,7,8-tetrahydro-isoquinolinolium salts. 2,891,955, 6-23-59, Cl. 260—286.
- Thesing, Jan, to E. Merck Aktiengesellschaft. Process for preparing 3,4-dihydro-1,2-pyrano-(3,4-c)-pyridone-(6). 2,909,529, 10-20-59, Cl. 260—297.
- Theurer, Henry C.: *See*—
- Bacon, Donald D., Scaff, and Theurer. 2,871,111.
- Theurer, Henry C., to Bell Telephone Laboratories, Inc. Method of preparing silicon. 2,901,325, 8-25-59, Cl. 23—223.5.
- Theurer, Josef: *See*—
- Plasser, Franz, and Theurer. 2,872,878.
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- Thevenaz, Jean, to Paillard S.A. Machine for the magnetic recording and reproduction of sound on a perforated strip. 2,882,046, 4-14-59, Cl. 271—2.3.
- Thew Shovel Co., The: *See*—
- Von Mehren, Oswald. 2,893,791.
- Wikoff, Ramon F., and Turk. 2,893,792.
- Zeilman, Roy H. 2,897,021.
- Thias, Edwin P., to Standard Coil Products Co., Inc. Electrical wafer switches. 2,870,274, 1-20-59, Cl. 200—11.
- Thibault, Bernard P., to Societe Anonyme dite: Pneumatiques & Caoutchouc Manufacture Kleber Colombes. Semi-flexible pipes and pipe connecting means. 2,911,236, 11-3-59, Cl. 285—149.
- Thibodeau, John L. Tractor drive and suspension mechanism. 2,901,051, 8-25-59, Cl. 180—41.
- Thibodeau, Milford E. Fishhook. 2,897,628, 8-4-59, Cl. 43—89.
- Thiebault, Bernard, to Societe d'Exploitation des Plastiques. Tab assembly for articles made of synthetic resins and the like. 2,916,790, 12-15-59, Cl. 24—265.
- Thiede, Ronald W., and W. H. Nash, to McGraw-Edison Co. Fuse cutout construction. 2,881,288, 4-7-59, Cl. 200—114.
- Thiegs, Bernard J., to The Dow Chemical Co. Treatment of soil by fumigant and foam. 2,916,855, 12-15-59, Cl. 47—58.
- Thiegs, Bernard J., and N. Wright, to The Dow Chemical Co. Shielding plants from frostation by use of foam. 2,875,555, 3-3-59, Cl. 47—2.
- Thiel, Alfons, to Vogt & Hartmann. Machine for shaping thermoplastic sheets. 2,912,718, 11-17-59, Cl. 18—19.
- Thiel, Charles G., to Riker Laboratories, Inc. Dispensing device. 2,886,217, 5-12-59, Cl. 222—394.
- Thiel, Joseph A. Conduit holders for use in supporting electrical conduit, armored cable and the like. 2,885,169, 5-5-59, Cl. 248—71.
- Thiel, Max: *See*—
- Asinger, Friedrich, and Thiel. 2,879,273.
- Asinger, Friedrich, Thiel, and Pallas. 2,888,487.
- Asinger, Friedrich, Thiel, Schroder, and Heckling. 2,870,158.
- Schade, Hubert, and Thiel. 2,886,571.
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- Thiele, Hans, to Spinnfaser Akt. Method of fluffing a wet fleece of staple fiber and a device for carrying out same. 2,892,219, 6-30-59, Cl. 19—65.
- Thiele Kaolin Co.: *See*—
- Billue, Robert F., and Williamson. 2,905,643.
- Thielemann, Rudolf H., to Sierra Metals Corp. High temperature tantalum base alloys. 2,877,112, 3-10-59, Cl. 75—174.
- Thielemann, Rudolf H., to Sierra Metals Corp. High temperature tantalum-columbium base alloys. 2,907,654, 10-6-59, Cl. 75—174.
- Thielen, Anton, and E. Kochjohann, to Vemag, Verdener Maschinen-und Apparatebau, Zweigniederlassung der Sudostholz G.m.b.H. Metz & Co. Apparatus for stuffing sausage skins and the like. 2,889,574, 6-9-59, Cl. 17—40.
- Thielsch, Helmut J., to Grinnell Corp. Film holder for radiographic examination of pipe welds. 2,905,824, 9-22-59, Cl. 250—68.
- Thiem, Eugene T., and L. G. Zechlin, to Continental Can Co., Inc. Blanking and stacking machine. 2,881,836, 4-14-59, Cl. 164—204.
- Thiemann, Albert E., and H. Hainzl. Mechanisms for periodically feeding materials in carefully metered quantities. 2,891,175, 6-16-59, Cl. 307—112.
- Thieme, John W., and P. J. McDonnell; said McDonnell assor. to said Thieme. Finishing machine. 2,875,676, 3-3-59, Cl. 94—45.
- Thieme, John W., and P. J. McDonnell, said McDonnell assor. to said Thieme. Planetary clutching brake. 2,882,806, 4-21-59, Cl. 94—45.
- Thieme, John W., and P. J. McDonnell, said McDonnell assor. to said Thieme. Lower unit for concrete finisher. 2,910,923, 11-3-59, Cl. 94—45.
- Thieme, Peter. Frames for diapositives or the like. 2,889,645, 6-9-59, Cl. 40—152.
- Thiene, Carl G., and B. G. Bostrom, to Reynolds Pen Co. Printing machine. 2,873,013, 2-10-59, Cl. 197—2.
- Thienemann, Rolf A., to Fairchild Camera & Instrument Corp. Control unit for composing machines. 2,872,025, 2-3-59, Cl. 199—18.
- Thierfelder, Rudolph, to Karl Lieberknecht, Inc. Straight knitting machine operation. 2,888,814, 6-2-59, Cl. 66—82.
- Thierman, Irwin B.: *See*—
- Hochstetler, Robert D., and Thierman. 2,887,884.
- Thierman, Irwin B., to Iron Firearm Mfg. Co. Gyroscope. 2,911,832, 11-10-59, Cl. 74—5.7.
- Thiers, Judith G.: *See*—
- Thiers, Ralph E., and J. G. 2,909,277.
- Thiers, Ralph E., and J. G. Dental floss and dispenser. 2,909,277, 10-20-59, Cl. 206—56.
- Thies, Alfred F. B. Drier apparatus. 2,871,574, 2-3-59, Cl. 34—54.
- Thieser, Robert E.: *See*—
- Caudle, Howard P., McGrath, and Thieser. 2,911,884.
- Thiessen, George J. Atmospheric suction roll silencer device. 2,877,694, 3-17-59, Cl. 92—53.
- Thillaimuthu, Jeyaretnam. Alternating current generator computing mechanism. 2,914,939, 12-1-59, Cl. 73—136.
- Thilmany Pulp & Paper Co.: *See*—
- Downs, Martin L., and Schmitt. 2,868,685.
- Thilo, Peer: *See*—
- Zinke, Otto, Thilo, and Krueger. 2,908,876.
- Thiokol Chemical Corp.: *See*—
- Bronaugh, Hugh J. 2,880,058.
- Cohen, Murray S., and Pearl. 2,894,803.
- Condello, Vincent, and White. 2,910,266.
- Davies, Harold. 2,909,032.
- Felberg, Robert S., and Gould. 2,900,788.
- Fettes, Edward M., and Bertozzi. 2,875,182.
- Ledbetter, James D., Kircher, and Novotny. 2,894,692.
- Nevers, Ashley D., and Fettes. 2,869,994.
- Winternitz, Paul F. 2,875,028.
- Thiolat, Robert M. Cardboard boxes and the like. 2,907,513, 10-6-59, Cl. 229—31.
- Thirsk, James H.: *See*—
- Newhard, Nelson J., Jr., and Thirsk. 2,867,514.
- Thirtle, John R.: *See*—
- Bush, Walter M., Salminen, and Thirtle. 2,908,573.
- Thiry, Leon F. Rubber bushing for pivotal suspension systems. Re. 24,758, 12-22-59, Cl. 287—85.
- Thoeming, George R., to Wonder Products Co. Foot for stand or base. 2,888,775, 6-2-59, Cl. 45—137.
- Thoeming, George R., to Wonder Products Co. Hobby horse. 2,891,792, 6-23-59, Cl. 272—52.
- Tholl, David M., and N. J. Sorensen. Self discharging base bearing centrifugal. 2,889,930, 6-9-59, Cl. 210—369.
- Tholstrup, Henry L., to United States of America, Navy. Tongue and notch cutting device for perforated tape. 2,876,943, 3-10-59, Cl. 225—7.
- Tholstrup, Henry L., to Commercial Controls Corp. Power driven type action for character-by-character printers. 2,900,063, 8-18-59, Cl. 197—17.



- Tholstrup, Henry L., to Commercial Controls Corp. Type basket and type lever mounting. 2,900,064, 8-18-59, Cl. 197-39.
- Tholstrup, Henry L., to Commercial Controls Corp. Carriage and platen control for typewriters. 2,900,065, 8-18-59, Cl. 197-73.
- Tholstrup, Henry L., to Commercial Controls Corp. Carriage control mechanism for power driven printer. 2,900,066, 8-18-59, Cl. 197-82.
- Tholstrup, Henry L., to Commercial Controls Corp. Carriage mechanism for typewriters. 2,913,090, 11-17-59, Cl. 197-60.
- Thom, Clarence M. Machine for forming holes in compacted lawn soil. 2,918,130, 12-22-59, Cl. 172-22.
- Thom, Wenzel W.,  $\frac{1}{2}$  to C. D. Jones. Railing assembly. 2,904,314, 9-15-59, Cl. 256-65.
- Thoma, Hans. Control means for infinitely variable transmissions. 2,872,827, 2-10-59, Cl. 74-335.
- Thoma, Hans. Hydrostatic transmission. 2,872,876, 2-10-59, Cl. 103-173.
- Thoma, Hans. Drive for track-laying vehicles. 2,874,591, 2-24-59, Cl. 74-720.5.
- Thoma, Hans. Hydraulic motors and pumps. 2,916,334, 12-8-59, Cl. 308-170.
- Thoma, Hans J. Hydraulic power transmissions. 2,871,798, 2-3-59, Cl. 103-162.
- Thoma, Oswald: See—
- Bowers, Eric H., and Thoma. 2,896,411.
- Brown, Peter H. 2,900,921.
- Thoma, Richard W.: See—
- Donin, Milton N., Fried, and Thoma. 2,881,189.
- Fried, Josef, and Thoma. 2,868,694.
- Fried, Josef, and Thoma. 2,902,498.
- Fried, Josef, Thoma, Perlman, and Gerke. 2,879,277.
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- Thoma, Richard W., and J. Fried, to Olin Mathieson Chemical Corp.  $\Delta^4$  pregnadiene-11a,20-diol-3-one. 2,880,217, 3-31-59, Cl. 260-397.45.
- Thoma, Wilhelm: See—
- Bernhard, Hermann, Thoma, and Genth. 2,910,400.
- Thomae, Dr. Karl, G.m.b.H.: See—
- Berg, Alex, and Fiedler. 2,886,488.
- Keck, Johannes. 2,872,382.
- Kottler, August, and Ohnacker. 2,884,426.
- Neumann, Günther, and Kottler. 2,872,379.
- Ohnacker, Gerhard, and Kottler. 2,895,992.
- Seeger, Ernst, and Kottler. 2,871,242.
- Thomae, Dr. Karl, G. m. b. H., Chemisch-Pharmazeutische Fabrik: See—
- Kottler, August, and Scheffler. 2,867,664.
- Thomann, Bernard M. Surveying apparatus. 2,896,327, 7-28-59, Cl. 33-74.
- Thomann, Erwin, to A. G. Balmholz Steinbrüche & Hartschotterwerke. Bituminous roadmaking material. 2,906,633, 9-29-59, Cl. 106-82.
- Thomas, Alan P. L., to Edward J. Skinner Ltd. Planetary transfer machines. 2,903,120, 9-8-59, Cl. 193-19.
- Thomas, Albert G., to Industrial Controls Corp. Motor control circuit. 2,870,388, 1-20-59, Cl. 318-138.
- Thomas, Albert G., to Industrial Controls Corp. Compensating system for drives. 2,871,767, 2-3-59, Cl. 90-22.
- Thomas, Albert G., to Industrial Controls Corp. Backlash compensator. 2,880,625, 4-7-59, Cl. 74-440.
- Thomas, Albert G., to Industrial Controls Corp. Automatic control devices. 2,887,640, 5-19-59, Cl. 318-138.
- Thomas, Albert G. Cooking device. 2,898,905, 8-11-59, Cl. 126-374.
- Thomas, Albert G., to Industrial Controls Corp. Counting Circuit. 2,901,668, 8-25-59, Cl. 315-84.5.
- Thomas, Albert G. Power driven lawn mower and trimmer. 2,917,890, 12-22-59, Cl. 56-25.4.
- Thomas, Albert L., Jr., and S. Oglesby, Jr., to Southern Research Institute. Process and apparatus for producing non-woven sheets of fibrous materials. 2,917,787, 12-22-59, Cl. 19-155.
- Thomas, Alexander, to Tracerlab, Inc. Nuclear electret battery. 2,876,368, 3-3-59, Cl. 310-3.
- Thomas, Alexander, to Tracerlab, Inc. Radioactive battery. 2,900,535, 8-18-59, Cl. 310-3.
- Thomas, Arthur J. Pool with inflatable wall. 2,896,221, 7-28-59, Cl. 4-172.
- Thomas, Arthur M., Jr., and R. L. Weeks, to Esso Research and Engineering Co. Upgrading light virgin naphtha. 2,910,428, 10-27-59, Cl. 208-130.
- Thomas Associates: See—
- Cushenberry, Edward B. 2,913,699.
- Thomas, Barclay L.,  $\frac{1}{2}$  to G. W. Olson. Battery energized, motor-driven vehicle. 2,879,858, 3-31-59, Cl. 180-19.
- Thomas, Benjamin W.: See—
- Beaugh, John B., Schiller, and Thomas. 2,903,417.
- Moore, Joe F., and Thomas. 2,905,616.
- Thomas & Betts Co., The: See—
- Badeau, Carroll A. 2,906,017.
- Bergan, Martin D. 2,907,978.
- Curtiss, Lawrence M. 2,900,435.
- Thomas, Beuford W.,  $\frac{1}{2}$  to C. L. Hurt. Door bell actuated light. 2,912,685, 11-10-59, Cl. 340-377.
- Thomas, Bruce K.: See—
- Callanen, Frederick B., and Thomas. 2,905,451.
- Thomas, Charles G.: See—
- Hodges, Stephen B., Lewis, and Thomas. 2,886,172.
- Thomas, Charles L., to Sun Oil Co. High octane gasoline manufacture. 2,908,629, 10-13-59, Cl. 208-66.
- Thomas, Charles L., to Sun Oil Co. Process for polymerizing olefins. 2,912,420, 11-10-59, Cl. 260-93.7.
- Thomas, Charles K., to The Greist Mfg. Co. Buttonhole attachment. 2,894,467, 7-14-59, Cl. 112-77.
- Thomas, Chester A.: See—
- Merritt, Thomas W., and Thomas. 2,869,512.
- Thomas, Chester A., to Babson Bros. Co. Milk pipe line washing system. 2,878,819, 3-24-59, Cl. 134-57.
- Thomas, Chester L. Massage tables. 2,904,036, 9-15-59, Cl. 128-33.
- Thomas, David F., and R. A. Hill, to Watrous Co. Pressure relief valve. 2,894,531, 7-14-59, Cl. 137-489.
- Thomas, David F., and R. A. Hill, to Watrous Co. Electrically operated transfer valve for centrifugal pump. 2,900,918, 8-25-59, Cl. 103-106.
- Thomas, David F., and R. A. Hill, to Watrous Co. Pumps. 2,905,096, 9-22-59, Cl. 103-136.
- Thomas, David G. A.: See—
- Harding, John K., and Thomas. 2,906,290.
- Thomas, David L.: See—
- Parker, Eric, and Thomas. 2,878,379.
- Thomas, Dimitri. Bench saw attachments for multiple angle cutting. 2,905,210, 9-22-59, Cl. 143-169.
- Thomas, Donald E., to Bell Telephone Laboratories, Inc. Transistor characteristic curve tracers. 2,896,168, 7-21-59, Cl. 324-158.
- Thomas, Donald F.: See—
- Butler, Chester J., Ermish, Linsley, and Thomas. 2,917,834.
- Thomas, Earl E. Container support. 2,908,468, 10-13-59, Cl. 248-226.
- Thomas, Earl R., to Consolidated Edison Co. of New York, Inc. Mobile gas detecting apparatus. 2,879,663, 3-31-59, Cl. 73-26.
- Thomas Electronics Inc.: See—
- Seats, Peter, and Appleberry. 2,906,639.
- Seats, Peter, and Connolly. 2,905,571.
- Seats, Peter, and Connolly. 2,909,444.
- Soncrant, Joseph J. 2,889,169.
- Thomas, Eric L., and R. J. A. Paul, to Short Brothers and Harland Ltd. Analogue computer. 2,918,218, 12-22-59, Cl. 235-182.
- Thomas, Ernst, and B. Aurin, said Aurin, assor. to Thomas. Method for the continuous removal of the scaly matter from hot-rolled, band-like iron products. 2,913,808, 11-24-59, Cl. 29-81.
- Thomas, Eugene P.: See—
- Guentner, Robert L., and Thomas. 2,909,665.
- Thomas, Frank G., and W. M. Millar, to International Telephone and Telegraph Corp. Antenna unit. 2,889,552, 6-2-59, Cl. 343-761.
- Thomas, Frank W.: See—
- Bonza, Louis F., and Thomas. 2,877,201.
- Simon, Eli, and Thomas. 2,894,919.
- Simon, Eli, and Thomas. 2,897,641.
- Thomas, Franklin L. V-trap. 2,894,354, 7-14-59, Cl. 43-101.
- Thomas, Fritts W., to Monsanto Chemical Co. Cryptocrystalline calcium pyrophosphate and dentifrice composition comprising the same. 2,901,400, 8-25-59, Cl. 167-93.
- Thomas, George R. Nitration catalyst. 2,877,263, 3-10-59, Cl. 260-482.
- Thomas, George W. Marshmallow and hot dog roasting stick. 2,876,694, 3-10-59, Cl. 99-421.
- Thomas, Glenn M. and G. L. Signal apparatus. 2,888,669, 5-26-59, Cl. 340-326.
- Thomas, Gordon E.: See—
- Williams, Frederic C., Kilburn, Edwards, and Thomas. 2,913,175.
- Thomas, Gordon H.: See—
- Fried, Josef, and Thomas. 2,901,494.
- Jones, Ewart R. H., Henbest, Woods, Hathway, and Thomas. 2,897,213.
- Thomas, Grant L.: See—
- Thomas, Glenn M. and G. L. 2,888,669.
- Thomas, Gwilym G.: See—
- Place, James A., Thomas, and White. 2,914,906.
- Thomas, Harry E., to International Telephone and Telegraph Corp. Magnetic pulse generating circuit. 2,906,895, 9-29-59, Cl. 307-106.
- Thomas, Henry. Automotive vehicle underground storage device. 2,901,130, 8-25-59, Cl. 214-16.1.
- Thomas, Henry A., to Ethyl Corp. Sludge deliquifying comparting press. 2,904,835, 9-22-59, Cl. 18-20.
- Thomas, Henry A., to Ethyl Corp. Treating high solids sludges. 2,912,827, 11-17-59, Cl. 60-97.
- Thomas, Herman J., to General Motors Corp. Door latch for pillarless automobile. 2,918,317, 12-22-59, Cl. 292-5.
- Thomas Hydraulic Speed Controls, Inc.: See—
- Thomas, John R. 2,899,035.
- Thomas Industries Inc.: See—
- Boutelle, Allen O. 2,906,864.
- McGinty, William K. 2,898,075.
- Thomas, Jesse B., and E. H. Wolff, to Reynolds Metals Co. Method of making serpentine tube finned heat exchanger and product. 2,908,070, 10-13-59, Cl. 29-157.3.
- Thomas, John E. Portable hay stack cutting machine. 2,908,971, 10-20-59, Cl. 30-166.



- Thomas, John M., to The Hoskins Mfg. Co. Method and apparatus for prolonging life of thermocouples. 2,915,575, 12-1-59, Cl. 136-4.
- Thomas, John P. Double roll mandrel. 2,890,002, 6-9-59, Cl. 242-75.4.
- Thomas, John R.: *See*—  
Crandall, Howard W., Hicks, Rubin, and Thomas. 2,916,349.  
Crandall, Howard W., and Thomas. 2,892,681.  
Harle, Oliver L., and Thomas. 2,892,784.  
Harle, Oliver L., and Thomas. 2,892,785.
- Thomas, John R., to Thomas Hydraulic Speed Controls, Inc. Variable speed and torque transmitting fluid clutch. 2,899,035, 8-11-59, Cl. 192-61.
- Thomas, John V. Multiple distribution valve. 2,896,662, 7-28-59, Cl. 137-538.
- Thomas, John W., to The Cleveland Vibrator Co. Vibrating means for material conveyor. 2,868,357, 1-13-59, Cl. 198-220.
- Thomas, Kenneth L.: *See*—  
Roth, Donald W., Thomas, and McKinsey. 2,919,341.
- Thomas, Lawrence E. Body recovering drag. 2,873,997, 2-17-59, Cl. 294-66.
- Thomas, Lawrence G., to International Standard Electric Corp. Monitoring means for reflector type aeriels. 2,897,493, 7-28-59, Cl. 343-703.
- Thomas, Lazarus D., to Libbey-Owens-Ford Glass Co. Electrically conducting glass unit and method of making same. 2,887,412, 5-19-59, Cl. 117-211.
- Thomas, Leon E., Jr., G. A. Gruss, and J. W. Huley, to International Instruments, Inc. Rotary selective switch. 2,900,462, 8-18-59, Cl. 200-11.
- Thomas, Leonard C.: *See*—  
Voegel, James E., and Thomas. 2,888,187.
- Thomas, Lewis C., to Bell Telephone Laboratories, Inc. Transistor comparator circuit for analog to digital code conversion. 2,909,676, 10-20-59, Cl. 307-88.5.
- Thomas, Lewis E. Tethering strap arrangement for animals. 2,909,154, 10-20-59, Cl. 119-109.
- Thomas, Lloyd E.: *See*—  
Tufford, Walter W., and Thomas. 2,875,927.
- Thomas, Lucius P., to Radio Corp. of America. Stabilized AGC system. 2,871,288, 1-27-59, Cl. 178-7.5.
- Thomas, Lucius P., to Radio Corp. of America. Electrical signal amplifiers. 2,913,521, 11-17-59, Cl. 178-7.3.
- Thomas, Lucius P., Jr., and C. W. Hoyt, to Radio Corp. of America. Inter-carrier sound buzz reducing circuit. 2,901,536, 8-25-59, Cl. 178-5.8.
- Thomas, Martha J.: *See*—  
Butler, Keith H., Homer, and Thomas. 2,878,137.  
Butler, Keith H., and Thomas. 2,919,365.
- Thomas, Martha J., and K. H. Butler, to Sylvania Electric Products Inc. Discharge lamp and phosphor. 2,901,647, 8-25-59, Cl. 313-25.
- Thomas, Morton I. Adjustable folding chair. 2,872,969, 2-10-59, Cl. 155-117.
- Thomas, Morton I., to Duralite Co., Inc. Folding chair. 2,887,150, 5-19-59, Cl. 155-139.
- Thomas, Nick. Articulated toy. 2,901,862, 9-1-59, Cl. 46-141.
- Thomas, Paul A., Jr. Flutter valve for drainage of the pleural cavity. 2,867,213, 1-6-59, Cl. 128-350.
- Thomas, Paul D.: *See*—  
Bavley, Abraham, Knuth, and Thomas. 2,886,544.
- Thomas, Paul M., to Builders Equipment Co. Apparatus for cubing building blocks. 2,869,737, 1-20-59, Cl. 214-6.
- Thomas, Paul M. Apparatus for cubing building blocks. 2,900,092, 8-18-59, Cl. 214-6.
- Thomas, Paul M., to Builder's Equipment Co. Method for cubing building blocks. 2,902,182, 9-1-59, Cl. 214-152.
- Thomas, Paul M., and L. W. P. Wright, to Builders Equipment Co. Pallet handler for concrete block machines. 2,896,800, 7-28-59, Cl. 214-16.4.
- Thomas, Paul P.: *See*—  
McFarland, Forest R., and Thomas. 2,873,980.
- Thomas, Paul R.: *See*—  
Lyons, Joseph F., Thomas, and Odell. 2,880,177.
- Thomas, Peter C., and J. C. Horst. Portable machine for shaping or contouring railway car axle bearing blocks. 2,896,513, 7-28-59, Cl. 90-26.
- Thomas, Philip A., and J. L. Welch, Jr., to Union Carbide Corp. Composition comprising unsaturated polyester, vinyl monomer and cyclic terpene, cured product thereof and process of preparing the cured product. 2,884,398, 4-28-59, Cl. 260-29.8.
- Thomas, Philip N., to Sun Oil Co. Removal of water from oil during storage. 2,903,421, 9-8-59, Cl. 208-187.
- Thomas, Philip W.: *See*—  
Altreuter, Royal K., Dowling, Racz, and Thomas. 2,875,138.
- Thomas, Ralph B., to Sylvania Electric Products Inc. Lamp base. 2,896,187, 7-21-59, Cl. 339-145.
- Thomas, Ralph B., and O. Mann, to Sylvania Electric Products Inc. Electric lamp base. 2,919,422, 12-29-59, Cl. 339-146.
- Thomas, Ralph H., to Colgate-Palmolive Co. Valve. 2,867,356, 1-6-59, Cl. 222-148.
- Thomas, Ralph H., to Colgate-Palmolive Co. Dispensing container for pressure-propelled products. 2,889,078, 6-2-59, Cl. 222-95.
- Thomas, Raymond W. Separable joint for tubular members. 2,890,073, 6-9-59, Cl. 287-119.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Paper forming section. 2,881,668, 4-14-59, Cl. 92-38.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Apparatus and method for de-watering stock on a Four-drummer type paper or board-making machine. 2,881,670, 4-14-59, Cl. 92-39.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Apparatus for making paper or paper board or similar fibrous product. 2,881,671, 4-14-59, Cl. 92-39.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Method and apparatus for manufacturing paper or fibrous board. 2,881,672, 4-14-59, Cl. 92-39.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Method and apparatus for de-watering aqueous pulp or stock in the manufacture of paper or board. 2,881,675, 4-14-59, Cl. 92-44.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Paper or board machine and method. 2,881,676, 4-14-59, Cl. 92-44.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Method and apparatus for manufacturing paper or similar fibrous product utilizing stock depositing spray means. 2,881,677, 4-14-59, Cl. 92-44.
- Thomas, Reginald J., to St. Anne's Board Mill Co. Ltd. Method and apparatus for making paper or paper board or similar fibrous product. 2,881,678, 4-14-59, Cl. 92-44.
- Thomas, Reginald J., and S. F. Smith, to St. Anne's Board Mill Co. Ltd. Paper or board product. 2,881,669, 4-14-59, Cl. 92-39.
- Thomas, Richard J., and D. J. Feilbach, to The Falk Corp. Oil-and-vapor shaft-seal. 2,916,312, 12-8-59, Cl. 286-5.
- Thomas, Richard W.: *See*—  
Fried, Josef, and Thomas. 2,914,543.
- Thomas, Robert D., and E. A. Burke, to United States of America, Air Force. Electrostatic precipitator sample counter. 2,916,626, 12-8-59, Cl. 250-83.6.
- Thomas, Robert E., to United States of America, Atomic Energy Commission. Multiplier circuit. 2,869,784, 1-20-59, Cl. 235-61.
- Thomas, Robert E., to United States of America, Atomic Energy Commission. Electronic multiplier circuit. 2,901,172, 8-25-59, Cl. 235-194.
- Thomas, Robert G.: *See*—  
Cleland, William J., Thomas, and Seijo. 2,893,963.  
Dischert, Robert A., and Thomas. 2,906,947.
- Thomas, Robert M.: *See*—  
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- Thomas, Robert M., to Olin Mathieson Chemical Corp. Purification of vinylene carbonate. 2,873,230, 2-10-59, Cl. 202-66.
- Thomas, Robert M., to Olin Mathieson Chemical Corp. Process for the stabilization of amino alcohols. 2,901,513, 8-25-59, Cl. 260-584.
- Thomas, Robert M., and G. M. Wagner, to Olin Mathieson Chemical Corp. Composition of matter useful in rendering cellulose resistant to creasing and wrinkling. 2,904,389, 9-15-59, Cl. 8-116.3.
- Thomas, Roy. Auxiliary transmissions. 2,886,982, 5-19-59, Cl. 74-745.
- Thomas, Roy L., Jr., to Rockwood Sprinkler Co. Control cable device with tensioning means. 2,874,588, 2-24-59, Cl. 74-501.
- Thomas, Samuel B., to Shell Development Co. Treating liquid with gas. 2,869,844, 1-20-59, Cl. 261-21.
- Thomas, Samuel O., J. A. Lowery, and V. L. Singleton, to American Cyanamid Co. Nucleocidin and the process of obtaining the same. 2,914,525, 11-24-59, Cl. 260-211.5.
- Thomas & Skinner, Inc.: *See*—  
Ireland, James R. 2,869,075.
- Thomas, Stanley O.: *See*—  
Fox, Gerald B., and Thomas. 2,880,941.
- Thomas, Stephen E., to The Magnavox Co. Freeze type solenoid. 2,897,414, 7-28-59, Cl. 317-159.
- Thomas, Thomas H., to Bendix Aviation Corp. Check valve. 2,888,035, 5-26-59, Cl. 137-517.
- Thomas, Thomas R., to Auto Research Corp. Lubrication. 2,917,132, 12-15-59, Cl. 184-6.
- Thomas, Tom. Subgrade planer. 2,901,843, 9-1-59, Cl. 37-108.
- Thomas, Walker H.: *See*—  
Ross, Harold D., Sarahan, Astrahan, Housman, and Thomas. 2,914,248.
- Thomas, Walter M.: *See*—  
Schuller, Walter H., Thomas, Moore, and House. 2,884,058.  
Wilson, Lucius H., Thomas, and Padbury. 2,884,057.
- Thomas, Walter M., to American Cyanamid Co. Copolymers of acrylonitrile. 2,895,949, 7-21-59, Cl. 260-80.5.
- Thomas, Walter M., F. A. V. Sullivan, and W. B. Hardy, to American Cyanamid Co. Process for polymerizing unsaturated compounds using a sulfonyl triazine as a catalyst. 2,883,371, 4-21-59, Cl. 260-85.5.
- Thomas, Walter W., to Hercules Powder Co. Propylene polymerization process. 2,909,510, 10-20-59, Cl. 260-93.7.
- Thomas, Walter W., to Hercules Powder Co. Olefin polymerization process. 2,909,511, 10-20-59, Cl. 260-93.7.
- Thomas, Wendell M., to General Motors Corp. Ice maker. 2,887,852, 5-26-59, Cl. 62-135.
- Thomas, William E.: *See*—  
Pabst, Rudolf, and Thomas. 2,915,843.  
Pabst, Rudolf, and Thomas. 2,915,935.



- Thomas, William E., to Prism Signs Inc. Shallow scintillating sign. 2,915,844, 12-8-59, Cl. 40—132.
- Thomas, William K. Hack saw and frame therefor. 2,912,025, 11-10-59, Cl. 145—34.
- Thomas, William M., and N. D. Tracy, to General Dynamics Corp. Optical alignment gage. 2,915,940, 12-8-59, Cl. 88—14.
- Thomasson, Leland T., to Boeing Airplane Co. Precision variable frequency dividers. 2,903,649, 9-8-59, Cl. 331—54.
- Thombs, Thomas S. Detachable handles. 2,905,500, 9-22-59, Cl. 294—34.
- Thome, Nicholas T.: See—  
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Stiles, Harry L., and Thome. 2,867,960.
- Thomiszser, Hubert J., to Cook Electric Co. Automatic check valve. 2,870,779, 1-27-59, Cl. 137—219.
- Thomka, Laddie M., to The Dow Chemical Co. Ethylene polymerization process. 2,906,742, 9-29-59, Cl. 260—94.9.
- Thommen, Hans: See—  
Ubezio, Lorenzo, and Thommen. 2,873,390.
- Thommen, Hans, to Akt. Brown, Boveri & Cie. Compressed air actuated electric switch. 2,873,331, 2-10-59, Cl. 200—148.
- Thommen, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Air-blast switch with auxiliary point of interruption for shunt resistances. 2,885,514, 5-5-59, Cl. 200—148.
- Thommen, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Air blast switch with auxiliary point of interruption for shunt resistance. 2,892,913, 6-30-59, Cl. 200—148.
- Thompson, Arthur M. Pipe fastening means. 2,875,969, 3-3-59, Cl. 248—72.
- Thompson, Arthur M. Pipe clamp. 2,901,199, 8-25-59, Cl. 248—72.
- Thompson, Arthur M. Conduit fastener. 2,904,293, 9-15-59, Cl. 248—72.
- Thompson, Barney G. Woodworking groove cutting machine. 2,870,806, 1-27-59, Cl. 144—136.
- Thompson, Bruce R., and D. M. Young, to Union Carbide Corp. Process for polymerizing completely halogen-substituted ethylenes. 2,877,217, 3-10-59, Cl. 260—92.1.
- Thompson, Carl D., to Phillips Petroleum Co. Seismometer testing apparatus. 2,917,706, 12-15-59, Cl. 324—73.
- Thompson, Charles B.: See—  
Simko, Frank A., Jr., and Thompson. 2,910,374.
- Thompson, Charles E.: See—  
Lewis, Emil H., and Thompson. 2,914,468.  
Wilchinsky, Zigmund W., and Thompson. 2,899,379.
- Thompson, Charles E., to Meier Electric and Machine Co., Inc. Propeller hub assembly. 2,900,202, 8-18-59, Cl. 287—52.4.
- Thompson, Charles E., J. Stewart, and A. W. Langer, Jr., to Esso Research and Engineering Co. Heavy oil conversion process. 2,873,245, 2-10-59, Cl. 208—56.
- Thompson, Charles T.: See—  
Curtis, John C., and Thompson. 2,908,482.
- Thompson, Clarence R., to Special Equipment Co. Freestone pitter. 2,868,251, 1-13-59, Cl. 146—28.
- Thompson, Clayton H. Combination momentary maintained switch. 2,872,542, 2-3-59, Cl. 200—86.5.
- Thompson, Crayton B., and D. T. Lyons, to Eastman Kodak Co. Treatment of photographic film for static resistance. 2,882,157, 4-14-59, Cl. 96—87.
- Thompson, Earl A. Bearing. 2,873,152, 2-10-59, Cl. 308—73.
- Thompson, Earl A. Bore finishing tool. 2,874,452, 2-24-59, Cl. 29—90.
- Thompson, Earl A. Valve lifter structure. 2,874,684, 2-24-59, Cl. 123—90.
- Thompson, Earl A. Valve tappet. 2,887,098, 5-19-59, Cl. 123—90.
- Thompson, Earl A. Centerless grinder attachment. 2,915,855, 12-8-59, Cl. 51—103.
- Thompson, Elbert O. Mouthpiece assembly for dental suction evacuators. Re. 24,693, 9-1-59, Cl. 32—33.
- Thompson, Elbert O. Mouthpiece assembly for dental suction evacuators. 2,873,528, 2-17-59, Cl. 32—33.
- Thompson, Elmer O., to Philco Corp. Tools. 2,896,605, 7-28-59, Cl. 125—16.
- Thompson, Ernest H., to Automatic Canteen Co. of America. Article dispensing machine. 2,874,872, 2-24-59, Cl. 221—112.
- Thompson, Ernest H. Coffee brewer. 2,899,885, 8-18-59, Cl. 99—289.
- Thompson, Eugene C., to Bell Telephone Laboratories, Inc. Transistor binary adders. 2,908,828, 10-13-59, Cl. 307—88.5.
- Thompson, Ezra C., and E. T. Jagger, to George Angus & Co. Setting rollers in spinning machines. 2,885,740, 5-12-59, Cl. 19—134.
- Thompson, George E. Illuminated ash receptacle. 2,871,341, 1-27-59, Cl. 240—2.
- Thompson, George J.: See—  
Putkovich, Rudy P., and Thompson. 2,897,433.
- Thompson, George W., Jr., to Empire Corp. Pumping apparatus for lapping machine. 2,873,563, 2-17-59, Cl. 51—263.
- Thompson, Glenn S.: See—  
Barden, Wayne A., Snyder, and Thompson. 2,909,749.
- Thompson, Harlan M., to J. J. Hauck. Fletching jigs. 2,918,097, 12-22-59, Cl. 144—289.
- Thompson, Harold B.: See—  
Azari, Eric, Gray, Malin, and Thompson. 2,905,466.  
Gray, Alfred E., Malin, and Thompson. 2,883,188.
- Thompson, Harold D. Shelving unit. 2,895,620, 7-21-59, Cl. 211—148.
- Thompson, Harwell B.: See—  
Detwiler, Harry S., Petters, and Thompson. 2,907,810.
- Thompson, Hazel D.: See—  
Giese, John F., and Thompson. 2,917,752.
- Thompson, Herbert L. Fresh water recovery process and apparatus for use in same. 2,896,419, 7-28-59, Cl. 62—58.
- Thompson, Howard. Lazy Susan. 2,913,126, 11-17-59, Cl. 211—85.
- Thompson, Howard G.: See—  
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- Thompson, Ira G.: See—  
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- Thompson, Ivan P., W. Allmang, C. E. Hartmann, C. E. Winter, and R. W. Blackburn, to Union Carbide Corp. Process and apparatus for desurfacing a refractory metal body. 2,873,224, 2-10-59, Cl. 148—9.5.
- Thompson, James B.: See—  
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- Thompson, James E. Retractable goal posts. 2,884,252, 4-28-59, Cl. 273—55.
- Thompson, James M. C.: See—  
Garden, William D., and Thompson. 2,889,349.
- Thompson, James R.: See—  
Sizemore, Clarence B., and Thompson. 2,896,039.
- Thompson, Jay D. Punch and die. 2,893,489, 7-7-59, Cl. 164—118.
- Thompson, John H.: See—  
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- Thompson, John J., and A. P. Knight, to International Business Machines Corp. Soldering flux composition. 2,898,255, 8-4-59, Cl. 148—23.
- Thompson, John K. Dispensers for adhesive tape or the like. 2,889,146, 6-2-59, Cl. 270—61.
- Thompson, John K. Means for dispensing packaging tape from rolls. 2,899,144, 8-11-59, Cl. 242—58.4.
- Thompson, John W.: See—  
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- Thompson, John W., to Eastman Kodak Co. Cracked gasoline stabilized against deterioration in the presence of water having a pH of less than 5. 2,887,369, 5-19-59, Cl. 44—74.
- Thompson, John W., and W. V. McConnell, to Eastman Kodak Co. 1,3,5-tri(arylamino)benzene and derivatives thereof as stabilizers for petroleum products. 2,882,136, 4-14-59, Cl. 44—75.
- Thompson, Joseph C. Headrest and process of chiropractic adjustment. 2,886,029, 5-12-59, Cl. 128—69.
- Thompson, Joseph C., and K. W. Nipp. Headrests for chiropractic tables. 2,898,169, 8-4-59, Cl. 311—10.
- Thompson, Joshua B., to The Consolidated Mining and Smelting Co. of Canada Ltd. Method of reducing the caking of ammonium sulphate crystals. 2,905,532, 9-22-59, Cl. 23—119.
- Thompson, Kenneth B.: See—  
Moore, William A. 2,889,739.
- Thompson, Kenneth B., to Penn Optical & Instrument Co. Optical system for alignment inspection. 2,906,161, 9-29-59, Cl. 88—14.
- Thompson, Kenneth C. Squeegee attachment for vacuum cleaner. 2,893,046, 7-7-59, Cl. 15—325.
- Thompson, Kenneth M., to The Atlantic Refining Co. Preparation of improved alkylate products using a sulfuric acid treatment. 2,875,257, 2-24-59, Cl. 260—674.
- Thompson, Leland E., to Radio Corp. of America. Tone multiplex circuit with narrow bandwidth channel-separating filters. 2,894,129, 7-7-59, Cl. 250—27.
- Thompson, Leland E., to Radio Corp. of America. Automatic phase equalizer. 2,906,866, 9-29-59, Cl. 250—6.
- Thompson, Lyle G., and R. H. Murch, to Burroughs Corp. Magnetic unit turns tester. 2,914,729, 11-24-59, Cl. 324—55.
- Thompson Mfg. Co., Inc.: See—  
Thompson, William M. 2,881,707.
- Thompson, Martin A. and R. D. Rug hoist and conveyor. 2,876,710, 3-10-59, Cl. 104—89.
- Thompson, Marvin R. and R. E. Therapeutic agents derived from rauwolfia serpentina. 2,870,140, 1-20-59, Cl. 260—236.5.
- Thompson, Norman D.: See—  
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- Thompson, Norman L. Comb wiper. 2,885,704, 5-12-59, Cl. 15—121.3.
- Thompson, Oliver T., and C. F. Cook, 1/2 to C. W. Max. Bolt-holding type socket wrenches. 2,909,089, 10-20-59, Cl. 81—55.
- Thompson, Orville I., to De Vry Technical Institute, Inc. Educational device for training electronic technicians. 2,882,618, 4-21-59, Cl. 35—19.
- Thompson, Paige W., to General Electric Co. Bearing arrangement. 2,872,255, 2-3-59, Cl. 308—132.
- Thompson, Paige W., to General Electric Co. Single-stage vacuum cleaner. 2,905,267, 9-22-59, Cl. 183—37.
- Thompson, Paul F.: See—  
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- Thompson, Paul F., to Kaiser Aluminum & Chemical Corp. Portable electric cord. 2,900,437, 8-18-59, Cl. 174-116.
- Thompson Products, Inc.: *See*—
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- Bayer, Frank C. 2,867,269.
- Biering, Robert C., and Southam. 2,882,075.
- Blauvelt, Ralph C., and Eppelle. 2,872,631.
- Bollenbacher, Earle P., and Pankuch. 2,905,009.
- Booth, James H. 2,876,030.
- Booth, James H. 2,878,047.
- Braid, Murray D. 2,877,886.
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- Herbenar, Edward J. 2,885,020.
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- Kilgore, Charles R. 2,873,730.
- Krause, Frank R. 2,878,697.
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- Marquis, Donald P., and French. 2,868,263.
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- Urban, Peter, Jr., and Thompson. 2,867,577.
- Thompson, Ralph B., to Universal Oil Products Co. Desoxycholic acid as a separating agent. 2,880,254, 3-31-59, Cl. 260-676.
- Thompson, Ralph B., to Universal Oil Products Co. Alkylation of arylols. 2,881,219, 4-7-59, Cl. 260-613.
- Thompson, Ralph B., to Universal Oil Products Co. Stabilization of organic compounds. 2,903,368, 9-8-59, Cl. 99-163.
- Thompson Ramo Wooldridge Inc.: *See*—
- Allen, Clifford H. 2,915,051.
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- Fathauer, George H. 2,911,562.
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- Schunemann, Carl F. 2,889,553.
- Smith, Louis R. 2,919,148.
- Wanlass, Cravens L. 2,916,636.
- Wanlass, Cravens L. 2,916,637.
- Wotring, John A., and Mainland. 2,898,863.
- Thompson, Ransom S., to United States of America, Air Force. Retaining means for pin used for rotor blade attachment. 2,906,496, 9-29-59, Cl. 253-77.
- Thompson, Raymond E.: *See*—
- Vaggner, Kenneth E. 2,893,694.
- Thompson, Raymond P.: *See*—
- Kelley, Gilbert A., Rahm, and Thompson. 2,876,833.
- Thompson, Richard D.: *See*—
- Thompson, Martin A. and R. D. 2,876,710.
- Thompson, Richard F.: *See*—
- Ives, Andrew M., and Thompson. 2,895,975.
- Thompson, Richard K.: *See*—
- Goodale, Walter D., Jr., Pferd, and Thompson. 2,906,823.
- Thompson, Roger D., to Radio Corp. of America. Color image reproducing apparatus. 2,896,016, 7-21-59, Cl. 178-54.
- Thompson, Roy C.: *See*—
- Katzin, Leonard I., Larson, Thompson, and Van Winkle. 2,887,355.
- Seaborg, Glenn T., Thompson, and Albaugh. 2,886,406.
- Thompson, Roy F. Sawhorse form. 2,889,176, 6-2-59, Cl. 304-5.
- Thompson, Russell G., to Eastman Kodak Co. Means for inverting facsimile signals derived from coded signals. 2,892,030, 6-23-59, Cl. 178-30.
- Thompson, Russell G., and C. E. Hunt, Jr., to Eastman Kodak Co. Apparatus for synthesizing facsimile signals from coded signals. 2,899,498, 8-11-59, Cl. 178-22.
- Thompson, Samuel P. Pump with flexible impeller. 2,911,920, 11-10-59, Cl. 103-117.
- Thompson Scoop-Grader, Inc.: *See*—
- Thompson, William R. 2,870,551.
- Thompson, Seymour H., to Continental Water Heater Co. Gas water heater. 2,888,911, 6-2-59, Cl. 122-156.
- Thompson, Sidney G.: *See*—
- Pelzer, Harold H., and Thompson. 2,885,701.
- Thompson, Stanley G.: *See*—
- Dreher, John L., Koshland, Thompson, and Willard. 2,907,631.
- Hulet, Ervin K., and Thompson. 2,891,839.
- James, Ralph A., and Thompson. 2,911,282.
- Miller, Daniel E., Seaborg, and Thompson. 2,917,358.
- Seaborg, Glenn T., Thompson, and Davidson. 2,903,335.
- Thompson, Stanley G., and D. R. Miller, to United States of America, Atomic Energy Commission. Method of maintaining plutonium in a higher state of oxidation during processing. 2,892,678, 6-30-59, Cl. 23-14.5.
- Thompson, Stuart W., to Lever Brothers Co. Fluid shortening composition. 2,875,065, 2-24-59, Cl. 99-118.
- Thompson, Thomas R., J. E. Duffy, and H. T. Dybvig, to General Aniline & Film Corp. High-speed print-out emulsions. 2,888,347, 5-26-59, Cl. 96-94.
- Thompson, Tom H., to Sabre Research Corp. Fuel pump. 2,889,781, 6-9-59, Cl. 103-38.
- Thompson, Tom H., to Sabre Research Corp. Fuel pump with diaphragm spring. 2,918,008, 12-22-59, Cl. 103-4.
- Thompson, Walter N.: *See*—
- Rich, John P., Luthi, and Thompson. 2,908,226.
- Thompson, Wayne G. 30% to J. J. Lane, 15% to C. W. Baisden, and 15% to H. W. Baisden. Self-cleaning gutter and downspout attachment to collect debris. 2,887,073, 5-19-59, Cl. 108-28.
- Thompson, Wesley. Umbrella holder. 2,883,247, 4-21-59, Cl. 311-17.
- Thompson, William B., to General Motors Corp. Closed center valve with zero leak feature. 2,882,867, 4-21-59, Cl. 121-46.5.
- Thompson, William B., and R. J. Wrobbel; said Wrobbel assor. to The Garlock Packing Co., and said Thompson assor. to General Motors Corp. High-pressure fluid seals. 2,905,489, 9-22-59, Cl. 286-26.
- Thompson, William E.: *See*—
- Wiese, Henry C., and Thompson. 2,876,331.
- Thompson, William E., to Sun Oil Co. Polypropylene process. 2,880,121, 3-31-59, Cl. 134-2.
- Thompson, William E., to Sun Oil Co. Photochemical preparation of urea. 2,916,427, 12-8-59, Cl. 204-158.
- Thompson, William E., and F. A. Boyle to Sun Oil Co. Treatment of underground formations. 2,908,642, 10-13-59, Cl. 252-8.55.
- Thompson, William E., and F. A. Boyle to Sun Oil Co. Treatment of limestone formations. 2,908,643, 10-13-59, Cl. 252-8.55.
- Thompson, William E., and G. S. Leeder, to Sun Oil Co. Oxygenated crystalline polypropylene, method of making, and wax composition containing same. 2,911,384, 11-3-59, Cl. 260-28.5.
- Thompson, William H.: *See*—
- Johnson, Carl E., and Thompson. 2,908,624.
- Thompson, William H. Safety switch. 2,879,349, 3-24-59, Cl. 200-61.5.
- Thompson, William J.: *See*—
- Royer, Arthur G., and Thompson. 2,874,636.
- Thompson, William L. Gun mount. 2,919,058, 12-29-59, Cl. 224-1.
- Thompson, William M., to Thompson Mfg. Co., Inc. Portable pump. 2,881,707, 4-14-59, Cl. 103-88.
- Thompson, William R., to Thompson Scoop-Grader, Inc. Road working machine. 2,870,551, 1-27-59, Cl. 37-117.5.
- Thompson, Willie M. S., to Safe-T-Systems, Corp. Auxiliary brake release device for railway air brake systems. 2,878,077, 3-17-59, Cl. 303-68.



- Thompson, Wirt L., Jr. Molded fabric and brassiere construction and method of making the same. 2,867,889, 1-13-59, Cl. 28-72.
- Thompson, Wirt L., Jr. Brassiere. 2,893,396, 7-7-59, Cl. 128-464.
- Thompson, Wirt L., Jr. Inked printing ribbon for use in typewriters or the like and method of making the same. 2,918,160, 12-22-59, Cl. 197-172.
- Thompson, Woodford R., Jr.: See—  
Summers, Lumus L. 2,917,283.
- Thoms, Earl H.: See—  
Smith, Alfred P., Jr., and Thoms. 2,898,831.
- Thomsen, Alfred M. Method of making hydrogen and apparatus therefor. 2,879,139, 3-24-59, Cl. 23-213.
- Thomsen, Alfred M. Method of making paper pulp. 2,898,994, 8-11-59, Cl. 162-24.
- Thomsen, Howard J.: See—  
Redmond, Robert L., and Thomsen. 2,912,136.
- Thomsen, L. C., & Sons, Inc.: See—  
Kastner, Donald E. 2,897,569.
- Thomsen Research Co., Inc.: See—  
Bronson, James D., Jr. 2,872,335.
- Thomsen, Soren M.: See—  
Bube, Richard H., and Thomsen. 2,916,678.  
Busanovich, Charles J., and Thomsen. 2,876,202.
- Thomsen, Theodore R.: See—  
Rockafellow, Stuart C., and Thomsen. 2,915,635.
- Thomsen, Wilhelm, to G. W. Fillauer, Sr. Tourniquet. 2,893,394, 7-7-59, Cl. 128-327.
- Thomson Automatics, Inc.: See—  
Thomson, Samuel G., Jr. 2,911,868.
- Thomson, Bernard, and E. W. Swift, to International Standard Electric Corp. Glass to metal seals. 2,867,947, 1-13-59, Cl. 49-81.
- Thomson Electric Welder Co.: See—  
Evans, Arthur N. 2,877,337.  
Stieglitz, Hermann W. 2,875,319.
- Thomson, Ely K. Package handling machine. 2,870,922, 1-27-59, Cl. 214-6.
- Thomson, George, C. G. Cook, and P. M. Pepin, to Fabric Research Laboratories, Inc. Method of reducing the alkali solubility of wool by treatment with acrolein. 2,880,055, 8-31-59, Cl. 8-133.
- Thomson, Ian F., and D. G. Wilson, to General Dynamics Corp. Electric heated laminated glass panel. 2,878,357, 3-17-59, Cl. 201-73.
- Thomson, John B. Thrust bearing. 2,872,256, 2-3-59, Cl. 308-163.
- Thomson, John E.: See—  
Barnes, Earle B., Thomson, and Klumb. 2,882,264.
- Thomson, John W., Jr., to Owens-Illinois Glass Co. Rinser for one-way bottles. 2,896,647, 7-28-59, Cl. 134-133.
- Thomson, Robert F.: See—  
Holzwarth, James C., and Thomson. 2,867,531.  
Holzwarth, James C., and Thomson. 2,899,304.  
Holzwarth, James C., and Thomson. 2,907,653.  
Thompson, Marvin R. and R. E. 2,870,140.
- Thomson, Robert F., to General Motors Corp. Sintered powdered aluminum base bearing. 2,894,319, 7-14-59, Cl. 29-182.5.
- Thomson, Robert F., to General Motors Corp. Aluminum coated steel having chromium in diffusion layer. 2,917,818, 12-22-59, Cl. 29-196.2.
- Thomson, Robert F., and E. W. Weinman, to General Motors Corp. Method of forming a sintered powdered metal piston ring. 2,882,190, 4-14-59, Cl. 148-12.
- Thomson, Robert F., R. S. Amala, and C. M. Eberhardt, to General Motors Corp. Shell molding. 2,873,493, 2-17-59, Cl. 22-193.
- Thomson, Robert F., and J. C. Holzwarth, to General Motors Corp. Ferrous base alloy. 2,883,280, 4-21-59, Cl. 75-122.
- Thomson, Robert F., and E. W. Weinman, to General Motors Corp. Wear-resistant sintered powdered metal. 2,884,687, 5-5-59, Cl. 29-182.
- Thomson, Robert F., A. A. Shoudy, Jr., and D. K. Hanink, to General Motors Corp. Method of aluminum coating. 2,885,304, 5-5-59, Cl. 117-46.
- Thomson, Robert F., and E. W. Weinman, to General Motors Corp. Sintered powdered copper base bearing. 2,887,765, 5-26-59, Cl. 29-182.
- Thomson, Robert F., and J. C. Holzwarth, to General Motors Corp. Ferrous base alloy. 2,908,564, 10-13-59, Cl. 75-124.
- Thomson, Robert F., and J. C. Holzwarth, to General Motors Corp. Copper base alloy. 2,908,567, 10-13-59, Cl. 75-161.
- Thomson, Robert F., and J. C. Holzwarth, to General Motors Corp. Highly wear-resistant zinc base alloy and method of making same. 2,909,429, 10-20-59, Cl. 75-178.
- Thomson, Robert F., and J. C. Holzwarth, to General Motors Corp. Highly wear-resistant zinc base alloy and method of making same. 2,912,324, 11-10-59, Cl. 75-178.
- Thomson, Samuel G., Jr., to Thomson Automatics, Inc. Control apparatus for machine tools or the like. 2,911,868, 11-10-59, Cl. 82-2.
- Thomson, William L., to Edwin L. Wiegand Co. Electric heating devices. 2,917,616, 12-15-59, Cl. 219-34.
- Thonger, Thurland G., to Poor & Co. Recessed tie plate. 2,872,121, 2-3-59, Cl. 238-306.
- Thor, James P. Sheet clipping tool. 2,874,666, 2-24-59, Cl. 113-1.
- Thor Power Tool Co.: See—  
Fuehrer, George H. 2,914,031.  
Kaman, Frank A., and Vega. 2,890,072.  
Sandvig, Robert L. 2,890,021.  
Skog, Donald K. 2,886,075.
- Thor, Robert C., and J. B. Linker, Jr., to General Electric Co. Deflection circuit. 2,906,919, 9-29-59, Cl. 315-24.
- Thorburn, John H. Spear gun. 2,869,273, 1-20-59, Cl. 43-6.
- Thorburn, Milton R., to American Optical Co. Optical projection apparatus. 2,872,841, 2-10-59, Cl. 88-16.
- Thore, Thomas J., to Fidelity Machine Co., Inc. Striping mechanism for circular knitting machines. 2,901,900, 9-1-59, Cl. 66-144.
- Thore, Thomas J., to Fidelity Machine Co., Inc. Knitting machine needle. 2,914,934, 12-1-59, Cl. 66-123.
- Thorén, Bertil, to Allmänna Svenska Elektriska Aktiebolaget. Over-voltage protective device. 2,909,694, 10-20-59, Cl. 313-153.
- Thorens S. A.: See—  
Lecoultrre, Edgar. 2,884,827.
- Thorensen, Ragnar: See—  
Arsenault, William R., Garfein, and Thorensen. 2,905,834.
- Thorensen, Ragnar, and B. F. Ambrosio, to United States of America, Commerce, Transcriber selection circuit for magnetic drum memory. 2,913,706, 11-17-59, Cl. 340-174.
- Thoresen, Carl B., and F. Eliassen. Foot and back rest. 2,918,682, 12-29-59, Cl. 5-327.
- Thoresen, Einar. Fluid dispensing device. 2,892,570, 6-30-59, Cl. 222-20.
- Thoreson-McCosh, Inc.: See—  
McCosh, Frederick I. 2,916,831.
- Thormac Packaging Corp.: See—  
McCleary, Harry R. 2,919,020.
- Thorman, Richard L., to General Motors Corp. Fluid pressure supply system. 2,910,942, 11-3-59, Cl. 103-4.
- Thorn, David E., and E. S. Nachtman, to La Salle Steel Co. Case-hardened, worked steels. 2,881,109, 4-7-59, Cl. 148-12.1.
- Thorn Electrical Industries Ltd.: See—  
Lancucki, Marian A., and Strange. 2,891,141.  
Mash, Derek H. 2,918,582.  
Mash, Derek H. 2,919,366.  
Squire, Major, and Turner. 2,903,571.  
Stevens, Bertram. 2,905,807.  
Strange, John W. 2,872,567.
- Thorn, John P., to Esso Research and Engineering Co. Desulfurizing petroleum fractions with platinum. 2,876,196, 3-3-59, Cl. 208-244.
- Thorn, John P., and W. R. F. Guyer, to Esso Research and Engineering Co. Hydrocarbon conversion catalysts. 2,890,178, 6-9-59, Cl. 252-455.
- Thorn, Robert J.: See—  
Reynolds, Donald S., and Thorn. 2,893,598.
- Thornbery, James M., and J. N. Wognum, to Acme Steel Co. Strap sealing tool. 2,891,432, 6-23-59, Cl. 81-9.1.
- Thornbery, John H., to Baso, Inc. Control device. 2,874,905, 2-24-59, Cl. 236-9.
- Thornburg, Harold A., to United States Rubber Co. Heat exchange roll. 2,908,486, 10-13-59, Cl. 257-95.
- Thornburg, Herbert W., to Bucyrus-Erie Co. Rotary well drill feed. 2,869,826, 1-20-59, Cl. 266-22.
- Thornburg, Hubert L. Hat hangers. 2,889,935, 6-9-59, Cl. 211-30.
- Thornburg, Lloyd. Truck seat attachment. 2,903,042, 9-8-59, Cl. 155-5.
- Thornburgh, John A., and J. M. Hobelman. Ditch digging and tunneling machines having a vertically reciprocating cutting head. 2,879,980, 3-31-59, Cl. 262-5.
- Thorne, Curtis B., R. D. Housewright, and C. G. Leonard. Production of glutamyl polypeptide by bacillus subtilis. 2,895,882, 7-21-59, Cl. 195-96.
- Thorne, Harold. Latches or locks for doors. 2,877,044, 3-10-59, Cl. 292-280.
- Thorne, Howard B. Illuminated display devices. 2,876,339, 3-3-59, Cl. 240-10.1.
- Thorne, Henry C., Jr., and H. M. Belkin, to Standard Oil Co. Hydroforming process. 2,877,173, 3-10-59, Cl. 208-96.
- Thorne, Marvin Y. Coal cutting bit having three cutting tips. 2,873,960, 2-17-59, Cl. 262-33.
- Thorne, Maurice A., to General Motors Corp. Air heating and cooling apparatus for vehicles. 2,873,953, 2-17-59, Cl. 257-7.
- Thorne, William D.: See—  
Benson, Alfred B., and Thorne. 2,919,427.
- Thorner, Robert H. Self cleaning means for air or gas flow devices. 2,887,997, 5-26-59, Cl. 123-103.
- Thorner, Robert H. Engine governor. 2,887,998, 5-26-59, Cl. 123-103.
- Thorner, Robert H. Engine governor. 2,887,999, 5-26-59, Cl. 123-103.
- Thorner, Robert H. Reminder device. 2,894,336, 7-14-59, Cl. 35-66.
- Thorner, Robert H. Throttle control device. 2,917,142, 12-15-59, Cl. 192-3.
- Thorness, Rudolph B.: See—  
Ney, Edward P., Thorness, and Winckler. 2,872,808.



- Thorness, Rudolph B., to United States of America, Navy. Balloon load release control mechanism. 2,907,843, 10-6-59, Cl. 200-83.
- Thornhill-Craver Co., Inc.: *See*—  
Hall, George D., 2,869,752.  
Loeffler, John E., and Hall, 2,877,287.  
Loeffler, John E. and Nordin, 2,887,118.  
Nordin, Obert L., 2,889,048.  
Nordin, Obert L., 2,896,502.
- Thornhill, Dalbert,  $\frac{1}{2}$  to J. F. Thornhill. Mason's adjustable ski runner. 2,910,861, 11-3-59, Cl. 72-138.
- Thornhill, John R. Carton with built-in suction tube. 2,887,256, 5-19-59, Cl. 222-527.
- Thornhill, Johnnie F.: *See*—  
Thornhill, Dalbert, 2,910,861.
- Thornhill, Philip G., to Falconbridge Nickel Mines Ltd. Method of and apparatus for roasting metal sulfide concentrates in a fluidized bed. Re. 24,724, 10-20-59, Cl. 75-9.
- Thornley, Robert B.: *See*—  
Hogberg, George G., Lonergan, Thornley, Williams, and Stevens, 2,918,658.
- Thornton, Benjamin F., Jr.: *See*—  
Dixon, Irma G., and Thornton, 2,911,647.
- Thornton, Clarence G., to Sylvania Electric Products Inc. Silicon rectifiers. 2,891,203, 6-16-59, Cl. 317-240.
- Thornton, F. C., Co.: *See*—  
Hornsby, Vivian D., 2,905,496.
- Thornton, James L.: *See*—  
Ruff, Edgar E., and Thornton, 2,880,178.
- Thornton, James R., and D. F. Marsh, deceased (A. S. Marsh, executrix), to Spencer Chemical Co. 5-(2,4-dihaloxyphenyl) hydantoins. 2,891,069, 6-16-59, Cl. 260-309.5.
- Thornton, Jens: *See*—  
Andrews, Roland E., and Thornton, 2,871,362.
- Thornton, John D., to United States of America, Atomic Energy Commission. Pumps. 2,879,144, 3-24-59, Cl. 23-270.5.
- Thornton Knitting Co., Inc.: *See*—  
Burton, Stuart W., 2,911,093.
- Thornton, Mathew H. Anti-glare device. 2,875,670, 3-3-59, Cl. 88-41.
- Thornton, Richard D., to United-Carr Fastener Corp. Electronic counter. 2,883,108, 4-21-59, Cl. 235-92.
- Thornton, Robert L.: *See*—  
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- Thornton, Samuel A., to S. A. Thornton, Jr. Can piler. 2,874,854, 2-24-59, Cl. 214-9.
- Thornton, Samuel A., Jr.: *See*—  
Thornton, Samuel A., 2,874,854.
- Thornton-Trump, Walter E., to Trump Engineers Ltd. Side mount mower. 2,877,618, 3-17-59, Cl. 56-25.4.
- Thornton, William E.: *See*—  
Lolmaugh, Orson B., Thornton, and Smith, 2,869,120.
- Thornton, William E., to Del Mar Engineering Laboratories. Photographic recording means. 2,909,772, 10-20-59, Cl. 343-5.
- Thornwald, Everett D., to Clements Mfg. Co. Vacuum cleaner attachment coupling with spring biased latch means. 2,907,588, 10-6-59, Cl. 285-7.
- Thorp, Arthur G., II: *See*—  
Dinsmore, Thomas L., and Thorp, 2,889,191.
- Thorp, Clark E., L. C. Kinney, and A. J. Gaynor, to Air Reduction Co., Inc. Ozone manufacture. 2,876,188, 3-3-59, Cl. 204-176.
- Thorp, Dennis A., and A. E. Usher, to The British Oxygen Co. Ltd. Nozzle securing means. 2,872,563, 2-3-59, Cl. 219-75.
- Thorp, Alan W.: *See*—  
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- Thorp, Charles L.: *See*—  
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Dinwiddie, James A., Mosesman, and Thorpe, 2,902,431.
- Thorp, Lawrence R. Display package. 2,868,371, 1-13-59, Cl. 206-79.
- Thorp, Robert J., and D. F. Winters, to Westinghouse Electric Corp. Liquid fuel distributing systems for combustion engines. 2,870,826, 1-27-59, Cl. 158-36.
- Thorp, Ronald J., to Allen & Hanburys Ltd. Operation tables having removably supported interchangeable head and leg extension sections. 2,872,259, 2-3-59, Cl. 311-10.
- Thorp, Ronald J., to Allen & Hanburys Ltd. Surgical operation table with single control means. 2,898,168, 8-4-59, Cl. 311-7.
- Thorp, Thomas E. Cleaning dabber. 2,878,500, 3-24-59, Cl. 15-134.
- Thorp, William R.: *See*—  
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- Thorsén, Jarl M.: *See*—  
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- Thorsén, Jarl M., to Telefonaktiebolaget L M Ericsson. Device for selecting and transforming pulses in multi-channel pulse communication systems. 2,906,825, 9-29-59, Cl. 179-15.
- Thorsén, Jarl M., to Telefonaktiebolaget L M Ericsson. Modulator for amplitude modulating a pulse train. 2,917,717, 12-15-59, Cl. 332-15.
- Thorsén, Walter J. Fire alarm apparatus. 2,913,709, 11-17-59, Cl. 340-227.
- Thorsson, Matthew T., and L. J. Lauer, to Fairbanks, Morse & Co. Batch weigher. 2,868,491, 1-13-59, Cl. 249-14.
- Thorup, Abraham B., to Central Fibre Products Co., Inc. Folding box with partition. 2,899,121, 8-11-59, Cl. 229-27.
- Thoss, Jack L.: *See*—  
Montgomery, Donald N., and Thoss, 2,899,641.
- Thostenson, Lewis D., to Salsbury Corp. Wheel supporting and clamping device. 2,873,777, 2-17-59, Cl. 144-288.
- Thourel, Leo, to Compagnie Generale de Telegraphie Sans Fil. Aerials for radar systems. 2,907,030, 9-29-59, Cl. 343-754.
- Thourel, Léo, to Compagnie Generale de Telegraphie Sans Fil. Variable pattern radar aerial. 2,913,723, 11-17-59, Cl. 343-777.
- Thowman, Thorwald G. G. Record holders. 2,908,394, 10-13-59, Cl. 211-40.
- Thowless, Eric A.: *See*—  
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- Thrall Railway Devices Co.: *See*—  
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- Thrasher, Elbridge W. Lumber stacker. 2,878,947, 3-24-59, Cl. 214-6.
- Thrasher, Clio M. Auxiliary oven for electric stoves. 2,872,557, 2-3-59, Cl. 219-35.
- Threadgill, William J.: *See*—  
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- Threadgold, Philip, to The British Petroleum Co. Ltd. Telemetering. 2,888,664, 5-26-59, Cl. 340-160.
- Threadgold, Ronald: *See*—  
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Davison, Alan, and Threadgold, 2,909,763.
- Threadgold, Ronald, to Automatic Telephone & Electric Co. Ltd. Adding arrangements. 2,870,963, 1-27-59, Cl. 235-61.
- Thresher, Albert W. and H. W. Attachment for a lift truck. 2,875,912, 3-3-59, Cl. 214-654.
- Thresher, Howard W.: *See*—  
Thresher, Albert W. and H. W., 2,875,912.
- Thrift, Griffin C., to Koch Engineering Co., Inc. Sectional deck construction having spaced overlaps. 2,903,251, 9-8-59, Cl. 261-114.
- Throckmorton, John W., and J. S. Wallis, to Petro-Chem Process Co., Inc. Vertical tube furnace. 2,902,981, 9-8-59, Cl. 122-356.
- Thuener, Everett E., and J. S. Leibson, to General Electric Co. Method and apparatus for manufacturing ceramic insulator shapes. 2,912,739, 11-17-59, Cl. 25-22.
- Thuilleir, Jean E., F. Litvan, and W. Stoll, to Geigy Chemical Corp. Eugenol glycolic acid and isoeugenol glycolic acid amides. 2,911,440, 11-3-59, Cl. 260-559.
- Thulke, Herman G.: *See*—  
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- Thulke, Hermann G., to Chas. Pfäzer & Co. Channeling device for an article transferring apparatus. 2,881,897, 4-14-59, Cl. 198-30.
- Thulke, Hermann G., and C. H. Abbe, to Chas. Pfäzer & Co., Inc. Labeling machine. 2,886,200, 5-12-59, Cl. 216-55.
- Thumim, Carl, to I-T-E Circuit Breaker Co. Circuit breaker anti-pumping device. 2,884,569, 4-28-59, Cl. 317-54.
- Thumim, Carl, to E. P. Lawson Co., Inc. Back gauge slot closing member. 2,881,834, 4-14-59, Cl. 164-59.
- Thumim, Carl, to I-T-E Circuit Breaker Co. Temperature compensated time delay dashpot. 2,881,870, 4-14-59, Cl. 188-96.
- Thumim, Carl, to E. P. Lawson Co., Inc. Torque motor booster for clamp treadle of paper cutters. 2,887,895, 5-26-59, Cl. 74-388.
- Thumim, Carl, to E. P. Lawson Co. Inc. Hand wheel assembly for back gauge of paper cutters. 2,894,479, 7-14-59, Cl. 116-115.
- Thumlery, Buscher, to The Singer Mfg. Co. Plait forming attachments for sewing machines. 2,918,026, 12-22-59, Cl. 112-135.
- Thumm, Byron A.: *See*—  
Howson, John A., and Thumm, 2,895,788.
- Thumm, Byron A., to American Viscose Corp. All skin viscose rayon. 2,888,356, 5-26-59, Cl. 106-165.
- Thumm, Byron A., to American Viscose Corp. Method of producing all skin rayon. 2,902,381, 9-1-59, Cl. 106-165.
- Thumm, Byron A., to American Viscose Corp. Producing all skin rayon. 2,919,203, 12-29-59, Cl. 106-165.
- Thummel, Ludwig, and M. Aeberhardt, to Saul & Co., nominee of Fidelity Union Trust Co., Executive trustee under Sandoz Trust. Method of dyeing mixtures of animal fibers and synthetic polyamide fibers with reservation of the latter. 2,869,968, 1-20-59, Cl. 8-21.
- Thumult, Josef: *See*—  
Schimer, Robert, Voit, Hartmann, König, Thumult, and Ziemer, 2,910,423.
- Thunberg, Leander O.: *See*—  
Mathews, Martin B., and Thunberg, 2,913,893.
- Thunderbird Engineering Co.: *See*—  
Jemison, Volney M., and Young, 2,896,459.  
Jemison, Volney M., and Young, 2,896,864.
- Thunstrom, John F., to Foster Wheeler Corp. Heat exchange apparatus. 2,868,180, 1-13-59, Cl. 122-478.
- Thurauf, Walter: *See*—  
Grosskinsky, Otto, Juttner, Klempt, and Thurauf, 2,879,288.



- Thurell, John R., Jr.: *See*—  
Burton, Lester W., and Thurell. 2,883,592.
- Thürk, Gerhard, to Siemens-Schuckertwerke Aktiengesellschaft. Edgewise wound reactor coils and method of making the same. 2,907,968, 10-6-59, Cl. 336-221.
- Thurlby, Leslie T., and J. B. Collins, 1/2 to Grainer Mfg. Co. Ltd. Radiation detection and indicating devices. 2,909,668, 10-20-59, Cl. 250-213.
- Thurman, Astor L., and D. Hancke, to Mannesmann-Meer Engineering and Construction Co. Rolling mill kickout apparatus. 2,868,348, 1-13-59, Cl. 198-21.
- Thurman, Benjamin H., to B. Clayton. Process for refining fatty oils. 2,876,242, 3-3-59, Cl. 260-425.
- Thurman, Benjamin H., to The Union Stock Yard and Transit Co. of Chicago. Soap mixing unit and supply system. 2,879,143, 3-24-59, Cl. 23-267.
- Thurman, Benjamin H., to B. Clayton, doing business under the fictitious name and style of Refining, Uninc. Pipe line mixer. 2,892,619, 6-30-59, Cl. 259-7.
- Thurman, Benjamin H., to Benjamin Clayton, d.b.a. Refining, Unincorporated. Process for refining glyceride oils. 2,917,525, 12-15-59, Cl. 260-425.
- Thurman, Robert B. Matrix retainer. 2,918,724, 12-29-59, Cl. 32-63.
- Thurmer, Fred W., 1/2 to L. Regimbal. Hop picking machine. 2,905,183, 9-22-59, Cl. 130-30.
- Thurmon, Francis M., to Rohm & Haas Co. Therapeutic mixture of carboxylic cation exchange resin and its cobalt salt. 2,883,324, 4-21-59, Cl. 167-58.
- Thurmon, Francis M., to Rohm & Haas Co. Hydrophilic base therapeutic compositions comprising cation-exchange resin. 2,919,230, 12-29-59, Cl. 167-63.
- Thurmond, Carl D., to Bell Telephone Laboratories, Inc. Alloyed semiconductor contacts. 2,877,147, 3-10-59, Cl. 148-1.5.
- Thurmond, Carl D., to Bell Telephone Laboratories, Inc. Recovery of silicon from silicon dioxide. 2,904,405, 9-15-59, Cl. 23-223.5.
- Thurnauer, Hans: *See*—  
Nelson, Karl E., and Thurnauer. 2,908,579.
- Thurner, Richard T.: *See*—  
Eissfeldt, Erich F., and Thurner. 2,886,162.
- Thurnher, Ferdinand, to Washington Iron Works. Multi-platen hot press. 2,884,032, 4-28-59, Cl. 144-281.
- Thurnher, Ferdinand, to Washington Iron Works. Multi-platen hot press. 2,884,033, 4-28-59, Cl. 144-281.
- Thurnher, Ferdinand, to Washington Iron Works. Simultaneous-acting multi-platen hot press. 2,913,027, 11-17-59, Cl. 144-281.
- Thurston, Arthur L., to Revere Corp. of America. Linear weighing cell. 2,883,504, 4-21-59, Cl. 201-63.
- Thurston, Edward G., to Clevite Corp. Device for providing reproducible mechanical motions. 2,867,701, 1-6-59, Cl. 200-87.
- Thurston, Robert N.: *See*—  
Mason, Warren P., and Thurston. 2,906,971.
- Thurston, Robert R.: *See*—  
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- Thut, Paul J.: *See*—  
Payne, Walter B., and Thut. 2,891,469.
- Thuy, Hans J.: *See*—  
Justi, Eduard, Thuy, and Winsel. 2,912,478.
- Thwaites, Herman L., and J. F. Black, to Esso Research and Engineering Co. Irradiation of wax. 2,904,482, 9-15-59, Cl. 204-154.
- Thyer, Roger, to Inland Homes Corp. Prefabricated houses. 2,892,192, 6-30-59, Cl. 1-66.
- Thygeson, John R., Sr., to Proctor & Schwartz, Inc. Tenter driers. 2,894,334, 7-14-59, Cl. 34-158.
- Thylefors, Henric W., to Aktiebolaget Separator. Continuously operating centrifugal separator. 2,910,226, 10-27-59, Cl. 233-14.
- Tiarco Corp.: *See*—  
Wasserman, Arthur. 2,888,387.
- Tibbetts, George C., to Tibbetts Laboratories, Inc. Transducer sealing. 2,877,362, 3-10-59, Cl. 310-8.9.
- Tibbetts, George C., to Tibbetts Laboratories, Inc. Transducer leads. 2,877,363, 3-10-59, Cl. 310-9.7.
- Tibbetts, George C., to Tibbetts Laboratories, Inc. Electro-mechanical transducer. 2,912,605, 11-10-59, Cl. 310-9.1.
- Tibbetts, George C. and R. W., to Tibbetts Laboratories, Inc. Electromechanical device and method of making same. 2,901,644, 8-25-59, Cl. 310-9.1.
- Tibbetts Laboratories, Inc.: *See*—  
Tibbetts, George C. 2,877,362.  
Tibbetts, George C. 2,877,363.  
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Tibbetts, George C. and R. W. 2,901,644.
- Tibbetts, Raymond O. Fishing lure. 2,895,252, 7-21-59, Cl. 43-42.5.
- Tibbetts, Raymond W.: *See*—  
Tibbetts, George C. and R. W. 2,901,644.
- Tibbling, Stig B., to International Business Machines Corp. Automatic cut off device. 2,879,877, 3-31-59, Cl. 197-17.
- Tibbling, Stig B., to International Business Machines Corp. Key lever. 2,889,026, 6-2-59, Cl. 197-106.
- Tibbott, David W. Audible multitone alarm. 2,904,783, 9-15-59, Cl. 340-392.
- Tice, Leroy E., and W. H. Ness, to Cook Electric Co. Electrical component and connector. 2,915,712, 12-1-59, Cl. 333-8.
- Ticehurst, Laurence E., to Raytheon Mfg. Co. Induction heating apparatus. 2,882,378, 4-14-59, Cl. 219-10.69.
- Ticer, Cecil D. Leader with releasable sinker. 2,884,735, 5-5-59, Cl. 43-43.12.
- Tichler, Peter W., to Union Carbide Corp. Gas shielded metal arc welding. 2,916,600, 12-8-49, Cl. 219-74.
- Tichnor, Harry N., to Colourprint Publishers, Inc. Display support. 2,913,210, 11-17-59, Cl. 248-223.
- Tichy, William C. Anti-colic nursing device. 2,868,203, 1-13-59, Cl. 128-252.
- Ticknor, William C., to Federal-Mogul-Bower Bearings, Inc. Flexible hose. 2,895,509, 7-21-59, Cl. 138-49.
- Tidd, Victor S., and W. Dickison, to Root-Lowell Mfg. Co. Atomizing spraying device. 2,886,251, 5-12-59, Cl. 239-342.
- Tideland Specialty Co. Inc.: *See*—  
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- Tide Water Associated Oil Co.: *See*—  
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- Tidewater Oil Co.: *See*—  
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Anderson, Herbert M., Draemel, and Lyons. 2,914,469.  
Frazier, Raymond L., and Harrison. 2,892,769.  
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- Tidland, Charles R.: *See*—  
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- Tidland Machine Co.: *See*—  
Williams, Arthur T., and Tidland. 2,875,558.
- Tidwell, Hubert. Fruit picker's receptacle. 2,916,070, 12-8-59, Cl. 150-2.
- Tidy Chemical Co.: *See*—  
O'Hare, Harry M. 2,913,734.
- Tidykins, Inc.: *See*—  
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- Tidy-Pin Co., Inc.: *See*—  
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- Tiede, Ralph L.: *See*—  
Roberson, Cletis L., and Tiede. 2,891,686.
- Tiedeman, Robert K.: *See*—  
Mergen, Joseph M., and Tiedeman. 2,872,875.
- Tiedemann, Julius B., to A. O. Smith Corp. Offsetting press. 2,887,145, 5-19-59, Cl. 153-48.
- Tiedemann, Julius B., to A. O. Smith Corp. Safety mechanism for a draw rolling mill. 2,890,608, 6-16-59, Cl. 80-19.
- Tiedemann, Julius B., to A. O. Smith Corp. Draw rolling mill. 2,896,485, 7-28-59, Cl. 80-19.
- Tiedemann, Julius B., to A. O. Smith Corp. Cushioning means for double action presses. 2,900,943, 8-25-59, Cl. 113-45.
- Tiedemann, Richard A., to A. O. Smith Corp. Welding head positioner. 2,900,829, 8-25-59, Cl. 74-89.
- Tiedje, John L.: *See*—  
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Farmer, Michael H., Tiedje, and MacLeod. 2,906,688.  
Livingstone, James G., Moreton, and Tiedje. 2,880,159.
- Tielens, Roger E., to Rotary Engineering de Mexico, S.A. Transmissions. 2,900,845, 8-25-59, Cl. 74-688.
- Tieman, Harold E. Monorail cleaner. 2,915,019, 12-1-59, Cl. 104-279.
- Tien, Jack M. Acyl hydrazine derivatives of bis (4-dimethylaminophenyl) methane and process. 2,900,388, 8-18-59, Cl. 260-295.
- Tien, Ping K., to Bell Telephone Laboratories, Inc. Microwave amplifier. 2,883,481, 4-21-59, Cl. 179-171.
- Tien, Ping K., to Bell Telephone Laboratories, Inc. Electron beam system. 2,886,738, 5-12-59, Cl. 315-3.6.
- Tierney, Raymond B., and R. H. Krug, to Texaco Inc. Process for producing stable haloaryl phosphates of low acidity. 2,897,225, 7-28-59, Cl. 260-461.
- Tiers, George V. D., and R. J. Koshar, to Minnesota Mining and Mfg. Co. Polyfluorinated sulfonic acids and derivatives. 2,877,267, 3-10-59, Cl. 260-543.
- Tieslau, Henry A. Load carriage for a road vehicle. 2,867,341, 1-6-59, Cl. 214-672.
- Tiesler, Gerd: *See*—  
Jabczynski, Hans-Joachim, Tiesler, Lurk, and Schröder. 2,868,883.
- Tietgen, Hans P.: *See*—  
Kohnenkamp, Johann D., Sprengel, and Tietgen. 2,914,193.
- Tietg, Chester. Pneumatic hold-down for cargo spaces. 2,907,580, 10-6-59, Cl. 280-179.
- Tietig, Rudolph, Jr., and D. J. Pollingue, Jr., to A. J. Boynton & Co. Apparatus for adding solid material to molten metal. 2,872,180, 2-3-59, Cl. 266-34.
- Tietz, Carl M. and P., to Live Grass-Pack Co. Method of producing a live grass package. 2,876,588, 3-10-59, Cl. 47-58.
- Tietz, La Vern R.: *See*—  
Yelinek, Gustav H., Niebergall, and Tietz. 2,907,121.
- Tietz, Pearl: *See*—  
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- Tietze, Ernst: *See*—  
Petersen, Siegfried, Tietze, and Wirth. 2,913,454.
- Tietze, Hermann: *See*—  
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- Tietze, Hermann, to O. H. Dräger. Respiratory face mask. 2,891,540, 6-23-59, Cl. 128-141.



- Tietze, Hermann, to O. H. Drager. Anti-fogging face mask. 2,891,541, 6-23-59, Cl. 128-141.
- Tiffany, Burriss D., to The Upjohn Co. 3-[N,N-di-(lower alkyl)-carbonyl]-2-acyloxybiphenyl compounds. 2,879,290, 3-24-59, Cl. 260-479.
- Tiffany, John A.: *See*—  
Starling, Leslie R., and Tiffany. 2,878,668.
- Tiger, Emil, to Sound, Inc. Tape transporting device for use with cartridges. 2,898,409, 8-4-59, Cl. 179-100.2.
- Tiger, Emil, to Sound, Inc. Motor mounting for magnetic recording devices. 2,915,265, 12-1-59, Cl. 248-18.
- Tikanen, William A., to Genisco, Inc. Pressure responsive resistor. 2,870,301, 1-20-59, Cl. 201-48.
- Tikanen, William A., to Genisco, Inc. Fluid pressure detector. 2,890,588, 6-16-59, Cl. 73-410.
- Tilden, Carl V. Drilling apparatus. 2,879,035, 3-24-59, Cl. 255-50.
- Tilden, Carl V. Percussion drill bit and method of producing it. 2,902,259, 9-1-59, Cl. 255-63.
- Tilden, Carl V. Drill bit. 2,902,260, 9-1-59, Cl. 255-69.
- Tilden, Carl V. Core drill construction. 2,918,260, 12-22-59, Cl. 255-50.
- Tile Council of America, Inc.: *See*—  
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- Tiley, John W.: *See*—  
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Williams, Richard A., and Tiley. 2,885,609.
- Tilford, Charles H.: *See*—  
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Van Campen, Marcus G., Jr., and Tilford. 2,874,161.
- Tilford, Charles H., F. J. McCarty, and M. G. Van Campen, Jr., to The Wm. S. Merrell Co. Therapeutic composition. 2,894,949, 7-14-59, Cl. 260-244.
- Till, Albert. Machine or engine with rotary turbine blade wheel. 2,912,220, 11-10-59, Cl. 253-39.
- Till, Robert A., and I. J. Acosta, to Crane Co. Adjustable valve actuation means. 2,905,433, 9-22-59, Cl. 251-251.
- Tiller, Hans, to Cycloptic Anstalt für Optik und Mechanik in Vaduz. Film guides. 2,897,719, 8-4-59, Cl. 88-17.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Lower alkyl esters of n-furfurylthiolcarbamate acid as compositions and herbicides. 2,887,372, 5-19-59, Cl. 71-2.5.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. N-alkyl-N-allyl thiolcarbamate compositions. 2,901,498, 8-25-59, Cl. 260-455.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Lower alkyl esters of N-alkoxyalkylthiolcarbamate acids. 2,901,499, 8-25-59, Cl. 260-455.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Lower alkyl esters of N-cyanoalkyl-N-alkyl thiolcarbamate acids as compositions. 2,901,500, 8-25-59, Cl. 260-455.
- Tilles, Harry, and A. B. Lindquist, to Stauffer Chemical Co. Amyl-N,N-diethylthiolcarbamate and use as herbicide. 2,913,325, 11-17-59, Cl. 71-2.7.
- Tilles, Harry, and A. B. Lindquist, to Stauffer Chemical Co. Propyl-N,N-diethylthiolcarbamate and use as herbicide. 2,913,326, 11-17-59, Cl. 71-2.7.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Certain thiolcarbamates and use as herbicides. 2,913,327, 11-17-59, Cl. 71-2.7.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Isobutyl-N,N-diethylthiolcarbamate and use as herbicide. 2,913,328, 11-17-59, Cl. 71-2.7.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Dialkylthiolcarbamates and their use as herbicides. 2,916,369, 12-8-59, Cl. 71-2.7.
- Tilles, Harry, and J. Antognini, to Stauffer Chemical Co. Chlorinated thiolcarbamates and their use as herbicides. 2,916,370, 12-8-59, Cl. 71-2.7.
- Tilley, Aubra E., to California Research Corp. Seismic prospecting utilizing trace integration. 2,879,860, 3-31-59, Cl. 181-5.
- Tilley, David. Means for applying simulated masonry to walls and the exterior surfaces of buildings. 2,893,098, 7-7-59, Cl. 25-1.
- Tilley, Donald W.: *See*—  
Price, Peter R. 2,871,012.
- Tilli, Vincent L., and A. L. Bohlinger, to General Electric Co. Fault-responsive sectionalizing valve arrangement. 2,873,759, 2-17-59, Cl. 137-266.
- Tillman, Edwin E., to Triple Seal Corp. Device for threading plugs through punctures in tires. 2,871,742, 2-3-59, Cl. 81-15.7.
- Tillman, Robert M., to Burroughs Corp. Discriminator. 2,900,508, 8-18-59, Cl. 250-31.
- Tillman, Robert M., to Burroughs Corp. Square wave oscillator. 2,912,653, 11-10-59, Cl. 331-113.
- Tillotson Mfg. Co., The: *See*—  
Phillips, Bernard C. 2,903,250.  
Phillips, Bernard C. 2,905,327.
- Tilman, Ted N.: *See*—  
Jennings, Jo E., and Tilman. 2,917,596.
- Tilmann, Richard A., to Cribben and Sexton Co. Gas burning space heater. 2,880,717, 4-7-59, Cl. 126-110.
- Tilney, Ralph B.: *See*—  
Dube, John E., and Tilney. 2,876,629.
- Tilney, Ralph B., to Alco Valve Co. Reverse cycle valve. 2,888,039, 5-26-59, Cl. 137-601.
- Tilney, Ralph B., to Alco Valve Co. Electric control circuits for heat pumps. 2,900,805, 8-25-59, Cl. 62-160.
- Tilney, Ralph B., to Alco Valve Co. Reversing valve particularly for deep well pumps. 2,902,051, 9-1-59, Cl. 137-620.
- Tilt-A-Door Corp.: *See*—  
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- Tiltman Langley Ltd.: *See*—  
Marshall, Colin S. R. 2,869,697.
- Tilton, Russell G., to Multiscope, Inc. Moving stairway hand rail construction. 2,879,881, 3-31-59, Cl. 198-16.
- Tilton, William J., and W. T. Leslie, to Raymond Bag Corp. Liner inserting device. 2,896,516, 7-28-59, Cl. 93-8.
- Timax Associates: *See*—  
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Slatin, Harvey L. 2,919,234.
- Timber Engineering Co.: *See*—  
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- Timber Structures, Inc.: *See*—  
Payzant, Henry H. 2,870,807.  
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Payzant, Henry H., and Leffler. 2,890,677.
- Time, Inc.: *See*—  
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Brink, Robert M., and Klyce. 2,902,329.  
Faerber, Harry W. 2,868,122.  
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Faerber, Harry W. 2,917,168.  
Hall, Vincent C. 2,892,016.  
Moe, William W. 2,873,312.  
Moe, William W. 2,873,362.  
Ross, Austin. 2,877,424.
- Timefax Corp.: *See*—  
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- Timely Novelty Corp.: *See*—  
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- Times Facsimile Corp.: *See*—  
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- Timken Roller Bearing Co., The: *See*—  
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Jatzcak, Chester F. 2,883,281.  
Morgan, Ralph E. 2,882,999.
- Timm, Walter C., to Bell Telephone Laboratories, Inc. Transistor gain-bandwidth test circuit. 2,909,730, 10-20-59, Cl. 324-158.
- Timmer, David J., to General Motors Corp. Refrigerating apparatus. 2,892,325, 6-30-59, Cl. 62-456.
- Timmerman, Julius W., to Allis-Chalmers Mfg. Co. Control system for fluid operated mechanism. 2,873,084, 2-10-59, Cl. 251-239.
- Timmerman, Julius W., to Allis-Chalmers Mfg. Co. Circuit breaker structure with improved interlocking mechanism for protecting operating personnel. 2,914,707, 11-24-59, Cl. 317-103.
- Timmerman, Robert W.: *See*—  
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- Timmerman, Robert W., and H. C. Kutz, to Food Machinery and Chemical Corp. Method of producing carbon disulfide. 2,888,329, 5-26-59, Cl. 23-206.
- Timmis, Geoffrey M., to Burroughs Wellcome & Co. (U.S.A.) Inc. Leukemia treatment. 2,917,432, 12-15-59, Cl. 167-65.
- Timmler, Helmut: *See*—  
Henecka, Hans, Timmler, and Lorenz. 2,888,451.
- Timmons, Charles E., to Stephen Whitman & Son, Inc. Mechanical stroking device. 2,880,695, 4-7-59, Cl. 118-14.
- Timmons, George A., and M. Semchysen, to American Metal Climax, Inc. Molybdenum-titanium-cobalt alloy. 2,884,324, 4-28-59, Cl. 75-176.
- Timms, Louise V. Compression holder for elongated objects. 2,899,077, 8-11-59, Cl. 211-60.
- Timoff, George T., and W. K. Jensen, to General Motors Corp. Horn blowing mechanism. 2,894,090, 7-7-59, Cl. 200-61.56.
- Timoney, Robert E. Baby stair trainer. 2,871,914, 2-3-59, Cl. 155-22.
- Timothy, Patrick H., 1/2 to Southern Natural Gas Co., and 1/2 to Brown & Root, Inc. Pipe laying apparatus and method. 2,910,835, 11-3-59, Cl. 61-72.
- Timperman, Ernest J., to The Baldwin Piano Co. Audio modulator. 2,916,706, 12-8-59, Cl. 332-68.
- Timson, George F.: *See*—  
Patton, James L., and Timson. 2,900,324.  
Rice, Louis F., Patton, Timson, and Partridge. 2,900,325.
- Tinari, Donald F.: *See*—  
Kuhl, Charles F., Jr., Tank, and Tinari. 2,882,390.
- Tinch, Robert J.: *See*—  
Tullis, James L., and Tinch. 2,906,451.
- Tingas, Arthur S., to Celanese Corp. of America. Plying and twisting of yarns. 2,882,675, 4-21-59, Cl. 57-75.
- Tingley, Loyal H., Jr. Clothes treating liquid-dispenser for automatic washing machines. 2,868,006, 1-13-59, Cl. 68-207.
- Tingley, Loyal H., Jr. Clothes treating material dispenser for automatic washers of the tumble type. 2,912,842, 11-17-59, Cl. 68-24.
- Tinius Olsen Testing Machine Co.: *See*—  
Gruber, Warren M. 2,909,948.  
Strimel, Robert S. 2,910,778.
- Tinker and Razor: *See*—  
Razor, John P. 2,885,636.



- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. Acoustical silencer. 2,872,998, 2-10-59, Cl. 181-53.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. High pressure closure. 2,888,249, 5-26-59, Cl. 257-221.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. High pressure closure. 2,888,250, 5-26-59, Cl. 257-221.
- Tinker, Townsend, to American Radiator & Sanitary Corp. Combustion apparatus and temperature limiting means therefor. 2,906,516, 9-29-59, Cl. 263-20.
- Tinker, Townsend, to American Radiator & Standard Sanitary Corp. Cupola door. 2,910,022, 10-27-59, Cl. 110-176.
- Tinnerman, George A.: *See*—
- Rafferty, James F., and Tinnerman. 2,886,077.
- Tinnerman, George A. Assembly retainers. 2,897,465, 7-28-59, Cl. 336-210.
- Tinnerman, George A. Threadless nut having a plurality of teeth for accommodating studs of various diameters. 2,913,950, 11-24-59, Cl. 85-35.
- Tinnerman Products, Inc.: *See*—
- Flora, Laurence H. 2,875,804.
- Flora, Laurence H. 2,875,805.
- Flora, Laurence H. 2,883,011.
- Flora, Laurence H. 2,893,458.
- Flora, Laurence H. 2,904,820.
- Flora, Laurence H. 2,916,114.
- Flora, Laurence H., and Balint. 2,893,671.
- Holton, Robert J. 2,875,487.
- Roberts, Raymond A., Jr. 2,883,228.
- Roberts, Raymond A., Jr. 2,911,575.
- Van Niel, Clarence R., and Sasena. 2,916,115.
- Tino, Richard V.: *See*—
- Foote, Howland S., and Tino. 2,872,253.
- Tinsley, John C. Two-point level. 2,904,892, 9-22-59, Cl. 33-209.
- Tinsley, Samuel W., to Union Carbide Corp. Preparation of para, beta-dinitrostyrene. 2,884,465, 4-28-59, Cl. 260-645.
- Tinsley, Samuel W., to Union Carbide Corp. Styrene derivatives and process for preparing same. 2,898,381, 8-4-59, Cl. 260-646.
- Tinsman, Jack R., to W. J. Speckman, and C. J. Wilhelmi. Fluid operated reciprocating rack means for unidirectionally rotating a threading tool. 2,880,430, 4-7-59, Cl. 10-89.
- Tintinger, Emmett A. 20% to O. R. Clawson. Valve seat stone dresser. 2,894,504, 7-14-59, Cl. 125-11.
- Tipotsch, Donald G., to Beckman Instruments, Inc. Ion collector for mass spectrometry. 2,911,532, 11-3-59, Cl. 250-41.9.
- Tipper, Maynard J. G., to Meat Packers Equipment Co. Sawdust burning pot for smoke generators. 2,876,762, 3-10-59, Cl. 126-59.5.
- Tipper, Maynard J. G., to Tipper Tie, Inc. Casing closure and closing apparatus. 2,879,512, 3-31-59, Cl. 1-187.
- Tipper, Maynard J. G., to Tipper Tie Products of N.Y., Inc. Apparatus for fastening casings with staple-like fasteners. 2,880,419, 4-7-59, Cl. 1-3.
- Tipper, Maynard J. G. Cycle control for casing closure. 2,901,068, 8-25-59, Cl. 192-25.
- Tipper Tie, Inc.: *See*—
- Tipper, Maynard J. G. 2,879,512.
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- Tipper, Maynard J. G. 2,880,419.
- Tippet, Philip V., to Farrel-Birmingham Co., Inc. Cane mills. 2,869,452, 1-20-59, Cl. 100-165.
- Tippett, Oscar W.: *See*—
- Haley, Frank. 2,878,927.
- Tippetts-Abbott-McCarthy-Stratton: *See*—
- Silveston, Barnett. 2,914,080.
- Tippmann, Gerhard: *See*—
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- Tipsord, Clyde E., and W. F. Turner, to Bodendieck Tool Co. Hot line guards. 2,871,282, 1-27-59, Cl. 174-5.
- Tipton, Clyde R., Jr.: *See*—
- Schonfeld, Fred W., and Tipton. 2,885,283.
- Tipton, James E.: *See*—
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- Hoffmann, Ernest, and Gresham. 2,879,916.
- Tirico, Arthur L.: *See*—
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- Ishoy, Albert D., and Tiscornia. 2,883,009.
- Tisdale, Thomas B.: *See*—
- Deinlein, Victor E., and Tisdale. 2,914,211.
- Tisdall, Garnet H. Bracket for bathroom handrails. 2,914,284, 11-24-59, Cl. 248-216.
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- Lynch, Leonard J., and Tishrock. 2,870,443.
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- Tisserant, Henry R. Sheet metal panel drill. 2,897,696, 8-4-59, Cl. 77-67.
- Titan Tool Co.: *See*—
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- Titanium Metals Corp. of America: *See*—
- Cooper, Donald E. 2,890,109.
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- Davis, Delmar E., and Tarsey. 2,890,100.
- Dilling, Elmer D. 2,871,178.
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- Krieger, Robert J. 2,897,340.
- McMillian, John E. 2,897,539.
- Oswandel, Edward F. 2,891,286.
- Schlotthauer, Joseph S., Snyder, and Lyons. 2,897,918.
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- Tarsey, Alexandre R., and Guthrie. 2,871,094.
- Yoblin, Jack A. 2,905,547.
- Titanium Zirconium Co., Inc.: *See*—
- Linnell, Robert H. 2,871,138.
- Linnell, Robert H. 2,889,232.
- Titchenal, Oliver R., to St. Regis Paper Co. Valve bag packing apparatus. 2,887,292, 5-19-59, Cl. 249-63.
- Titcomb, Albert S. Segmental bonded abrasive bodies. 2,883,807, 4-28-59, Cl. 51-209.
- Titeca, Louis R. Ice core drill. 2,880,968, 4-7-59, Cl. 255-69.
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- O'Kelley, Arlie A., Titsworth, and Martin. 2,907,646.
- Tittle, John C., Jr.: *See*—
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- Titus, Charles H., to General Electric Co. Electromagnetic device. 2,918,547, 12-22-59, Cl. 200-87.
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- Titzer, Thomas L. Grass catcher for rotary mowers. 2,903,837, 9-15-59, Cl. 56-202.
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- Tjepkema, Jacobus J.: *See*—
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- Tjossem, Willard W., to Lockheed Aircraft Corp. Rocket launcher. 2,900,874, 8-25-59, Cl. 89-1.7.
- Tkachyk, Richard: *See*—
- Tkachyk, Walter M., and R. 2,869,895.
- Tkachyk, Walter M. and R. Short hitch steering assembly. 2,869,895, 1-20-59, Cl. 280-411.
- Tlaker, Erich: *See*—
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- Appel, Gerhard H., and Tlaker. 2,905,031.
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- Tobe Deutschmann Corp.: *See*—
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- Wiley, Fred E. 2,879,179.
- Tober, Lawrence C.: *See*—
- Childers, Spencer L., and Tober. 2,877,924.
- Tobey, Frederic S., 1/2 to W. H. Brady, Jr. Control system for feeding mechanism. 2,877,846, 3-17-59, Cl. 164-49.
- Tobey, Frederic S. Mechanism and method for delivering thin flat elements singly from a stack of the same. 2,887,316, 5-19-59, Cl. 271-36.
- Tobey, Leon H., to Bloomer Bros. Co. Device for opening carton closure flaps. 2,871,641, 2-3-59, Cl. 53-382.
- Tobey, Raymond E.: *See*—
- Beckett, Leo G., and Tobey. 2,881,601.
- Tobias, Arthur R., to The Garlock Packing Co. Seal. 2,882,081, 4-14-59, Cl. 288-2.
- Tobias, Jordan. Automatic hydraulic transmission. 2,887,960, 5-26-59, Cl. 103-120.
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- Schindler, James C., Spring, and Tobiasz. 2,875,749.
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- Tobin, Frank J. Laminated tile. 2,871,152, 1-27-59, Cl. 154-43.
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- Tobin, Kenneth J., to Evans Products Co. Freight loading apparatus. 2,873,695, 2-17-59, Cl. 105-369.
- Tobis, Robert A., and W. D. Greenlaw, to Crosby Valve & Gage Co. Relief valves. 2,880,751, 4-7-59, Cl. 137-478.
- Toby, Max E., to Package Enterprises, Inc. Apparatus for receiving, conveying, weighing and bagging articles. 2,887,837, 5-26-59, Cl. 53-258.



- Tocchetto, Virgil D. Twin latch mechanism. 2,905,493, 9-22-59, Cl. 292-37.
- Tocchetto, Virgil D. Door bolt. 2,905,494, 9-22-59, Cl. 292-182.
- Tocci, Louis G. Dry material mixing machine. 2,868,519, 1-13-59, Cl. 259-57.
- Toce, Charles A., and R. F. Broussard, to Electro-Acid Corp. Electric storage battery. 2,902,532, 9-1-59, Cl. 136-171.
- Tocher, Frank L. *See—*  
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- Tochon, Rene. Rotatable vehicle headlight assembly. 2,898,450, 8-4-59, Cl. 240-61.4.
- Tock, Victor K. *See—*  
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- Toczylowski, Henryk S., to Beacons, Optical and Precision Materials Co. Ltd. Apparatus for adjusting the reticule of a range-finding mechanism. 2,887,774, 5-26-59, Cl. 33-46.
- Tod, Allan H., to Acme Visible Records, Inc. Record index means. 2,882,626, 4-21-59, Cl. 40-20.
- Tod, Allan H., and W. W. Gray, to Acme Visible Records, Inc. Limited access remote controllable visible record equipment. 2,883,250, 4-21-59, Cl. 312-19.
- Tod, Allan H., and W. W. Gray, to Acme Visible Records, Inc. Record card transfer device. 2,900,985, 8-25-59, Cl. 129-16.
- Todd, Alexander W., and H. P. Kwapien, to Van Norman Industries, Inc. Work feeding mechanism for a centerless grinder. 2,911,763, 11-10-59, Cl. 51-103.
- Todd, Alva C., to International Telephone and Telegraph Corp. Band-pass filters. 2,892,163, 6-23-59, Cl. 333-73.
- Todd, Burt K., to The Jeannette Glass Co. Container construction. 2,918,188, 12-22-59, Cl. 215-99.5.
- Todd, C. *See—*  
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- Todd, Charlie L. Fishing device. 2,901,855, 9-1-59, Cl. 43-17.
- Todd, Charles P., 1/2 to H. J. Bell. Truck loading and unloading device. 2,910,203, 10-27-59, Cl. 214-672.
- Todd, David B., to Shell Development Co. Reducing entrainment from fluidized beds. 2,874,480, 2-24-59, Cl. 34-10.
- Todd, Edwin T., to General Motors Corp. Amphibious vehicle. 2,908,241, 10-13-59, Cl. 115-1.
- Todd, Eric E. Process of concentrating pimiento peppers. 2,897,085, 7-28-59, Cl. 99-103.
- Todd, Eric E. Method and apparatus for solvent extraction of oleoresin from organic concentrates. 2,897,185, 7-28-59, Cl. 260-109.
- Todd, Everett W., to Massey-Ferguson Inc. Implement gauging means. 2,915,130, 12-1-59, Cl. 172-239.
- Todd, Harold E., to General Motors Corp. Reversing switching circuit for automatic headlight. 2,894,172, 7-7-59, Cl. 315-83.
- Todd, Harold E., S. Meyer, R. A. Gaither, F. H. Meek, and G. E. Wanttaja, to General Motors Corp. Headlamp pre-aiming apparatus. 2,880,557, 4-7-59, Cl. 51-134.
- Todd, Henry, to United States Steel Corp. Sample holder and method for spectrographic analysis. 2,884,552, 4-28-59, Cl. 313-146.
- Todd, Hoyt H., to Western Carbide Corp. Submerged electric arc welding process. 2,868,949, 1-13-59, Cl. 219-73.
- Todd, Hoyt H., to Western Carbide Corp. Process for the manufacture of metallic carbides. 2,886,454, 5-12-59, Cl. 106-43.
- Todd, Hoyt H., to Western Carbide Corp. Apparatus for dispensing a powder coating to welding wire. 2,886,695, 5-12-59, Cl. 219-130.
- Todd, John, Jr., and R. P. Rardain. Vacuum apparatus for picking up particles of clipped hair. 2,908,933, 10-20-59, Cl. 15-414.
- Todd, John M., to The Key-Tag Checking System Co. Collar forming machine. 2,886,221, 5-12-59, Cl. 223-52.1.
- Todd, William. Radio transmission system. 2,910,683, 10-27-59, Cl. 340-345.
- Todd, William O. Protective device for vehicle electric equipment. 2,913,590, 11-17-59, Cl. 307-10.
- Todding, Inc. *See—*  
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- Toderick, Samuel L., to John Deere Plow Co. (Ltd.). Stop mechanism for power lift. 2,871,962, 2-3-59, Cl. 172-465.
- Toderick, Samuel L., to John Deere Plow Co. (Ltd.). Counter drive. 2,888,833, 6-2-59, Cl. 74-434.
- Todoroff, Alexander N., to Western Electric Co., Inc. Control system for fabricating and processing machines. 2,883,514, 4-21-59, Cl. 219-79.
- Todt, William C., to Gulf Oil Corp. Well testing apparatus. 2,905,248, 9-22-59, Cl. 166-142.
- Toebe, George F. Arc current controlling apparatus for welders' helmets. 2,904,669, 9-15-59, Cl. 219-147.
- Toedtman, John A., and R. W. Dodson, Jr., to Jasper Blackburn Corp. Power line take off clamp. 2,915,733, 12-1-59, Cl. 339-109.
- Toennies, Owe M., to The Grove Research and Development Co. Machine for folding and sealing packages. 2,884,750, 5-5-59, Cl. 53-196.
- Toensmeier, Patrick A., to The New Haven Board & Carton Co. Can carrier. 2,874,333, 2-24-59, Cl. 206-65.
- Toensmeier, Patrick A., to The New Haven Board & Carton Co. Recloseable cartons. 2,886,234, 5-12-59, Cl. 229-44.
- Toensmeier, Patrick A., to The New Haven Board & Carton Co. Carrier cartons. 2,893,593, 7-7-59, Cl. 220-115.
- Toepfer, Walter J., and J. R. Prendergast, to Owens-Illinois Glass Co. Plunger removal chuck for insulator press. 2,909,004, 10-20-59, Cl. 49-43.
- Toeppen, Thurston H., to International Business Machines Corp. Equal key trip lever. 2,889,024, 6-2-59, Cl. 197-17.
- Toeppen, Thurston H., to International Business Machines Corp. Tabulating device. 2,902,137, 9-1-59, Cl. 197-177.
- Tofin, Nicholas. Swathing machine. 2,906,078, 9-29-59, Cl. 56-23.
- Toffolo, Dominic S. Biconical refractor. 2,881,654, 4-14-59, Cl. 88-1.
- Toffolo, Dominic S. Conical refractor. 2,882,784, 4-21-59, Cl. 88-1.
- Tofield, Ronnie. Portable electric hair dryer. 2,900,739, 8-25-59, Cl. 34-99.
- Toft, Andrew M., to National Can Corp. Dispensing can having a resilient spout. 2,867,361, 1-6-59, Cl. 222-574.
- Toggenburger, John, to Underwood Corp. Stepwise carriage positioning mechanism and related features. 2,872,015, 2-3-59, Cl. 197-91.
- Toggenburger, John, to Underwood Corp. Device to locate a typewriter carriage at multi-incremental feed stations. 2,885,052, 5-5-59, Cl. 197-91.
- Togias, James, to General Electric Co. Method of making a luminescent screen. 2,914,420, 11-24-59, Cl. 117-33.5.
- Tognola, Tullio, to Bendix Aviation Corp. Electrical apparatus. 2,870,376, 1-20-59, Cl. 315-59.
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- Toland, Gayle E. Well torpedo firing heads. 2,885,959, 5-12-59, Cl. 102-86.2.
- Toland, Wayne G., to International Harvester Co. Replaceable cultivator point. 2,895,559, 7-21-59, Cl. 172-762.
- Toland, Wayne G., and D. A. Murray, to International Harvester Co. Plow beam trip for two-way plow. 2,913,059, 11-17-59, Cl. 172-224.
- Toland, William G., to California Research Corp. Production of trimesic acid. 2,876,257, 3-3-59, Cl. 260-524.
- Toland, William G., to California Research Corp. Oxidation process with sulfur and water. 2,903,480, 9-8-59, Cl. 260-523.
- Toland, William G., and C. D. Heaton, to California Research Corp. Preparation of amino benzoic acids. 2,878,281, 3-17-59, Cl. 260-518.
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- Toland, William G., Jr., to California Research Corp. Process for producing low molecular weight propylene polymers. 2,870,217, 1-20-59, Cl. 260-614.
- Toland, William G., Jr., to California Research Corp. Oxidation process employing sulfur dioxide. 2,900,412, 8-18-59, Cl. 260-524.
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- Toler, Otis R. Dispensing and display rack for coiled merchandise. 2,895,691, 7-21-59, Cl. 242-85.
- Toles, Burton. Packaging apparatus. 2,907,153, 10-6-59, Cl. 53-55.
- Tolf, Marvin L., to Raytheon Mfg. Co. Recording means. 2,897,037, 7-28-59, Cl. 346-21.
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- Tolkmath, Henry, to The Dow Chemical Co. Method for the manufacture of *o*-aryl phosphorodichloridothioates. 2,872,473, 2-3-59, Cl. 260-461.
- Tolkmath, Henry, and K. C. Kauer, to The Dow Chemical Co. Phosphoroamidothioates. 2,879,286, 3-24-59, Cl. 260-461.
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- Tolkmath, Henry, and E. C. Britton, to The Dow Chemical Co. *o*-aryl *o*-methyl phosphoroamidothioates. 2,908,706, 10-13-59, Cl. 260-461.
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- Tollefson, Robert D., to Collins Radio Co. Variable inductor. 2,880,400, 3-31-59, Cl. 336-20.
- Tollefson, Robert D., and J. R. Wilkerson, to United States of America, Navy. Multi-pulse synchronizer. 2,892,943, 6-30-59, Cl. 250-27.
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- Tolley, Willis B., to United States of America, Atomic Energy Commission. Production of uranium-calcium fluoride. 2,880,059, 3-31-59, Cl. 23-14.5.
- Tolley, Willis B., and R. C. Smith, to United States of America, Atomic Energy Commission. Method of producing plutonium tetrafluoride. 2,917,360, 12-15-59, Cl. 23-14.5.
- Tolman, Edgar B., to United Conveyor Corp. Apparatus for and method of handling molten furnace ash. 2,911,671, 11-10-59, Cl. 18-2.4.
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- Tolomeo, Albert J., L. J. Di Battista, and R. Smith, to United Aircraft Corp. Blade positioner. 2,880,810, 4-7-59, Cl. 170-160.37.
- Tolson, William A., to Radio Corp. of America. Servo system. 2,915,247, 12-1-59, Cl. 235-183.
- Tolson, William A., B. A. Trevor, and C. J. Young, to Radio Corp. of America. System for translating coded message to printed record. 2,878,313, 3-17-59, Cl. 178-30.
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- Tom, Wade: See—  
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- Toma, John W., to General Electric Co. Unbalance sensing arrangement for machines having a centrifugal liquid extraction step. 2,917,175, 12-15-59, Cl. 210-144.
- Tomado N. V.: See—  
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- Tomasovich, Joseph J. Tractor ski. 2,883,204, 4-21-59, Cl. 280-13.
- Tomchak, Joseph A. Tire defroster, cleaner and dryer. 2,867,914, 1-13-59, Cl. 34-104.
- Tomcufcik, Andrew S.: See—  
 Scalera, Mario, Tomcufcik, and Hardy. 2,879,274.
- Tomerlin, William C., Jr.: See—  
 Elston, William A., McElwee, Moore, and Tomerlin. 2,896,332.
- Tomii, Iryo. Garment and process of cutting and sewing clothes. 2,886,821, 5-19-59, Cl. 2-93.
- Tomik, George A., to International Harvester Co. Wheels for vehicles. 2,877,055, 3-10-59, Cl. 301-9.
- Tomik, George A. Dispenser. 2,899,915, 8-18-59, Cl. 107-8.
- Tominae, George T., to Massey-Ferguson, Inc. Two-way plow. 2,891,459, 6-23-59, Cl. 97-26.
- Tomishima, Hiroshi: See—  
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- Tomiyasu, Kiyo, to Sperry Rand Corp. Microwave spectrometer absorption cells. 2,867,781, 1-6-59, Cl. 333-73.
- Tomiyasu, Kiyo, to Sperry Rand Corp. Electric field probe. 2,873,430, 2-10-59, Cl. 333-35.
- Tomiyasu, Kiyo, to Sperry Rand Corp. Microwave frequency meter. 2,901,698, 8-25-59, Cl. 324-78.
- Tomiyasu, Kiyo, to Sperry Rand Corp. Adjustable attenuators for microwave radio energy. 2,907,961, 10-6-59, Cl. 333-81.
- Tomkin, Sam. Adapter assembly for bottle filling device. 2,902,061, 9-1-59, Cl. 141-55.
- Tomkins, John A. Calculator keyboard simulator for training purposes. 2,892,266, 6-30-59, Cl. 35-5.
- Tomko, Donald R.: See—  
 Hungerford, Philip C., Jr., and Tomko. 2,885,896.  
 Sacchini, Columbus R., and Tomko. 2,881,881.
- Tomko, Donald R., to Curtiss-Wright Corp. Coil clutch mechanisms. 2,894,403, 7-14-59, Cl. 74-164.
- Tomkow, Edward, to Ellstrom, Inc. Gage for checking internal and external dimensions. 2,876,550, 3-10-59, Cl. 33-147.
- Tomkow, Edward, to Dearborn Gage Co. Air gage head. 2,876,553, 3-10-59, Cl. 33-169.
- Tomkowiak, Sylvester A.: See—  
 Kocher, Erich J., and Tomkowiak. 2,897,675.
- Tomlan, John G.: See—  
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- Tomlin, Andrew, M. W. Harman, R. O. Zerbe and R. L. Sibley, to Monsanto Chemical Co. Vulcanizing furnace black stocks with dithio secondary amines. 2,892,805, 6-30-59, Cl. 260-41.5.
- Tomlin, Edward A., to Gestetner Ltd. Duplicating machines. 2,878,750, 3-24-59, Cl. 101-116.
- Tomlin, Frederick M. Guards and locators for electrical outlet wall boxes. 2,894,656, 7-14-59, Cl. 220-3.4.
- Tomlin, Robert: See—  
 Cooper, Guy R., and Tomlin. 2,896,910.
- Tomlinson, Fay M. Water aerator. 2,889,999, 6-9-59, Cl. 239-431.
- Tomlinson, Fay M. Hose nozzle. 2,906,464, 9-29-59, Cl. 239-461.
- Tomlinson, Geoffrey E. S., to The Birmingham Small Arms Co. Ltd. Collet clutch actuating mechanism. 2,883,199, 4-21-59, Cl. 279-51.
- Tomlinson, Geoffrey E. S., to The Birmingham Small Arms Co. Ltd. Conical friction clutches. 2,884,105, 4-28-59, Cl. 192-66.
- Tomlinson, George H., II, to Howard Smith Paper Mills Ltd. Method and apparatus separating dirt from aqueous suspensions of pulp fibres. 2,878,934, 3-24-59, Cl. 209-211.
- Tomlinson, Henry R. Remote-operated fuse. 2,896,050, 7-21-59, Cl. 200-113.
- Tomlinson, William F., to The Stepan Chemical Co. Detergent composition. 2,870,091, 1-20-59, Cl. 252-137.
- Tomlinson, William H.: See—  
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- Tomlinson, William K. Ice machine. 2,872,791, 2-10-59, Cl. 62-347.
- Tommelstad, Einar: See—  
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- Tommelstad, Einar, to Elektrokemisk A/S. Electrode casing for self-baking electrodes. 2,876,269, 3-3-59, Cl. 13-18.
- Tommervik, Traverse G. Weighing scale. 2,913,238, 11-17-59, Cl. 265-68.
- Tomonari, Tadao, N. Ishimoto, T. Togo, and T. Izumi, to Osaka Titanium Seizo Kabushiki Kaisha. Methods and apparatus for the electrolytic-refining of titanium metal or zirconium metal. 2,905,613, 9-22-59, Cl. 204-216.
- Tompkins, Albert H.: See—  
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- Tompkins, Edward R., to United States of America, Atomic Energy Commission. Separation of barium values from uranyl nitrate solutions. 2,875,024, 2-24-59, Cl. 23-14.5.
- Tompkins, Edward R., and G. W. Parker, to United States of America, Atomic Energy Commission. Adsorption method for separating metal cations. 2,877,093, 3-10-59, Cl. 23-23.
- Tompkins, Frank A.: See—  
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- Tompkins, George R. Washing apparatus. 2,896,857, 7-28-59, Cl. 239-185.
- Tompkins, Howard E., to Burroughs Corp. Transistor actuated device. 2,896,130, 7-21-59, Cl. 317-148.5.
- Tompkins, Howard E., to Burroughs Corp. Photocell actuated systems. 2,904,698, 9-15-59, Cl. 250-214.
- Tompkins, John E.: *See*—  
Spencer, Edward G., Reggia, Tompkins, and Hatcher. 2,905,940.
- Toms, Ernest J. Skate sharpener. 2,900,769, 8-25-59, Cl. 51-214.
- Toms, Robert S., to Bell Telephone Laboratories, Inc. Terminal insulator. 2,916,719, 12-8-59, Cl. 339-60.
- Tondat, Julius J., and O. H. Goldman, to General Dynamics Corp. Multiple fuse. 2,874,248, 2-17-59, Cl. 200-125.
- Tondreau, Albert W.: *See*—  
Gage, Fred W., and Tondreau. 2,870,672.
- Tondreau, Albert W., to Warner Bros. Pictures, Inc. Stereoscopic camera system. 2,868,065, 1-13-59, Cl. 88-16.6.
- Tondreau, Albert W.,  $\frac{1}{2}$  to J. B. Rudy. Angle of attack and yaw transmitter. 2,888,827, 6-2-59, Cl. 73-180.
- Tone, John W., and L. I. Freedman. Manicuring device. 2,880,737, 4-7-59, Cl. 132-73.6.
- Tone, John W., and L. Bentzman, to Saxony Electronics, Inc. Regulating device for electrical vaporizer. 2,885,527, 5-5-59, Cl. 219-40.
- Toner, James W., to International Business Machines Corp. Timed pulse delay circuit. 2,910,583, 10-27-59, Cl. 250-27.
- Tongret, Stewart R. Adjustable housing for radiation devices. 2,890,351, 6-9-59, Cl. 250-239.
- Tongue, Ben H. Transmission line tap-off. 2,914,737, 11-24-59, Cl. 333-8.
- Toni, Pierre: *See*—  
Ladeuze, Maurice J. B., and Toni. 2,881,101.
- Tonka Toys, Inc.: *See*—  
Grochen, Charles M. 2,916,851.
- Tonkin, Josephine. Crib rocker. 2,896,225, 7-28-59, Cl. 5-109.
- Tonkin, Kenneth J., to A. B. Dick Co. Corner separator mechanism for duplicators. 2,912,241, 11-10-59, Cl. 271-22.
- Tonks, Lewi, to United States of America, Atomic Energy Commission. Fuel element for neutronic reactor. 2,905,611, 9-22-59, Cl. 204-193.2.
- Tonning, Bernard J., and C. W. Wexstaff, to American Seating Co. Baptismal font. 2,886,393, 5-12-59, Cl. 312-228.
- Ton-Tex Corp.: *See*—  
De Windt, Herbert J. 2,893,007.
- Toohy, Clarence P. Wheel attachment for sleds. 2,885,214, 5-5-59, Cl. 280-8.
- Tooke, Ernest. Distributor gauge. 2,893,132, 7-7-59, Cl. 33-180.
- Tool Service Engineering Co.: *See*—  
Huntley, James R., and Southard. 2,892,256.
- Toomey, Eugene J., to Texas Instruments Inc. Hearing-aid having directional reception characteristics. 2,896,024, 7-21-59, Cl. 179-107.
- Toomim, Hershel, and G. H. Hare, to Beckman Instruments, Inc. Bidirectional zero adjustment circuit. 2,903,523, 9-8-59, Cl. 179-171.
- Toone, B. (Nottingham) Ltd.: *See*—  
Toone, Ralph N. 2,869,343.
- Toone, Ralph N., to B. Toone (Nottingham) Ltd. Knitting machine. 2,869,343, 1-20-59, Cl. 66-134.
- Toornman, Burton P., to The Dow Chemical Co. Method and composition for the control of undesired vegetation. 2,880,082, 3-31-59, Cl. 71-2.7.
- Tootal Broadhurst Lee Co. Ltd.: *See*—  
Donaldson, William K. 2,909,921.
- Donaldson, William K., and Ainscough. 2,870,628.
- Topanelian, Edward J.: *See*—  
En Dean, Howard J., Jones, and Topanelian. 2,884,624.
- Topel, Russell. Attachment for an agricultural implement. 2,876,586, 3-10-59, Cl. 47-1.3.
- Topf, Sam B., to Concord Supplies and Equipment Corp. Grain storage bag. 2,895,400, 7-21-59, Cl. 98-55.
- Topfer, Alvin R.: *See*—  
Kehler, Russell D., and Topfer. 2,906,958.
- Santamaria, Salvatore, and Topfer. 2,872,645.
- Topfer, Alvin R., to Philco Corp. Jet-electrolytic method of configuring bodies. 2,913,383, 11-17-59, Cl. 204-143.
- Topfer, Herbert, to Siemens & Halske Akt. Circuit arrangement for party-line selection in telephone systems or the like. 2,886,644, 5-12-59, Cl. 179-17.
- Topol, George J.: *See*—  
Grant, Michael G., and Topol. 2,919,030.
- Taylor, Jack A., and Topol. 2,883,345.
- Topol, George J., L. B. Baranowski, and I. Bartik, to Bowser, Inc. Process and apparatus for de-aerating oleaginous materials. 2,870,859, 1-27-59, Cl. 183-2.5.
- Topp, Hereward J. B. Apparatus for use in classifying or both classifying and drying loose material. 2,915,181, 12-1-59, Cl. 209-279.
- Töppel, Otmar, to Aschaffenburg Zellstoffwerke A.G. Method for the separation of carbonyl compounds. 2,897,238, 7-28-59, Cl. 260-600.
- Topping, Cuthbert, to Shell Development Co. Splitting streams of particulate solids. 2,904,228, 9-15-59, Cl. 222-330.
- Torbett, Donald V., and P. R. Shelley. Water ski tow. 2,918,280, 12-22-59, Cl. 272-32.
- Torbin, Milton A. Floor racks for meat trucks. 2,869,920, 1-20-59, Cl. 296-24.
- Torcheux, Emile: *See*—  
Honore, Etienne, and Torcheux. 2,914,250.
- Torelli, Vesperto: *See*—  
Anatol, Jesus, and Torelli. 2,917,541.
- Torgersen, George P.: *See*—  
Mooney, John D., and Torgersen. 2,885,909.
- Torgerson, John E. Safety water supply shut-off device. 2,877,784, 3-17-59, Cl. 137-67.
- Torino, Henry, and J. Chilleml. Dispensing heating cabinet. 2,908,791, 10-13-59, Cl. 219-19.
- Torit Mfg. Co.: *See*—  
Poch, Alfred B. 2,905,266.
- Torke, Erich, and J. König, to Phrix-Werke A. G. Process of crease-proofing cellulose fibers and fabrics by applying urea-formaldehyde-glyoxal reaction products. 2,876,062, 3-3-59, Cl. 8-116.2.
- Tormag Transmissions Ltd.: *See*—  
Zozulin, Igor V. 2,873,394.
- Torn, Lawrence: *See*—  
Brockman, Milton H., and Torn. 2,911,526.
- Tornabene, Frank S. Toy pistols. 2,869,873, 1-20-59, Cl. 273-1.
- Tornado A.G.: *See*—  
Muller, Otto. 2,880,446.
- Tornado Ramset G.m.b.H. & Co.: *See*—  
Skumawitz, Max. 2,875,665.
- Skumawitz, Max. 2,890,454.
- Tornberg, William. Tube locking device. 2,907,533, 10-6-59, Cl. 242-72.
- Tornsjo, Sven A. E., to George B. Graff Co. File tab or signal. 2,881,766, 4-14-59, Cl. 129-16.8.
- Toro Mfg. Corp.: *See*—  
Benson, Donald O. 2,870,616.
- Horner, Herbert F., Jr. 2,877,617.
- Toro Mfg. Corp. of Minnesota: *See*—  
Benson, Don O. 2,886,117.
- Benson, Don O., Kroll, and Chou. 2,877,619.
- Benson, Donald O. 2,869,310.
- Ertsgaard, Byron L., and Sonmore. 2,904,287.
- Toronto Type Foundry: *See*—  
Lytle, James C. 2,916,801.
- Torrance, Frank W. Demountable supporting structure. 2,879,552, 3-31-59, Cl. 20-1.126.
- Torre, Alton J.: *See*—  
Sass, Earl J., and Torre. 2,873,309.
- Torre Safety Devices Co.: *See*—  
Fuschi, Antonio T. 2,917,322.
- Torres, Jorge U., and J. C. Adam, to E. B. Wiggins Oil Tool Co., Inc. Coupling with automatically actuated cam sleeve. 2,888,278, 5-26-59, Cl. 285-313.
- Torrey, Robert D., to Sperry Rand Corp. Binary counter. 2,876,439, 3-3-59, Cl. 340-174.
- Torrey, Robert D., to Sperry Rand Corp. Transistor-core logical elements. 2,913,598, 11-17-59, Cl. 307-88.5.
- Torrey, Robert D., and T. H. Bonn, to Sperry Rand Corp. Magnetic amplifier. 2,901,636, 8-25-59, Cl. 307-88.
- Torrible, Alfred W.: *See*—  
Apa, Frank E., and Torrible. 2,881,377.
- Torricelli, Decio. Stairway. 2,885,883, 5-12-59, Cl. 72-96.
- Torriente, Juan A. Clothesline. 2,869,730, 1-20-59, Cl. 211-124.
- Torrington Mfg. Co., The: *See*—  
Costello, Alfred H., and E. M. 2,902,079.
- Cowles, John H., White, and Clark. 2,897,581.
- Kelson, John J. 2,873,507.
- Marola, Americo. 2,897,022.
- White, Robert H., Cowles, and Clark. 2,894,791.
- Torrissi, Alfred F.: *See*—  
Hilton, Harry H., and Torrissi. 2,871,426.
- Torsion Balance Co., The: *See*—  
Sklar, David F. 2,892,344.
- Sklar, David F. 2,892,345.
- Torsson, Matthew T.: *See*—  
Lauler, Louis J., and Torsson. 2,882,035.
- Torstenson, John I. Machine for opening split connector rings. 2,878,557, 3-24-59, Cl. 29-235.
- Torstensson, Karl L., and O. M. Trawen, to Telefonaktiebolaget L M Ericsson. Reflex klystron of the double-disc type. 2,911,559, 11-3-59, Cl. 315-5.19.
- Tortolani, Anthony E.: *See*—  
Zanni, Guido R., Tortolani, and Jamieson. 2,909,030.
- Toruk, Nicholas: *See*—  
Meyer, Barthold F., and Toruk. 2,916,566.
- Tosch, Melvin R. Toilet tissue storage container. 2,881,941, 4-14-59, Cl. 220-18.
- Tosches, Anthony J.: *See*—  
Flamand, Maurice R., and Tosches. 2,888,956.
- Tosswill, Christopher H.: *See*—  
Crowther, Gerald O., and Tosswill. 2,900,551.
- Tosswill, Christopher H., to North American Philips Co., Inc. Device comprising at least one glow discharge tube. 2,880,371, 3-31-59, Cl. 315-84.6.
- Tosswill, Christopher H., G. F. Weston, and T. E. Days, to North American Philips Co., Inc. Cold cathode glow discharge counting and scaling tubes and circuit arrangements therefor. 2,878,419, 3-17-59, Cl. 315-84.6.
- Tostado, Javier A. Mechanism for sealing bags. 2,872,061, 2-3-59, Cl. 216-29.



- Tostmann, Johannes, to Demag-Elektrometallurgie G.m.b.H. Two-chamber induction melting furnace and method for operating same. 2,892,878, 6-30-59, Cl. 13-29.
- Tote-Cart Co.: See—  
Cauthon, Jack. 2,868,556.  
Cauthon, Jack. 2,890,058.  
Welter, George I., and Carpenter. 2,918,741.
- Toth, Anthony: See—  
Taylor, Allan J., and Toth. 2,901,201.
- Toth, Edward R., Jr.: See—  
Coleman, Robert H., and Toth. 2,913,118.
- Toth, Jozsef: See—  
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- Toth, Michael, to Allis-Chalmers Mfg. Co. Power steering mechanism. 2,872,993, 2-10-59, Cl. 180-79.2.
- Toth, Michael, to Allis-Chalmers Mfg. Co. Hydraulic steering system for jointed vehicles. 2,896,734, 7-28-59, Cl. 180-79.2.
- Toth, William E., and J. M. Hunt, to Link Aviation, Inc. Means for correcting potentiometer loading errors in analog computer circuits. 2,889,988, 6-9-59, Cl. 235-184.
- Toti, Andrew J. Cornice box fascia. 2,888,983, 6-2-59, Cl. 160-38.
- Toti, Andrew J. Window cornice box fascia. 2,894,571, 7-14-59, Cl. 160-38.
- Toti, Andrew J., to Honolulu Oil Corp. Fowl picker and method. 2,910,722, 11-3-59, Cl. 17-11.1.
- Totten, Gilbert V.P., and D. D. Graber, to Automatic Canteen Co. of America. Coffee making apparatus. 2,911,901, 11-10-59, Cl. 99-289.
- Totten, John A., to Industrial Vendors, Inc. Coffee brewing apparatus. 2,895,402, 7-21-59, Cl. 99-289.
- Totzek, Friedrich, to Koppers Co., Inc. Process for production of combustible gases. 2,898,204, 8-4-59, Cl. 48-203.
- Totzek, Friedrich, to Koppers Co., Inc. Suspension process for the production of CO and H<sub>2</sub> from a solid carbonaceous fuel, oxygen and steam. 2,905,544, 9-22-59, Cl. 48-206.
- Toubourg, Jens, to Tecumseh Products Co. Compressor with crankcase oil surge tank. 2,918,210, 12-22-59, Cl. 230-206.
- Touey, George P.: See—  
Kiefer, John E., and Touey. 2,904,050.
- Touey, George P., to Eastman Kodak Co. Fibrous cigarette filters. 2,881,769, 4-14-59, Cl. 131-208.
- Touey, George P., to Eastman Kodak Co. Fibrous tobacco smoke filters. 2,881,770, 4-14-59, Cl. 131-208.
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- Touey, George P., to Eastman Kodak Co. Fibrous tobacco smoke filters. 2,908,280, 10-13-59, Cl. 131-208.
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- Touey, George P., J. E. Kiefer, and J. R. Caldwell, to Eastman Kodak Co. Tobacco smoke filters. 2,881,772, 4-14-59, Cl. 131-208.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Road marking apparatus. 2,866,992, 1-6-59, Cl. 15-131.05.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method and article of manufacture for supporting rails. 2,867,384, 1-6-59, Cl. 238-283.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Building brick. 2,868,008, 1-13-59, Cl. 72-36.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Vibrator mixer. 2,875,989, 3-3-59, Cl. 259-72.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Continuous gas plated metal article. 2,881,518, 4-14-59, Cl. 29-527.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Light weight magnet and method of making. 2,887,454, 5-19-59, Cl. 252-62.5.
- Toulmin, Harry A., Jr., to Union Carbide Corp. Method of freeze dehydration. 2,887,851, 5-26-59, Cl. 62-58.
- Toulmin, Harry A., Jr., to Union Carbide Corp. Method and apparatus for concentrating juices. 2,888,353, 5-26-59, Cl. 99-205.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Apparatus for controlling machines and processes. 2,888,570, 5-26-59, Cl. 250-71.
- Toulmin, Harry A., Jr., to Commonwealth Engineering Co. Catalyzed metal fuel. 2,890,108, 6-9-59, Cl. 52-5.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Low water loss cement slurries comprising carboxymethyl dextran and salts thereof. 2,902,378, 9-1-59, Cl. 106-92.
- Toulmin, Harry A., Jr., to Union Carbide Corp. Method for Co. of Ohio. Jet press. 2,905,080, 9-22-59, Cl. 100-264.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Freezing heat sensitive liquids bearing solids and simultaneously scrubbing and preventing oxidation. 2,903,371, 9-8-59, Cl. 99-205.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Polyethylene adherent to metal surface and method of making same. 2,910,384, 10-27-59, Cl. 117-132.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Method of applying aerosol detergent fog. 2,910,391, 10-27-59, Cl. 134-25.
- Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. High temperature hydraulic pump. 2,913,993, 11-24-59, Cl. 103-162.
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- Toulmin, Harry A., Jr., to Union Carbide Corp. Method of concentrating fruit juices. 2,916,386, 12-8-59, Cl. 99-205.
- Toulmin, Harry A., Jr., to Union Carbide Corp. Process of vacuum low temperature dehydration. 2,919,199, 12-29-59, Cl. 99-205.
- Toulon, Pierre M. G., to Westinghouse Electric Corp. Display systems. 2,875,380, 2-24-59, Cl. 313-169.
- Toulon, Pierre M. G. Television scanning system. 2,906,812, 9-29-59, Cl. 178-5.2.
- Toulon, Pierre M. G., to Moore and Hall. Television systems. 2,911,465, 11-3-59, Cl. 178-6.8.
- Toulon, Pierre M. G., to Westinghouse Electric Corp. Color television pickup system. 2,917,574, 12-15-59, Cl. 178-5.4.
- Toune, Edward P. Paint bucket holder. 2,912,205, 11-10-59, Cl. 248-210.
- Tour, Sam: See—  
Burgess, Louis. 2,869,990.  
Burgess, Louis. 2,897,057.
- Tour, Sam, to Metallizing Engineering Co. Inc. Spray-weld alloys of the boron-silicon-nickel type. 2,875,043, 2-24-59, Cl. 75-134.
- Tour, Sam. Agricultural sprayer. 2,889,084, 6-2-59, Cl. 222-334.
- Tour, Sam, to L. Burgess and himself; M. Burgess and E. B. Beiter, executors of said L. Burgess, deceased. Process of winning elemental phosphorus. 2,907,637, 10-6-59, Cl. 23-223.
- Touraton, Emile, to International Standard Electric Corp. Coding circuit. 2,894,214, 7-7-59, Cl. 332-11.
- Tourison, Asher. Boring tool. 2,883,892, 4-28-59, Cl. 77-58.
- Tourniaire, Claude: See—  
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- Tourshou, Simeon I., to Radio Corp. of America. Beam deflection control for cathode ray devices. 2,879,391, 3-24-59, Cl. 250-36.
- Tourshou, Simeon I., E. B. Smith, and G. E. Skorup, to Radio Corp. of America. Signal processing circuits. 2,867,751, 1-6-59, Cl. 315-30.
- Tousignant, William F.: See—  
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- Tousignant, William F., and H. Pledger, Jr., to The Dow Chemical Co. Method for the preparation of polyurethanes. 2,894,935, 7-14-59, Cl. 260-77.5.
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Fain, Morton E., and Copley. 2,874,845.
- Tower, Robert D., to General Motors Corp. Fastening device. 2,885,041, 5-5-59, Cl. 189-88.
- Towers, Harold L. Metal stamps and holder therefor. 2,908,505, 10-13-59, Cl. 276-44.
- Towle, George. Diving board. 2,918,281, 12-22-59, Cl. 272-66.
- Towle, Jack L., and J. K. Long. Electroplating nickel. 2,881,120, 4-7-59, Cl. 204-49.
- Towler, Frank H.: See—  
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Towler, Frank H. and J. M. 2,882,931.  
Towler, John M. 2,882,766.  
Towler, John M. 2,904,074.  
Towler, John M. and F. H. 2,891,517.
- Towler, Frank H., deceased, and J. M.; F. H. Towler, administrator of said J. M. Towler, deceased. Hydraulic control valves. 2,879,789, 3-31-59, Cl. 137-456.
- Towler, Frank H., and J. M. Towler, deceased; F. M. Towler administrator of said J. M. Towler, to Electraulic Presses Ltd. Impulse actuated servo-control valve. 2,882,931, 4-21-59, Cl. 137-622.
- Towler, John M.: See—  
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Towler, Frank H. and J. M. 2,882,931.
- Towler, John M., deceased, by F. H. Towler, executor, to Electraulic Presses Ltd. Control mechanism for hydraulic presses. 2,882,766, 4-21-59, Cl. 78-42.
- Towler, John M., deceased; F. H. Towler, executor, to Electraulic Presses Ltd. Decompression valve. 2,904,074, 9-15-59, Cl. 137-630.15.
- Towler, John M., deceased (by F. H. Towler, executor), and F. H. Towler, to Electraulic Presses Limited. Hydraulic press control systems and pilot operated directional control valve therefor. 2,891,517, 6-23-59, Cl. 121-46.5.
- Towlsaver, Inc.: See—  
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Stone, Claire E., and Layton. 2,908,450.  
Tucker, Council A., and Layton. 2,908,451.
- Towmotor Corp.: See—  
Cirillo, Lee. 2,918,186.  
Curtis, Everett C., and Crawford. 2,888,300.  
Shaffer, Walter M. 2,918,143.



- Town, Bernard W., to Schwartz Laboratories, Inc. Acylation of  $\alpha$ -monoamino carboxylic acids. 2,867,654, 1-6-59, Cl. 260-518.
- Town, Clinton D. Boat and propeller mechanism. 2,918,892, 12-29-59, Cl. 115-67.
- Towne, Alfred E., to Ultrasonic Development, Inc. Ultrasonic apparatus. 2,916,265, 12-8-59, Cl. 259-1.
- Towne, Gene: *See*—  
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- Townend, Gordon H.: *See*—  
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- Townend, Robert V.: *See*—  
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- Townes, Charles H. Production of electromagnetic energy. 2,879,439, 3-24-59, Cl. 315-5.
- Townley, Verne H.: *See*—  
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- Townsend, Almon F.: *See*—  
Schmidt, William D., and Townsend. 2,909,009.
- Townsend, Daniel E., Jr.: *See*—  
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- Townsend, Don G.: *See*—  
Rowls, Garth A., and Townsend. 2,872,499.
- Townsend Engineered Products Inc.: *See*—  
Aumann, Mark D. 2,890,779.  
Sola, Samuel L., and Crocker. 2,875,010.
- Townsend Engineering Co.: *See*—  
Townsend, Ray T. 2,894,496.  
Townsend, Ray T. 2,912,027.
- Townsend, Francis M., to L. S. Reid. Method of simultaneously removing hydrogen sulfide from gaseous mixtures and producing sulfur therefrom. 2,881,047, 4-7-59, Cl. 23-3.
- Townsend, George R.: *See*—  
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- Townsend, George R., to General Electric Co. Interlocking control mechanism. 2,889,421, 6-2-59, Cl. 200-50.
- Townsend, Harold J.: *See*—  
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- Townsend, Mark A., to Bell Telephone Laboratories, Inc. Telephone ringing system. 2,875,281, 2-24-59, Cl. 179-86.
- Townsend, Merlyn T. Milk straining device. 2,874,843, 2-24-59, Cl. 210-120.
- Townsend, Palmer W., to Air Reduction Co., Inc. Method of preparing 2,2,2-trifluoroethyl vinyl ether. 2,870,218, 1-20-59, Cl. 260-614.
- Townsend, Ralph: *See*—  
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- Townsend, Ralph, to The British Tabulating Machine Co. Ltd. Multi-cathode tube counter circuits. 2,890,827, 6-16-59, Cl. 235-61.1.
- Townsend, Ralph, to The British Tabulating Machine Co. Ltd. Serial adder with radix correction. 2,890,831, 6-16-59, Cl. 235-170.
- Townsend, Ralph, and H. F. Ayres, to Laboratory For Electronics, Inc. Input/output equipment. 2,872,665, 2-3-59, Cl. 340-174.
- Townsend, Ralph, and J. J. Sharp, to International Computers and Tabulators Ltd. Electronic switching circuits employing multi-cathode gas-filled tubes. 2,898,513, 8-4-59, Cl. 315-84.6.
- Townsend, Ray F., and C. H. Rowlett. Fishing pole holder. 2,908,460, 10-13-59, Cl. 248-40.
- Townsend, Ray T., to Townsend Engineering Co. Internal combustion engine. 2,894,496, 7-14-59, Cl. 123-44.
- Townsend, Ray T., to Townsend Engineering Co. Feeding and slashing device for skinning machine. 2,912,027, 11-10-59, Cl. 146-130.
- Townsend, Raymond G., to United States of America, Atomic Energy Commission. Coating method. 2,901,408, 8-25-59, Cl. 204-38.
- Townsend, Raymond L. Strain relief for stranded cable connection. 2,911,616, 11-3-59, Cl. 339-223.
- Townsend, Richard L. Adjustable center bar for artist's easel. 2,912,203, 11-10-59, Cl. 248-195.
- Townsend, Robert C.: *See*—  
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- Townshend, Henry H., Jr., to J. T. Henry Mfg. Co., Inc. Cable cutter. 2,870,538, 1-27-59, Cl. 30-254.
- Townshend, Stanley C.: *See*—  
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- Toy, Arthur D. F., and G. A. McDonald, to Victor Chemical Works. Dixyl phosphoramidates. 2,878,255, 3-17-59, Cl. 260-461.
- Toy, Arthur D. F., and K. H. Rattenbury, to Victor Chemical Works. Copolymers of dialkenyl monochloromethanephosphonate. 2,918,449, 12-22-59, Cl. 260-45.4.
- Toy, Walter W.: *See*—  
Loshak, Sam, and Toy. 2,884,336.  
McLaughlin, Paul J., and Toy. 2,874,066.
- Toy, Wing N., to Bell Telephone Laboratories, Inc. Linear voltage-to-frequency converter. 2,894,215, 7-7-59, Cl. 332-14.
- Toyo Rayon Co., Ltd.: *See*—  
Maruyama, Taketo, Sakamoto, Tamura, Kawahara, and Okubo. 2,896,252.  
Mori, Shizuo, and Suzuki. 2,875,961.
- Toyoda, Eihiro, deceased; Hideko Toyoda, Hiroshige Toyoda, M. N. Toyoda, Y. K. Toyoda, Yoke Toyoda, Harumi Toyoda, Eike Toyoda, and Mieko Toyoda, minors, by mother, Hideko Toyoda; to Kabushiki Kaisha Hakko Denki Seisakusho. Machine for cutting cycloid gears. 2,898,681, 8-11-59, Cl. 33-27.
- Toyoda, Eiko: *See*—  
Toyoda, Eihiro. 2,898,681.
- Toyoda, Harumi: *See*—  
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- Toyoda, Hideko: *See*—  
Toyoda, Eihiro. 2,898,681.
- Toyoda, Hiroshige: *See*—  
Toyoda, Eihiro. 2,898,681.
- Toyoda, Michiko N.: *See*—  
Toyoda, Eihiro. 2,898,681.
- Toyoda, Mieko: *See*—  
Toyoda, Eihiro. 2,898,681.
- Toyoda, Yoko: *See*—  
Toyoda, Eihiro. 2,898,681.
- Toyoda, Yoshiro K.: *See*—  
Toyoda, Eihiro. 2,898,681.
- Tozier, Ted H. Stabilizing device for saw chains. 2,889,720, 6-9-59, Cl. 76-78.
- Tozier, Ted H. Combination gas and oil container. 2,889,954, 6-9-59, Cl. 220-23.4.
- Trabicky, William J. System for preheating and transporting viscous fuel and the like. 2,909,638, 10-20-59, Cl. 219-39.
- Tracerlab, Inc.: *See*—  
Faulkner, William H., Jr., Shearer, and Woodworth. 2,883,552.  
Peacock, Wendell C. 2,905,822.  
Pennock, John C. 2,870,341.  
Thomas, Alexander. 2,876,368.  
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- Tracey, John E.: *See*—  
Hughes, William J., Haynes, Tracey, and Wheeler. 2,899,538.
- Trachet, Jacques J. Paraffinic anti-corrosive coatings in the form of a strip or tape. 2,882,184, 4-14-59, Cl. 117-122.
- Trachsel, Fritz. Telephone intercommunication system. 2,884,490, 4-28-59, Cl. 179-18.
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Messenger, Desmond, and Phelps. 2,907,608.
- Tractomotive Corp.: *See*—  
Codlin, James B. 2,873,542.  
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- Tracy Accessories, Inc.: *See*—  
Carpenter, Tracy L. 2,893,774.
- Tracy, Glen M., to Glenton Industries, Inc. Thermal fuse. 2,875,298, 2-24-59, Cl. 200-142.
- Tracy, Herbert E., to Borg-Warner Corp. Pump priming arrangement. 2,897,764, 8-4-59, Cl. 103-113.
- Tracy, Neil D.: *See*—  
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- Tracy, Ralph L.: *See*—  
Chodroff, Saul, Saldarini, and Tracy. 2,906,663.
- Tracy, Ward D., to Southwest Products Co. Means and techniques applicable to bearings and rod end bearings. 2,894,789, 7-14-59, Cl. 308-72.
- Tracy, Wyman C. End piece for ladies watch band. 2,884,672, 5-5-59, Cl. 24-73.
- Trademan, Leo, M. A. Malina, and L. P. Wilks, to Velsicol Chemical Corp. Insecticide formulations. 2,875,119, 2-24-59, Cl. 167-30.
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- Trafaleit, Robert: *See*—  
Hamilton, Walter E., and Trafaleit. 2,900,723.
- Traffic Safety Equipment Co.: *See*—  
Hemphill, William C. 2,879,378.
- Traffic Transport Engineering, Inc.: *See*—  
Stuart, Clarence C. 2,878,052.  
Stuart, Clarence C. 2,892,656.
- Trafik- & Vagmarken Aktiebolag: *See*—  
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- Trage, Oliver H.,  $\frac{1}{2}$  to A. Weisswasser, and  $\frac{1}{2}$  to I. Silverman. Bearing pocket boring tool. 2,891,429, 6-23-59, Cl. 77-65.
- Trailmobile Inc.: *See*—  
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- Trainer, James E., to The Firestone Tire & Rubber Co. Tubeless tires. 2,874,744, 2-24-59, Cl. 152-342.
- Trainor, Albert, to North American Philips Co., Inc. Photoelectric cell. 2,876,142, 3-3-59, Cl. 117-211.
- Traise, Thornton P.: *See*—  
Costello, James R., Jr., and Traise. 2,867,597.  
Toy, Arthur D. F., Cooper, and Traise. 2,867,548.



- Traite, Max, to Gluton Industries, Inc. Variable resistance pressure gauge. 2,906,980, 9-29-59, Cl. 338-4.
- Tralli, Rocco. Auxiliary vehicle light. 2,878,462, 3-17-59, Cl. 340-107.
- Trammell, Leo W.: *See—*  
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- Eisenberg, Irwin W., Carlson, Love, Stadler, Costantino, Trammell, and Dibble. 2,916,699.
- Tramontini, Vernon N., to Stewart-Warner Corp. Thermo-static switch assembly. 2,891,127, 6-16-59, Cl. 200-138.
- Tramontini, Vernon N., to Stewart-Warner Corp. Baffled combustion heater. 2,917,030, 12-15-59, Cl. 122-149.
- Tramontini, Vernon N., and J. F. Wein, to Stewart-Warner Corp. Constant pressure liquid pump. 2,895,424, 7-21-59, Cl. 103-150.
- Trandel, George L., to Gerbing Mfg. Corp. Feather key. 2,905,490, 9-22-59, Cl. 287-52.
- Trane Co., The: *See—*  
Bottorf, James D., and Labus. 2,913,227.
- Butt, Alan G. 2,869,835.
- Coe, Robert B. 2,912,920.
- Cordry, David D. 2,869,787.
- Davis, James R. 2,894,728.
- Evans, Robert M., and Pattee. 2,894,835.
- Evans, Robert M., and Pattee. 2,900,253.
- Labus, Otto. 2,869,449.
- Lunde, Einar, and Nichols. 2,884,187.
- Lunde, Einar, and Nichols. 2,894,681.
- Neubauer, Emil T. 2,869,775.
- Trans-Arabian Pipe Line Co.: *See—*  
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- Trans Continental Industries, Inc.: *See—*  
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- Transeau, Sherman T. Peripheral seal assembly. 2,879,094, 3-24-59, Cl. 288-7.
- Transeau, Sherman T. Periphery seal rotary feeder. 2,886,191, 5-12-59, Cl. 214-35.
- Transit Research Corp.: *See—*  
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- Russell, William T. 2,903,975.
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- Transition Metals & Chemicals, Inc.: *See—*  
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- Transitron Electronic Corp.: *See—*  
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- Transitron, Inc.: *See—*  
Axelrod, Albert, and Baer. 2,898,511.
- Transmission & Gear Co., The: *See—*  
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Cloos, Ernst. 2,889,044.
- Jörg, Heinrich, and Fleissner. 2,884,889.
- Kippe, Otto. 2,904,425.
- Kippe, Otto. 2,912,306.
- Müller, Franz. 2,885,805.
- Neugebauer, Gerhart H. 2,872,082.
- Ringhof, Jakob. 2,894,244.
- Specht, Max. 2,917,387.
- Welschhof, Peter. 2,896,286.
- Wiegmann, Dietrich. 2,873,829.
- Transport Trailers, Inc.: *See—*  
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- Transportation Specialties Co.: *See—*  
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- Transval Engineering Corp.: *See—*  
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- Trant, Robert F.: *See—*  
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- Ritter, Walter T., Ragan, and Trant. 2,916,376.
- Tranter Mfg., Inc.: *See—*  
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- McGuffey, Orton S. 2,900,175.
- McGuffey, Orton S. and J. W. 2,880,595.
- Tranter, Robert R., Jr. Game device. 2,893,735, 7-7-59, Cl. 273-144.
- Trantham, Joseph C., and H. O. Dixon, to Phillips Petroleum Co. Oil recovery by in situ combustion. 2,889,881, 6-9-59, Cl. 166-11.
- Trantham, Joseph C., and A. R. Schleicher, to Phillips Petroleum Co. Inverse air injection technique. 2,917,112, 12-15-59, Cl. 166-11.
- Trapp, Gunter: *See—*  
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- Trapp, Walter B., to The Dow Chemical Co. 3,6,10-trimethyl-5,9-undecadien-4-ol and method of making. 2,878,295, 3-17-59, Cl. 260-632.
- Trapp, Walter B., to The Dow Chemical Co. 2,2'-oxybis(P-phenylenemethylene)bis(2-thiopseudourea) compounds. 2,906,773, 9-29-59, Cl. 260-465.
- Tratsch, Walter A.: *See—*  
Patzner, William A., and Tratsch. 2,877,928.
- Traub, Fred G., to Raven Industries, Inc. Corn crib cap. 2,907,261, 10-6-59, Cl. 98-55.
- Traub, Henry A.: *See—*  
Shamban, William S., Traub, and Chaffin. 2,912,712.
- Traudt, Stephen C., F. J. Curran, and B. Beale, to Bird & Son, Inc. Pallet. 2,908,464, 10-13-59, Cl. 248-120.
- Traue, Henry A., to Phillips Petroleum Co. Rotatable support means. 2,904,410, 9-15-59, Cl. 23-288.
- Traum, David, Co., Inc.: *See—*  
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- Traupmann, Raymond J., to Blackhawk Mfg. Co. Pipe bender with bend indicator means on pivotal reaction blocks. 2,867,261, 1-6-59, Cl. 153-38.
- Trauth, Otto: *See—*  
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- Trautman, Charles E., to Gulf Research & Development Co. Fuel oils. 2,913,319, 11-17-59, Cl. 44-50.
- Trautman, Herman P., to American-Marietta Co. Tamping devices. 2,893,099, 7-7-59, Cl. 25-37.
- Trautmann, John H.: *See—*  
Johnston, David B., Johnson, Cristy, and Trautmann. 2,909,400.
- Trautvetter, Fred C. Safety appliance and release for fishing tackle or fishhooks. 2,907,134, 10-6-59, Cl. 43-12.
- Trautwein, Richard R.: *See—*  
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- Trautzi, Peter: *See—*  
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- Traver, George W., to Traver Investments, Inc. Method and means for treating non-adherent surfaces to render them adherent. 2,910,723, 11-3-59, Cl. 18-1.
- Traver Investments, Inc.: *See—*  
Traver, George W. 2,910,723.
- Travers, Ward B.: *See—*  
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- Travers, William R., to General Electric Co. Tailpipe thrust augmentor. 2,913,874, 11-24-59, Cl. 60-39.72.
- Traverso, John J., and C. W. Whitehead, to Eli Lilly and Co. Acylated diaminopyrimidines. 2,874,157, 2-17-59, Cl. 260-256.4.
- Traverso, John J., and C. W. Whitehead, to Eli Lilly and Co. Mercurated alkanesulfonamides. 2,885,418, 5-5-59, Cl. 260-431.
- Travilla, James C.: *See—*  
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- Travilla, James C., to General Steel Castings Corp. Railway truck structure. 2,887,186, 5-19-59, Cl. 188-53.
- Travis, Albert C., Jr. Portable magnetic sound recorders. 2,893,737, 7-7-59, Cl. 274-4.
- Travis, Albert M., to Waldorf Paper Products Co. Plant package. 2,913,161, 11-17-59, Cl. 229-22.
- Travis, Clifford K.: *See—*  
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- Travis, Lawrence R., and W. R. Petrick, to Westinghouse Electric Corp. Remote control apparatus. 2,905,014, 9-22-59, Cl. 74-472.
- Travis, Lawrence R., P. Heller, and W. R. Petrick, to Westinghouse Electric Corp. Television receiver. 2,917,735, 12-15-59, Cl. 340-367.
- Travis, Marion M. Directional drilling apparatus. 2,906,499, 9-29-59, Cl. 255-1.6.
- Travis, Ralph L., ½ to E. D. Schade and ½ to D. Moseley. Device for sharpening chain saw chains. 2,900,850, 8-25-59, Cl. 76-31.
- Travis, Roland C.: *See—*  
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- Travisano, Frank P.: *See—*  
Talarico, Lawrence J., and Travisano. 2,887,691.
- Trawn, Olof M.: *See—*  
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- Traylor, John B. Sizing machine. 2,875,895, 3-3-59, Cl. 209-112.
- Traylor, Teddy G.: *See—*  
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- Lefferdink, Theodore B., and Traylor. 2,882,253.
- Treace, Harry T., to Richards Mfg. Co. Surgical drill attachment. 2,878,809, 3-24-59, Cl. 128-303.
- Treadaway, Anne P. Hair straightening device. 2,910,988, 11-3-59, Cl. 132-31.
- Treadwell, Cyril G., to International Standard Electric Corp. Electric pulse code modulation systems. 2,902,542, 9-1-59, Cl. 179-15.
- Treadwell, M. H., Co., Inc.: *See—*  
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- Tocher, Frank L. 2,919,011.
- Treanor, Edward D., to General Electric Co. Transformer cooling system. 2,872,651, 2-3-59, Cl. 336-58.
- Treat, Lyle G., to The Dow Chemical Co. Coating metal articles. 2,919,208, 12-29-59, Cl. 117-113.
- Treber, Willy O.: *See—*  
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- Treblcock, Douglas A., to The Garrett Corp. Shaft end-play limiting bearing means. 2,877,945, 3-17-59, Cl. 230-116.
- Trechsel, Hans W.: *See—*  
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- Trecker, Francis J. Rotary gardening tool. 2,888,084, 5-26-59, Cl. 172-41.
- Treder, Richard W., and W. Batz, to Jones & Laughlin Steel Corp. Aluminum coated steel article and method of producing it. 2,898,251 8-4-59, Cl. 148-635.



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- Treer, Ross B., to The Warner & Swasey Co. Indexible tool holder. 2,915,922, 12-8-59, Cl. 74-822.
- Trefethen, Lloyd S.: *See—*  
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- Trefflein, Donal R., and L. A. Schneck, to Sperry Rand Corp. Flight control system for aircraft. 2,891,742, 6-23-59, Cl. 244-77.
- Trefleries et Laminiers de Precision Gilby-Fodor (Societe Anonyme): *See—*  
Ternisien, Jean A., and Dupont. 2,918,563.
- Tregilgas, Harold R. Pocket type automatic tablet dispenser. 2,885,110, 5-5-59, Cl. 221-2.
- Tregilgas, Harold R. Pocket tablet dispenser and unit tablet container therefor. 2,885,116, 5-5-59, Cl. 221-198.
- Tregillus, Leonard W.: *See—*  
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- Trego, Inc.: *See—*  
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- Treille, Pierre: *See—*  
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- Treitel, Henry D.: *See—*  
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- Trejo, Ralph: *See—*  
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- Trelleborgs Gummifabriks Aktiebolag: *See—*  
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- Treloar, Howard A., and J. Dunstan. Means for preventing evaporation from reservoirs or the like. 2,878,098, 3-17-59, Cl. 21-61.
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- Tremblay, Jean-Louis. Blood arterializing method and apparatus therefor. 2,896,620, 7-28-59, Cl. 128-214.
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- Trenchard, Herbert A.: *See—*  
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- Trenery, Frank N. Waterproof coat for golf bags. 2,907,364, 10-6-59, Cl. 150-52.
- Trent Tube Co.: *See—*  
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- Trentini, Bernard: *See—*  
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- Trepanier, Ivan, to Lux Clock Mfg. Co., Inc. Switch-actuating mechanisms. 2,894,081, 7-7-59, Cl. 200-38.
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- Treppard, Walter A. Tool holder and tool assembly. 2,896,955, 7-28-59, Cl. 279-7.
- Treptow, Robert G.: *See—*  
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- Trevice, Howard O.: *See—*  
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- Treseder, Robert C.: *See—*  
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- Treskinsky, Alexius. Automatic switch method and system for telephones. 2,905,765, 9-22-59, Cl. 179-18.
- Treslo, Nicholas. Sink stopper. 2,896,223, 7-28-59, Cl. 4-286.
- Trespalcacios, Basilio. Writing instrument. 2,872,899, 2-10-59, Cl. 120-45.6.
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- Trevaskis, Henry W., to Dunlop Tire and Rubber Corp. Pneumatic tires. 2,906,314, 9-29-59, Cl. 152-356.
- Trevenna, George R. Polishing buffs and machines for their manufacture. 2,914,319, 11-24-59, Cl. 270-58.
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- Treweek, Eric C. Safety clip or holder for a garment attachable implement. 2,894,300, 7-14-59, Cl. 24-11.
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- Trewiler, Carl E., to The Air Preheater Corp. Air heater sealing device. 2,911,202, 11-3-59, Cl. 257-269.
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- Riester, William C. 2,889,569.
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- Triffleman, Bernard H. Method of manufacture of homogeneous compositions. 2,893,859, 7-7-59, Cl. 75-5.
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- Triman, Eugene L., to North American Aviation, Inc. Continuous electronic etch depth indicator. 2,885,637, 5-5-59, Cl. 324-65.
- Trimble, Ceburn B., to The National Cash Register Co. Check feeding mechanism. 2,877,015, 3-10-59, Cl. 271-13.
- Trimble, Charles H., to Western Electric Co., Inc. Combined mold and alignment fixtures. 2,873,476, 2-17-59, Cl. 18-5.
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- Tripp, Robert W., to Inductosyn Corp. Automatic machine control system. 2,875,390, 2-24-59, Cl. 318-39.
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- Tripplehorn, James C. Reversed spiral molded scraper. 2,870,845, 1-27-59, Cl. 166-176.
- Triquet, Russell Q. Expanding core shaft. 2,890,001, 6-9-59, Cl. 242-72.1.
- Triquet, Russell Q. to Kalamazoo Vegetable Parchment Co. Machine for splicing paper. 2,898,056, 8-4-59, Cl. 242-58.2.
- Trisler, Nelson W. Moistening system for rotary offset machine. 2,894,452, 7-14-59, Cl. 101-136.
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- Tristram, Edward W., to Merck & Co., Inc. 1,2,4-tribromo pregnane-17a,21 diol-3,11,20 trione-21-acetate. 2,904,564, 9-15-59, Cl. 260-397.45.
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- Troester, Fred W., to Minnesota Mining and Mfg. Co. Inks for marking condensation polymers. 2,875,105, 2-24-59, Cl. 117-218.
- Troglione, Vincent R., to Ferguson Equipment Corp. Heat treating furnace. 2,875,995, 3-3-59, Cl. 263-6.
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- Troske, Frederick W., to Scovill Mfg. Co. Button registering machines. 2,878,954, 3-24-59, Cl. 218-6.
- Trost, Wayne C., to Barber-Colman Co. Yarn clamp. 2,867,028, 1-6-59, Cl. 24-262.
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- Trought, Norman J., to Trought Associates, Inc. Mounting device. 2,879,977, 3-31-59, Cl. 257-263.
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- Trousdale, Robert B., to General Dynamics Corp. Telephone system. 2,889,407, 6-2-59, Cl. 179-15.
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- Trower, Mervyn H., to T. Wall & Sons Ltd. Conveyors. 2,889,032, 6-2-59, Cl. 198-179.
- Troy, Gerald P., to The Indiana Steel Products Co. Magnet assemblies. 2,915,681, 12-1-59, Cl. 317-123.
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- Trubinski, Edward J. Compartmented dump truck. 2,914,205, 11-24-59, Cl. 214—518.
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- Trucco, Giovanni. Luminous fountain with changeable colored light. 2,888,205, 5-26-59, Cl. 239—20.
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- Trudeau, Urban P., to Owens-Illinois Glass Co. Mechanical power transmission mechanism. 2,870,654, 1-27-59, Cl. 74—777.
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- True, Charles H., Jr., and H. W. King, to Spotnails, Inc. Machine for driving sash pins or the like. 2,897,501, 8-4-59, Cl. 1—46.
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- True Form Foundations, Inc.: *See*—  
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- True, Harry, and G. D. Brown. Portable barbecue. 2,867,208, 1-6-59, Cl. 126—276.
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- Truesdale, Cavour L. Method of seaming the heading of draperies. 2,884,053, 4-28-59, Cl. 160—330.
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- Truini, Richard C., to Bloomer Bros. Co. Means for opening carton folding closure flaps. 2,871,640, 2-3-59, Cl. 53—382.
- Truitt, Price, to Parke, Davis & Co. Naphthyl pyridinium inner salts. 2,915,524, 12-1-59, Cl. 260—297.
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- Trussell, Clarence D. Back construction for mechanical binders. 2,891,552, 6-23-59, Cl. 129—1.
- Trussell, Clarence D. Hand sanders. 2,911,769, 11-10-59, Cl. 51—186.
- Trutneff, Vladimir N. Sanitary talcum duster. 2,867,828, 1-13-59, Cl. 15—131.1.
- Truver, Laurence W., to National Steel Corp. Sheet classifiers. 2,891,667, 6-23-59, Cl. 209—88.
- Truxall, Ephraim J., Sr. Boat loading device for boat trailers. 2,895,629, 7-21-59, Cl. 214—506.
- Trybinski, Victor, Jr.: *See*—  
Schroer, Walter E., Trybinski, and Walling. 2,902,039.
- Tryhorn, Donald W., to The British Internal Combustion Engine Research Assn. Rotary compressing, displacing or expanding machine. 2,919,062, 12-29-59, Cl. 230—140.
- Tryon, Donald F., to The Electro-Temp Corp. Heating and/or cooling system. 2,917,287, 12-15-59, Cl. 257—274.
- Tryon, John G., to Bell Telephone Laboratories, Inc. Binary adder-subtractor. 2,899,133, 8-11-59, Cl. 235—165.
- Trzcinski, Joseph T., to Boots Aircraft Nut Corp. Narrow gage channel support and positioning means for securing nuts. 2,879,820, 3-31-59, Cl. 151—41.71.
- Tsang, Chi M.: *See*—  
Gustafson, John R., and Tsang. 2,882,041.
- Tsang, Sien M.: *See*—  
Long, Robert S., and Tsang. 2,877,218.  
Long, Robert S., and Tsang. 2,889,317.  
Long, Robert S., and Tsang. 2,898,332.  
Long, Robert S., and Tsang. 2,898,371.  
Long, Robert S., and Tsang. 2,903,450.
- Tsang, Sien M., to American Cyanamid Co. Benzanthranyl azo derivatives. 2,891,048, 6-16-59, Cl. 260—177.
- Tsang, Sien M., and R. S. Long, to American Cyanamid Co. N-biphenyl and N,N'-biphenylene-bis-B-aminonaphtholsulfonic acids. 2,884,446, 4-28-59, Cl. 260—509.
- Tsang, Sien M., C. E. Lewis, and A. P. Paul, to American Cyanamid Co. Polyacrylonitriles dyed with quaternized heterocyclic azo dyes. 2,893,816, 7-7-59, Cl. 8—55.
- Tschakert, Wilfried,  $\frac{1}{2}$  to A. T. Spolter, and  $\frac{1}{2}$  to A. J. Spolter. Light tubes and walls with radioactive cold cathodes. 2,919,361, 12-29-59, Cl. 313—54.
- Tschappu, Fred, to Landis & Gyr, A.G. Power measuring instrument. 2,919,405, 12-29-59, Cl. 324—107.
- Tschappu, Fred, to Landis & Gyr, A.G. Power measuring instrument. 2,919,406, 12-29-59, Cl. 324—107.
- Tschentke, Herman L., and C. B. Streightif, to Wilson & Co., Inc. Sensitizing photographic gelatin. 2,868,661, 1-13-59, Cl. 106—135.
- Tschermak, Manfred, to Siemens-Schuckertwerke Akt. Control device utilizing hall-effect plates. 2,885,629, 5-5-59, Cl. 323—74.
- Tsiang, Sih H.: *See*—  
Karlet, Joseph G., and Tsiang. 2,910,578.
- Tsiang, Sih H., to Westinghouse Air Brake Co. Railway switch control apparatus. 2,880,308, 3-31-59, Cl. 246—161.
- Tsiguloff, George N., to Tokheim Corp. Safety disconnect valve. 2,898,926, 8-11-59, Cl. 137—68.
- Tsuchikawa, Takeo. Gear rolling machine. 2,883,894, 4-28-59, Cl. 80—13.
- Tsuchiya, Henry M.: *See*—  
Hehre, Edward J., Tsuchiya, Hellman, and Senti. 2,906,669.
- Tsuchiya, Takuzo: *See*—  
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- Tsuda, George S. Electric toothbrush with improved toothbrush holder. 2,875,458, 3-3-59, Cl. 15—22.
- Tsunoda, Kenneth, and K. Kuhlmann, to American Messer Corp. Apparatus for vaporizing normally gaseous material from liquefied form. 2,907,176, 10-6-59, Cl. 62—50.
- Tsunoda, Yoshio, and M. Seko, to Asahi Chemical Industry Co., Ltd. Anion exchange resins, prepared in the presence of plasticizer and polymer. 2,883,349, 4-21-59, Cl. 260—2.1.
- Tsunoda, Yoshio, and M. Seko, to Asahi Chemical Industry Co., Ltd. Sulfonic cation exchange resins prepared in the presence of plasticizer and polymer. 2,891,014, 6-16-59, Cl. 260—2.2.
- Tsunoda, Yoshio, and M. Seko, to Asahi Chemical Industry Co., Ltd. Carboxylic acid type cation exchange resins prepared in the presence of plasticizer and polymer. 2,891,015, 6-16-59, Cl. 260—2.2.
- Tsunoda, Yoshio, M. Seko, M. Watanabe, R. Ehara, and T. Misumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Carboxylic acid type cation exchange resins of large dimensions. 2,894,917, 7-14-59, Cl. 260—2.2.
- Tsunoda, Yoshio, M. Seko, M. Watanabe, R. Ehara, and T. Misumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Sulfonic acid type cation exchange resin. 2,898,311, 8-4-59, Cl. 260—2.2.
- Tubbs, Elton H. System for the electrical control of flush tank operations. 2,881,450, 4-14-59, Cl. 4—67.
- Tubbs, Eugene W.: *See*—  
Dalton, Herman L. 2,904,299.
- Tubbs, Howard A. Coupling apparatus for a well system. 2,918,972, 12-29-59, Cl. 166—88.



- Tube Masters, Inc.: *See*—  
Simons, William B., Jr., and Seagrave. 2,888,216.
- Tube Products Ltd.: *See*—  
Norton, Albert, and Bradshaw. 2,900,879.
- Tube Turns Plastics, Inc.: *See*—  
Hendry, James W. 2,890,491.  
Hendry, James W. 2,899,710.
- Tubelock Co.: *See*—  
Edmundson, Warren F. 2,873,129.
- Tubinis, Matthew P.: *See*—  
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- Tuboscope Co.: *See*—  
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Price, Berry G. 2,880,499.  
Price, Berry G. 2,915,830.  
Price, Berry G., Unger, and Wood. 2,878,446.  
Price, Berry G., Unger, and Wood. 2,878,447.  
Price, Berry G., Wood, and Unger. 2,881,386.  
Price, Berry G., Wood, and Unger. 2,882,488.  
Price, Berry G., Wood, and Unger. 2,908,085.  
Price, Berry G., Wood, and Unger. 2,909,393.  
Wood, Fenton M. 2,881,387.
- Tubular Structures Corp. of America: *See*—  
May, Marvin M. 2,906,551.  
Samuely, Max. 2,869,325.
- Tuchel, Ulrich. Couplings for electric cables, conductors and the like. 2,905,922, 9-22-59, Cl. 339-141.
- Tuck, Edward, to United States of America, Navy. Explosive feedthrough connector. 2,903,504, 9-8-59, Cl. 174-152.
- Tuck, Robert M., to General Motors Corp. Hydraulic control systems for automotive transmissions. 2,884,806, 5-5-59, Cl. 74-645.
- Tuck, Robert M., to General Motors Corp. Automatic transmission. 2,899,846, 8-13-59, Cl. 74-759.
- Tucker, Arnold W.: *See*—  
King, Kenneth G., and Tucker. 2,908,857.
- Tucker, Belden S., to C. H. Wheeler Mfg. Co. Pumping system. 2,911,919, 11-10-59, Cl. 103-87.
- Tucker, Benjamin W., Jr., to Otis Elevator Co. Power actuated mechanism for elevator closures. 2,890,881, 6-16-59, Cl. 268-53.
- Tucker, Carl L., to Rockmont Envelope Co. Means for servicing savings accounts by mail. 2,887,327, 5-19-59, Cl. 283-1.
- Tucker, Council A., and J. C. Layton, to Towlsaver, Inc. Dispenser for a plurality of rolls of material. 2,908,451, 10-13-59, Cl. 242-5542.
- Tucker, Edwin W.: *See*—  
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- Tucker, Emmitt M., Sr., to Tucker & Sons. Multiple-wheel vehicle. 2,906,358, 9-29-59, Cl. 180-23.
- Tucker, Gardiner L., to International Business Machines Corp. Unipolar transistor. 2,869,054, 1-13-59, Cl. 317-235.
- Tucker, Harold: *See*—  
Diem, Hugh E., and Tucker. 2,913,444.
- Tucker, Harold, to The B. F. Goodrich Co. Ozone inhibitors. 2,895,940, 7-21-59, Cl. 260-459.
- Tucker, Harold H., to Jos. H. Lowenstein & Sons, Inc. Dyeing composition and method. 2,890,094, 6-9-59, Cl. 8-54.
- Tucker, James E.: *See*—  
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- Tucker, James W.: *See*—  
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Tucker, Jewell G., to General Electric Co. Ultra-high frequency electric discharge device. 2,887,602, 5-19-59, Cl. 313-174.
- Tucker, Jewell G., to General Electric Co. Electron beam discharge device. 2,913,617, 11-17-59, Cl. 313-296.
- Tucker, Jo W. Portable trestles. 2,874,004, 2-17-59, Cl. 304-5.
- Tucker, Jo W. Adjustable joint trowel. 2,896,441, 7-28-59, Cl. 72-136.
- Tucker, Jo W. Portable trestle. 2,897,912, 8-4-59, Cl. 182-226.
- Tucker, John M.: *See*—  
Biggs, Ralph J., and Tucker. 2,912,880.
- Tucker, Leslie B. Safety belt for vehicle occupants. 2,904,347, 9-15-59, Cl. 280-150.
- Tucker, Marilyn A.: *See*—  
Slotterbeck, Ober C., and Tucker. 2,872,345.
- Tucker, Morton. Vent locking means for awning type windows. 2,893,728, 7-7-59, Cl. 268-11.
- Tucker, Robert W.: *See*—  
Shoemaker, Robert F., Tucker, and Kalmus. 2,909,122.
- Tucker, Sam H., Jr.: *See*—  
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- Tucker, Shirley S. Automatic syringe injector device. 2,918,063, 12-22-59, Cl. 128-218.
- Tucker & Sons: *See*—  
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- Tucker, Warren R.: *See*—  
Endebak, Peter J., Riske, and Tucker. 2,889,009.
- Tucker, William F., to Monsanto Chemical Co. Process for producing polymeric phosphorus pentoxide. 2,907,635, 10-6-59, Cl. 23-165.
- Tudbury, Chester A., to The Ohio Crankshaft Co. Electrical conductor for induction heating coils. 2,879,366, 3-24-59, Cl. 219-1079.
- Tudbury, Chester A., to The Ohio Crankshaft Co. Vacuum melting furnace. 2,909,585, 10-20-59, Cl. 13-27.
- Tudbury, Chester A., to The Ohio Crankshaft Co. Induction muffle furnace. 2,912,553, 11-10-59, Cl. 219-1049.
- Tudge, Joseph, to Metropolitan-Vickers Electrical Co. Ltd. Dynamo-electric machines. 2,900,538, 8-18-59, Cl. 310-59.
- Tufford, Robert D.: *See*—  
Bauer, Frank K., and Tufford. 2,891,373.
- Tufford, Walter W., and L. E. Thomas, said Thomas to said Tufford. Metering valve. 2,875,927, 3-3-59, Cl. 222-144.
- Tufted Patterns, Inc.: *See*—  
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- Tuggle, Ida: *See*—  
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- Tughan, Victor D., to Imperial Chemical Industries Ltd. Polymer compositions. 2,889,310, 6-2-59, Cl. 260-459.
- Tulacz, Piotr. High pressure compressors. 2,881,037, 4-7-59, Cl. 309-23.
- Tulagin, Vsevolod: *See*—  
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- Tulagin, Vsevolod, and W. F. Hoffstadt, to General Aniline & Film Corp. Ultra-violet absorbing compounds. 2,888,346, 5-26-59, Cl. 96-84.
- Tulk, George H., Jr., and T. A. Neuhaus, to The Glidden Co. Treatment of hydrocarbon drying oils with epoxidized triglyceride oils. 2,907,669, 10-6-59, Cl. 106-265.
- Tull, Robert H., to Westinghouse Electric Corp. Air conditioning apparatus. 2,891,389, 6-23-59, Cl. 62-298.
- Tull, Roger J.: *See*—  
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- Tull, Vernon M.: *See*—  
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- Tull, William J.: *See*—  
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- Tull, William J., and F. N. Gillette, to General Precision Laboratory Inc. Navigation system. 2,869,118, 1-13-59, Cl. 343-9.
- Tull, William J., A. H. Frederick, M. W. McKay, and W. B. Lurie, to General Precision Laboratory Inc. Microwave drift sight and speed indicator. 2,915,748, 12-1-59, Cl. 343-9.
- Tullis, James L.: *See*—  
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- Tullis, James L., to Protein Foundation Inc. Separation centrifuge. 2,906,452, 9-29-59, Cl. 233-28.
- Tullis, James L., and R. J. Tinch, to Protein Foundation Inc. Collection centrifuge. 2,906,451, 9-29-59, Cl. 233-27.
- Tullock, Charles W.: *See*—  
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- Tullock, Charles W., to E. I. du Pont de Nemours and Co. Method of preparing trifluoromethylthiophosphor difluorides. 2,883,422, 4-21-59, Cl. 260-543.
- Tullock, Charles W., to E. I. du Pont de Nemours and Co. Reaction of metal fluorides with thiophosgene and perchloromethyl mercaptan. 2,884,453, 4-28-59, Cl. 260-543.
- Tullock, Charles W., to E. I. du Pont de Nemours and Co. Synthesis of hexafluoroazomethane. 2,912,429, 11-10-59, Cl. 260-192.
- Tullos, Frank N.: *See*—  
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- Tullos, Frank N., to Jersey Production Research Co. Acoustic impedance logging. 2,868,311, 1-13-59, Cl. 181-5.
- Tullos, Frank N., to Jersey Production Research Co. Amplifying system. 2,911,487, 11-3-59, Cl. 179-171.
- Tully, John J., to Waterbury Farrel Foundry & Machine Co. Stop mechanism for multi-plunger press. 2,900,072, 8-15-59, Cl. 198-232.
- Tully, John N.: *See*—  
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- Tully, Thomas J., to Olin Mathieson Chemical Corp. Recovery of trimethyl borate from methanolic solutions thereof. 2,889,352, 6-2-59, Cl. 260-462.
- Tulp, Theodorius J.: *See*—  
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- Tuner's Supply Co.: *See*—  
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- Tung, Ching C.: *See*—  
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- Tung, Ching C., to Monsanto Chemical Co. N-nitroso bis (alkoxyphenyl) phenylenediamines. 2,897,177, 7-28-59, Cl. 260-459.
- Tung, Shao E.: *See*—  
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- Tung, Shao E., to Constock Liquid Methane Corp. Methane liquefaction cycle. 2,896,414, 7-28-59, Cl. 62-12.
- Tungolin Co., Inc., The: *See*—  
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- Tungseth, Barry F.: *See*—  
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- Tung-Sol Electric Inc.: *See*—  
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- Tunney, Gilbert H. Studio lighting system. 2,905,806, 9-22-59, Cl. 240-3.



- Tunncliffe, Edward A. J., to Electronic and X-Ray Applications Ltd. Equipment for use with mechanical breathing apparatus. 2,891,537, 6-23-59, Cl. 123-30.
- Tunncliffe, Edward A. J., and C. L. Densham, to Electronic and X-Ray Applications Ltd. and Wade Engineering Ltd. Mechanical breathing apparatus. 2,875,946, 3-3-59, Cl. 230-42.
- Tunstall, Spencer. Bobbin signal. 2,910,555, 10-27-59, Cl. 200-61.15.
- Tuozzo, Michael R.: *See*—  
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- Tupis, Carolyn K.: *See*—  
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- Tupis, Carolyn K., to Eastman Kodak Co. Photographic reproduction process using light-sensitive polymers. 2,887,376, 5-19-59, Cl. 96-35.
- Tupper Corp.: *See*—  
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- Tupper, Earl S., to Tupper Corp. Receptacles having forced or snapped-in covers. 2,880,859, 4-7-59, Cl. 206-46.
- Tupper, Earl S., to Tupper Corp. Combined container and cover. 2,892,540, 6-30-59, Cl. 206-65.
- Tupper, Earl S., to Tupper Corp. Portable storage and crushing device. 2,892,595, 6-30-59, Cl. 241-199.
- Tupper, Earl S., to Tupper Corp. Cleaning, scraping and mixing implement. 2,900,656, 8-25-59, Cl. 15-245.
- Tupper, Earl S., to Tupper Corp. Straining and stem holding structure. 2,900,760, 8-25-59, Cl. 47-41.
- Tupper, Earl S., to Tupper Corp. Discardable or reusable plastic package. 2,901,098, 8-25-59, Cl. 206-46.
- Tupper, Milton M.: *See*—  
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- Tuppy, Hans. Synthesis of furoquinoline derivatives. 2,895,956, 7-21-59, Cl. 260-289.
- Turan, Nathaniel L. Three dimensional return post card folder. 2,884,184, 4-28-59, Cl. 229-92.1.
- Turansky, Clement J., and S. J. Pirrone, to United States of America, Air Force. Starting assembly for a power plant. 2,880,582, 4-7-59, Cl. 60-39.48.
- Turansky, Clement J., and S. J. Pirrone, to United States of America, Air Force. Chatter-free check valve. 2,916,046, 12-8-59, Cl. 137-496.
- Turati, Enrico. Dryers. 2,878,581, 3-24-59, Cl. 34-92.
- Turbeville, James R. Beach towel stake. 2,889,129, 6-2-59, Cl. 248-361.
- Turbin, Kenneth L.: *See*—  
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- Turbine Equipment Co.: *See*—  
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- Turbo Industries, Inc.: *See*—  
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- Turbo Machine Co.: *See*—  
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- Turchan, Manuel. Tracer support for machine tool. 2,909,103, 10-20-59, Cl. 90-62.
- Turco Products, Inc.: *See*—  
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- Turcsan, Peter S., to P. S. Turcsan, S. Bloom, and E. Elin, d.b.a. Easy-On Co. Bow tie clasp. 2,911,696, 11-10-59, Cl. 24-81.
- Turechek, George F., to Dresser Industries, Inc. Wireline feed-in device. 2,919,015, 12-29-59, Cl. 203-263.
- Turetz, Manuel. Intermittently dispensing roller towel cabinet. 2,867,486, 1-6-59, Cl. 312-38.
- Turgeon, Albert J., to Eastern Power Devices Ltd. Disconnecting switch. 2,871,309, 1-27-59, Cl. 200-48.
- Turiansky, Iwan: *See*—  
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- Turinsky, Otto, to Armour and Co. Metal working method and lubricant therefor. 2,917,160, 12-15-59, Cl. 205-2.
- Turk, Carrol G.: *See*—  
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- Turk, Ernest: *See*—  
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- Turk, Jerome M., to Super Whip Valve Co. Dispenser valve structure. 2,892,575, 6-30-59, Cl. 222-394.
- Turk, Solomon A. Multi-purpose warning blinker. 2,890,444, 6-9-59, Cl. 340-366.
- Turk, Walter E., and E. D. Hendry, to English Electric Valve Co. Ltd. Cathode ray tubes. 2,909,687, 10-20-59, Cl. 313-67.
- Turkel, David H.: *See*—  
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- Turkevich, John, to The M. W. Kellogg Co. Reforming with a heteropoly acid catalyst in the presence of water. 2,886,515, 5-12-59, Cl. 208-134.
- Turko, Michael: *See*—  
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- Turko Products, Inc.: *See*—  
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- Turkot, Victor A., R. K. Eskew, and N. C. Aceto, to United States of America, Agriculture. Process for dehydrating liquid foodstuffs with preservation of volatile flavors. 2,906,630, 9-29-59, Cl. 99-206.
- Turley, Joseph D., to General Motors Corp. Fuel injection system. 2,891,532, 6-23-59, Cl. 123-140.
- Turley, Joseph D., to General Motors Corp. Throttle linkage mechanism. 2,914,130, 11-24-59, Cl. 180-77.
- Turman, Belle. Headpiece. 2,893,403, 7-7-59, Cl. 132-46.
- Turman, Toby L. Fountain toothbrush. 2,908,924, 10-20-59, Cl. 15-137.
- Turnage, Richard W.: *See*—  
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- Turnage, Rodger E., Jr., to Hazeltine Research, Inc. Linear sweep-signal generator. 2,874,311, 2-17-59, Cl. 307-88.5.
- Turnbull, Frederick M.: *See*—  
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- Turnbull, Frederick W. Mold for applying enamel. 2,888,783, 6-2-59, Cl. 49-92.5.
- Turnbull, Frederick W. Method of enameling the interior of hollow metal bodies. 2,912,751, 11-17-59, Cl. 29-527.
- Turnbull, John S.: *See*—  
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- Turnbull, John S., to Metropolitan-Vickers Electrical Co. Ltd. Vacuum casting. 2,877,523, 3-17-59, Cl. 22-73.
- Turnbull, John S. Golf club protecting and separating devices. 2,879,819, 3-31-59, Cl. 150-1.5.
- Turnbull, Robert H. Separation of fibres from fibrous plants. 2,871,163, 1-27-59, Cl. 195-8.
- Turner, Albert V. Packaging machine. 2,909,018, 10-20-59, Cl. 53-124.
- Turner, Alonzo R., to Counter Balance, Inc. Counterbalanced cover lift. 2,903,149, 9-8-59, Cl. 217-60.
- Turner, Andrew C.: *See*—  
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- Turner, Archibald J., to Wilson Athletic Goods Mfg. Co., Inc. Grip for golf clubs and the like. 2,877,018, 3-10-59, Cl. 273-81.4.
- Turner Aviation Corp.: *See*—  
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- Turner Brass Works, The: *See*—  
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- Turner, Charles R., to Proctor Electric Co. Automatic bread toaster. 2,877,702, 3-17-59, Cl. 99-329.
- Turner, Charles R., to Proctor Electric Co. Parallel heating unit wattage controller system. 2,906,845, 9-29-59, Cl. 219-20.
- Turner, Charles W.: *See*—  
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- Turner, Delber W., to Petrolite Corp. Electric emulsion breaking treater. 2,880,158, 3-31-59, Cl. 204-302.
- Turner, Delber W., to Petrolite Corp. Dual electric treater for emulsions. 2,894,895, 7-14-59, Cl. 204-302.
- Turner, Delmer W.: *See*—  
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- Turner, Dennis R., to Bell Telephone Laboratories, Inc. Method for electropolishing semiconducting material. 2,871,174, 1-27-59, Cl. 204-140.5.
- Turner, Dorothy H.: *See*—  
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- Turner, Douglas, and R. C. Macomber, to Macomber, Inc. Door operating mechanism. 2,889,875, 6-9-59, Cl. 160-188.
- Turner, Douglas A.: *See*—  
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- Turner, Earl W.: *See*—  
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- Turner, Edgar P. Automatic shut-off dispensing nozzle valve with timer controlled shut-off. 2,883,171, 5-26-59, Cl. 222-47.
- Turner, Edgar P., to The Singer Mfg. Co. Loom driving mechanism. 2,889,855, 6-9-59, Cl. 139-336.
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- Turner, Edgar P., to The Singer Mfg. Co. Control systems for clutch-brake motors. 2,916,120, 12-8-59, Cl. 192-18.
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- Turner, Edward H., to Bell Telephone Laboratories, Inc. Nonreciprocal wave transmission. 2,909,734, 10-20-59, Cl. 333-24.



- Turner, Edward H. Balances. 2,914,361, 11-24-59, Cl. 308-2.
- Turner, Edwin E., to Raytheon Co. Fluid flow meters. 2,896,449, 7-28-59, Cl. 73-181.
- Turner, Edwin E. Method and apparatus for energy conversion. 2,899,565, 8-11-59, Cl. 290-1.
- Turner, Frank T.: *See*—  
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- Kaplan, Jack, and Turner. 2,872,578.
- Turner, Frank T. and A. C. Ash tray assembly. 2,912,135, 11-10-59, Cl. 220-20.5.
- Turner, Frederick J. L.: *See*—  
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- Turner, George I.: *See*—  
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- Turner, George L., to H. B. Sherman Mfg. Co. Hose coupling assembly. 2,902,299, 9-1-59, Cl. 285-258.
- Turner, George O., to The Dow Chemical Co. Method and composition for the treatment of soil. 2,875,118, 2-24-59, Cl. 167-22.
- Turner, George O., to The Dow Chemical Co. Agronomical practice employing 1,4-dichloro-2-butyne for the culture and protection of crops. 2,918,363, 12-22-59, Cl. 71-2.7.
- Turner, Gordon H., to The Consolidated Mining and Smelting Co. of Canada Ltd. Process for the electrolytic refining of lead. 2,877,165, 8-10-59, Cl. 204-114.
- Turner, Harold H., to The Ingersoll Milling Machine Co. Multiple direction visual measuring system. 2,879,692, 3-31-59, Cl. 88-24.
- Turner, Henry G., to American Telephone and Telegraph Co. Display carrying unit for color telephone sets. 2,908,382, 10-13-59, Cl. 206-45.19.
- Turner, Henry W.: *See*—  
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- Turner, Herman B. Method of treating and processing poultry. 2,866,998, 1-6-59, Cl. 17-45.
- Turner, Howard B. Frictionally adjustable universal joint. 2,892,648, 6-30-59, Cl. 287-100.
- Turner, Howard H. Shade roller bracket. 2,912,209, 11-10-59, Cl. 248-266.
- Turner, Jack W.: *See*—  
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- Turner, Jack W., to Rowe Mfg. Co., Inc. Control circuit for electrical merchandising machines. 2,895,582, 7-21-59, Cl. 194-7.
- Turner, John, to Koppers Co., Inc. Dust filter and collector. 2,867,288, 1-6-59, Cl. 183-61.
- Turner, John. Broken strand indicator. 2,876,615, 3-10-59, Cl. 57-81.
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- Turner, John L., to Raytheon Mfg. Co. Noninductive cathode heaters. 2,869,032, 1-13-59, Cl. 315-39.51.
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- Turner, Leonard E. Pipe handling tool. 2,873,995, 2-17-59, Cl. 294-15.
- Turner, Louis A.: *See*—  
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- Turner, Marshall C., to Phillips Petroleum Co. Integral casing packing seat. 2,904,115, 9-15-59, Cl. 166-115.
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- Turner, Peter J. A.: *See*—  
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- Turner, Ralph M. Reciprocatory impact hand tool. 2,905,034, 9-22-59, Cl. 81-52.35.
- Turner, Ralph R., to Lombard Corp. Ejector for gripper jaws. 2,897,957, 8-4-59, Cl. 205-24.
- Turner, Ralph R., to Lombard Corp. Equalizer bar for draw-bench. 2,919,016, 12-29-59, Cl. 205-3.
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- Turner, Richard G., to Crompton & Knowles Corp. Weft detecting system for pick and pick automatic loom. 2,897,846, 8-4-59, Cl. 139-232.
- Turner, Richard G., to Crompton & Knowles Corp. Weft needle operating mechanism for loom. 2,902,057, 9-1-59, Cl. 139-124.
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- Turner, Robert L.: *See*—  
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- Turner, Roy, and E. A. White, to The British Petroleum Co. Ltd. Equilibrium pressure autofining with a silica-alumina base autofining catalyst. 2,893,953, 7-7-59, Cl. 208-214.
- Turner, Russell H.: *See*—  
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- Turner, William R., to United States of America, Navy. Electronic ultrasonic image converter. 2,903,617, 9-8-59, Cl. 315-12.
- Turnipseed, David R. Auxiliary tractor seat. 2,870,820, 1-27-59, Cl. 155-78.
- Turpin, Alexander J.: *See*—  
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- Turpin, Frank G., Jr., K. E. Draeger, and L. M. Addison, to Esso Research and Engineering Co. Prevention of catalyst loss in the regeneration of molybdenum oxide hydroforming catalysts. 2,913,402, 11-17-59, Cl. 208-136.
- Turpin, Lawrence A. Drip silencer. 2,885,123, 5-5-59, Cl. 222-187.
- Turre, George J., to Hamilton Watch Co. Galvanometer. 2,882,498, 4-14-59, Cl. 324-156.
- Turrin, Joseph C.: *See*—  
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- Turrini, John M. J.: *See*—  
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- Tursky, Michael F.: *See*—  
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- Tursman, Stanley E. Wheel alignment equipment. 2,882,608, 4-21-59, Cl. 33-203.18.
- Turteltaub, Bernard. Portable lock for motor vehicle pivoted windows. 2,873,769, 2-17-59, Cl. 292-288.
- Turtill, Joseph, to I-T-E Circuit Breaker Co. Motor reversing and dynamic braking circuit. 2,912,632, 11-10-59, Cl. 318-261.
- Turton, John W., and R. M. Strickland, to United-Greenfield Corp. Carbide drill. 2,889,725, 6-9-59, Cl. 77-67.
- Turunen, William A.: *See*—  
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- Turzillo, Lee, to Intrusion-Prepakt, Inc. Method for making structural foundations. 2,875,584, 3-3-59, Cl. 61-50.
- Tuscher, Jean E., to Sebem S. A. Fuel feed device for internal combustion engines. 2,869,528, 1-20-59, Cl. 123-140.
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- Tusing, Roy S., to Westinghouse Electric Corp. Metal-enclosed switchgear. 2,888,615, 5-26-59, Cl. 317-103.
- Tuthill, Herbert. Aircraft mirror. 2,878,726, 3-24-59, Cl. 88-98.
- Tuthill, Roger W., and A. U. Welch, to Air Reduction Co., Inc. Electric arc welding. 2,886,696, 5-12-59, Cl. 219-137.
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- Tuttle, Charles H.: *See*—  
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- Tuttle, Clifton M.: *See*—  
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- Tuttle, Clifton M., F. M. Brown, and C. J. Brasser, to Specialties, Inc. Photofluorography. 2,880,325, 3-31-59, Cl. 250-66.
- Tuttle, Daniel V., to Tuttle Electric Products, Inc. Electric igniter for gas burners. 2,912,623, 11-10-59, Cl. 317-87.
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- Tuttle, Richard C. Control means for automatic fishing reels. 2,882,637, 4-21-59, Cl. 43-20.
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- Tuttle, Robert F., to General Motors Corp. Roller type tire mounting machine. 2,907,379, 10-6-59, Cl. 157-1.1.
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- Tweit, Robert C.: *See*—  
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- Twiford, Harry G. Power operated bead breaker. 2,892,491, 6-30-59, Cl. 157—128.
- Twiford, Harry G. Tire holding table. 2,903,029, 9-8-59, Cl. 144—288.
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- Twin Martin Corp.: *See—*
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- Twining, Ralph H., to L. H. Lincoln & Son, Inc. Gels and process for making them. 2,874,545, 2-24-59, Cl. 61—36.
- Twitchell, Herman P., to Preston Street Combing Co. Ltd. Carding engines for wool. 2,902,724, 9-8-59, Cl. 19—99.
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- Tye, Joseph F., to Tokheim Corp. Bottom filling system and apparatus. 2,884,964, 5-5-59, Cl. 141—128.
- Tyklusky, Alexander, to Omega Laboratories. Method and means for producing electrical waves. 2,881,311, 4-7-59, Cl. 250—27.
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- Tyrer, Daniel and D. D. Process of improving the smoking qualities of tobacco. 2,914,072, 11-24-59, Cl. 131—140.
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- Tyson, George N., Jr., to Olin Mathieson Chemical Corp. Preparation of borate esters. 2,884,440, 4-28-59, Cl. 260—462.
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- Uher, Edmund: See—  
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- Ullman, Henry, to The Mettoy Co. Driving mechanism for toys. 2,873,553, 2-17-59, Cl. 46—209.
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- Ulrich, James F., to The Tenna Mfg. Co. Clutching mechanism. 2,896,870, 7-28-59, Cl. 242—54.
- Ulrich, Jose R. Automatic card file system. 2,872,053, 2-3-59, Cl. 214—11.
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- Umstead, Donald E. Bin dispenser. 2,915,162, 12-1-59, Cl. 193—27.
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Erasmus, Hendrik D., and Hamby. 2,913,318.  
Evans, George E. 2,894,052.  
Everts, Arthur H. 2,913,382.  
Farnham, Alford G. 2,885,385.  
Felbeck, George T. 2,878,000.  
First, Vincent E., and Paulsen. 2,918,801.  
First, Vincent E., Potts, Rice, and Yendall. 2,908,144.  
Fisher, Joseph C., Jr. 2,897,102.  
Fedderson, Harry A. 2,889,308.  
Fox, Charles H., Jr. 2,892,530.  
Fritz, William H., Potter, and Cox. 2,913,892.  
Frostick, Frederick C., Jr., and Phillips. 2,883,398.  
Gaarder, Gilbert W. 2,888,879.  
Gage, Robert M. 2,868,950.  
Goldsmith, William F. 2,913,495.  
Granger, Fred L. 2,872,498.  
Graubner, Herman G. 2,886,664.  
Grulke, Carl A., and Fox. 2,879,187.
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Grulke, Carl A., and Fox. 2,880,123.  
Guest, Howard R., Adams, and Kiff. 2,909,506.  
Guest, Howard R., Adams, and Kiff. 2,913,434.  
Guest, Howard R., Adams, and Kiff. 2,913,435.  
Guest, Howard R., Adams, and Kiff. 2,915,501.  
Guest, Howard R., and Kiff. 2,900,395.  
Guest, Howard R., Kiff, and Stansbury. 2,910,520.  
Guest, Howard R., and Stansbury. 2,874,167.  
Guest, Howard R., and Stansbury. 2,889,358.  
Guest, Howard R., and Stansbury. 2,889,359.  
Guest, Howard R., and Stansbury. 2,891,888.  
Gulick, Rodwin E. 2,913,432.  
Hale, Arlan B. 2,889,209.  
Hale, Arlan B., and Parrish. 2,868,856.  
Hamister, Victor C. 2,893,848.  
Hatfield, Marcus R. 2,904,615.  
Haumann, Wilfried. 2,908,145.  
Haynes, Harry L. 2,891,889.  
Haynes, Harry L., Sousa, and Lampert. 2,872,367.  
Heimaster, John W., and McNeill. 2,886,299.  
Heisig, Charles G. 2,869,358.  
Henderson, William E. 2,890,552.  
Henry, Joseph F. 2,884,462.  
Hess, Lawrence G., and Cox. 2,912,464.  
Hess, Lawrence G., and Schulz. 2,898,366.  
Hess, Lawrence G., and Schulz. 2,898,367.  
Hill, Clifford W., and Kane. 2,906,854.  
Hill, Fred N. 2,897,178.  
Hilty, Donald C. 2,915,380.  
Hoaglin, Raymond I., Reid, and Kelso. 2,909,499.  
Hoaglin, Raymond I., Schultze, and Hodges. 2,910,502.  
Hoffman, Albert Jr., and Bagley. 2,891,781.  
Hogsett, John N. 2,881,176-2,881,182.  
Holycross, Clayton O., and Raub. 2,903,236.  
Homer, Howard J., and Cummins. 2,916,400.  
Hostettler, Fritz, and Shriver. 2,914,556.  
Huntley, Alton K., and Carmichael. 2,901,526.  
Isele-Aregger, Alfons. 2,901,139.  
Jackson, Clarence E., and Ruzek. 2,871,339.  
Jacobsson, Wilgot J. 2,908,158.  
Jex, Victor B., and McMahon. 2,906,764.  
Jex, Victor B., and McMahon. 2,906,765.  
Jex, Victor B., and McMahon. 2,907,784.  
Jex, Victor B., and McMahon. 2,908,699.  
Jex, Victor B., and McMahon. 2,908,700.  
Jex, Victor B., and McMahon. 2,908,701.  
Johnson, Edward O. 2,884,328.  
Johnson, Gordon C., and Jellinek. 2,868,751.  
Johnson, Harry V. 2,894,776.  
Johnson, Neal J., and Nickerson. 2,868,672.  
Johnson, Philip C., and Cox. 2,919,292.  
Jurras, Andrew W. 2,901,455.  
Kahl, Walter H. 2,903,859.  
Kayser, David L. 2,893,238.  
Keutgen, William A., Davall, Daniels, and Noyes. 2,901,337.  
Kiffer, Alfred D. 2,872,397.  
Korchynsky, Michael. 2,871,117.  
Kratman, Eugene A. 2,890,206.  
Kratman, Eugene A. 2,890,207.  
Kubler, Donald G. 2,870,166.  
Kubler, Donald G. 2,905,699.  
Kurzinski, Edward F., Collins, Barnes, and Dahm. 2,889,222.  
Laird, Stanley M. 2,907,501.  
Lambrecht, Joseph A. 2,903,478.  
Lampert, Bernard B., and Meili. 2,905,728.  
Lampert, Bernard B., Murray, and Peck. 2,910,518.  
Lanham, William M. 2,875,235.  
Lanham, William M. 2,876,244.  
Lanham, William M. 2,876,245.  
Lanham, William M. 2,879,287.  
Lanham, William M. 2,880,225.  
Lanham, William M. 2,883,411.  
Lanham, William M. 2,900,407.  
Lanham, William M. 2,892,862.  
Lanham, William M. 2,892,863.  
Lanham, William M. 2,894,016.  
Lanham, William M. 2,894,974.  
Lanham, William M. 2,903,474.  
Lanham, William M. 2,909,559.  
Lanham, William M. 2,910,499.  
Leonard, Carl L., Schneider, and Sheppard. 2,906,372.  
Levin, Nathan, and Smythe. 2,891,284.  
Lobosco, Roscoe R. 2,868,956.  
Lobosco, Roscoe R., Messina, and Oyler. 2,871,336.  
Lorenz, James H., and Whaley. 2,912,308.  
Lorenz, James H., and Whaley. 2,915,368.  
Louzos, Demetrios V. 2,894,053.  
Loveday, Paul E. 2,900,800.  
MacPeck, Donald L. 2,907,774.  
Marvin, Philip R. 2,905,573.  
Marvin, Philip R. 2,916,398.  
Mazzucchelli, Arthur P., Bugel, and Rosenthal. 2,909,752.  
McElrath, Thomas, and Gorman. 2,905,805.  
McGhee, Kenneth B., and Johnson. 2,892,218.  
McGill, William C. 2,869,924.  
Metzger, Alfred P. 2,872,432.  
Meyers, Cal Y. 2,889,373.  
Meyers, Cal Y. 2,889,374.  
Miller, Alfred J. 2,897,883.



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Miller, Howard R. 2,892,072.  
 Milton, Robert M. 2,882,243.  
 Milton, Robert M. 2,882,244.  
 Mitchell, Charles V. 2,915,370.  
 Mitchell, James A. 2,875,562.  
 Modl, Emma M. 2,909,834.  
 Montagna, Amelio E. 2,900,311.  
 Montagna, Amelio E., and Hirsh. 2,905,722.  
 Montagna, Amelio E., Kubler, and Brezinski. 2,876,239.  
 Montagna, Amelio E., and Lashley. 2,887,496.  
 Montagna, Amelio E., and Lashley. 2,912,441.  
 Moorefield, Herbert H. 2,904,463.  
 Moorefield, Herbert H. 2,904,464.  
 Moorefield, Herbert H. 2,904,465.  
 Morrison, William G., Jr. 2,897,106.  
 Morro, William C., Jr., and McBride. 2,891,633.  
 Morton, Harold S., Jr. 2,906,858.  
 Murray, James V., Jr., Fales, and Eccles. 2,913,397.  
 Murray, James V., Jr., Fales, and Young. 2,916,497.  
 Napiorski, Carl A. 2,882,017.  
 Nelson, John A., Jr., and Vollmer. 2,879,177.  
 Nestor, Ontario H. 2,906,857.  
 Nickerson, John D. 2,906,632.  
 O'Connor, Michael J., and Detweiler. 2,868,827.  
 Oliver, John P. 2,876,190.  
 Ostrofsky, Bernard, and Ballard. 2,913,357.  
 Oyler, Glenn W., and Maier. 2,886,692.  
 Oyler, Glenn W., and Maier. 2,890,322.  
 Oyler, Glenn W., Maier, and Reed. 2,884,510.  
 Pater, Anton S., and Houser. 2,883,040.  
 Perkins, Roger A., and Binder. 2,871,118.  
 Phillips, Benjamin, Frostick, McGary, and Patrick. 2,890,194.  
 Phillips, Benjamin, Frostick, McGary, and Patrick. 2,890,209.  
 Phillips, Benjamin, Frostick, McGary, and Patrick. 2,890,210.  
 Phillips, Benjamin, Frostick, McGary, and Patrick. 2,917,469.  
 Phillips, Benjamin, and Heywood. 2,891,969.  
 Phillips, Benjamin, and Heywood. 2,917,521.  
 Phillips, Benjamin, McGary, and Patrick. 2,912,389.  
 Phillips, Benjamin, McGary, and Patrick. 2,917,493.  
 Phillips, Benjamin, McGary, and Patrick. 2,918,444.  
 Phillips, Benjamin, and Starcher. 2,876,258.  
 Phillips, Benjamin, and Starcher. 2,894,959.  
 Phillips, Benjamin, and Starcher. 2,897,208.  
 Phillips, Benjamin, Starcher, McGary, and Patrick. 2,884,408.  
 Phillips, Benjamin, Starcher, McGary, and Patrick. 2,890,195.  
 Phillips, Benjamin, Starcher, McGary, and Patrick. 2,890,196.  
 Phillips, Benjamin, Starcher, McGary, and Patrick. 2,890,197.  
 Phillips, Benjamin, Starcher, McGary, and Patrick. 2,917,491.  
 Phillips, Benjamin, Starcher, McGary, and Patrick. 2,918,439.  
 Pike, Ronald M. 2,881,184.  
 Pike, Ronald M. 2,907,782.  
 Potts, Lawrence D., and Yendall. 2,873,583.  
 Quarles, Richard W., and McKnight. 2,914,498.  
 Raub, Henry S., Swidrak, and Palmquist. 2,905,093.  
 Reding, Frederick P. 2,877,196.  
 Reed, Thomas B., Maier, and Oyler. 2,874,265.  
 Reed, Thomas B., and Smith. 2,898,441.  
 Reidl, Ronald W., and Bobal. 2,881,090.  
 Reinhardt, Gustav. 2,876,330.  
 Rocky, Joseph F., and Nissel. 2,897,176.  
 Roth, Donald W., Thomas, and McKinsey. 2,919,341.  
 Rogers, Lewis M. 2,901,438.  
 Ruskin, Simon L. 2,906,680.  
 Ruskin, Simon L. 2,910,372.  
 Schaefer, Peter R., Wojciak, and Royennr. 2,873,355.  
 Schroeder, Juel P. 2,870,115.  
 Schwabe, William E. 2,909,422.  
 Sesler, Robert W., Baldwin, and Sprouse. 2,874,733.  
 Shiner, Edward A. 2,910,380.  
 Shechter, Leon, Wynstra, and Reinking. 2,897,179.  
 Shrubsall, Arthur E., and Jackson. 2,868,681.  
 Shrubsall, Harry I. 2,868,951.  
 Signer, Ralph J. 2,873,715.  
 Skinner, George M., and Roth. 2,868,954.  
 Smith, Paul L., and Boxes. 2,911,308.  
 Smythe, William J. 2,881,141.  
 Smythe, William J., and Muller. 2,917,473.  
 Snively, Earl S., Jr. 2,890,414.  
 Soltis, Daniel G. 2,870,235.  
 Southworth, James, Jr., Marsh, Badger, and Drenkler. 2,907,809.  
 Sperr, Fritz, and Wiberg. 2,909,550.  
 Spracklen, Stanford B., Campbell, and Fellows. 2,876,189.  
 Stanchus, Frank T. 2,876,329.  
 Stanchus, Frank T. 2,907,863.  
 Stansbury, Harry A., Jr., and Guest. 2,875,249.  
 Stansbury, Harry A., Jr., and Lykins. 2,886,568.  
 Steele, Arthur B. 2,868,791.  
 Steele, Arthur B. 2,868,801.  
 Stermann, Samuel. 2,885,384.  
 Thomas, Philip A., and Welch. 2,884,398.  
 Thompson, Bruce R., and Young. 2,877,217.

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Thompson, Ivan P., Allmang, Hartmann, Winter, and Blackburn. 2,873,224.  
 Tinsley, Samuel W. 2,884,465.  
 Tinsley, Samuel W. 2,898,381.  
 Tichler, Peter W. 2,916,600.  
 Toulmin, Harry A., Jr. 2,887,851.  
 Toulmin, Harry A., Jr. 2,888,353.  
 Toulmin, Harry A., Jr. 2,903,371.  
 Toulmin, Harry A., Jr. 2,914,411.  
 Toulmin, Harry A., Jr. 2,916,386.  
 Toulmin, Harry A., Jr. 2,919,199.  
 Underwood, William F., and Leventhal. 2,901,358.  
 Urs, Subbaraju V. 2,873,266.  
 Walter, Andrew T. 2,868,756.  
 Walter, Andrew T. 2,874,023.  
 Walter, Andrew T., and Young. 2,879,257.  
 Webb, Watt W. 2,868,948.  
 Wienert, Fritz O. 2,869,850.  
 Wilson, Joseph E., and Walton. 2,915,492.  
 Wilson, Joseph E., and Walton. 2,915,499.  
 Wilson, Joseph E., and Walton. 2,915,500.  
 Winter, Lester L., and Edstrom. 2,884,391.  
 Wojciak, Thaddeus J., Kane, and Stanchus. 2,876,334.  
 Wojciak, Thaddeus J., and Schaefer. 2,881,305.  
 Yenni, Donald M. 2,907,866.  
 Young, Donald M., Hostettler, and Horn. 2,890,208.  
 Young, Donald M., Hostettler, and McLaughlin. 2,878,236.  
 Young, Frank G. 2,898,378.  
 Yuhasz, Eugene V. 2,914,641.  
 Zebrick, Andrew J. 2,896,698.  
 Zimmerman, Herman M., and Powers. 2,900,434.  
 Union Chimique Belge Societe Anonyme: See—  
 Morren, Henri. 2,899,436.  
 Leclercq, René, and Paquet. 2,867,644.  
 Verheyden, Albert, and Ochsner. 2,02,512.  
 Union Die Casting Co.: See—  
 Bodie, Walter H. 2,897,589.  
 Bodie, Walter H. 2,897,637.  
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 Parker, William M., Jr. 2,867,349.  
 Union Machine Co.: See—  
 O'Neill, Paul J., Jr. 2,898,094.  
 Union Malleable Mfg. Co.: See—  
 Kates, Charles. 2,906,431.  
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 Damijonaitis, Alexandra. 2,890,888.  
 Skillin, Walter F. 2,867,441.  
 Skillin, Walter F. 2,916,290.  
 Skillin, Walter F., and Damijonaitis. 2,867,442.  
 Work, Erich W. 2,890,889.  
 Union Oil Co. of California: See—  
 Bauer, Robert F., McNeill, and Ledbetter. 2,909,359.  
 Bauer, Robert F., and Stratton. 2,891,770.  
 Berg, Clyde H. O. 2,867,580.  
 Berg, Clyde H. O. 2,893,942.  
 Berg, Clyde H. O. 2,893,945.  
 Berg, Clyde H. O. 2,894,041.  
 Berg, Clyde H. O. 2,897,133.  
 Berg, Clyde H. O. 2,905,595.  
 Berg, Clyde H. O., Clark, Hines, and Switzer. 2,907,342.  
 Berg, Clyde H. O., Hines, Hunt, Reeg, and Ballard. 2,881,117.  
 Berg, Clyde H. O., and Oliver. 2,893,947.  
 Bewley, William L., and Dvoracek. 2,871,170.  
 Bewley, William L., Hotz, and Switzer. 2,895,885.  
 Buckmann, John P. 2,887,368.  
 Buckmann, John P. 2,918,433.  
 Chapin, Ralph W. 2,894,823.  
 Deering, Roland F., Duir, and Vaell. 2,913,399.  
 Deering, Roland F., and Wilkinson. 2,895,887.  
 Doumani, Thomas F. 2,871,200.  
 Doumani, Thomas F. 2,871,201.  
 Doumani, Thomas F. 2,897,135.  
 Fischer, Paul W. 2,869,978.  
 Fischer, Paul W., Kenny, and Scheffel. 2,903,407.  
 Fleck, Raymond N., and Wight. 2,881,862.  
 Gertzen, Richard J. 2,874,780.  
 Hansford, Rowland C. 2,885,349.  
 Hansford, Rowland C. 2,911,359.  
 Hansford, Rowland C. 2,917,366.  
 Hansford, Rowland C., and Young. 2,873,246.  
 Hanson, Ross A. 2,911,356.  
 Hanson, Ross A. 2,913,395.  
 Hartley, Fred L., and Inwood. 2,883,337.  
 Hotz, John L., and Switzer. 2,892,758.  
 Keller, James L. 2,914,455.  
 Krueger, Roland F., and Vogel. 2,895,554.  
 Lieffers, William C., Riddick, and Switzer. 2,891,669.  
 Lieffers, William C., Riddick, and Switzer. 2,913,404.  
 Lieffers, William C., Riddick, and Switzer. 2,914,466.  
 Lieffers, William C., and Switzer. 2,875,137.  
 McKinnis, Art C. 2,906,763.  
 McKinnis, Art C., and Skinner. 2,885,447.  
 Nahin, Paul G. 2,867,581.  
 Neff, Loren L. 2,914,478.  
 Oliver, Robert C. 2,883,333.  
 Oliver, Robert C., and Reeg. 2,879,225.  
 Oliver, Robert C., and Reeg. 2,879,226.  
 Poll, Harry F. 2,908,626.  
 Reeg, Cloyd P., and Vaell. 2,882,912.



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Salmon, Royes. 2,915,462.  
 Sanley, William L. 2,917,364.  
 Schaeffer, William D. 2,876,226.  
 Schaeffer, William D. 2,876,227.  
 Schaeffer, William D. 2,903,456.  
 Schaeffer, William D., and Dorsey. 2,905,684.  
 Scott, Carleton B. 2,871,202.  
 Scott, Carleton B. 2,888,496.  
 Scott, Carleton B., and Schaeffer. 2,879,313.  
 Scott, Carleton B., Schaeffer, and Doumani. 2,918,505.  
 Scott, Carleton B., and Wasley. 2,897,228.  
 Smith, Gerould H. 2,889,208.  
 Stegemeier, Richard J. 2,914,947.  
 Switzer, Robert L. 2,874,544.  
 Switzer, Robert L. 2,895,884.  
 Switzer, Robert L. 2,917,029.  
 Vaell, Raoul P. 2,891,908.  
 Vaell, Raoul P. 2,915,336.  
 Vaell, Raoul P., and Duir. 2,891,847.  
 Wasley, William L. 2,887,511.  
 Wasley, William L., and Wilson. 2,883,340.  
 Wood, Frederick C. 2,891,905.  
 Wood, Frederick C. 2,891,906.  
 Zaskey, Arthur F. 2,881,590.

**Union Railroad Co.: See—**

Peat, James. 2,877,722.

**Union Rheinische Braunkohlen Kraftstoff: See—**

Moll, Bernhard, and Kriegbaum. 2,907,390.

**Union Special Machine Co.: See—**

Hale, Arthur N. 2,875,006.  
 Hale, Arthur N. 2,885,982.  
 Hale, Arthur N. 2,887,077.  
 Maxwell, Ira C., Langen, and Plehal. 2,913,155.  
 Mueller, Charles W., and Taylor. 2,889,793.  
 Pajor, Joseph P. 2,894,471.  
 Reimer, George M. 2,884,883.  
 Reimer, George M. 2,901,991.  
 Smith, Clarence C. 2,914,009.

**Union Special Maschinenfabrik, G.m.b.H.: See—**

Lutz, Friedrich, and Daniel. 2,901,992.

**Union Starch & Refining Co.: See—**

Bauwin, George R., and Grossi. 2,893,166.  
 Cleland, James E., and Meyer. 2,873,193.  
 Meyer, Alvin L., and Cleland. 2,902,393.

**Union Steel Products Co.: See—**

Averill, Charles C. 2,892,603.  
 Averill, Charles C. 2,909,348.  
 Romero, Victor R. 2,916,240.  
 Swanson, John H. 2,896,549.

**Union Stock Yard and Transit Co. of Chicago, The: See—**

Brown, Edwin H., and Morrison. 2,890,123.  
 Hagen, Harold F., and W. F. 2,904,316.  
 Morrison, Willard L. 2,876,082.  
 Morrison, Willard L. 2,878,112.  
 Morrison, Willard L. 2,889,689.  
 Morrison, Willard L. 2,892,563.  
 Morrison, Willard L. 2,892,564.  
 Morrison, Willard L. 2,894,373.  
 Morrison, Willard L. 2,901,891.  
 Morrison, Willard L. 2,904,610.  
 Morrison, Willard L. 2,909,433.  
 Thurman, Benjamin H. 2,879,143.

**Union Tank Car Co.: See—**

Folmsbee, Clyde H. 2,873,043.  
 Folmsbee, Clyde H. 2,878,829.  
 Folmsbee, Clyde H. 2,907,284.  
 Purswell, Guy, Kinghorn, and Smith. 2,888,298.  
 Scheid, John L. 2,873,857.  
 Springer, Charles W. 2,888,161.  
 Ulm, Reign C. 2,897,998.

**Unipress Co., Inc. The: See—**

Dugger, Ralph L. 2,899,761.  
 Langen, Ole H. 2,867,923.  
 Langen, Ole H. 2,907,126.  
 Langen, Ole H., and Hoise. 2,875,929.  
 Taylor, Thomas D. 2,911,930.

**Unique Balance Co.: See—**

Durland, Gerret T. K. 2,917,606.

Unis, Max J. Metal table construction. 2,873,035, 2-10-59,  
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**Uni-Seco (Overseas) Ltd.: See—**

Balmain, William A. 2,867,007.

**Unit Rig & Equipment Co.: See—**

Lackey, Marion D. 2,910,889.

**Unit Superheater and Pipe Co. Ltd., The: See—**

Smith, Sidney L. 2,891,521.

**Unitcast Corp.: See—**

Hankins, Cyrus. 2,891,487.

**United Aircraft Corp.: See—**

Andreini, Geno J. 2,916,336.  
 Andrews, Kenneth D. 2,878,894.  
 Arnoldi, Robert A. 2,908,136.  
 Atticks, John K. 2,895,173.  
 Barry, Frank W. 2,911,787.  
 Beggs, John C. 2,884,845.  
 Best, Stanley G. 2,868,882.  
 Best, Stanley G. 2,870,698.  
 Best, Stanley G. 2,878,427.  
 Best, Stanley G. 2,910,125.  
 Blackman, Arthur W., Jr., and Diamond. 2,912,825.  
 Blackman, Arthur W., Jr., and Lewis. 2,911,791.

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Brackmann, William J., Schlesinger, and Harris. 2,910,233.  
 Brahm, Charles B. 2,877,854.  
 Brahm, Charles B. 2,911,790.  
 Brown, William H. 2,872,156.  
 Buck, Richard S. 2,867,977.  
 Bullard, Edward P., III. 2,916,950.  
 Diefenderfer, William E. 2,915,277.  
 Elovitz, David M., and Fulton. 2,903,970.  
 Esmeier, Edward F., and Brown. 2,874,540.  
 Evans, Frederick P., and White. 2,912,010.  
 Fanti, Roy A. 2,873,933.  
 Fanti, Roy A. 2,918,978.  
 Farkas, Thomas P. 2,877,855.  
 Farkas, Thomas P. 2,909,895.  
 Farkas, Thomas P. 2,913,056.  
 Fortmann, William E. 2,918,792.  
 Gluhareff, Michael E. 2,872,137.  
 Goodman, Robert B., and Roberts. 2,884,846.  
 Gunberg, Harry W. 2,874,803.  
 Hanny, William F. 2,898,000.  
 Harris, Aaron M. 2,885,614.  
 Hausmann, George F. 2,882,992.  
 Hoadley, Henry H. 2,908,455.  
 Hoffman, Leslie J. 2,911,606.  
 Holmes, Trent H. 2,893,757.  
 Horn, Henry M. 2,868,304.  
 Hurd, Richard C. 2,918,794.  
 Jedrzejewski, Chester M. 2,868,303.  
 Jedrzejewski, Chester M. 2,910,126.  
 Kearns, Charles M., Jr., and Habicht. 2,868,494.  
 Kenyon, Theodore W., and Webster. 2,870,745.  
 King, Charles H., Jr. 2,914,910.  
 King, Charles H., Jr., and Lewis. 2,908,135.  
 Knight, Geoffrey, Jr., Humez, and Johnson. 2,911,594.  
 Krueger, Rudolph E. 2,905,071.  
 Laskin, Carl. 2,896,101.  
 Levine, Bernard, Harris, and Brod. 2,872,723.  
 Levine, Bernard, and MacLaren. 2,911,632.  
 Lewis, George D., and Blackman. 2,911,788.  
 Longfellow, Melvin E. 2,917,061.  
 McGuff, Thomas J. 2,867,989.  
 Meyer, Robert E. 2,910,829.  
 Meyer, Robert E., and Noren. 2,910,828.  
 Newton, Norman B. 2,882,863.  
 Pearl, David R. 2,911,991.  
 Pearl, David R. 2,917,067.  
 Pinsley, Edward A. 2,870,958.  
 Porter, Robert D. 2,909,896.  
 Prell, Francis R., and Sims. 2,878,426.  
 Rockwell, Albert M. 2,877,817.  
 Schaefer, Carl F. 2,910,870.  
 Shinn, Byron H. 2,885,768.  
 Shoup, Edgar C., Jr., and Dixon. 2,869,941.  
 Sims, James S., Jr., and Farkas. 2,917,288.  
 Small, Leslie C., Jr. 2,911,267.  
 Speller, Jack B. 2,873,440.  
 Speller, Jack B. 2,885,549.  
 Sziklas, Edward A., and Banas. 2,914,915.  
 Talmadge, Howard A. 2,867,883.  
 Taylor, Harlan D. 2,912,157.  
 Tolomeo, Albert J., Di Battista, and Smith. 2,880,810.  
 Wachs, Miller A. 2,872,227.  
 Wachs, Miller A. 2,911,851.  
 Webster, Stokely, and Barkalow. 2,918,642.  
 Welch, Richard D. 2,916,256.  
 Wetherbee, Arthur E., Jr. 2,911,912.  
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**United Aircraft Products, Inc.: See—**

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 Booth, Harry T., and Lord. 2,894,526.  
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 Klank, Walter C., Jr. 2,907,419.  
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**United Biscuit Co. of America: See—**

Ragan, Robert O., and Trant. 2,915,413.  
 Richardson, Ralph R., and Castner. 2,879,700.  
 Ritter, Walter T., Ragan, and Trant. 2,916,376.

**United Can & Glass Co.: See—**

Jeremiah, Earl. 2,874,856.  
 Nogle, Charles C. 2,889,073.

**United-Carr Fastener Corp.: See—**

Ashworth, Winthrop F. 2,898,656.  
 Becker, Philip D. 2,871,591.  
 Becker, Philip D. 2,898,654.  
 Becker, Philip D. 2,912,734.  
 Becker, Philip D. 2,913,952.  
 Bedford, William A., Jr. 2,898,653.  
 Cochran, Clarence W. 2,881,493.  
 Cochran, Clarence W. 2,889,601.  
 Cochran, Clarence W. 2,900,687.  
 Fitzgerald, Robert E. 2,912,669.  
 Flanagan, William H., Jr. 2,877,437.  
 Flanagan, William H., Jr. 2,891,229.  
 Fraser, Robert W. 2,899,511.  
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 Heath, Clarence W. 2,890,435.  
 Heath, Clarence W. 2,897,474.  
 Hughes, Norman J. 2,908,920.  
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 Johanson, Bengt J. 2,899,669.



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Jones, Walter I. 2,895,199.  
 McKee, William H. 2,894,241.  
 McKee, William H. 2,911,458.  
 Murphy, Howard J. 2,876,514.  
 Murphy, Howard J. 2,902,533.  
 Murphy, Howard J. 2,908,742.  
 Peters, Arthur C. 2,906,334.  
 Shears, Stuart T. 2,876,518.  
 Thornton, Richard D. 2,883,108.  
 Twoood, Robert R. 2,879,572.  
 Van Buren, Harold S., Jr. 2,901,938.  
 Van Buren, Harold S., Jr. 2,903,815.  
 Van Buren, Harold S., Jr. 2,909,352.  
 Van Buren, Harold S., Jr. 2,913,951.  
 Wingard, William E., and Gosselin. 2,894,711.  
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**United Collee Corp. : See—**

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 King, Alan M. 2,890,643.

**United Concrete Pipe Corp. : See—**

James, Kenneth E. 2,871,541.  
 James, Kenneth E. 2,882,073.

**United Conveyor Corp. : See—**

Tolman, Edgar B. 2,911,671.  
 Williams, Orville A. 2,873,143.  
 Williams, Orville A. 2,877,056.

**United Electric Coal Companies, The : See—**

Huey, John J. 2,901,898.  
 Kolbe, Frank F. 2,909,855.  
 Stamos, Chris. Re. 2,461,11.

**United Engine & Machine Co. : See—**

Coffey, Charles R. 2,880,044.

**United Engineering and Foundry Co. : See—**

O'Brien, Jeremiah W. 2,878,869.  
 O'Brien, Jeremiah W. 2,911,804.  
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 Sieger, Maurice P. 2,878,582.  
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 Talbot, Howard H. 2,917,305.

**United Engineers & Constructors Inc. : See—**

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**United Gas Corp. : See—**

Elston, William A., McElwee, Moore, and Tomerlin. 2,896,332.

**United Gas Improvement Co., The : See—**

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**United Geophysical Corp. : See—**

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**United Gilsonite Laboratories : See—**

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**United-Greenfield Corp. : See—**

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**United Hydraulics, Inc. : See—**

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**United Kingdom Atomic Energy Authority : See—**

Huddle, Roy A. U., Pearson, and de Lippa. 2,901,346.

**United Kingdom Atomic Energy Authority of Patents Branch, The : See—**

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**United Mfg. Co. : See—**

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**United Mattress Machinery Co. : See—**

Kalning, Frederick E., and Kibitz. 2,918,884.

**United Merchants and Manufacturers, Inc. : See—**

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**United Music Corp. : See—**

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**United Products Co. : See—**

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**United Products Corp. : See—**

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 Hannable, Daniel W. 2,891,688.  
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 Kant, Edwin S. 2,908,921.  
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**U.S. Acoustics Corp. : See—**

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**U.S. Automatic Box Machinery Co., Inc. : See—**

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**United States Bedding Co., The : See—**

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**United States Borax & Chemical Corp. : See—**

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 Hunter, Don L., and Fajans. 2,878,256.  
 Kroll, Wilhelm J., Nies, and Fajans. 2,893,842.  
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 Nies, Nelson P. 2,909,471.  
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- United States Ceramic Tile Co.: *See*—  
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- United States Drill Head Co.: *See*—  
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- U.S. Electrical Motors, Inc.: *See*—  
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- United States Gasket Co.: *See*—  
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- United States Gypsum Co.: *See*—  
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- United States Mineral Wool Co.: *See*—  
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 Novajovsky, William A. 2,902,666.  
 Novy, Louis E. 2,900,355.  
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 Seeler, Henry W. 2,882,896.  
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 Shilliday, Theodore S., Peet, and Middleton. 2,887,633.  
 Simmons, Arthur B. 2,893,717.  
 Simpson, Clarence. 2,906,917.  
 Silverberg, Thomas R. 2,910,227.  
 Sirons, Janis A. 2,901,748.  
 Slack, Frederick F. 2,903,690.  
 Smith, Blanchard D., Jr. 2,872,109.  
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 Sorel, Nathan, and Wiener. 2,900,519.  
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 Streeter, Kenneth C. 2,916,716.  
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 Thompson, Ransom S. 2,906,496.  
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 Hafner, Erich. 2,891,177.  
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 Orlando, Carl. 2,892,954.  
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 Pinkerton, Harry E., Jr. 2,873,650.  
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 Rabinow, Jacob. 2,889,777.  
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 Roberts, Melvin F. 2,902,963.  
 Roffman, Eugene, Cinaglia, Wysoczanski, and Brand. 2,885,075.  
 Rogers, Morris R., Kaplan, and Pillion. 2,887,262.  
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 Strip, Joseph. 2,881,251.  
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 Chynoweth, William. 2,890,954.  
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 Creutz, Edward C. 2,910,177.  
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 Davidson, Norman R., and Fried. 2,910,344.  
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 Dawson, Lyle R. 2,905,525.  
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 Dole, Malcolm. 2,905,527.  
 Dorfman, Leon M., and Shipko. 2,903,383.  
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 Donohue, John C., and De Fiore. 2,906,975.  
 Dorn, Clifford G. 2,895,060.  
 Dragonuk, Leo. 2,897,888.  
 Durkin, William J. 2,896,906.  
 Eaves, Augustus J. 2,872,276.  
 Echolds, E. Frank. 2,916,919.  
 Ellerman, Harry E., and Kittleman. 2,889,531.  
 Emslie, Alfred G. 2,883,657.  
 Estey, Roger S. 2,869,287.  
 Everett, Franklin L. 2,901,525.  
 Everett, Franklin L. 2,918,514.  
 Everett, Franklin L. 2,918,516.  
 Everett, Franklin L. 2,918,517.  
 Farmer, William C. 2,897,364.  
 Farr, Harold K., and Ehlers. 2,877,434.  
 Fiedler, Willy A. 2,903,851.  
 Field, James H. 2,890,641.  
 Fisher, Seth G. 2,910,867.  
 Fisher, Seth G. 2,910,868.  
 Flagg, John E., and Ruseckas. 2,876,453.  
 Ford, Gerald M., and Tague. 2,889,512.  
 Foster, Douglas V. 2,894,719.  
 Foster, John V. 2,898,889.  
 Fowler, Richard G. 2,900,550.  
 Fox, Robert B., and Venezky. 2,877,251.  
 Frazier, Robert H. 2,919,187.  
 Freche, John C. 2,896,907.  
 Fromm, Winfield E. 2,902,641.  
 Gammack, James. 2,916,003.  
 Gey, William A. 2,872,870.  
 Glenn, Arthur J. 2,903,603.  
 Gilbert, Bernard L., Kalinsky, and Lauro. 2,915,639.  
 Gimpel, Donald J., and Davidson. 2,918,574.  
 Giori, Francis A. 2,892,106.  
 Girouard, Philias H., Schuyler, and Baller. 2,870,678.  
 Gleason, Joseph P. 2,891,198.  
 Glenn, Robert G. 2,870,602.  
 Goff, John C., Goldberg, and Sondheimer. 2,868,126.  
 Goldman, Leman, Jr. 2,901,680.  
 Goldstine, Hallan E. 2,872,646.  
 Goss, Wilbur H. 2,881,588.



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 Grantham, Rodney E., and Dorsett. 2,903,653.  
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 Gregory, Charles A. 2,881,425.  
 Griffith, Ben H., Jr. 2,875,417.  
 Haas, John W., and England. 2,887,627.  
 Hafstad, Lawrence R., and Roberts. 2,898,857.  
 Hall, Orville C. 2,907,879.  
 Halpern, Otto. 2,918,671.  
 Hanna, Clinton R., and Osbon. 2,887,976.  
 Hansen, Wilbur W. 2,906,883.  
 Hardgrove, Basil E., and Haisfield. 2,910,666.  
 Hare, Donald G. C. 2,902,673.  
 Hare, Donald G. C., and Skifter. 2,875,328.  
 Harlan, Kenneth G. 2,900,289.  
 Hartle, Robert B. 2,913,074.  
 Harwood, Robert H., Reynolds, and Hedger. 2,881,535.  
 Hasler, Arthur D., and Wisby. 2,880,133.  
 Heaps, Stanley N. 2,876,858.  
 Heazel, Vincent M., Jr., and Kumm. 2,902,630.  
 Heckman, Earl H. 2,916,872.  
 Henderson, Joseph E. 2,892,093.  
 Hennessey, Frank L. 2,881,431.  
 Henry, Robert L., Jr. 2,892,129.  
 Hermann, Robert A. 2,892,667.  
 Hinman, Wilbur S., Jr. 2,897,759.  
 Hiserman, Russell L., Jr. 2,912,915.  
 Hoffman, Joseph G. 2,916,631.  
 Holmes, Julian C. 2,891,154.  
 Hooper, Edward T., Jr. 2,907,946.  
 Hooper, Edward T., Jr., and Suozzi. 2,868,877.  
 Hopkins, John J., and Kuck. 2,911,639.  
 Hovgard, Paul E. 2,888,991.  
 Howard, Earle A. 2,889,772.  
 Huch, William F. 2,904,285.  
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 Huddleston, Frank J., and Mooney. 2,873,364.  
 Hudson, Edwin M., and Vaccaro. 2,907,869.  
 Huntoon, Robert D. 2,872,867.  
 Hurst, William M. 2,872,274.  
 Inniss, Clarence F. 2,868,969.  
 Intintolo, John J. 2,892,306.  
 Ireland, Fred H. 2,883,652.  
 Jackson, Martin A. 2,887,195.  
 Jacobsen, Andrew B. 2,874,378.  
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 Jamieson, Hugh W. 2,903,695.  
 Jarrett, John W., and Rice. 2,917,942.  
 Jenny, Hans K. 2,910,620.  
 Jensen, Garold K., and McGeogh. 2,868,973.  
 Jensen, Garold K., and McGeogh. 2,868,979.  
 Jensen, Garold K., and McGeogh. 2,908,868.  
 Jewett, Frank B., Jr. 2,906,125.  
 Johnson, Thomas H., Kane, and Tabor. 2,868,129.  
 Jones, Charles H., and Thompson. 2,870,396.  
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 Jopson, Howard B. 2,894,236.  
 Jordan, James D. 2,899,514.  
 Jordan, James D. 2,900,909.  
 Kabik, Irving, and Ayres. 2,869,364.  
 Katzen, Jacob, and Gold. 2,888,869.  
 Keck, William J. 2,871,658.  
 Keener, Dale M. 2,907,201.  
 Kempton, Marvin L., and Workman. 2,900,907.  
 Kettler, Alfred H. 2,896,026.  
 Kilvert, Charles A. 2,880,687.  
 King, Robert B. 2,883,933.  
 Kirkpatrick, Thomas P. 2,892,507.  
 Klein, Gerald I. 2,895,107.  
 Knighton, Daniel J., Haser, and Fiedler. 2,874,921.  
 Kobylinski, Alfred W. 2,879,089.  
 Kotanchik, Joseph N., and Dow. 2,885,888.  
 Koup, Alfred L. 2,869,662.  
 Kraeger, Gordon W. 2,907,025.  
 Krantz, Frank M., and Huelskamp. 2,867,128.  
 Krasno, Maxwell R. 2,894,231.  
 Krieger, Charles J. 2,907,008.  
 Kroekel, Rolf H. W., and Lubach. 2,883,213.  
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 Laiming, Harry J. 2,899,830.  
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 Larson, Rodger G. 2,892,983.  
 Laurent, George J. 2,908,812.  
 Lauritsen, Charles C. 2,873,681.  
 Lauroesch, Thomas J. 2,873,381.  
 Lawson, Herbert E. 2,918,515.  
 Layton, Kenneth A. 2,888,673.  
 Le Francois, John E. 2,890,670.  
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 Ley, Gordon S. 2,903,693.  
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 Liccini, Luke L., and Cornett. 2,885,890.  
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 MacDougall, Duncan P. 2,900,905.  
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 Magaraci, Anthony F. 2,917,690.  
 Malick, Franklin S. 2,879,463.  
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 Markowitz, Oscar. 2,898,547.  
 Marsden, Charles P., Jr. 2,894,795.  
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 Mason, Samuel J. 2,884,629.  
 Mathias, Robert A., and Finzi. 2,898,043.  
 Mattingly, Robert D., and Butler. 2,912,929.  
 Maxwell, William A., Gurnick, and Francisco. 2,893,102.  
 Mayo, Alfred M., Walpole, and Nolan. 2,868,959.  
 Mayon, Leon. 2,881,867.  
 McCarty, Daniel J., and Lutz. 2,906,494.  
 McGillem, Clare D. 2,907,024.  
 McKiernan, James D. 2,902,822.  
 McLaughlin, Donald J., and Gorozdos. 2,900,446.  
 McLaughlin, John F. 2,919,440.  
 McLean, William B. 2,872,538.  
 McNatt, Eugene M. 2,898,552.  
 McVey, Eugene S. 2,892,952.  
 McVey, Eugene S. 2,892,953.  
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 Meier, Vincent I. 2,869,208.  
 Meyer, Robert E., Bristol, and Gray. 2,913,875.  
 Mikesell, Richard M. 2,906,978.  
 Miller, Edward E. 2,879,502.  
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 Miller, William. 2,868,988.  
 Mitchell, Claybourne, and Blythe. 2,882,787.  
 Montgomery, Rayner A. 2,906,119.  
 Moore, Jimmy J., and Da Kold. 2,877,360.  
 Morgan, Millett G. 2,886,812.  
 Morrison, Rodney, and Roberts. 2,906,206.  
 Mott-Smith, Lewis M. 2,897,760.  
 Moy, Hammond R., Shockey, and Porter. 2,896,885.  
 Mullins, Elwood H., and Bowen. 2,892,412.  
 Mundy, Alfred F. 2,911,617.  
 Murfin, Paul E. 2,890,295.  
 Musselman, Glenn H. 2,882,526.  
 Nagel, Raymond H., and Rogers. 2,871,662.  
 Naulty, Howard W., and Brown. 2,889,955.  
 Nelson, Max C. 2,892,075.  
 Nessler, Thomas G. 2,883,910.  
 Nessler, Thomas G. 2,912,902.  
 Ney, Edward P., Thorness, and Winckler. 2,872,808.  
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 Okress, Ernest C. 2,892,986.  
 Olsen, Charles R. 2,900,906.  
 O'Meara, Thomas R., and Webb. 2,907,029.  
 O'Rear, Jacques G., and Faurote. 2,894,971.  
 O'Rourke, Neil. 2,892,582.  
 Page, Franklin, Jr. 2,906,582.  
 Parker, Sydney R. 2,874,234.  
 Parsons, George B. 2,919,046.  
 Pearlman, William. 2,881,426.  
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 Pennow, Willis A. 2,900,552.  
 Peters, Roger W., and Dow. 2,903,307.  
 Peucker, Max P. 2,882,731.  
 Pickard, Robert H. 2,881,333.  
 Pitman, Duncan, Rutland, and Giel. 2,907,012.  
 Podolak, Edward, and Strasberg. 2,918,651.  
 Potter, David S. 2,867,780.  
 Prichard, John S. 2,918,637.  
 Probus, James H. 2,886,774.  
 Probus, James H. 2,895,061.  
 Prosen, Stanley P., and McLelland. 2,910,251.  
 Przysiecki, Theodore I. 2,901,069.  
 Rabinow, Jacob. 2,912,933.  
 Rabinow, Jacob, and Andrews. 2,915,604.  
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 Ramsey, Thomas D. 2,868,128.  
 Rasmussen, Volney K. 2,872,869.  
 Rather, Roy L. 2,891,501.  
 Rayburn, Charles C., and Henry. 2,887,622.  
 Razak, Charles K. 2,910,254.  
 Reed, Herbert B., Jr. 2,904,739.  
 Reed, Herbert B., Jr., and Estes. 2,896,095.  
 Reed, John C., Jr. 2,891,246.  
 Reiner, Stewart. 2,899,673.  
 Reiner, Stewart, Hughes, and Scheiner. 2,877,308.  
 Rich, Harry L., and Habib. 2,881,043.  
 Richards, James R. 2,874,470.  
 Richter, George A., and Lamb. 2,893,754.  
 Ritter, Darrell L., Blocker, and Wilcox. 2,886,265.  
 Roberts, Aaron G., Crouse, and Pizer. 2,907,200.  
 Robertson, Jack B., and Volpone. 2,899,483.  
 Rockwell, Henry. 2,886,398.  
 Rodman, Isaac P. 2,913,585.  
 Rossi, Bruno, and Greisen. 2,903,691.  
 Ruehlemann, Herbert E., and Menzel. 2,910,001.  
 Saboe, Michael S. 2,867,085.  
 Saholt, Orville J. 2,875,292.  
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 Sayre, David. 2,883,655.  
 Scal, Robert K-F. 2,879,455.  
 Scal, Robert K-F. 2,890,863.  
 Scal, Robert K-F. and Lindseth. 2,889,493.  
 Schaer, Glenn R., and Beach. 2,886,499.  
 Schlachman, Benjamin. 2,901,945.  
 Schlachter, Karl E., and Herrmann. 2,869,671.  
 Schloss, Fred. 2,890,846.  
 Schuck, Oscar H. 2,872,272.  
 Schuessler, Karl E. 2,872,848.  
 Schulman, James H. 2,874,133.  
 Schultz, Theodore J. 2,868,894.  
 Schum, Eugene F., and Wimmer. 2,906,495.  
 Seibetta, Paul C., and Higdon. 2,898,710.  
 Scorgie, Donald G. 2,885,631.  
 Setterblade, Earl O. 2,899,799.  
 Sewell, Ben W. 2,900,467.  
 Shapiro, Gustave. 2,879,491.  
 Shaw, Robert M. 2,882,718.  
 Siedband, Melvin P. 2,895,084.  
 Siedband, Melvin P. 2,895,085.  
 Siedband, Melvin P. 2,910,652.  
 Single, Herbert C. 2,892,082.  
 Skaar, Karsten S. 2,872,865.  
 Sloan, David H., and Goss. 2,892,410.  
 Small, William W. 2,900,910.  
 Smith, Frederick H. 2,906,227.  
 Smith, John E. 2,890,718.  
 Smith, Kenneth G., and Washington. 2,867,682.  
 Smith, Thomas A. 2,891,230.  
 Snow, Oscar J. 2,885,666.  
 Sparks, Earl C., Jr. 2,883,625.  
 Spratt, George G. 2,886,368.  
 Sprengeler, Donald F., and Matonak. 2,882,445.  
 Statham, Louis D. 2,900,911.  
 Stedman, Cecil K., and Smith. 2,886,794.  
 Stevens, George H., and Wilsker. 2,890,401.  
 Stirton, Robert J., and Leitmann. 2,907,028.  
 Stocker, Arthur C. 2,881,342.  
 Stoddard, Orren J. 2,901,607.  
 Stuart, Alfred A., and Benfield. 2,883,653.  
 Sullivan, James R. 2,910,034.  
 Sussman, Harry. 2,884,084.  
 Tafel, Robert W., and Smith. 2,914,268.  
 Taubenslag, Morris J., and May. 2,898,460.  
 Tepper, Charles W. 2,917,678.  
 Tholstrup, Henry L. 2,876,943.  
 Thorness, Rudolph B. 2,907,843.  
 Tollefson, Robert D., and Wilkerson. 2,892,943.  
 Tuck, Edward. 2,903,504.  
 Turner, William R. 2,903,617.  
 Upshaw, Vert, and Moriarty. 2,916,651.  
 Vander Arend, Peter C., and Mann. 2,882,694.  
 Vintschger, Francis. 2,903,717.  
 Vogler, Raymond D. 2,896,880.  
 Wagoner, Robert G. 2,877,350.  
 Waldorff, Charles A., and Ainslie. 2,882,862.  
 Weaver, Preston R. 2,867,382.  
 Weaver, Preston R. 2,897,306.  
 Weir, James D. 2,916,688.  
 Weller, Royal. 2,870,714.  
 Wheeler, Gershon J., and Williams. 2,877,425.  
 Whitmore, Quentin R. 2,912,820.  
 Whittaker, Clyde A., and Donegan. 2,890,411.  
 Wilcox, Dwight D., Jr. 2,892,084.  
 Wilcoxon, Kenneth H. 2,906,992.  
 Wilkerson, Jefferson R., Tollefson, and Fubini. 2,888,670.  
 Williams, Harry, and Gey. 2,900,242.  
 Williams, Philip S. 2,898,394.  
 Williams, William H., and Baldwin. 2,919,423.  
 Williamson, Donald E. 2,874,605.  
 Woestman, John W., and Felts. 2,892,941.  
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 Bill, John C. 2,877,259.  
 Boggs, Fitzhugh W. 2,897,173.  
 Boggs, Fitzhugh W. 2,908,657.  
 Brodeur, Edouard A. 2,873,450.  
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 Brooks, Marvin C. 2,891,885.  
 Brown, Robert W. 2,897,168.  
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Burnett, Peter P. A. 2,874,416.  
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 Combs, Wilbur E. 2,916,136.  
 Cunningham, Marion M. 2,893,746.  
 Curtiss, Nathaniel H. 2,873,844.  
 Doak, Kenneth W. 2,891,924.  
 Doak, Kenneth W. 2,891,925.  
 Doak, Kenneth W. 2,891,926.  
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 Doherty, James J., and McClure. 2,877,151.  
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 Dowling, Robert J. 2,905,587.  
 Drew, Howard E., Warden, and Brodeur. 2,867,849.  
 Elliott, Daniel R., Culp, and Hulswit. 2,901,242.  
 Elliott, Daniel R., Ferguson, and Reid. 2,914,940.  
 Engstrom, Carl F. 2,904,095.  
 Haxo, Henry E., Jr., and Mills. 2,890,183.  
 Herman, Reynold C. 2,906,638.  
 Homeier, Otto F. 2,871,513.  
 Hulswit, William H., Jr., Berry, and Reid. 2,884,044.  
 Hurdie, Everett C., and Petras. 2,891,092.  
 Hurdie, Everett C., and Petras. 2,891,093.  
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 Hurdie, Everett C., Petras, and Romeyn. 2,891,985.  
 Jurgeleit, Herbert F. 2,869,177.  
 Jurgeleit, Herbert F. 2,883,704.  
 Kiernan, Conleth E., and Clark. 2,872,366.  
 Leach, Robert R., and Phillips. 2,891,327.  
 Linhorst, Erwin E. 2,873,475.  
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 MacDonald, Donald A. 2,907,365.  
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 Mahady, John J. 2,917,102.  
 Mankowich, Ivan, Steinkle, and Chiavetta. 2,871,205.  
 Mankowich, Ivan, Steinkle, and Chiavetta. 2,871,206.  
 Marshall, James W., and Walter. 2,914,844.  
 Miller, Roy W., and Grant. 2,896,281.  
 Mills, George S., and Haxo. 2,906,718.  
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 Mulbarger, Francis A. 2,889,870.  
 Nichols, Parks M. 2,874,746.  
 Olson, Mark W., Fournier, and Dobbs. 2,873,227.  
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 Rhodes, Thomas J. 2,892,212.  
 Rhodes, Thomas J. 2,897,540.  
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 Sauer, Herman C. 2,867,845.  
 Sauer, Herman C. 2,883,701.  
 Schneider, Harry D. 2,908,040.  
 Shine, Henry J., and Snyder. 2,881,185.  
 Smith, Allen E., and Feldman. 2,893,855.  
 Smith, Cornelius W., Seger, and Rorem. 2,896,687.  
 Smith, Frank B. 2,907,752.  
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 Beck, Eugene P., Jefferies, and Whitney. 2,887,283.  
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 Pollitzer, Ernest L. 2,906,707.  
 Post, Howard E. 2,894,897.  
 Ranstead, Norman H. 2,872,163.  
 Rosenwald, Robert H. 2,908,718.  
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- Unthank, Douglas G.,  $\frac{1}{2}$  to H. A. J. Silley. Apparatus for separating oil and water. 2,874,850, 2-24-59, Cl. 210-519.
- Unthank, Douglas G., and L. Bristow,  $\frac{1}{2}$  to Henry Arthur John Silley. Apparatus for separating liquids of different specific gravities. 2,917,178, 12-15-59, Cl. 210-305.
- Upchurch, Edward F., and E. C. Luckenbach, to Esso Research and Engineering Co. Gas distributing arrangement for fluidized solids vessels. 2,876,079, 3-3-59, Cl. 23-284.
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Babcock, John C. 2,868,808.  
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Beal, Philip F., and Hogg. 2,899,448.  
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Churchill, Bruce W. 2,885,326.  
Correll, John T. 2,900,302.  
Cronin, John P., and Hennig. 2,897,120.  
Dale, Jack K. 2,883,327.  
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Donia, Robert A., and Ott. 2,868,809.  
Eppstein, Samuel H. 2,880,135.  
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Fonken, Gunther S., Hogg, and Magerlein. 2,880,204.  
Fonken, Gunther S., Hogg, and Magerlein. 2,880,215.  
Fonken, Gunther S., Levin, and McIntosh. 2,877,241.  
Fonken, Gunther S., and Murray. 2,913,457.  
Ford, Jared H. 2,885,395.  
Ford, Jared H. 2,903,457.  
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Hanze, Arthur R. 2,868,783.  
Hanze, Arthur R. 2,889,343.  
Hanze, Arthur R. 2,890,226.  
Herr, Milton E. 2,881,191.  
Hogg, John A., and Jackson. 2,872,488.  
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Holysz, Roman P. 2,886,564.  
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Johnson, Richard H. 2,880,130.  
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Klomparsens, William, and Vellaire. 2,871,155.  
Knight, Norman H. 2,901,328.  
Kolloff, Harold G., and Seay. 2,875,246.  
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Meister, Peter D., and Weintraub. 2,877,162.  
Meyer, Curtis E. 2,870,019.  
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Moffett, Robert B., and Anderson. 2,880,214.  
Murray, Herbert C., and Peterson. 2,888,384.  
Murray, Herbert C., and Meister. 2,889,255.  
Murray, Herbert C., and Sebek. 2,902,411.  
Murray, Maxton F. 2,870,138.  
Murray, Maxton F. 2,874,181.  
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- Upjohn Co., The: *See*—Continued  
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Musser, Samuel J., and Underwood. 2,893,912.  
Nathan, Alan H., and Hogg. 2,884,429.  
Nelson, Harrison A. 2,874,173.  
Nelson, Harrison A., Large, Bergy, and Hoeksema. 2,894,943.  
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Pederson, Raymond L., Herr, Babcock, Campbell, and Hogg. 2,867,630.  
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Schneider, William P. 2,875,217.  
Sebek, Oldrich K., and Michaels. 2,877,161.  
Sebek, Oldrich K., and Spero. 2,897,218.  
Shepherd, Douglas A. 2,868,785.  
Speeter, Merrill E., and Anthony. 2,870,162.  
Speeter, Merrill E., and Birkenmeyer. 2,901,507.  
Spero, George B. 2,881,168.  
Spero, George B. 2,897,217.  
Spero, George B., Magerlein, Schneider, and Hogg. 2,884,420.  
Swank, George, Jr. 2,887,433.  
Szmuszko, Jacob. 2,877,234.  
Szmuszko, Jacob, and Heinzelman. 2,883,386.  
Tiffany, Burris D. 2,879,290.  
Underwood, Gerald E., and Musser. 2,889,243.  
Wagner, John G. 2,897,121.  
Wechter, William J., and Fonken. 2,897,198.  
Weintraub, Adolph, Eppstein, and Meister. 2,902,410.  
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Wright, John B. 2,881,174.  
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- Upton, Chester W., Jr., to Westinghouse Electric Corp. Electric switch. 2,905,794, 9-22-59, Cl. 200-146.
- Upton, Everett N., to Container Corp. of America. Inspection cover and bulge top paper box. 2,881,969, 4-14-59, Cl. 229-43.
- Upton, George F., to D. Napier & Son Ltd. Turbine or compressor rotors. 2,883,885, 4-28-59, Cl. 74-801.
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- Upton, Lee O., to American Optical Co. Method of annealing glass. 2,871,624, 2-3-59, Cl. 49-89.
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- Upton, Ralph M., and C. D. Van Patten. Marine propulsion unit. 2,895,446, 7-21-59, Cl. 115-34.
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- Urbain, Leon F., and M. P. Glowacki; said Glowacki assor. to said Urbain. Construction shim. 2,895,704, 7-21-59, Cl. 248-354.
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- Urbas, Ernest J., to The Guarantee Specialty Mfg. Co. Valve handle. 2,887,899, 5-26-59, Cl. 74—545.
- Urbon, Peter J., to American Bosch Arma Corp. Filter and method of making same. 2,873,858, 2-17-59, Cl. 210—443.
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- Urich, Frederick C. Double-ended clothes pin. 2,886,871, 5-19-59, Cl. 24—137.
- Urige, Elmer R.: *See—*  
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- Urist, Marshall R. Hip socket means. 2,910,978, 11-3-59, Cl. 128—92.
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- Urquhart, William MacD., to Detroit Stoker Co. Fuel feeder. 2,873,846, 2-17-59, Cl. 198—226.
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- Usher, Theron, Jr., to Textron Inc. Peak-notch equalizer. 2,917,626, 12-15-59, Cl. 250—27.
- Uskavitch, Clarence W., to United States of America, Air Force. Computer control circuitry. 2,907,027, 9-29-59, Cl. 343—17.1.
- Ustica, Joseph J., to Armstrong Cork Co. Cooled radio frequency coupling unit. 2,871,331, 1-27-59, Cl. 219—10.49.
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- Utah Scientific Research Foundation: *See—*  
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- Utakis, Anthony F.: *See—*  
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- Utermohlen, William P., Jr., to Velsicol Chemical Corp. New compositions of matter. 2,914,440, 11-24-59, Cl. 167—30.
- Utica Drop Forge & Tool Corp.: *See—*  
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- Utiger, Ralph. Mailbox supports. 2,886,272, 5-12-59, Cl. 248—128.
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- Utina-Electrowerk G.m.b.H.: *See—*  
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- Utschig, Walter C.: *See—*  
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- Utsler, Anna E.: *See—*  
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- Utter, Raymond E. Hydraulic power actuator. 2,869,664, 1-20-59, Cl. 180—79.2.
- Utterback, Harold V.: *See—*  
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- Utz, Albert: *See—*  
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- Utz, Ernst J., to Aerosol Research Co. Aerosol valve mounting. 2,900,114, 8-18-59, Cl. 222—394.
- Uwimco, Inc.: *See—*  
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- Uzumaki, Mitutaka: *See—*  
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- V. B. Grip Sales: *See—*  
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- VEB Buchungsmaschinenwerk Karl-Marx-Stadt: *See—*  
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- VEB Carl Zeiss Jena: *See—*  
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- VEB Farbenfabrik Wolfen: *See—*  
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- VEB Geraer Klaviaturenfabrik: *See—*  
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- VEB Leuna-Werke "Walter Ulbricht": *See—*  
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- VEB Maschinenbau Jonsdorf: *See—*  
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- VEB Schlepperwerk Nordhausen: *See—*  
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- VEB Spezialaehmaschinenwerk Limbach: *See—*  
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- VEB Sprio-Werke: *See—*  
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- VEB Starkstrom-Anlagenbau: *See—*  
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- VEB Thuringisches Kunstfaserwerk "Wilhelm Pleck":  
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- VEB Werk Fur Fernmeldewesen: *See—*  
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- VEB Werk fur Signal-und Sicherungstechnik Berlin: *See—*  
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- VEB Zahnschneidemaschinenfabrik Modul: *See—*  
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- VEB Zeiss Ikon: *See—*  
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- VEB Zeiss Ikon Dresden: *See—*  
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- VEB Zementanlagenbau Dessau: *See—*  
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- V. & E. Products, Inc.: *See—*  
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- VIP, Inc.: *See—*  
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- VISI Record, Inc.: *See—*  
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- V-M Corp.: *See—*  
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- Vaca, Humberto. Theft-proof wallet. 2,891,592, 6-23-59, Cl. 150-47.
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- Wilkens, Henry J., and Dolinko. 2,889,501.
- Vaccaro, Frank E., to Radio Corp. of America. Tunable magnetron. 2,915,675, 12-1-59, Cl. 315-3977.
- Vaccaro, Joseph, Jr.: *See*—
- Hudson, Edwin M., and Vaccaro. 2,907,869.
- Vacha, Fred P., to The Gamewell Co. Brush assembly. 2,889,529, 6-2-59, Cl. 338-202.
- Vacha, Fred P., to The Gamewell Co. Impedance device. 2,904,767, 9-15-59, Cl. 338-311.
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- Lytle, George F. 2,887,849.
- Vadas, Leslie: *See*—
- Leslie, Richard B., Jr., and Vadas. 2,897,861.
- Vadas, Leslie, to Food Machinery and Chemical Corp. Container filling valve. 2,897,855, 8-4-59, Cl. 141-286.
- Vaell, Raoul P.: *See*—
- Deering, Roland F., Duir, and Vaell. 2,913,399.
- Vaell, Raoul P., to Union Oil Co. of California. Hydrocarbon conversion apparatus and process. 2,891,908, 6-23-59, Cl. 208-165.
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- Vafiades, William J.: *See*—
- Seliger, Victor H., and Vafiades. 2,888,630.
- Vaghi, Joseph. Air circulating blower. 2,899,128, 8-11-59, Cl. 230-117.
- Vahey, Harold B.: *See*—
- Reed, Earl V., and Vahey. 2,883,554.
- Vahlstrom, Carl A., to The American Hardware Corp. Key-way shutters for cylinder locks. 2,906,112, 9-29-59, Cl. 70-455.
- Vahlteich, Hans W.: *See*—
- Landwerlen, Richard G., and Vahlteich. 2,909,437.
- Vahs, William, to International Harvester Co. Valve control means for hydraulic fluid-operated devices. 2,906,291, 9-29-59, Cl. 137-622.
- Vahs, William A., to Parker-Hannifin Corp. Valve assembly. 2,874,720, 2-24-59, Cl. 137-622.5.
- Vail, Albert A. Method of packaging food and casing therefor. 2,876,112, 3-3-59, Cl. 99-171.
- Vail, James N.: *See*—
- Melich, Edwin G., and Vail. 2,890,008.
- Vaillant, Joh., K.G.: *See*—
- Keppel, Ernst. 2,901,175.
- Schuchardt, Hans. 2,917,062.
- Vaive, Victor A. Bottle seal cutter. 2,896,317, 7-28-59, Cl. 30-1.5.
- Vajda, Tommy F., to Lockheed Aircraft Corp. Optical target. 2,904,890, 9-22-59, Cl. 33-74.
- Vakos, Peter. Starter for a gasoline engine. 2,875,851, 3-3-59, Cl. 185-41.
- Vaktar, Anthony E., and H. Hacklander, to The Singer Mfg. Co. Thread take-up mechanisms for sewing machines. 2,910,950, 11-3-59, Cl. 112-241.
- Vak-U-Pak Corp.: *See*—
- Randall, Ralph S. 2,870,591.
- Valantin, Alfred A. M. Mining and loading machine having a screening plate. 2,868,532, 1-13-59, Cl. 262-28.
- Valembois, Jean, to Electricite de France (Service National). Apparatus for the utilization of the energy of waves. 2,886,951, 5-19-59, Cl. 61-20.
- Valensi, Georges. Color television receiver. 2,873,310, 2-10-59, Cl. 178-5.4.
- Valente, Ernesto. Apparatus to make coffee in large quantities to be adapted on the boiler of a common coffee percolator for bars, specially fit for hotels and the like. 2,874,630, 2-24-59, Cl. 99-307.
- Valentyn, Johannes: *See*—
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- Valenti, Peter, to Sargent Engineering Corp. Jack screw drive. 2,907,223, 10-6-59, Cl. 74-424.8.
- Valentin Lenhof K. G.: *See*—
- Karpf, Nikolaus. 2,913,970.
- Valentine, Albert H., and T. M. Moore, to United States of America, Air Force. Cathode ray tube clamping centering device. 2,910,604, 10-27-59, Cl. 313-84.
- Valentine, George E., and J. H. Eubanks, to V. & E. Products, Inc. Safety device for preventing hopper fires in coal furnaces. 2,873,703, 2-17-59, Cl. 110-108.
- Valentine, Gordon W. Anti-freeze washer which is readily separable by cutting to relieve a threaded joint. 2,872,839, 2-10-59, Cl. 85-50.
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- Valentine, Ralph S., to California Research Corp. Separation of aromatic compounds by extractive distillation. 2,900,309, 8-18-59, Cl. 202-39.5.
- Valentine, Reginald, and H. G. Glover, to Coal Industry (Patents) Ltd. Apparatus for detecting carbon monoxide. 2,916,358, 12-8-59, Cl. 23-254.
- Valentine, William: *See*—
- Sieger, George M., Jr., Valentine, and Weidenheimer. 2,899,362.
- Valentine, William, and J. F. Weidenheimer, to American Cyanamid Co. Stable dry powder compositions containing choline chloride and methods of preparing same. 2,879,161, 3-24-59, Cl. 99-2.
- Valentine, William, and C. L. Stearns, to American Cyanamid Co. Gelatin capsule containing hexylresorcinol and a lower polyalkylene glycol. 2,889,252, 6-2-59, Cl. 167-83.
- Valentini, Luciano. Manufacturing a patterned rubber mat. 2,905,971, 9-29-59, Cl. 18-47.5.
- Valentini, Luciano. Manufacturing mats from rubber derivatives. 2,915,785, 12-8-59, Cl. 18-47.5.
- Valentino, Michael L.: *See*—
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- Valentyne, Peter H., and C. A. Sunbom, to Baker Perkins Inc. Dough dividing apparatus. 2,902,950, 9-8-59, Cl. 107-15.
- Valenziano, Frank P.: *See*—
- Longley, James E., and Valenziano. 2,911,859.
- Valeton, Josue J. P.: *See*—
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- Valeton, Josue J. P., F. W. de Vrijer, and K. Teer, to North American Philips Co., Inc. Multiplex transmission system for the transmission of three signals. 2,870,248, 1-20-59, Cl. 178-5.2.
- Valette, Pierre P. A. Binocular cases. 2,907,363, 10-6-59, Cl. 150-52.
- Valguard Co., Inc.: *See*—
- Downin, Roland W. 2,905,949.
- Vallulis, Stanley B. Screw-holding screw driver. 2,890,733, 6-16-59, Cl. 145-50.
- Valko, Emery I., G. C. Tesoro, and E. D. Szubin, to Onyx Oil & Chemical Co. Water soluble basic polyamides and their alkylation products. 2,882,185, 4-14-59, Cl. 117-139.5.
- Valko, Emery I., G. C. Tesoro, and E. D. Szubin, to Onyx Oil & Chemical Co. Polymeric amido imidazolines and their alkylation products, and textiles coated therewith. 2,914,427, 11-24-59, Cl. 117-139.5.
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- Vallas, Charles L., to The Cleveland Container Co. Spirally wound container tube. 2,891,714, 6-23-59, Cl. 229-51.
- Vallas, Charles L., to The Cleveland Container Co. Spiral container tube. 2,901,162, 8-25-59, Cl. 229-51.
- Vallee, Wendell L.: *See*—
- Stovern, Ingram V., and Vallee. 2,895,712.
- Valley, Bernard P.: *See*—
- Smith, Daniel J., and Valley. 2,905,218.
- Valley Engineering Corp.: *See*—
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- Valley Pattern & Mfg. Co.: *See*—
- Johnson, Al, and Gauger. 2,873,655.
- Valliant, Charles B., and W. L. Scheirman, to Black, Sivalls & Bryson, Inc. Apparatus for separating fluids. 2,910,136, 10-27-59, Cl. 183-2.7.
- Vallino, Dominic J.: *See*—
- Stoddard, Edgar S., and Vallino. 2,906,685.
- Valverde, Robert. Electric switch with electro luminescent signal. 2,901,582, 8-25-59, Cl. 200-167.
- Valvo, Joseph F., and P. Hodson, to Apra Precipitator Corp. Collector-ionizer electrode. 2,870,861, 1-27-59, Cl. 183-7.
- Valvi, Emery I. Shell molding machine. 2,867,867, 1-13-59, Cl. 22-20.
- Van Abbe, Henri H., to North American Philips Co., Inc. Transistor pulse generator. 2,890,403, 6-9-59, Cl. 321-2.
- Van Akkeren, Joseph, and E. J. Helm, to Koppers Co., Inc. Debenzoling and purifying wash oil with steam. 2,913,374, 11-17-59, Cl. 196-100.
- Vanadium-Alloys Steel Co.: *See*—
- Roberts, George A. 2,914,400.
- Roberts, George A., and Hamaker. 2,893,902.
- Vanadium Corp. of America: *See*—
- Dunn, Holbert E. 2,901,828.
- Rathmann, Heinrich W., Staggers, and Bruner. 2,909,427.
- Strauss, Jerome. 2,915,386.
- Vesper, Roland G. 2,895,336.
- Van Akkeren, Leon A., to Swift & Co. Rearrangement of lard with metal alcoholates. 2,872,463, 2-3-59, Cl. 260-410.7.
- Van Akkeren, Leon A., and H. J. Ast, to Swift & Co. Neutralizing and decolorizing lard interesterification reaction mixture. 2,878,274, 3-17-59, Cl. 260-410.7.
- Van Alen, De Witt T., to The George W. Borg Corp. Potentiometer. 2,912,663, 11-10-59, Cl. 338-170.
- Van Allan, James A.: *See*—
- Robertson, Earl M., and Van Allan. 2,870,011.
- Van Allan, James A., to Eastman Kodak Co. Stabilized photographic silver halide emulsions. 2,891,862, 6-23-59, Cl. 96-67.
- Van Allan, James A., and J. L. R. Williams, to Eastman Kodak Co. Photographic elements containing polymeric ultraviolet absorbing compounds. 2,882,150, 4-14-59, Cl. 96-11.



- Van Allen, Roland L.: *See*—  
Rochelle, Robert W., and Van Allen. 2,894,250.
- Van Allen, Roland L. Variable frequency transistor oscillator. 2,873,371, 2-10-59, Cl. 250-36.
- Van Allen, Roland L. Rotary shaft position indicator. 2,907,991, 10-6-59, Cl. 340-207.
- Van Alphen, Pieter M., J. van der Wal, and J. J. C. Hardenberg, to North American Philips Co., Inc. Device for X-ray examination. 2,874,800, 2-17-59, Cl. 250-65.
- Van Alphen, Pieter M., A. G. van Doorn, and J. C. Francken, to North American Philips Co., Inc. Colour television picture tube. 2,882,432, 4-14-59, Cl. 313-92.
- Van Alstyne, Alvin G., to Gilfillan Bros., Inc. Position indication method and system. 2,881,356, 4-7-59, Cl. 315-22.
- Van Alstyne, Alvin G., and T. J. Johnson, to Gilfillan Bros. Inc. Aircraft simulator for radar training. 2,889,636, 6-9-59, Cl. 35-10.4.
- Van Alstyne, Alvin G., to Gilfillan Bros. Inc. Means and techniques for simulating flight and control of aircraft. 2,916,736, 12-8-59, Cl. 343-11.
- Van Amburg, William F., and M. D. Vincent, to Talon, Inc. Fastener guiding attachment for sewing machines. 2,894,469, 7-14-59, Cl. 112-136.
- Van Ameringen-Haebler, Inc.: *See*—  
Theimer, Ernst T. 2,867,668.  
Weiss, Richard. 2,882,323.
- Van Amstel, Johannes J. A. P., to North American Philips Co., Inc. Method of alloying an electrode to a germanium semi-conductive body. 2,887,416, 5-19-59, Cl. 148-1.5.
- Van Amstel, Johannes J. A. P., to North American Philips Co., Inc. Electrode system comprising crystal diodes or translators. 2,899,618, 8-11-59, Cl. 317-234.
- Vanant Co., Inc.: *See*—  
Van Antwerpen, Martin and L. D. 2,877,823.  
Wiedenmeier, George W. 2,908,437.
- Van Antwerp, Robert L., to V-M Corp. Record changers for phonographs. 2,918,288, 12-22-59, Cl. 274-10.
- Van Antwerpen, Lloyd D.: *See*—  
Van Antwerpen, Martin and L. D. 2,877,823.
- Van Antwerpen, Lloyd D. Carton with cushion cover flap. 2,877,942, 3-17-59, Cl. 229-14.
- Van Antwerpen, Lloyd D. Packaging strip and method for forming the same. 2,888,134, 5-26-59, Cl. 206-62.
- Van Antwerpen, Martin and L. D., to Vanant Co., Inc. Gluing and magnetic hold-down for cushioning strips. 2,877,823, 3-17-59, Cl. 154-1.8.
- Van Arsdell, Fred C., to The Quaker Oats Co. Continuous griddle cake baking apparatus. 2,899,914, 8-18-59, Cl. 107-4.
- Van Asselt, Robert L., and C. V. Gerdes, to Monsanto Chemical Co. Electrical current rectifier. 2,870,046, 1-20-59, Cl. 117-200.
- Van Atta, Chester M.: *See*—  
Glennon, James B., and Van Atta. 2,905,088.
- Van Atta, Chester M., E. R. Beringer, and L. Smith, to United States of America, Atomic Energy Commission. Heavy ion linear accelerator. 2,867,748, 1-6-59, Cl. 315-5.42.
- Van Atta, Lester C., to Hughes Aircraft Co. Electromagnetic reflector. 2,908,002, 10-6-59, Cl. 343-776.
- Van Atta, Lester C., M. D. Adcock, and T. Kinaga, to Hughes Aircraft Co. Antenna system. 2,908,904, 10-13-59, Cl. 343-708.
- Van Auken, Harry B.: *See*—  
Strnad, James J., and Van Auken. 2,881,569.
- Van Ausdall, Carl. Automatic transmission. 2,886,977, 5-19-59, Cl. 74-217.
- Van Baarn, Paul S. Containers and closures therefor. 2,886,219, 5-12-59, Cl. 222-521.
- Van Barneveld, Evert J., and P. J. H. Janssen, to North American Philips Co., Inc. Device comprising an electric discharge tube having a pentode characteristic. 2,874,282, 2-17-59, Cl. 250-27.
- Van Beest, Adolf C., and J. W. Le Nobel, to Shell Development Co. Process for sweetening hydrocarbons with alkali hypochlorites, alkali hydroxides and alkali mercaptides. 2,903,422, 9-8-59, Cl. 208-190.
- Van Bennekom, Carl F.: *See*—  
Schultz, William J., and Van Bennekom. 2,900,463.
- Van Bergen, Jan A.: *See*—  
Ettema, Eelke H., and Van Bergen. 2,892,069.  
Ettema, Eelke H., and Van Bergen. 2,903,563.
- Van Berkum, Joannes B. M., to North American Philips Co., Inc. Tong comprising a remotely controlled gripping device detachably secured to a bar, and a holder adapted to the gripping device. 2,916,323, 12-8-59, Cl. 294-115.
- Van Blerkom, Leopold R., to Daystrom, Inc. Potentiometric measuring network. 2,906,951, 9-29-59, Cl. 324-63.
- Van Brode Milling Co., Inc.: *See*—  
Maitland, Peter M., and Antritter. 2,918,983.
- Van Buren, Edmund. Humidified air control system. 2,884,205, 4-28-59, Cl. 239-412.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Self threading fastening bearing a helix the leading end of which is rounded to initiate thread rolling. 2,901,938, 9-1-59, Cl. 85-32.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Fastening device. 2,903,815, 9-15-59, Cl. 45-138.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Fastening device. 2,909,352, 10-20-59, Cl. 248-239.
- Van Buren, Harold S., Jr., to United-Carr Fastener Corp. Fastener with washer assembled thereto by a fracturable projection. 2,913,951, 11-24-59, Cl. 85-36.
- Van Buren Machine Corp.: *See*—  
Frank, Anton R., and Giles. 2,911,774.  
Frank, Anton R., and Giles. 2,915,867.
- Van Buren, Myers, to Raymond International Inc. Grouting of reinforcements in post-tensioned concrete structures. 2,869,214, 1-20-59, Cl. 25-254.
- Van Buskirk & Co., Inc.: *See*—  
Van Buskirk, John D. 2,870,702.
- Van Buskirk, Ernest M., to International Harvester Co. Feed mechanism for cane harvesters. 2,912,811, 11-17-59, Cl. 56-15.
- Van Buskirk, John D., to Van Buskirk & Co., Inc. Article marking. 2,870,702, 1-27-59, Cl. 101-35.
- Van Buskirk, Lesher W. Digging teeth for excavating, dipers, etc. 2,891,333, 6-23-59, Cl. 37-142.
- Van Buskirk, Paul, to V. B. Grip Sales. Cable ferrule. 2,898,655, 8-11-59, Cl. 24-4.5.
- Vancamp, Raymond M., and A. P. Muren, Jr., to Columbia-Southern Chemical Corp. Production of perchloroethylene and catalyst therefor. 2,914,576, 11-24-59, Cl. 260-654.
- Van Camp, Roscoe C., to Automatic Switch Co. Valve having resilient wafer-like disc closure. 2,893,685, 7-7-59, Cl. 251-334.
- Van Camp Sea Food Co., Inc.: *See*—  
Dunn, Howard J. 2,897,119.  
Johnson, Ray. 2,884,658.  
Johnson, Ray. 2,911,668.
- Van Campen, Marcus G., Jr.: *See*—  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,529.  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,561.  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,562.  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,563.  
Allen, Robert E., Palopoli, Schumann, and Van Campen. 2,914,564.  
Tilford, Charles H., McCarty, and Van Campen. 2,894,949.
- Van Campen, Marcus G., Jr., and C. H. Tilford, to The Wm. S. Merrell Co. Alpha, alpha diaryl piperidino ethanol. 2,874,161, 2-17-59, Cl. 260-294.7.
- Van Campen, Marcus G., Jr., R. E. Allen, F. P. Palopoli, and E. L. Schumann, to The Wm. S. Merrell Co. Guanyl substituted triphenylethanes, triphenylethylenes and benzalfluorenes. 2,877,269, 3-10-59, Cl. 260-564.
- Van Campen, K. T.: *See*—  
Capek, Louis E., and Van Campen. 2,869,153.
- Van Cantfort, August R. Pouring device. 2,889,976, 6-9-59, Cl. 229-7.
- Vance, Glenn, G. L. Powers, P. W. Stokesberry, M. H. Colman, and D. L. Klipstein, to CS-13 Corp. Radiant energy shielding device. 2,877,286, 3-10-59, Cl. 174-35.
- Vance, James C.: *See*—  
Zeigle, Kenneth C., Nieland, and Vance. 2,878,014.
- Vance, James M., to Lockheed Aircraft Corp. Blind fastener having expansion ring beneath tapered pin head. 2,905,045, 9-22-59, Cl. 85-40.
- Vance, John E., to The Hoover Co. Combination suction cleaners. 2,898,621, 8-11-59, Cl. 15-324.
- Vance, Philip R.: *See*—  
Morrill, Charles D., Hosterman, and Vance. 2,875,389.
- Vance, Robert F.: *See*—  
Olson, Earl R., and Vance. 2,885,310.
- Van Cleve, John W.: *See*—  
Mehlretter, Charles L., Van Cleve, and Watson. 2,880,236.
- Van Clief, William C., Jr., to Pittsburgh Plate Glass Co. Rotary brush sections. 2,877,481, 3-17-59, Cl. 15-181.
- Vandale Corp.: *See*—  
McCann, John M. 2,906,108.
- Van Dale Farm Machines, Inc.: *See*—  
Van Dusen, Frederick E. 2,888,253.
- Van Dale, Inc.: *See*—  
Buschbom, Floyd E. 2,877,907.
- Van Dam, Max, to Auken Chemical & Film Corp. Heat-sensitive copying paper. 2,897,090, 7-28-59, Cl. 117-36.
- Van Dam, Walter L.: *See*—  
Smith, Edwin W., and Van Dam. 2,886,250.
- Vandamme, Louis, and L. Rouyer, to Moulinae et Retorderie de Chavanoz. Apparatus for the production of high-bulk yarn. 2,891,375, 6-23-59, Cl. 57-34.
- Van de Bilt, Pieter A., to Package Sealing Co. (Export) Ltd. Delivering wire or like flexible element from a coil. 2,893,657, 7-7-59, Cl. 242-128.
- Van de Graaff, Robert J., to High Voltage Engineering Corp. Gas target. 2,885,584, 5-5-59, Cl. 313-61.
- Van Deinse, Paul A., to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Magnetic modulator. 2,884,599, 4-28-59, Cl. 332-51.
- Van den Beemt, Jan H. Telescoping mast. 2,872,904, 2-10-59, Cl. 121-46.
- Vandenbergh, Albert F. Automatic pulser. 2,880,278, 3-31-59, Cl. 179-90.
- Vandenbergh, Cornelius E., to North American Aviation, Inc. Three dimensional variable exhaust nozzle. 2,914,914, 12-1-59, Cl. 60-35.6.
- Vandenbergh, Edwin J., to Hercules Powder Co. Polymer phenol hydroperoxides. 2,911,387, 11-3-59, Cl. 260-47.
- Vandenbergh, Edwin J., to Hercules Powder Co. Polymer hydroperoxides. 2,911,391, 11-3-59, Cl. 260-78.5.



- Vandenberg, Edwin J., to Hercules Powder Co. Polymer hydroperoxides. 2,911,398, 11-3-59, Cl. 260—93.5.
- Vandenberg, Edwin J., to Hercules Powder Co. Polymerization of ethylene with a catalyst of alkylaluminum and a Va metal salt. 2,914,519, 11-24-59, Cl. 260—94.9.
- Vandenberg, Edwin J., to Hercules Powder Co. Polymerization of ethylene with a catalyst of alkyl aluminum and a group III-A metal salt. 2,914,520, 11-24-59, Cl. 260—94.9.
- Vandenberg, Howard L., and P. M. Karsten, to Allis-Chalmers Mfg. Co. Dynamoelectric machine. 2,870,357, 1-20-59, Cl. 310—269.
- Van Denberg, Thomas F.: *See—*  
Dorsak, John W., and Van Denberg. 2,895,760.
- Van den Bosch, Francois J. G. High fidelity loudspeaker. 2,897,292, 7-28-59, Cl. 179—115.5.
- Van Denburg, John W. Glare reducing device. 2,878,714, 3-24-59, Cl. 88—1.
- Vandenburg, Leonard B.: *See—*  
Luebke, Emmeth A., and Vandenburg. 2,902,423.
- Vandenburg, Charles D., to American Viscose Corp. Liquid and gas separator. 2,869,674, 1-20-59, Cl. 183—2.5.
- Vandenburg, Charles D., to American Viscose Corp. Yarn guide. 2,896,879, 7-28-59, Cl. 242—157.
- Vandenburg, Charles D., to American Viscose Corp. Degassing liquids. 2,906,367, 9-29-59, Cl. 183—2.5.
- Van De Putte, Gérard H. A. R.: *See—*  
Jéquier, Léon J. R., and Van De Putte. 2,906,608.
- Vandeputte, John: *See—*  
Dutcher, James D., Gold, Pagano, and Vandeputte. 2,908,611.  
Dutcher, James D., Gold, Pagano, and Vandeputte. 2,908,612.
- Vander Arend, Peter C.: *See—*  
Birmingham, Bascom W., Brown, Scott, and Vander Arend. 2,871,042.
- Vander Arend, Peter C., and D. Mann, to United States of America, Navy. Cool-down apparatus for cryogenic liquid containers. 2,882,694, 4-21-59, Cl. 62—45.
- Vanderbeck, Alfred G. Trolley anchoring device. 2,893,518, 7-7-59, Cl. 188—42.
- Van Der Beek, Roland R., Jr., to The Carborundum Co. Silicon carbide resistance bodies and methods of making same. 2,916,460, 12-8-59, Cl. 252—516.
- Van der Bel, Louis K. Drain pipe stoppage preventer. 2,909,788, 10-27-59, Cl. 4—255.
- Vander Berg, Mike, and P. A. Koolman. Cleaning attachment for ditching machines. 2,914,866, 12-1-59, Cl. 37—97.
- Vanderbilt, Byron M.: *See—*  
Serniuk, George F., Vanderbilt, Michaels, and Barnum. 2,874,033.
- Vanderbilt, R. T. Co., Inc.: *See—*  
Brooks, Lester A., and Bacon. 2,911,392.  
Brooks, Lester A., and Bacon. 2,911,393.  
Brooks, Lester A., and Bacon. 2,911,394.
- Vanderbilt, Vern C., Jr. Signal recorder. 2,886,778, 5-12-59, Cl. 324—100.
- Vanderbur, John E., Jr.: *See—*  
Conrad, Harold L., and Vanderbur. 2,895,759.
- Van der Burg, Willem J., to Organon Inc. Preparation of unsaturated compounds of the cyclopentanopolymethylenanthrene series. 2,879,279, 3-24-59, Cl. 260—397.3.
- Van Der Burgt, Cornelis M.: *See—*  
Klinkhamer, Jacob F., Van Der Burgt, and Cluwin. 2,901,555.
- Vander Cook, Raymon E., to Wyandotte Chemicals Corp. Laboratory support ring. 2,919,091, 12-29-59, Cl. 248—124.
- Vandercook & Sons, Inc.: *See—*  
Robar, Garret D. 2,908,319.
- Van Deryds, Sivan F. Drafting device. 2,896,366, 7-28-59, Cl. 45—131.
- Vandergriff, Arvel L., to Lummus Cotton Gin Co. Hull extractor for seed cotton. 2,898,635, 8-11-59, Cl. 19—37.
- Vandergriff, Arvel L., and D. W. Van Doorn, to Lummus Cotton Gin Co. Lint cotton cleaner. 2,912,720, 11-17-59, Cl. 19—67.
- Vandergrift, Erskine, Jr.: *See—*  
Cooper, Jacob L., Daniel, Patton, and Vandergrift. 2,870,496.
- Vander Haar, Roy W.: *See—*  
Brennan, Harry M., Seelig, and Vander Haar. 2,892,799.  
Brennan, Harry M., Seelig, and Vander Haar. 2,906,702.  
Brennan, Harry M., Vander Haar, and Seelig. 2,910,429.
- Van Der Harck, Henri C. J.: *See—*  
Donceel, Jules L. J., and Van Der Harck. 2,914,621.
- Van der Heide, Hendrik: *See—*  
Gorter, Evert W., Esveldt, and van der Heide. 2,882,236.
- Vanderhoof, Alton S., to Resistoflex Corp. Method of extruding plastic material. 2,889,581, 6-9-59, Cl. 18—55.
- Vanderhoof, Alton S., to Resistoflex Corp. Nut with "Teflon" insert. 2,889,733, 6-9-59, Cl. 85—32.
- Vander Kaay, Henry A., to The New York Air Brake Co. Hydraulic follow-up control for bulldozers and the like. 2,874,681, 2-24-59, Cl. 121—41.
- Vander Kaay, Henry A., to The New York Air Brake Co. Position-responsive servo-control unit. 2,874,682, 2-24-59, Cl. 121—41.
- Vander Kaay, Henry A., to The New York Air Brake Co. Valve. 2,905,191, 9-22-59, Cl. 137—117.
- Van der Kam, Justin A.: *See—*  
Honing, Wilhelm, and Van der Kam. 2,916,650.
- Van der Kolk, Hendrik, to Bureau van Tongeren N. V. Cyclones. 2,874,799, 2-24-59, Cl. 183—34.
- Van der Kolk, Hendrik, to Bureau van Tongeren N. V. Devices for removing from gas or vapor solid or liquid particles suspended therein. 2,874,800, 2-24-59, Cl. 183—44.
- Van der Kolk, Hendrik, to Bureau van Tongeren N. V. Dust-separators consisting of a set of cyclones connected in parallel and having each at least one tangential inlet opening. 2,874,801, 2-24-59, Cl. 183—83.
- Van Der Laag, Willem S.: *See—*  
Lely, Cornelis, and Van Der Laag. 2,897,147.
- Van der Lely, Ary: *See—*  
Van der Lely, Cornelis and A. Re. 24,676.  
Van der Lely, Cornelis and A. 2,867,071.  
Van der Lely, Cornelis and A. 2,867,072.  
Van der Lely, Cornelis and A. 2,867,073.  
Van der Lely, Cornelis and A. 2,872,773.  
Van der Lely, Cornelis and A. 2,873,126.  
Van der Lely, Cornelis and A. 2,874,529.  
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Van der Lely, Cornelis and A. 2,889,678.  
Van der Lely, Cornelis and A. 2,892,299.  
Van der Lely, Cornelis and A. 2,895,855.  
Van der Lely, Cornelis and A. 2,896,392.  
Van der Lely, Cornelis and A. 2,901,880.  
Van der Lely, Cornelis and A. 2,904,950.  
Van der Lely, Cornelis and A. 2,907,498.  
Van der Lely, Cornelis and A. 2,908,129.  
Van der Lely, Cornelis and A. 2,908,130.  
Van der Lely, Cornelis and A. 2,909,023.  
Van der Lely, Cornelis and A. 2,909,024.  
Van der Lely, Cornelis and A. 2,909,888.  
Van der Lely, Cornelis and A. 2,909,943.  
Van der Lely, Cornelis and A. 2,910,300.  
Van der Lely, Cornelis and A. 2,918,695.
- Van der Lely, C., Canada Ltd.: *See—*  
Van der Lely, Cornelis. 2,892,300.  
Van der Lely, Cornelis and A. 2,908,130.  
Van der Lely, Cornelis and A. 2,909,023.
- Van der Lely, Cornelis: *See—*  
Van der Lely, Cornelis and A. 2,867,073.  
Van der Lely, Cornelis and A. 2,889,678.
- Van der Lely, C., N.V.: *See—*  
Van der Lely, Cornelis and A. Re. 24,676.  
Van der Lely, Cornelis and A. 2,867,071.  
Van der Lely, Cornelis and A. 2,867,072.  
Van der Lely, Cornelis and A. 2,872,773.  
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Van der Lely, Cornelis and A. 2,874,529.  
Van der Lely, Cornelis, and A. 2,876,613.  
Van der Lely, Cornelis and A. 2,892,299.  
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Van der Lely, Cornelis and A. 2,896,392.  
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Van der Lely, Cornelis and A. 2,904,950.  
Van der Lely, Cornelis and A. 2,907,498.  
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Van der Lely, Cornelis and A. 2,910,300.  
Van der Lely, Cornelis and A. 2,918,695.
- Van der Lely, Cornelis, to C. van der Lely, Canada Ltd. Rotary raking device. 2,892,300, 6-30-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Raking device having a rake wheel bearing crank extending in forward direction. Re. 24,676, 7-28-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Raking device. 2,867,071, 1-6-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery rake and swath turner. 2,867,072, 1-6-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely. Side delivery rake. 2,867,073, 1-6-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Resilient rotary raking wheel. 2,872,773, 2-10-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Laterally adjustable draft member. 2,873,126, 2-10-59, Cl. 280—462.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Rotary raking wheel. 2,874,529, 2-24-59, Cl. 56—400.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery rake with sectional support for the raking members. 2,876,613, 3-10-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely. Raking device comprising a frame which is provided with running wheels and a handle. 2,889,678, 6-9-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Teddering device. 2,892,299, 6-30-59, Cl. 56—370.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Raking implement. 2,895,855, 7-21-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery raking device. 2,896,392, 7-28-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Device for laterally displacing crop lying on the ground. 2,901,880, 9-1-59, Cl. 56—377.
- Van der Lely, Cornelis and A., to C. van der Lely, N.V. Side delivery raking device. 2,904,950, 9-22-59, Cl. 56—377.



- Van der Lely, Cornelis and A., to C. van der Lely N.V. Dispensing device. 2,907,498, 10-6-59, Cl. 222-199.
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- Van Der Linden, Frederick N. Pin strip dispensers. 2,885,114, 5-5-59, Cl. 221-71.
- Van der Mei, Wietse H., to Voigtlander A. G. Flashlamp device for photographic cameras. 2,871,775, 2-3-59, Cl. 95-11.5.
- Van der Meulen, Peter A., and P. B. Gilman, Jr., to United States of America, Air Force. Photosensitive composition. 2,874,047, 2-17-59, Cl. 96-94.
- Van der Neut, Jan H., and A. Renner, to Ciba Ltd. Hardenable mixtures of an epoxy resin and a resin from formaldehyde and an arylamine and hardened products therefrom. 2,881,149, 4-7-59, Cl. 260-45.2.
- Vander Ploeg, Alfred R., to Texaco Inc. Fluid contact coking in the presence of hydrogen produced by dehydrogenation of product gases. 2,895,896, 7-21-59, Cl. 208-53.
- Vanderpoel, Albert G. H., and H. J. Mailhot. Pressure regulator-filter device. 2,876,793, 3-10-59, Cl. 137-505.42.
- Van der Poel, Jan, to North American Philips Co., Inc. Electrical discharge tube. 2,917,652, 12-15-59, Cl. 313-260.
- Vander Pyl, Chester A., Jr.: See—  
Paton, Joseph H., Sherrill, and Vander Pyl. 2,901,949.
- Vander Pyl, Chester A., Jr., to Fram Corp. Method of curing porous, resin-treated pleated paper. 2,876,555, 3-10-59, Cl. 34-23.
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- Van Der Sluys, William: See—  
Candlin, James E., Jr., Lanman, and Van Der Sluys. 2,910,014.
- Van der Ster, Johannes, to North American Philips Co., Inc. Gas-separating apparatus. 2,867,985, 1-13-59, Cl. 62-40.
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- Van der Togt, Jan, to Tomado N. V. Apparatus for cutting potatoes or other tubers or fruits into strips. 2,884,976, 5-5-59, Cl. 146-169.
- Van der Velden, Anton M. J.: See—  
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- Vandervell Products Ltd.: See—  
Benham, Frederick S. 2,870,533.
- Van der Voort, Henricus G. P., to Shell Development Co. Selective formic acid removal. 2,913,492, 11-17-59, Cl. 260-541.
- Vandervoort, Norman F., to The Mason Silk Co. Synthetic thread and method of producing the same. 2,911,784, 11-10-59, Cl. 57-140.
- Vanderwaart, Cornelius M.: See—  
Karkalits, Olin C., Jr., Vanderwaart, and Megson. 2,891,094.
- Vanderwal, Frank E., Jr., to White-Rodgers Co. Film winding device for projectors. 2,914,265, 11-24-59, Cl. 242-55.12.
- Van der Wal, Johannes: See—  
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- Van der Wateren, Cornelius G., to Shell Development Co. Tubular waste-heat boiler. 2,906,509, 9-29-59, Cl. 257-246.
- Vander Zee, Christian J. Wiping device for outside rear-view mirrors. 2,913,754, 11-24-59, Cl. 15-253.
- Vanderzee, Harry H., to AMI Inc. Magnetic selector. 2,880,003, 3-31-59, Cl. 274-10.
- Vande Sande, George, to General Railway Signal Co. Automatic switching system. 2,900,497, 8-18-59, Cl. 246-2.
- Vande Sande, George, and H. S. Wynn, to General Railway Signal Co. Relay shift register. 2,914,749, 11-24-59, Cl. 340-168.
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- Van Deun, Jules J., to Ford Motor Co. Valve gear. 2,908,261, 10-13-59, Cl. 123-90.
- Van Deusen, Edmund L. Silicone suspension and method of applying same to cooking utensils. 2,871,141, 1-27-59, Cl. 117-49.
- Van de Ven, Jan M. F., to Rotameter Mfg. Co. Ltd. Magnetic coupling devices. 2,880,411, 3-31-59, Cl. 340-378.
- Van Deventer, Christopher, III, to National Plastics, Inc. Loom sheaves. 2,907,353, 10-6-59, Cl. 139-82.
- Van Deventer, Harry R., and P. C. Bailey, to F. E. M. Ballou. Telephone answering and recording devices. 2,886,640, 5-12-59, Cl. 179-6.
- Van De Water, Frank G., to Glide Easy Mfg. Vise having opposed jaws each adjustable by a displaceable screw. 2,906,151, 9-29-59, Cl. 81-29.
- Van de Weg, Hendrik, to North American Philips Co., Inc. Cascaded transistor and vacuum tube amplifier. 2,881,267, 4-7-59, Cl. 179-171.
- Van Dijk, Christiaan P.: See—  
de Keizer, Adrianus, van Dijk, and Gips. 2,870,229.
- Van Dijk, Pieter: See—  
Schrenk, Hans A., and Van Dijk. 2,893,198.
- Van Dijk, Pieter, to American Enka Corp. Yarn heating apparatus. 2,869,312, 1-20-59, Cl. 57-34.
- Vandoch, Stanley C.: See—  
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- Van Dolah, Delos B.: See—  
Kauffman, Floyd L., Van Dolah, and Sharp. 2,898,961.
- Van Donk, Cornelius H. File drawers. 2,917,052, 12-15-59, Cl. 129-29.
- Van Donselaar, Wilhelmus H.: See—  
Reijnt, Maximilien F., and Van Donselaar. 2,907,903.
- Van Doorn, Adriaan G.: See—  
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- Van Doorn, Adriaan G., H. Groendijk, and J. L. H. Jonker, to North American Philips Co., Inc. Image producing discharge device. 2,890,376, 6-9-59, Cl. 315-12.
- Van Doorn, Donald W.: See—  
Vandergriff, Arvel L., and Van Doorn. 2,912,720.
- Van Doorn, Donald W., to Lumms Cotton Gin Co. Bale tie and buckle. 2,905,058, 10-13-59, Cl. 24-21.
- Van Doorn, Donald W., and W. C. Pease, III, to Lumms Cotton Gin Co. Control system for baling presses and associated apparatus. 2,882,816, 4-21-59, Cl. 100-53.
- Van Doren, Philip T., to C. K. Clauer. Facsimile scanner. 2,872,825, 2-10-59, Cl. 74-56.
- Van Dorn, Margery S.: See—  
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- Van Dorn, Warren G., to Haloid Xerox Inc. Contact transfer for xerography. 2,886,464, 5-12-59, Cl. 117-17.5.
- Van Dorn, William E.; M. S. Van Dorn, executrix. Double level tiller planter. 2,889,788, 6-9-59, Cl. 111-80.
- Van Dorsser, Arend H. D., and C. van Hoek, to Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. Apparatus for electrolyzing liquids. 2,897,130, 7-28-59, Cl. 204-301.
- Van Dorsten, Adrianus C., to North American Philips Co., Inc. Variable magnetic electron lens. 2,880,324, 3-31-59, Cl. 250-49.5.
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- Van Dresser Specialty Corp.: See—  
Reed, Clair S. 2,906,320.
- Shockey, Newton E., and Wilkins. 2,882,361.
- Vandreuil, Oscar R.: See—  
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- Van Driel, John F., to Petcar Research Corp. Flame detector system. 2,903,682, 9-8-59, Cl. 340-227.
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- Van Dusen, Frederick E., and J. M. McCann, said Van Dusen assor. to said McCann. Anti-clogging device. 2,876,043, 3-3-59, Cl. 302-56.
- Van Dusen, Harold A., Jr., to McGraw-Edison Co. Noise eliminators for luminaires. 2,878,429, 3-17-59, Cl. 317-99.
- Van Duuren, Hendrik C. A., to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Rhythmic telegraph system. 2,903,514, 9-8-59, Cl. 178-23.
- Van Duuren, Hendrik C. A., to Staatsbedrijf der Posterijen, Telegrafie en Telefonie. Multiplex wireless telegraph system. 2,911,473, 11-3-59, Cl. 178-50.
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- Van Duyn, Adrianus, to U.S. Slicing Machine Co., Inc. Compensating device for weighing apparatus. 2,891,779, 6-23-59, Cl. 265-49.



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- Van Dyke, Lyle H., Holder for index and other pads. 2,915,841, 12-8-59, Cl. 40-102.
- Van Dyke, Orien W., to Magnet Cove Barium Corp. Drilling fluid. 2,895,911, 7-21-59, Cl. 252-8.5.
- Van Dyke, Ross E., and J. N. Wilson, to Shell Development Co. Catalytic cracking and improved catalyst therefor. 2,886,511, 5-12-59, Cl. 208-119.
- Van Eessel, Leon H. J.: See—  
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- Van Eijk, Willem, E. G. Werner, and N. Max, to Shell Development Co. Preparation of alkali metal salts of diesters of phosphoric acid. 2,867,645, 1-6-59, Cl. 260-461.
- Van Engineering, Hermetic Terminal Division: See—  
Skony, Sigmund J. 2,875,426.
- Van Epp, James E., to E. I. du Pont de Nemours and Co. Sealing composition comprising a mixture of brominated butyl rubber, polyisobutylene and carbon black, and method making same. 2,903,437, 9-8-59, Cl. 260-41.5.
- Van Erven Dorens, Eduard C., and J. C. Jansen, to Globex International Ltd. Process and apparatus for the manufacture of seamless filled capsules. 2,911,672, 11-10-59, Cl. 18-2.7.
- Van Essen, Harm: See—  
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- Van Essen, Harold, N. F. Morehouse, J. P. Heofis, A. W. Walde, and T. W. Zbornik, to Dr. Salsbury's Laboratories. Coccidiostatic remedies. 2,879,201, 3-24-59, Cl. 167-53.1.
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- Van Geel, Theodorus L. C., and T. Holmes, to North American Philips Co., Inc. Electric lamp with flat terminal member. 2,886,629, 5-12-59, Cl. 174-50.52.
- Van Gelder, Dirk W., to Koninklijke Industriële Maatschappij voorheen Noury & Van Der Lande N.V. Gluconic acid monohydrate. 2,916,515, 12-8-59, Cl. 260-535.
- Van Gelder, Gozewijn: See—  
Vervest, Wilhelmus L., and Van Gelder. 2,898,530.
- Van Gelder, Gozewijn, and E. J. H. Hemmers, to North American Philips Co., Inc. Television camera tube mounting. 2,886,635, 5-12-59, Cl. 178-7.2.
- Van Gerpen, Harlan W., to Deere & Co. Hydraulic apparatus. 2,892,311, 6-30-59, Cl. 60-52.
- Van Ginneken, Cornelis J. Installation for continuously mixing a powdery material with a viscous liquid, in particular meal with molasses. 2,887,305, 5-19-59, Cl. 259-24.
- Van Graafeiland, Milton I.: See—  
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Kuhrt, Noel H., and Van Graafeiland. 2,871,125.  
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- Van Haltern, Frank, Jr., to Scripto, Inc. Toggle actuated alternate push rocking latch mechanism for retractable ball pen. 2,898,887, 8-11-59, Cl. 120-42.3.
- Van Ham, Ernest E., to Jerguson Gage & Valve Co. Liquid level gauge for high pressure boilers. 2,917,923, 12-22-59, Cl. 73-331.
- Van Hartesveldt, Carroll H. Molding press guide system. 2,869,174, 1-20-59, Cl. 18-16.
- Van Hartesveldt, Carroll H. Mold construction. 2,869,179, 1-20-59, Cl. 18-34.
- Van Hartesveldt, Carroll H. Temperature control apparatus for a mold. 2,907,070, 10-6-59, Cl. 18-38.
- Van Hartesveldt, Carroll H., and C. S. Davidson, said Davidson to Van Hartesveldt. Safety device for diaphragm actuated means. 2,869,173, 1-20-59, Cl. 18-16.
- Van Heeckeren, Willem J., to North American Philips Co., Inc. Hot-gas engine comprising more than one device for the supply of heat. 2,894,368, 7-14-59, Cl. 60-24.
- Van Hemert, Peter R.: See—  
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- Van Hennik, Burtis W. Game apparatus. 2,886,320, 5-12-59, Cl. 273-96.
- Van Herpt, Cornelis H. J., to Stamicarbon N. V. Apparatus for continuously feeding a moist, finely divided solid material into a stream of gas. 2,868,591, 1-13-59, Cl. 302-50.
- Van Hoek, Cornelis: See—  
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- Vanhoof, John F. Self-contained opened for containers. 2,903,179, 9-8-59, Cl. 229-51.
- Van Hook, Charles F. Traverse drive mechanism. 2,898,770, 8-11-59, Cl. 74-123.
- Van Hook, Charles F. Reel driving mechanism. 2,909,339, 10-20-59, Cl. 242-68.3.
- Van Hoose, William E., to Pendleton Tool Industries, Inc. Magnetically controlled, predetermined torque release wrench. 2,900,855, 8-25-59, Cl. 81-52.4.
- Van Horn, Donald J.: See—  
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- Van Horn, John A.: See—  
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- Van Horn, John A., P. E. Biemiller, and J. H. Reese, to Hamilton Watch Co. Electric watch. 2,888,797, 6-2-59, Cl. 58-28.
- Van Horn, Maurice H.: See—  
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- Van Houten, Arthur H.: See—  
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- Van Hutten, Frederik J., and J. Van Nieuwkoop, to North American Philips Co., Inc. Direction finder operating according to the amplitude comparison method. 2,915,751, 12-1-59, Cl. 343-119.
- Vanier, John J., and J. T. Landes. Apparatus for storing flour. 2,890,803, 6-16-59, Cl. 214-17.
- Vaniman, Charles A. Enuresis napkin assembly. 2,874,695, 2-24-59, Cl. 128-138.
- Van Iperen, Bernardus B., to North American Philips Co., Inc. Klystron tube. 2,917,657, 12-15-59, Cl. 315-5.19.
- Vaulty Fair Paper Mills, Inc.: See—  
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- Wemyss, James C., Jr., and Schumacher. 2,877,115.
- Van Kekem, Elze E., to Combinatie N.V. En Amsterdamsche Bandoengsche & Nederlandsche Kiniefabriek. Machine for stamping small objects. 2,895,409, 7-21-59, Cl. 101-44.
- Van Kirk, Fred W.: See—  
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- Van Kleef, Hartog. Lower seal for glazed roofs or similar constructions. 2,883,946, 4-28-59, Cl. 108-16.
- Van Krevelen, Edward R.: See—  
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- Van Krevelen, Edward R., to General Mills, Inc. Electrostatic testing of sheet materials. 2,890,409, 6-9-59, Cl. 324-54.
- Van Kuyk, Henricus J. L., to North American Philips Co., Inc. Device for measuring a physical quantity. 2,873,607, 2-17-59, Cl. 73-335.
- Van Laar, Jan A. W., and C. J. V. Apon, to North American Philips Co., Inc. Flash lamp coating process. 2,868,670, 1-13-59, Cl. 117-94.
- Van Lamoen, Francisus L. J., and H. Borsten, to Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek ten Behoeve van Nijverheid, Handel en Verkeer. Dye bath and process for continuous dyeing. 2,892,669, 6-30-59, Cl. 8-34.
- Van Lare, Earl J.: See—  
Brooker, Leslie G. S., and Van Lare. 2,870,014.
- Van Leer, Oscar J.: See—  
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- Van Leeuwen, Pieter, to North American Philips Co., Inc. Connecting strip. 2,886,745, 5-12-59, Cl. 317-112.
- Van Loenen, William F., to Kaiser Aluminum & Chemical Corp. Pressure vessel venting device. 2,872,298, 2-3-59, Cl. 23-290.
- Van Lohuizen, Otto E., E. J. Mouton, and F. L. Schouteden, to Gevaert Photo-Producten N. V. Process for the preparation of mono-diols esters of terephthalic acid. 2,867,650, 1-6-59, Cl. 260-475.
- Van Loo, Maurice, and V. W. Bitter, to The Sherwin-Williams Co. Method for preserving gloss in paint film. 2,886,456, 5-12-59, Cl. 106-252.
- Van Loo, William J., Jr.: See—  
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- Van Loo, William J., Jr., to American Cyanamid Co. Method of treating textile materials. 2,887,408, 5-19-59, Cl. 117-138.8.
- Van Loo, William J., Jr. Substituted guanamine-formaldehyde reaction products and the process for treating textiles therewith. 2,887,409, 5-19-59, Cl. 117-139.4.
- Van Loo, William J., Jr., and J. M. Salsbury, to American Cyanamid Co. Process for treating textiles with ethylene urea-formaldehyde reaction products. 2,898,238, 8-4-59, Cl. 117-139.4.
- Van Loon, Peter J., Jr. Wheelbarrow handles. 2,901,263, 8-25-59, Cl. 280-47.31.
- Van Lottum, Johannes T. A.: See—  
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- Van Lottum, Johannes T. A., to North American Philips Co., Inc. Arrangement of subscribers' circuits in electronic telephone exchanges. 2,870,261, 1-20-59, Cl. 179-18.
- Van Luik, Frank W., to General Electric Co. High speed condensation nuclei measuring device. 2,915,939, 12-8-59, Cl. 88-14.
- Van Luik, Frank W., Jr., to General Electric Co. Process and apparatus for gas detection. 2,897,059, 7-28-59, Cl. 23-232.
- Van Luik, Frank W., Jr., to General Electric Co. Polar plotter. 2,907,620, 10-6-59, Cl. 346-8.
- Van Luik, Frank W., Jr., to General Electric Co. Device for direct measurement of relative humidity. 2,915,898, 12-8-59, Cl. 73-338.3.
- Van Marle, Frederick, to N.V. Technische Maatschappij Marchand-Andriessen. Mail facing machine. 2,895,588, 7-21-59, Cl. 198-33.
- Van Meter, Theodore, to Vickers Inc. Power transmission. 2,916,041, 12-8-59, Cl. 137-117.
- Van Meurs, Hubertus A., and C. O. Jonkers, to North American Philips Co., Inc. Method of manufacturing a cage-like grid member adapted for use in an electric discharge device. 2,877,805, 3-17-59, Cl. 140-71.5.
- Van Mierlo, Stanislas, and H. H. Adelaar, to International Standard Electric Corp. Telecommunication system. 2,910,540, 10-27-59, Cl. 179-15.



- Van Millingen, Reuel D.: *See*—  
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- Van Millingen, Reuel D. Torquemeter. 2,907,205, 10-6-59, Cl. 73-136.
- Vann, Henry E., to Ratby Engineering Co. Ltd. Bar feed for machine tools. 2,874,871, 2-24-59, Cl. 221-13.
- Vann, James K., Sr., and C. J. Lunkenheimer, to Swift & Co. Pallet destacking and feeding apparatus. 2,885,111, 5-5-59, Cl. 221-13.
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- Van Ness, Gene B. Poultry scalding apparatus and process. 2,879,540, 3-31-59, Cl. 17-11.2.
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- Van Ness, Hubert W., to Westinghouse Electric Corp. Electric discharge apparatus. 2,888,550, 5-26-59, Cl. 219-114.
- Van Ness, La Verne W.: *See*—  
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- Van Ness, Robert P., to Air Reduction Co., Inc. Calcium carbide. 2,899,052, 8-11-59, Cl. 206-84.
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- Van Nest, Arden L., to Western Electric Co., Inc. Wire-crimping apparatus. 2,911,014, 11-3-59, Cl. 140-71.
- Van Nest, Francis H., to General Electric Co. Gas turbine powerplant with steam injection. 2,869,323, 1-20-59, Cl. 60-39.55.
- Van Nest, Francis H., to General Electric Co. Control of heat supply to heat recovery boiler of regenerative cycle gas turbine powerplant. 2,914,917, 12-1-59, Cl. 60-39.07.
- Van Nest, Francis H., and R. J. Brown, to General Electric Co. Governing apparatus for marine gas turbine powerplant. 2,912,824, 11-17-59, Cl. 60-39.16.
- Van Nice, Robert I.: *See*—  
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- Hall, William G., Van Nice, and Evans. 2,874,373.
- Van Niel, Clarence R., and J. J. Sasena, to Tinnerman Products Inc. Fastening device. 2,916,115, 12-8-59, Cl. 189-88.
- Vannier, Sadie H.: *See*—  
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- Van Nieuwkoop, Jacob: *See*—  
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- Van Noord, Andrew J., to Jervis Corp. Latch control mechanism. 2,867,465, 1-6-59, Cl. 292-216.
- Van Noord, Andrew J., to Jervis Corp. Power operated latch mechanism. 2,898,138, 8-4-59, Cl. 292-122.
- Van Norman Industries, Inc.: *See*—  
Axelrod, Albert. 2,896,139.
- Bliss, William R. 2,895,121.
- Davis, Edwin P. 2,894,683.
- Pyne, Roger S., and Tompkins. 2,897,636.
- Todd, Alexander W., and Kwapien. 2,911,763.
- Van Note, Robert H., to Dorr-Oliver Inc. Process for clarifying a liquid and multitray apparatus therefor. 2,889,927, 6-9-59, Cl. 210-73.
- Van Oosten, Johan J. Alarm systems. 2,877,735, 3-17-59, Cl. 116-118.
- Van Oosterhout, Hendricus A., to N. V. Metallic Industry. Process for the electrolytic deposition of copper. 2,887,442, 5-19-59, Cl. 204-52.
- Van Oot, James G., to E. I. du Pont de Nemours and Co. Polyester or polyamide-manganous salt composition and process of preparing same. 2,887,462, 5-19-59, Cl. 260-40.
- Van Orden, Harold T. Pool table with coin-operated means to release balls to players. 2,909,260, 10-20-59, Cl. 194-78.
- Van Ordt, Jay H., to A. C. Weber & Co., Inc. Mechanism for raising and lowering sewing machine head. 2,903,314, 9-8-59, Cl. 312-29.
- Van Ormer, David D.: *See*—  
Epstein, David W., Kaus, and Van Ormer. 2,885,935.
- Van Ormer, David D., to Radio Corp. of America. Positive ion trap gun. 2,903,612, 9-8-59, Cl. 313-76.
- Van Ormer, Lawson, to Jones & Laughlin Steel Corp. Continuous treatment of metal strip. 2,897,698, 8-4-59, Cl. 80-60.
- Van Osch, John H. Apparatus for synchronizing sound with motion pictures. 2,901,939, 9-1-59, Cl. 88-16.2.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Indicator circuit arrangement. 2,870,310, 1-20-59, Cl. 219-10.77.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Amplification control of a transistor. 2,870,345, 1-20-59, Cl. 307-88.5.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Transistor amplifier having simultaneous gain and selectivity control. 2,890,293, 6-9-59, Cl. 179-171.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Transistor trigger circuit. 2,907,895, 10-6-59, Cl. 307-88.5.
- Van Overbeek, Adrianus J. W. M., to North American Philips Co., Inc. Device for maintaining mechanical oscillations. 2,909,732, 10-20-59, Cl. 331-116.
- Van Overbeek, Adrianus J. W. M., and J. T. A. van Lottum, to North American Philips Co., Inc. Transistor switching circuit. 2,890,353, 6-9-59, Cl. 307-88.5.
- Van Overbeek, Adrianus J. W. M., and H. Groendijk, to North American Philips Co., Inc. Memory tube. 2,916,662, 12-8-59, Cl. 315-12.
- Van Overveen, Joseph P.: *See*—  
Jurs, Peter C., and Van Overveen. 2,904,998.
- Jurs, Peter C., Van Overveen and Blake. 2,869,239.
- Van Patten, Charles D.: *See*—  
Upton, Ralph M., and Van Patten. 2,895,446.
- Van Patten, Eric M.: *See*—  
Evans, James W., and Van Patten. 2,916,405.
- Van Pee, Paul D., and L. P. Roosens, to Gavaert Photo-Producten N.V. Direct positive photographic material. 2,901,351, 8-25-59, Cl. 96-67.
- Van Pelt, Donovan E., to L. A. Darling Co. Display units and partition clip support. 2,885,091, 5-5-59, Cl. 211-184.
- Van Pool, Joe, to Phillips Petroleum Co. Process control method and apparatus. 2,881,235, 4-7-59, Cl. 260-683.48.
- Van Pool, Joe, to Phillips Petroleum Co. Alkylation temperature control by an improved products distillation technique. 2,905,735, 9-22-59, Cl. 260-683.4.
- Van Pool, Joe, to Phillips Petroleum Co. Hydrofluoric acid recovery from alkylation acid waste stream. 2,914,590, 11-24-59, Cl. 260-683.41.
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- Van Raamsdonk, Gerrit W., and J. Selman, to Shell Development Co. Composition comprising an alpha olefin and cetyl benzene. 2,917,479, 12-15-59, Cl. 260-33.6.
- Van Raay, Hans G., and U. Schwenk, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for separating olefinic hydrocarbons using silver fluoborate and silver fluosilicate solutions. 2,913,505, 11-17-59, Cl. 260-677.
- Van Rade, Evert. Outboard motor boat turn control means. 2,914,020, 11-24-59, Cl. 115-18.
- Van Ranst, Cornelius W. Gasoline engine. 2,875,745, 3-3-59, Cl. 123-195.
- Van Ranst, Cornelius W. Speed range drive unit. 2,879,871, 3-31-59, Cl. 192-104.
- Van Ranst, Cornelius W. Speed range drive unit. 2,879,872, 3-31-59, Cl. 192-104.
- Van Rijn, Jacobus C. Dynamo electric machine structure including bearing. 2,915,657, 12-1-59, Cl. 310-66.
- Van Rijssel, Tijs W., W. M. A. Boers, J. H. J. Maartens, J. R. Boerman, ad W. H. Kuhl, to North American Philips Co., Inc. Television camera tube. 2,887,595, 5-19-59, Cl. 313-65.
- Van Rijssel, Tijs W., and W. M. A. Boers, to North American Philips Co., Inc. Television camera tube. 2,887,596, 5-19-59, Cl. 313-65.
- Van Riper, Jurian W. Pull-through leader seal. 2,883,702, 4-28-59, Cl. 18-6.
- Van Rooyen, Baldeus: *See*—  
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- Van Ryan, Anthony, to McGraw-Edison Co. Arc extinguishing chamber. 2,886,673, 5-12-59, Cl. 200-150.
- Van Ryan, Anthony, and K. H. Date, to McGraw-Edison Co. Time delay device. 2,907,562, 10-6-59, Cl. 267-1.
- Van Sandwijk, Johannes: *See*—  
Bourgonjon, Louis R., and van Sandwijk. 2,901,598.
- Van Santen, Johannes G.: *See*—  
Diemer, Gesinus, and van Santen. 2,882,419.
- Van Schie, Robert J. Dispensing container for razor blades. 2,889,076, 6-2-59, Cl. 221-252.
- Van Scoy, Robert W., to Shell Development Co. Process for the preparation of greases gelled with non-soap gelling agents. 2,875,152, 2-24-59, Cl. 252-28.
- Van Sickle, Donald W.: *See*—  
Van Sickle, William C. and D. W. 2,915,113.
- Van Sickle, Dora C. Sequential switch. 2,875,287, 2-24-59, Cl. 200-5.
- Van Sickle, George A.: *See*—  
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- Van Sickle, Roswell C., to Westinghouse Electric Corp. Circuit breaker. 2,917,602, 12-15-59, Cl. 200-106.
- Van Sickle, William C. and D. W. Tire buffing machine. 2,915,113, 12-1-59, Cl. 157-13.
- Van Sickle, Wilton E. Enclosed medicament container and atomizer. 2,890,697, 6-16-59, Cl. 128-201.
- Van Sittert, Paul R., to The Rotor Tool Co. Tool for clinching hog rings. 2,867,808, 1-13-59, Cl. 1-187.
- Van Slooten, Louis J., to General Motors Corp. Self-contained type hydraulic valve lifter. 2,873,729, 2-17-59, Cl. 123-90.
- Van Steenis, Otto L.: *See*—  
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- Van Steyn, Gerard K., to Owens-Illinois Glass Co. Machine for performing work on glass ampuls. 2,878,619, 3-24-59, Cl. 49-1.
- Van Stone, Nathan E.: *See*—  
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- Van Story, David W.: *See*—  
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- Van Strien, Richard E., to Standard Oil Co. Resin derived from polyhydric alcohol, fatty oil, benzene tribasic acid and certain glycols. 2,870,102, 1-20-59, Cl. 260-22.



- Van Swaal, Josephus H., to Shell Development Co. Method and apparatus for flame hardening of rails and the like. 2,882,191, 4-14-59, Cl. 148—21.56.
- Vanta, John T., to Fairchild Engine and Airplane Corp. Auxiliary seal. 2,917,330, 12-15-59, Cl. 286—11.13.
- Van Thynne, Ray J.: *See—*  
Smith, Karl F., and Van Thynne. 2,886,431.
- Van Tillo, Francisus M., to Stamicarbon N. V. Press for separating material. 2,876,697, 3-10-59, Cl. 100—121.
- Vantine, Harry, Jr., and E. C. Johnson. Transponder-interrogator range-finder. 2,894,258, 7-7-59, Cl. 343—6.
- Vant, Leslie M.: *See—*  
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- Van Tol, Hendrikus J. M., to North American Philips Co., Inc. Electric discharge tube of the kind comprising a cathode of the indirectly heated type. 2,870,366, 1-20-59, Cl. 313—337.
- Van Tol, Martinus: *See—*  
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- Van Tuyl, John E.; said Van Tuyl, assor., to A. C. Mader. Liquid feeding apparatus. 2,874,719, 2-24-59, Cl. 137—604.
- Van Tuyl, Sidney. Universal collapsible transparency viewer. 2,872,844, 2-10-59, Cl. 88—29.
- Van Tuyl, Thomas K., to National Research Council. Apparatus for recording aggregate totals of measurements of parameters. 2,912,163, 11-10-59, Cl. 235—183.
- Van't Veld, Cecil W.: *See—*  
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- Van Twisk, Richard J.: *See—*  
Strickhouser, Sherman I., and Van Twisk. 2,917,749.
- Van Urk, Arend T., and J. M. Cluwen, to North American Philips Co., Inc. Magnetic circuits. 2,869,050, 1-13-59, Cl. 317—171.
- Van Valkenburg, Hermon L., to Square D Co. Plug-in relay. 2,881,286, 4-7-59, Cl. 200—104.
- Van Valkenburg, Howard E., and R. E. Sansom, to Sperry Products, Inc. Liquid level indicator. 2,883,861, 4-28-59, Cl. 73—290.
- Van Valkenburgh, Edward A. Reclaiming oil composition and method of making it. 2,908,676, 10-13-59, Cl. 260—97.5.
- Van Vechten, Richard K.: *See—*  
Adams, Robert T., and Van Vechten. 2,874,274.
- Van Vessem, Jan C.: *See—*  
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- Van Vessem, Jan C., to North American Philips Co., Inc. Method of making selenium rectifier. 2,894,314, 7-14-59, Cl. 29—25.3.
- Van Vick, Roger J., and L. E. Erickson, to Central Fibre Products Co. Process and machine for producing cartons. 2,905,065, 9-22-59, Cl. 93—37.
- Van Volkenburgh, Ross, to J. M. Huber Corp. Polyvinyl chloride resin-urea-clay composition and method of making same. 2,890,190, 6-9-59, Cl. 260—41.
- Van Voorhees, Harold E.: *See—*  
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- Van Voorhees, Harold E. Golf cart. 2,879,073, 3-24-59, Cl. 280—42.
- Van Voorhees, Harold E., to General Motors Corp. Automobile door latch. 2,916,318, 12-8-59, Cl. 292—280.
- Van Vorst, John. Swim trainer. 2,871,491, 2-3-59, Cl. 9—17.
- Van Wagenen, Norman L., and A. N. Lamph. Drain valve assembly for lawn sprinkler systems. 2,905,196, 9-22-59, Cl. 137—625.2.
- Van Wagner, Edward M., to Haloid Xerox Inc. Resist forming method. 2,919,179, 12-29-59, Cl. 41—43.
- Van Weenen, Francisus L.: *See—*  
Den Haan, José J. W., and Van Weenen. 2,916,119.
- Van Wicklin, Warren A., Jr.: *See—*  
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- Van Wilgen, Jacob, to North American Philips Co., Inc. Device for drawing sterilized liquids from a vessel. 2,897,837, 8-4-59, Cl. 137—591.
- Van Winkel, Carl E., and L. Click, to The Carwin Co. Electrolytic cell. 2,916,430, 12-8-59, Cl. 204—222.
- Van Winkle, Edgar W., to Bendix Aviation Corp. Magnetic amplifier. 2,883,613, 4-21-59, Cl. 323—89.
- Van Winkle, John L.: *See—*  
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- Van Winkle, John L., and R. C. Morris, to Shell Development Co. Preparation of 1-halophosphonic acids. 2,874,184, 2-17-59, Cl. 260—500.
- Van Winkle, John L., C. S. Bell, and R. C. Morris, to Shell Development Co. Preparation of organic compounds of trivalent phosphorus. 2,875,224, 2-24-59, Cl. 260—448.
- Van Winkle, John L., F. G. Bollo, and R. C. Morris, to Shell Development Co. Fuels for reaction motors. 2,915,875, 12-8-59, Cl. 60—35.4.
- Van Winkle, Quentin: *See—*  
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- Van Winkle, Quentin, to United States of America, Atomic Energy Commission. Separation process for protactinium and compounds thereof. 2,895,791, 7-21-59, Cl. 23—14.5.
- Van Winkle, Quentin, and K. A. Kraus, to United States of America, Atomic Energy Commission. Separation of polonium, protactinium or mixtures thereof in aqueous solution from bismuth, lead, zirconium and/or columbium values. 2,910,345, 10-27-59, Cl. 23—14.5.
- Van Winsen, Friedrich H., to Daimler-Benz Aktiengesellschaft. Leaf spring suspension for vehicles. 2,905,460, 9-22-59, Cl. 267—54.
- Van Wormer, William: *See—*  
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- Van Zanten, Pieter G.: *See—*  
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- Van Zijp, Antonius J., to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Device for discharging the quenched coke from an inclined discharging surface in a coking-plant. 2,892,552, 6-30-59, Cl. 214—17.
- Vapo-Gas Corp.: *See—*  
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- Vapor Heating Corp.: *See—*  
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Clarkson, Alick, and Parks. 2,899,247.  
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- Varadi, Louis E., to General Electric Co. Combination exhaust casing and shaft support for a turbine. 2,914,919, 12-1-59, Cl. 60—39.31.
- Varbel, Robert L. Adjustable rafter square. 2,908,080, 10-13-59, Cl. 33—93.
- Vard Products Inc.: *See—*  
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- Vardan, Ann H. Bottle holder. 2,893,672, 7-7-59, Cl. 248—102.
- Vardan, Ann H. Shoulder baby bottle holder. 2,907,539, 10-6-59, Cl. 248—104.
- Varekamp, Dirk C., to North American Philips Co., Inc. Magnetic filter. 2,876,902, 3-10-59, Cl. 210—223.
- Vargo, Frank J., to Jackes-Evans Mfg. Co. Amplifying member for pilot-operated valves. 2,870,986, 1-27-59, Cl. 251—45.
- Vargo, Paul: *See—*  
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- Varian Associates: *See—*  
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- Varian, Russell H.: *See—*  
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- Varley, John, to Skyline Products, Inc. Emergency signaling device. 2,874,292, 2-17-59, Cl. 250—36.
- Varnado, Randolph R., Sr. Forms or molds for constructing concrete steps. 2,880,491, 4-7-59, Cl. 25—118.
- Varner, Charles. Ignition cut-off switch. 2,914,628, 11-24-59, Cl. 200—61.47.
- Varner, Donald E., to Industrial Nucleonics Corp. Electrolytic plating apparatus and process. 2,895,888, 7-21-59, Cl. 204—28.
- Varner, Earl E.: *See—*  
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- Varner, Roy W., and J. W. Brown. Sewer clean-out tool. 2,897,524, 8-4-59, Cl. 15—104.3.
- Varner, Stuart L.: *See—*  
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- Varney, Gordon, to Varney Model Mfg. Co., Inc. Model railway truck. 2,915,988, 12-8-59, Cl. 105—197.
- Varney, Justin A. Dividing head. 2,908,192, 10-13-59, Cl. 74—813.
- Varney Model Mfg. Co., Inc.: *See—*  
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- Varnhagen, Stephen J., to The Reynolds Co. Women's garment. 2,900,643, 8-25-59, Cl. 2—221.
- Varnum, Richard O. Toy riding device. 2,898,107, 8-4-59, Cl. 272—53.2.
- Varo Mfg. Co., Inc.: *See—*  
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- Varrin, Albert, and E. G. Anderson, to S. N. Lewis. Door latch. 2,877,037, 3-10-59, Cl. 292—192.
- Varrone, Joseph. Device for loading and unloading cargo on trailers and trucks. 2,912,129, 11-10-59, Cl. 214—82.
- Varsa, Istvan: *See—*  
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- Vartanian, Richard D.: *See—*  
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- Varterasian, John H.: *See—*  
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- Varul, Ago, to Svenska Oljeslageri Aktiebolaget. Method for production of Werner type chromic compounds containing inorganic and organic radicals. 2,918,483, 12-22-59, Cl. 260—438.



- Varvaro, Alexander J., to The Firestone Tire & Rubber Co. Bead seating and inflating device for tubeless tires. 2,874,761, 2-24-59, Cl. 157-1.1.
- Varvaro, Henry R.: *See*—  
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- Vasalli, Renzo, to Gebrueder Buehler. Conveying apparatus for alimentary paste products and the like. 2,912,097, 11-10-59, Cl. 198-158.
- Vasan, Conjeevaram D. S., to Chemical Construction Corp. Removal of soot from acetylene gases. 2,894,603, 7-14-59, Cl. 183-121.
- Vasco Industries Corp.: *See*—  
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- Vasel, Alfred W., to Electronics Corp. of America. Radiation-responsive control circuits. 2,892,971, 6-30-59, Cl. 317-130.
- Vasey, Charles H.: *See*—  
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- Vasilevskis, Henry S., to Philco Corp. Electrical systems. 2,910,618, 10-27-59, Cl. 315-13.
- Vasquez, Sofanor. Artificial limbs. 2,870,453, 1-27-59, Cl. 3-26.
- Vasselli, Anthony J. Universal gear hobbing machine. 2,897,728, 8-4-59, Cl. 90-4.
- Vassil, Theo N., and F. C. Evans, to American District Telegraph Co. 2,871,466, 1-27-59, Cl. 340-233.
- Vastine Engineering Co., Inc.: *See*—  
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- Vaszin, Aurel. Amusement locomotive. 2,882,089, 4-14-59, Cl. 296-28.
- Vaterlaus, Bruno P.: *See*—  
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- Vaughan, Arthur H.: *See*—  
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- Vaughan, C. E.: *See*—  
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- Vaughan, Charles H. Steering mechanism for toys. 2,887,823, 5-26-59, Cl. 46-201.
- Vaughan, Charles S., Jr. Tweezer type wire stripping tool having an adjustable stop and stop latching means. 2,894,424, 7-14-59, Cl. 81-9.5.
- Vaughan, Frank C. Disposable toothbrushes. 2,915,767, 12-8-59, Cl. 15-167.
- Vaughan, George R.: *See*—  
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- Vaughan, Gerald L.: *See*—  
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- Vaughan, Henry E., to Bell Telephone Laboratories, Inc. Electrical circuits employing magnetic cores. 2,879,500, 3-24-59, Cl. 340-174.
- Vaughan, Henry E., to Bell Telephone Laboratories, Inc. Electrical impulse responsive network. 2,880,317, 3-31-59, Cl. 250-27.
- Vaughan, James L.: *See*—  
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- Vaughan, James L. B., T. W. Hislop, and D. H. Hanna, to Canadian Hanson and Van Winkle Co. Ltd. Sisal buff resin impregnation method. 2,890,136, 6-9-59, Cl. 117-143.
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- Vaughan, James R. M.: *See*—  
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- Vaughan, James R. M., to Electric & Musical Industries Ltd. Pulse generating circuits embodying magnetrons. 2,902,653, 9-1-59, Cl. 331-86.
- Vaughan, James R. M., and R. H. Bright, to Electric & Musical Industries Ltd. Magnetrons. 2,894,171, 7-7-59, Cl. 315-39.63.
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- Vaughan, Robert A.: *See*—  
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- Vaughan, Victor G. Thermostatic electric circuit-breakers. 2,891,124, 6-16-59, Cl. 200-122.
- Vaughan, Wayne W., V. J. Spotts, P. J. Candreva, and W. C. Jarrett. Adjustable, non-load-bearing partition construction. 2,904,991, 9-22-59, Cl. 72-46.
- Vaughan, William E.: *See*—  
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- Vaughn, Charles H. Portable wire reel holder. 2,896,877, 7-28-59, Cl. 242-86.5.
- Vaughn, Samuel C., to Tide Water Oil Co. Pour point reduction. 2,908,647, 10-13-59, Cl. 252-47.5.
- Vaughn, Sidney P. Sponge cleaning elements for mops. 2,899,698, 8-18-59, Cl. 15-244.
- Vaughn, Thomas H.: *See*—  
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- Vaught, Chapman K., and J. L. Myers, to The American Welding and Mfg. Co. Automatic brake slack adjuster. 2,886,145, 5-12-59, Cl. 188-200.
- Vaupel, Fred J. Tool guard for overall pockets. 2,887,139, 5-19-59, Cl. 150-52.
- Vaupell Industrial Plastics, Inc.: *See*—  
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- Vaupell, Leonard, Jr.: *See*—  
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- Vautrain, Lucien H., to Phillips Petroleum Co. Fractionation column control. 2,890,156, 6-9-59, Cl. 202-160.
- Valavides, Spears P., to United States of America, Atomic Energy Commission. Removal of uranium from organic liquids. 2,901,314, 8-25-59, Cl. 23-14.5.
- Vavassori, Angelo: *See*—  
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- Veale, Jack A. Ring fastener. 2,915,891, 12-8-59, Cl. 70-459.
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- Veeder, Lloyd N., to North American Aviation, Inc. Method of preparing surfaces for electroplating. 2,899,367, 8-11-59, Cl. 204-32.
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- Veeder-Root Ltd.: *See*—  
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- Veedip Ltd.: *See*—  
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- Veinot, William D., and C. Robinson, to McColl-Frontenac Oil Co. Ltd. Vacuum transfer of high density fluids. 2,903,010, 9-8-59, Cl. 137-205.
- Veitch, Albert H., and C. Bangert, Jr., to General Electric Co. Panelboard construction. 2,869,042, 1-13-59, Cl. 317-119.
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- Veitch, Leon U.: *See*—  
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- Veith, Adam, and A. Weisenburger. Plate shears. 2,908,076, 10-13-59, Cl. 30-227.
- Veith, Alfred K. Machine tool adjusting structure. 2,904,936, 9-22-59, Cl. 51-103.
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- Veith, Werner, to Siemens & Halske Akt. Reflex klystron-type electron tube. 2,881,350, 4-7-59, Cl. 315-5.19.
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- Velarde, Alonso. Needle guide for medical injections. 2,880,724, 4-7-59, Cl. 128-215.
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- Velasco Fernandez, Jesus. Automatic barrier for railway crossing. 2,899,545, 8-11-59, Cl. 246-127.
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- Velecky, Frank S., to International Telephone and Telegraph Corp. Punch and die for bending channel member. 2,884,985, 5-5-59, Cl. 153-21.
- Velepcek, Rudolph J. Coin receptacle. 2,903,183, 9-8-59, Cl. 232-4.
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- Velten, Edwin: *See*—  
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- Venable, Edward G. Ornamental curb. 2,912,792, 11-17-59, Cl. 47-33.
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- Vendetti, Frank J., to Scott & Williams, Inc. Knitting machine and method of knitting. 2,881,603, 4-14-59, Cl. 66-9.
- Venditty, Chester G., and E. L. Fleming, to Ford Motor Co. Roll resisting motor vehicle wheel suspension. 2,869,891, 1-20-59, Cl. 280-124.
- Venditty, Chester G., and K. G. Crawford, to Ford Motor Co. Tilting truck cab. 2,873,979, 2-17-59, Cl. 280-87.
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- Verbanc, John J.: *See*—  
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- Verbrugge, Joseph J., and D. E. Deford, to General Motors Corp. Fluid power steering control valve. 2,917,079, 12-15-59, Cl. 137-624.
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- Verdol, Joseph A.: *See*—  
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- Vergara, Samuel E. Piano lifting apparatus and turntable support. 2,904,308, 9-15-59, Cl. 254-8.
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- Vergnaud, Paul, and R. Niquet, to Les Usines de Melle (Societe Anonyme). Process for producing citric acid. 2,883,329, 4-21-59, Cl. 195-36.
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- Verley, Guy M., to Sinclair Refining Co. Oxidation inhibitor-detergent material. 2,916,448, 12-8-59, Cl. 252-32.7.
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- Vermette, Howard. Pipe cutters. 2,870,535, 1-27-59, Cl. 30-102.
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- Vermette, Lucien D. Vehicle door lights. 2,918,565, 12-22-59, Cl. 240-7.1.
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- Vermeulen, William, to General Electric Co. Push button switch with time delay slider. 2,878,329, 3-17-59, Cl. 200-5.
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- Vermilye, Charles J.: *See*—  
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- Vernco Corp.: *See*—  
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- Vernon, Herbert W.: *See*—  
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- Vernon, Lonnie W.: *See*—  
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- Vernon, Lonnie W., to Esso Research and Engineering Co. Method for maintaining catalytic activity. 2,916,444, 12-8-59, Cl. 208-217.
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- Verrinder, Ernest A., to Food Machinery and Chemical Corp. Crate lining machine. 2,871,773, 2-3-59, Cl. 93-36.01.
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- Versaw, Forrest F.: *See*—  
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- Veslock, Flavius P.: *See*—  
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- Vetter, William F., and B. G. Wanty, to Hazeltine Research, Inc. Distance-measuring apparatus. 2,881,422, 4-7-59, Cl. 343-14.
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- Viard, Marcel. Sprayer. 2,918,221, 12-22-59, Cl. 239-355.
- Vibber, Alfred W. Method and apparatus for plying strands. Re. 24,662, 6-30-59, Cl. 57-58.3.
- Vibber, Alfred W. Method of and apparatus for plying strands. 2,869,313, 1-20-59, Cl. 57-58.3.
- Vibber, Alfred W. Twisting spindle balloon control. 2,869,314, 1-20-59, Cl. 57-58.55.
- Vibber, Alfred W. Twisting spindle balloon control. 2,870,596, 1-27-59, Cl. 57-58.83.
- Vibber, Alfred W. Twisting spindle balloon control. 2,871,648, 2-3-59, Cl. 57-58.36.
- Vibber, Alfred W. Apparatus for and method of twisting and plying strands. 2,893,197, 7-7-59, Cl. 57-58.3.
- Vibro-Plus Corp.: *See*—  
Andersson, Karl O. B. 2,873,656.  
Andersson, Ture E. 2,868,094.  
Björkman, Anders A. V., Lindblad, and Planfeldt. 2,874,948.  
Nordegren, Sven-Ake. 2,881,620.
- Vic Mfg. Co.: *See*—  
Victor, Irving. 2,893,925.
- Vic Mfg. Co. Profit Sharing Trust: *See*—  
Victor, Irving. 2,910,137.
- Vicars, T. & T. Ltd.: *See*—  
Naylor, Joseph F. 2,869,483.  
Naylor, Joseph F. 2,908,234.  
Naylor, Joseph F., and Eaton. 2,908,235.  
Naylor, Joseph F., and Large. 2,870,898.  
Northmore, Raymond, and Naylor. 2,871,332.
- Vice, Ora E. Dial test indicator for lathes. 2,880,515, 4-7-59, Cl. 33-172.
- Vicki, Frederick: *See*—  
Lang, Paul, and Vicki. 2,889,181.
- Vick, Selmer E. Jig for positioning screw holes for the wedge receiver of a friction catch for doors. 2,874,598, 2-24-59, Cl. 77-62.
- Vickers-Armstrongs (Aircraft) Ltd.: *See*—  
Firman, Reginald A. 2,907,854.



- Vickers-Armstrongs (Engineers) Ltd.: See—  
Forsyth, George H., Wood, and Stevens. 2,895,512.
- Vickers-Armstrongs Ltd.: See—  
Kelly, John R. 2,892,384.  
Wood, George. 2,870,775.
- Vickers, Herbert H., to Esso Research and Engineering Co. Pump. 2,874,640, 2-24-59, Cl. 103-37.
- Vickers, Herbert H., and S. E. Jaros, to Esso Research and Engineering Co. Manufacturing thermoplastic pellets. 2,887,725, 5-26-59, Cl. 18-47.5.
- Vickers Inc.: See—  
Andrews, Rufus A. 2,899,609.  
Barrett, John S. 2,885,045.  
Behr, Joseph L. 2,892,092.  
Brown, Edward I. 2,879,745.  
Caldwell, Paul N. 2,881,871.  
Gardiner, Duncan B. 2,872,873.  
Gatwood, Edward H. 2,910,831.  
Hallman, Russell H. 2,894,458.  
Hudson, George A. 2,895,427.  
Keel, Adolf. 2,870,746.  
Klessig, Ernst F., and Pettibone. 2,880,674.  
Pettibone, Raymond B. 2,884,865.  
Pettibone, Raymond B. 2,910,944.  
Robinson, James, and Court. 2,918,902.  
Steinitz, Stephan. 2,907,947.  
Van Meter, Theodore. 2,916,041.
- Vickers, Paul T.: See—  
Bubniak, William C., and Vickers. 2,888,248.  
Collman, John S., Turunen, and Vickers. 2,890,024.
- Vickers, William R., to Georgia-Alabama Supply Co. Picker stick attachment. 2,897,845, 8-4-59, Cl. 139-154.
- Vickery, Ronald C.: See—  
Campbell, Neva L., and Vickery. 2,880,060.
- Vickery, Ronald C., to Horizons Inc. Production of food grade phosphoric acid. 2,885,266, 5-5-59, Cl. 23-165.
- Vickery, Ronald C., to Horizons Inc. Manufacture of dihydrogen phosphates. 2,899,292, 8-11-59, Cl. 71-41.
- Vickery, Ronald C., to Horizons Inc. Production of  $\text{Ca}(\text{H}_2\text{PO}_4)_2$ . 2,914,380, 11-24-59, Cl. 23-109.
- Vickers Ltd.: See—  
Scott, Harold E. B. 2,890,473.
- Vict.: Th. Engwall & Co.: See—  
Sjölund, Väinö V. 2,899,534.
- Victor Adding Machine Co.: See—  
Crampton, Gale W. 2,898,554.  
Crampton, Gale W., Barter, and Schuler. 2,918,657.
- Victor Chemical Works: See—  
Audrieth, Ludwig F. 8,880,099.  
Costello, James R., Jr., and Traise. 2,867,597.  
Ramsey, William M., and Kezerian. 2,917,528.  
Toy, Arthur D. F., and Cooper. 2,867,547.  
Toy, Arthur D. F., and Cooper. 2,867,610.  
Toy, Arthur D. F., Cooper, and Traise. 2,867,548.  
Toy, Arthur D. F., and McDonald. 2,878,255.  
Toy, Arthur D. F., and Rattenbury. 2,918,449.
- Victor Development Co.: See—  
McNeill, Alvin L. 2,897,674.  
Rexon, Lester. 2,907,890.
- Victor, Irving, to Vic Mfg. Co., and  $\frac{1}{2}$  to Butler Mfg. Co. Method and apparatus for reclaiming solvent from a cleansing wash. 2,893,925, 7-7-59, Cl. 202-46.
- Victor, Irving, to Vic Mfg. Co. Profit Sharing Trust. Method and apparatus for the recovery of solvent vapors. 2,910,137, 10-27-59, Cl. 183-4.3.
- Victor Mfg. & Gasket Co.: See—  
Kosatka, Thomas O. 2,868,566.  
Kosatka, Thomas O. 2,884,267.
- Victor Tool & Machine Corp.: See—  
Etzenhouser, John B., and Moriarty. 2,883,879.
- Victoreen, John A. Apparatus for the comparison of sources of radiation. 2,876,860, 3-3-59, Cl. 250-83.6.
- Victoria Machine Tool Co. Ltd.: See—  
Gronau, Hans. 2,905,063.
- Victory Container Corp.: See—  
Radin, Arthur, Raiken, and Shapiro. 2,904,789.
- Vidach, John B. Tie hanger. 2,889,934, 6-9-59, Cl. 211-13.
- Vidal, Antoine, and V. P. Mussio. Telephone call device. 2,892,897, 6-30-59, Cl. 179-90.
- Vidas, Charles: See—  
Subart, William. 2,900,141.
- Vidaver, Ronald B. Self-closing closure cap for collapsible containers. 2,913,152, 11-17-59, Cl. 222-335.
- Videen, Otis R., and D. C. Johnson, to Wood Conversion Co. Latexes and fabrics therefrom. 2,912,349, 11-10-59, Cl. 117-103.
- Videen, Otis R., and F. S. Bergstrom, to Wood Conversion Co. Latexes and fabrics therefrom. 2,912,350, 11-10-59, Cl. 117-103.
- Video Instruments Co., Inc.: See—  
Young, George V. 2,887,591.
- Vidmar, John P., to The M. A. Hanna Co. Conveyor belt idler. 2,869,716, 1-20-59, Cl. 198-230.
- Viebeck, Algot L. Lifting device. 2,868,502, 1-13-59, Cl. 254-93.
- Viecelli, Joseph L.: See—  
Jepson, Ivar, and Viecelli. 2,906,043.
- Viehmann, Paul: See—  
Neumann, Horst, Viehmann, and Hübner. 2,909,466.
- Viel, Edmond P. R. Sealing and metering attachment. 2,884,023, 4-28-59, Cl. 141-110.
- Vieli, Otto A., and P. A. Muller, to Cogepa Etablissement. Apparatus for the manufacture of a packing aid. 2,874,408, 2-24-59, Cl. 18-4.
- Vierk, Ernest R., and T. J. Smollett, to Sinclair Refining Co. Glycerol extract and water-based hydraulic fluid containing the same. 2,912,384, 11-10-59, Cl. 252-74.
- Vierk, Ernest R., and T. J. Karr, to Sinclair Refining Co. Lubricating compositions. 2,916,449, 12-8-59, Cl. 252-32.7.
- Vierling, Donald E. Liquid fertilizer. 2,869,996, 1-20-59, Cl. 71-29.
- Vierling, Donald E. Liquid fertilizer. 2,869,998, 1-20-59, Cl. 71-50.
- Vierling, Donald E. Purification of phenothiazine. 2,887,482, 5-19-59, Cl. 260-243.
- Vierling, Robert L. Model railway system. 2,872,879, 2-11-59, Cl. 104-149.
- Vierling, Robert L. Snaubed spring suspensions for vehicle wheels. 2,917,303, 12-15-59, Cl. 267-8.
- Viets, Charles W. Sound reproducing device. 2,867,389, 1-6-59, Cl. 242-55.11.
- Viets, Charles W. Prefabricated prehung door structure and trim molding and method of installing. 2,913,777, 11-24-59, Cl. 20-11.
- Vievering, Hans: See—  
Arenz, Matthias, and Vievering. 2,886,685.
- Viewlex, Inc.: See—  
Huff, Malvin. 2,898,993.  
Huff, Malvin, and Cassie. 2,874,497.
- Vifot, Stig O.: See—  
Kline, Harry E., and Vifot. 2,869,652.
- Vigna, Cesare L., N. E. Perkins, and P. H. R. Leygonie, to Per Vig Corp. Apparatus for molding refractory materials. 2,875,556, 3-3-59, Cl. 49-68.
- Vigne, Leo: See—  
Rizer, Floyd R. 2,894,086.
- Vignovich, Barney, to Phillips Petroleum Co. Converting metals-containing oils. 2,893,943, 7-7-59, Cl. 208-78.
- Vigor, Charles W.: See—  
Boegehold, Alfred L., and Vigor. 2,906,008.
- Vigor, William N. Pants hanger. 2,889,094, 6-2-59, Cl. 223-96.
- Vigorelli, Arnaldo. Embroidery stitching sewing machine. 2,906,219, 9-29-59, Cl. 112-158.
- Vigren, Sten D., and P. H. E. Claesson. Automatic service control system with fault recording. 2,873,322, 2-10-59, Cl. 179-175.2.
- Vigren, Sten D., P. H. E. Claesson, and R. A. Zander. Polarized electromagnetic control devices. 2,902,563, 9-1-59, Cl. 200-93.
- Vigren, Sten D., E. A. Angerby, W. O. W. Broberg, and R. A. Zander. Contact spring set. 2,911,508, 11-3-59, Cl. 200-166.
- Vigren, Sten D., W. O. W. Broberg, and R. A. Zander. Switch group. 2,913,551, 11-17-59, Cl. 200-104.
- Viking Corp., The: See—  
Rider, Frank A., and Stanton. 2,877,978.
- Viking Tool & Machine Corp., The: See—  
Dowd, Archie J. 2,907,427.
- Viland, Clare K., to Tidewater Oil Co. Manufacture of anti-knock gasoline. 2,880,164, 3-31-59, Cl. 208-96.
- Vilbig, Friedrich, to United States of America, Air Force. Frequency band transformer. 2,883,465, 4-21-59, Cl. 179-15.55.
- Vilbig, Friedrich, to United States of America, Air Force. Signal transmission. 2,902,543, 9-1-59, Cl. 179-15.55.
- Viles, Prentiss S., to Esso Research and Engineering Co. Circulatory process for treatment of hydrocarbons within situ production of hydrogen. 2,882,216, 4-14-59, Cl. 208-60.
- Viles, Prentiss S., to Esso Research and Engineering Co. Conversion of methane to produce hydrogen sulfide. 2,887,363, 5-19-59, Cl. 23-181.
- Viles, Prentiss S., to Esso Research and Engineering Co. Production of aromatics from paraffin hydrocarbons. 2,900,427, 8-18-59, Cl. 260-673.
- Viles, Prentiss S., to Esso Research and Engineering Co. Method of making hydrogen. 2,911,288, 11-3-59, Cl. 23-212.
- Viles, Prentiss S., to Esso Research and Engineering Co. Production of gas. 2,911,293, 11-3-59, Cl. 48-206.
- Villadsen, Niels. Manure loader. 2,913,097, 11-17-59, Cl. 198-9.
- Villani, Frank J., to Schering Corp. Phenyl, (2-pyridyl) propane derivatives. 2,898,338, 8-4-59, Cl. 260-290.
- Villani, Lazzaro V. Box toe heating device. 2,908,023, 10-13-59, Cl. 12-1.
- Villar, Luis F.: See—  
Greenleaf, Francis D., Meyer, and Villar. 2,911,470.
- Villars, Claude P., to Bell Telephone Laboratories, Inc. Encoder for pulse code modulation. 2,876,418, 3-3-59, Cl. 332-1.
- Villars, Julio. Lifting appliance. 2,868,331, 1-13-59, Cl. 187-17.
- Villemont, Jules A. Apparatus for and method of transporting and stacking sheets of material. 2,886,929, 5-19-59, Cl. 53-164.
- Villepigue, Julius G., and E. Schmued, to Northrop Aircraft, Inc. Friction type fuse device. 2,869,464, 1-20-59, Cl. 102-49.
- Villepigue, Julius G., to Northrop Aircraft, Inc. Rocket fuse. 2,869,465, 1-20-59, Cl. 102-70.2.



- Vilter Mfg. Co., The: *See*—  
Kocher, Erich J. 2,867,098.  
Long, Joseph N. 2,909,042.
- Villiers, Joseph B., Jr., and R. E. Luck, to United States of America. Air Force. Static instrument system test adapter. 2,897,669, 8-4-59, Cl. 73-4.
- Villmann, Walter, A. Scharpf, and M. Ragaller, to Siemens & Halske Akt. Circuit arrangement for governing the operation of key-controlled telephone switching apparatus. 2,891,114, 6-16-59, Cl. 179-90.
- Villoresi, Camillo, to Società per Azioni Fabbriche Fiammiferi ed Affini. Method of making cushioning paper. 2,896,692, 7-28-59, Cl. 154-33.05.
- Villoresi, Camillo, to Società per Azioni Fabbriche Fiammiferi Ed Affini. Method and machine for making composite packing paper. 2,916,080, 12-8-59, Cl. 154-31.
- Villoresi, Camillo, to Società per Azioni Fabbriche Fiammiferi ed Affini. Composite packing paper. 2,916,411, 12-8-59, Cl. 154-55.
- Vilter Mfg. Co., The: *See*—  
Kocher, Erich J., and Grant. 2,891,391.  
Kocher, Erich J., and Tomkowiak. 2,897,675.
- Vimonta Internationale Handelsgesellschaft: *See*—  
Longert, Christian L. 2,888,696.
- Vinatzter, Ernst: *See*—  
Ryba, Anton. 2,893,528.
- Vincelette, Anthony L. Convertible mobile golf bag. 2,868,559, 1-13-59, Cl. 280-47.33.
- Vincent, David A. Horizontal silo construction. 2,870,491, 1-27-59, Cl. 20-14.
- Vincent, Harvard B.: *See*—  
Henry, Kenneth M., and Vincent. 2,874,017.
- Vincent, Harvard B., to Owens-Illinois Glass Co. Method of attaching metal brackets to glass. 2,878,623, 3-24-59, Cl. 49-81.
- Vincent, Harvard B., to Owens-Illinois Glass Co. Glass-to-metal seals in cathode-ray tubes. 2,899,575, 8-11-59, Cl. 313-64.
- Vincent, Harvard B., to Owens-Illinois Glass Co. Full vision cathode ray tubes. 2,905,845, 9-22-59, Cl. 313-78.
- Vincent, Louis C., 50% to G. A. Rubissow. Fluid-testing device. 2,886,771, 5-12-59, Cl. 324-30.
- Vincent, Merrill D.: *See*—  
Van Amburg, William F., and Vincent. 2,894,469.
- Vincent, Renic P., to Pan American Petroleum Corp. Solids injection into pressure system. 2,907,480, 10-6-59, Cl. 214-17.
- Vincent, Renic P., and E. R. Jennings, to Pan American Petroleum Corp. Free piston pump. 2,884,861, 5-5-59, Cl. 103-52.
- Vincent, William R.: *See*—  
Puls, Lawrence V., and Vincent. 2,916,401.
- Vincent, William W.: *See*—  
Fishtahler, Vernon F., and Vincent. 2,910,147.
- Vinco Corp.: *See*—  
Osplack, Joseph J. 2,907,314.  
Smith, Clifford B. 2,899,516.
- Vincraft Inc.: *See*—  
Franco, Vincent B. 2,873,352.
- Vinceze, Irén W.: *See*—  
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- Vinding, Jorgen P., to Monogram Precision Industries, Inc. Microwave impedance plotter. 2,876,416, 3-3-59, Cl. 324-58.
- Vineberg, Joseph H. Packaging means. 2,891,715, 6-23-59, Cl. 229-52.
- Vineberg, Joseph H. Package structure. 2,901,160, 8-25-59, Cl. 229-40.
- Vineland Poultry Laboratories: *See*—  
Seltzer, William. 2,915,400.
- Vinella, Frank P. Floor surfacing machine. 2,913,855, 11-24-59, Cl. 51-177.
- Vines, Oscar L., to Alford Cartons. Collapsible cellular carton. 2,872,096, 2-3-59, Cl. 229-28.
- Vines, Oscar L., to Continental Paper Co. Carton. 2,875,937, 3-3-59, Cl. 229-16.
- Vines, Oscar L., to Continental Paper Co. Carton. 2,895,662, 7-21-59, Cl. 229-28.
- Vines, Oscar L., to Continental Paper Co. Cellular carton. 2,900,121, 8-18-59, Cl. 229-28.
- Vines, Oscar L., to Continental Paper Co. Carton. 2,901,155, 8-25-59, Cl. 229-16.
- Vines, Oscar L., to Continental Paper Co. Berry tray. 2,901,156, 8-25-59, Cl. 229-16.
- Vines, Oscar L., to Continental Paper Co. Carton. 2,907,510, 10-6-59, Cl. 229-16.
- Vines, Stanley V.: *See*—  
Daniel, Kenneth R., Patton, and Vines. 2,873,716.
- Vingerhoets, Antonius W. Luminescent screen. 2,882,413, 4-14-59, Cl. 250-80.
- Vingin, Stanley W. Automobile safety device. 2,918,543, 12-22-59, Cl. 200-51.
- Vinicky, Benedict M.: *See*—  
Hawkins, Harold V., Davis, Mahar, and Vinicky. 2,892,601.
- Vink, Jacobus: *See*—  
Auer, Willem U., Groothuis, Hendal, and Vink. 2,894,371.
- Vinš, Jindřich. Plain bearing. 2,909,396, 10-20-59, Cl. 308-121.
- Vinson, Thomas L.: *See*—  
Buslik, Walter S., and Vinson. 2,919,076.
- Vinton, William H., to E. I. du Pont de Nemours and Co. Process for the preparation of polyesters including alkyl benzoylbenzoate. 2,890,205, 6-9-59, Cl. 260-63.
- Vintschger, Francis, to United States of America, Navy. Buoyant marker for aerial tow target. 2,903,717, 9-15-59, Cl. 9-9.
- Viohl, Paul, to United States Rubber Co. Vulcanization of butyl rubber with 2,2'-methylene-bis-(4-chloro-6-methylol-phenol). 2,918,448, 12-22-59, Cl. 260-43.
- Viola, Angelo: *See*—  
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- Viola, Gilbert A., Jr. Sliding door track. 2,877,511, 3-17-59, Cl. 20-19.
- Viola, Matthew J.: *See*—  
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- Viola, Pauline, 20% to M. J. Viola, 20% to A. Viola, 20% to R. Viola, and 20% to C. Pesklo. Window cleaning device. 2,876,480, 3-10-59, Cl. 15-232.
- Viola, Rosalie: *See*—  
Viola, Pauline. 2,876,480.
- Virbila, William C., to The Bristol Co. Fluid pressure ratio controller and control system. 2,880,742, 4-7-59, Cl. 137-82.
- Virden, William L., and R. B. Yankee. Fresh fruit dispenser. 2,880,598, 4-7-59, Cl. 62-291.
- Virginia-Carolina Chemical Corp.: *See*—  
Allen, George J., and Parsons. 2,903,393.  
Burger, Alfred. 2,917,533.  
Harowitz, Charles L. 2,903,475.  
Heinrichs, Charles E. 2,903,131.  
Jenkins, Leslie H., and Sears. 2,873,171.
- Virginia Plastics and Chemical Co., Inc.: *See*—  
Bogese, Stephen B. 2,894,056.
- Viriot, Jacques, to Solvay & Cie. Process for the thermal chlorination of hydrocarbons. 2,898,384, 8-4-59, Cl. 260-658.
- Virkus, Robert M.: *See*—  
Anthony, Myron L., and Virkus. 2,906,612.
- Virmond, Alexander. Perfumed-smoke producing bodies. 2,889,659, 6-9-59, Cl. 46-9.
- Viscardi, Bruno: *See*—  
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- Vischer, Alfred, Jr. Multiple fuse and method of manufacture. 2,898,424, 8-4-59, Cl. 200-125.
- Vischer, Alfred, Jr.,  $\frac{30}{100}$  to W. Vischer,  $\frac{30}{100}$  to A. Vischer, III,  $\frac{20}{100}$  to P. Vischer,  $\frac{30}{100}$  to W. W. Zitzewitz,  $\frac{30}{100}$  to E. K. Zitzewitz,  $\frac{30}{100}$  to G. J. Zitzewitz,  $\frac{30}{100}$  to B. O. Zitzewitz, and  $\frac{30}{100}$  to G. V. Bonton. Pressurized vessel. 2,904,212, 9-15-59, Cl. 220-25.
- Vischer, Alfred, III: *See*—  
Vischer, Alfred, Jr. 2,904,212.
- Vischer, Ernst: *See*—  
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- Vischer, Peter: *See*—  
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- Vischer, William: *See*—  
Vischer, Alfred, Jr. 2,904,212.
- Visco, Louis, and F. P. Benz. Self-loading truck. 2,906,419, 9-29-59, Cl. 214-302.
- Visco Products Co.: *See*—  
Kirkpatrick, Willard H. 2,875,157.  
Kirkpatrick, Willard H. 2,881,204.  
Kirkpatrick, Willard H. 2,900,350.  
Kirkpatrick, Willard H., and Seale. 2,875,128.  
Kirkpatrick, Willard H., and Seale. 2,884,459.  
Kocher, Earl T. 2,911,434.
- Viscolosi, Louis. Weather strip for swinging double doors. 2,894,297, 7-14-59, Cl. 20-65.
- Visconti, Otto. Scissors. 2,873,526, 2-17-59, Cl. 30-254.
- Visher, Ernst: *See*—  
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- Visirecord, Inc.: *See*—  
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- Visockis, Vincent E., Jr. Extended level light. 2,877,555, 3-17-59, Cl. 33-73.
- Visos, Charles D.: *See*—  
Huck, Alfred J., and Visos. 2,898,842.
- Visscher, Jan H.: *See*—  
Vossnack, Ernst, and Visscher. 2,916,429.
- Visser, Bertus: *See*—  
Mulders, Cornelis E., and Visser. 2,894,626.
- Vissing, Ellinn D. Cigarette lighters. 2,909,914, 10-27-59, Cl. 67-7.
- Vissing, Royal A. Cant-indicating mechanism. 2,876,546, 3-10-59, Cl. 33-50.
- Vissing, Royal A. Clutch and automatic torsional shock absorber. 2,888,119, 5-26-59, Cl. 192-68.
- Vistain, James E., Jr., to Admiral Corp. Phonograph record player control. 2,868,545, 1-13-59, Cl. 274-10.
- Vistain, James E., Jr., to Admiral Corp. Automatic record player mechanism. 2,868,547, 1-13-59, Cl. 274-15.
- Vistain, James E., Jr., to Admiral Corp. Phonograph record player trip mechanism. 2,898,111, 8-4-59, Cl. 274-1.
- Vistain, James E., Jr., to Admiral Corp. Pivoted post changer. 2,898,114, 8-4-59, Cl. 274-10.
- Vistain, James E., Jr. Phonograph record player mechanism. 2,898,117, 8-4-59, Cl. 274-105.
- "Visual" Plant Layouts Inc.: *See*—  
Dasey, Homer H. 2,907,122.
- Vitale, Peter T., to Colgate-Palmolive Co. Detergent composition. 2,867,585, 1-6-59, Cl. 252-135.



- Vitalis, Emil A.: *See*—  
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Cardaciotto, Paul S., and Vitalis. 2,871,158.  
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- Vitalis, Emil A., to American Cyanamid Co. Anti-soil re-deposition agents. 2,874,124, 2-17-59, Cl. 252-110.
- Vitalis, Emil A., to American Cyanamid Co. Polyglycol-poly-acid ester treatment of textiles. 2,917,410, 12-15-59, Cl. 117-138.8.
- Vitalis, Emil A., and F. L. Andrew, to American Cyanamid Co. Hydrocarbon fuels containing sulfonate antifreeze compositions. 2,886,422, 5-12-59, Cl. 52-5.
- Vitalis, Emil A., and F. L. Andrew, to American Cyanamid Co. Hydrocarbon fuels containing betaine antifreeze compositions. 2,886,423, 5-12-59, Cl. 52-5.
- Vitalis, Emil A., and F. L. Andrew, to American Cyanamid Co. Liquid fuel compositions. 2,917,378, 12-15-59, Cl. 52-5.
- Vitamins Ltd.: *See*—  
Mamalis, Patrick, McHale, and Stevens. 2,908,713.
- Vitarama Corp.: *See*—  
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Buntenbach, Rudolph W. 2,919,403.  
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- Vitvands, Walter A., to Second Bank-Street Trust Co. Manufacture of neutral stannous salts. 2,868,623, 1-13-59, Cl. 23-98.
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- Vitu, James E., to Weil Pump Co. Float-actuated electric switches. 2,878,335, 3-17-59, Cl. 200-84.
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- Vivian, Lloyd R., Jr.: *See*—  
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Malek, Georg. 2,918,854.
- Vodicka, Vincent: *See*—  
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- Vodicka, Vincent, to General Electric Co. Electric discharge lamp and manufacture thereof. 2,892,956, 6-30-59, Cl. 313-109.
- Vodonik, Joseph L., to Industrial Rayon Corp. Method of heating a filament to produce a metal coating in a decomposable gas plating process. 2,877,138, 3-10-59, Cl. 117-93.
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- Voegeli, Henry E., to The American Brass Co. Metal wall construction. 2,901,063, 8-25-59, Cl. 189-34.
- Voegeli, Wendelin L.: *See*—  
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- Voegtlen, Dieter, to Siemens and Halske Akt. Testing electrical circuits for ambiguity and completeness. 2,902,642, 9-1-59, Cl. 324-51.
- Voegtli, Walter, to G. D. Searle & Co. Basic amides of 3-thianaphthencarboxylic acid. 2,876,235, 3-3-59, Cl. 260-330.5.
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- Voeks, Orville A. Electric cable staple. 2,901,200, 8-25-59, Cl. 248-74.
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- Voell, Louis A., 1/2 to S. Gallagher. Telephone device. 2,907,827, 10-6-59, Cl. 179-1.
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- Vogdt, Kurt D. O., to W. Bahlsen. Apparatus for distributing pasty material. 2,876,039, 3-3-59, Cl. 299-63.
- Vogel, Alvin R.: *See*—  
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- Vogel, Alvin R. Controllably expandable and removable fastener. 2,872,838, 2-10-59, Cl. 85-2.
- Vogel, Arnold: *See*—  
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- Vogel, Arthur E., 1/2 to Dawson-Vogel Engineering Co., 1/4 to F. Fultz, and 1/4 to W. H. F. Schmieding. Stabilizing apparatus for vehicles. 2,886,342, 5-12-59, Cl. 280-112.
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- Vogel, Charles B., to Shell Development Co. Hydrophone detector. 2,915,738, 12-1-59, Cl. 340-17.
- Vogel, Charles J., to Uarco Inc. Adjustable feed mechanism for an autographic register. 2,884,263, 4-28-59, Cl. 282-15.
- Vogel, Clarence E.: *See*—  
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- Vogel, Henry A.: *See*—  
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- Vogel, Henry A., to Pittsburgh Plate Glass Co. System for coating metals with polyurethane resins. 2,910,381, 10-27-59, Cl. 117-75.
- Vogel, Henry A., and H. G. Bittle, to Pittsburgh Plate Glass Co. Coating composition comprising a vinyl halide polymer and an aldehyde-reacted polymer of acrylamide and metallic surface coated therewith. 2,870,116, 1-20-59, Cl. 260-45.5.
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- Vogel, Lee C.: *See*—  
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- Vogel, Leo G. Apparatus for coating and conveying dough-nuts. 2,878,776, 3-24-59, Cl. 118-24.
- Vogel, Leo G. Apparatus for washing conveyors and the like. 2,881,463, 4-14-59, Cl. 15-302.
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- Vogel, Ludwig: *See*—  
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- Vogel, Milton C.: *See*—  
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- Vogel, Norman A., to International Business Machines Corp. Air head. 2,886,651, 5-12-59, Cl. 179-100.2.
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- Vogel, Paul W., and N. A. Meinhardt, to The Lubrizol Corp. Preparation of phosphorodithioate triesters. 2,900,406, 8-18-59, Cl. 260-461.
- Vogel-Peterson Co.: *See*—  
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- Vogel, Raimund, and K. Mohler. Preparation of protein products from fish materials. 2,875,061, 2-24-59, Cl. 99-7.
- Vogel, Ralph A. Apparatus for supplying additives to lubricating system. 2,898,902, 8-11-59, Cl. 123-196.
- Vogel, Reinhard E. Process for the manufacture of cast resins of urea-formaldehyde and the like, and resins so produced. 2,915,503, 12-1-59, Cl. 260-70.
- Vogel, Richard, to VEB Schlepperwerk Nordhausen. Hydraulic distributor. 2,911,006, 11-3-59, Cl. 137-622.
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- Vogel, Rudolf T., to Gutehoffnungshutte Sterkrade Akt. Tor-sion pit prop. 2,890,854, 6-16-59, Cl. 248-356.
- Vogel, Vernon H., to Robertshaw-Fulton Controls Co. Elec-tro-mechanical position indicator system. 2,886,750, 5-12-59, Cl. 318-16.
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- Vogel, William K. and M. C., to Santa Anita Mfg. Co. Spiral type pump means. 2,885,967, 5-12-59, Cl. 103-149.
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- Vogeli, Harry, to Salem-Brosius, Inc. Mechanism for handling elongated articles. 2,880,844, 4-7-59, Cl. 198-26.
- Vogelsang, Donald R.: *See—*
- Manis, Peter, and Vogelsang. 2,888,058.
- Vogelsang, Hans-Günther: *See—*
- Poschner, Hans, and Vogelsang. 2,877,397.
- Vogl, Georg: *See—*
- Tacklind, Sven M., and Vogl. 2,895,372.
- Vogl, Georges J., to Svenska Akkumulator Aktiebolaget Junger. Plane indicators. 2,905,047, 9-22-59, Cl. 88-14.
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- Vogler, Richard S. Crash pads for vehicle seat backs. 2,867,266, 1-6-59, Cl. 155-188.
- Vogler, Seymour: *See—*
- Beederman, Morris, Vogler, and Hyman. 2,894,818.
- Voglesong, Clyde G.: *See—*
- Kertell, Frank W. 2,904,153.
- Voglesonger, Harry M., and M. Diamond, to The Silex Co. Beverage brewing apparatus. 2,887,036, 5-19-59, Cl. 99-289.
- Vogt, Clarence W. Method and apparatus for preventing slippage of tape rolls and resulting product. 2,867,317, 1-6-59, Cl. 206-59.
- Vogt, Clarence W. Enwrapments for plastic and like substances. 2,870,023, 1-20-59, Cl. 99-179.
- Vogt, Clarence W. Method and equipment for measuring predetermined quantities of compacted comminuted materials or the like. 2,879,809, 3-31-59, Cl. 141-12.
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- Vogt, Clarence W. Packages and packaging. 2,908,383, 10-13-59, Cl. 206-65.
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- Vogt, Hans. Alkaline accumulator. 2,903,496, 9-8-59, Cl. 136-6.
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- Thiel, Alfons. 2,912,718.
- Vogt, Richard, to Aerophysics Development Corp. Device for decelerating the sinking speed of a dropped load. 2,872,138, 2-3-59, Cl. 244-138.
- Vogt, Theodore B. H. Crayon holders. 2,870,740, 1-27-59, Cl. 120-1.
- Vogt, Wilhelm: *See—*
- Sennewald, Kurt, Pohl, Vogt, Meininger, Meyer, Glaser, and Steil. 2,918,141.
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- Vogt, William. Metal wool holder. 2,885,707, 5-12-59, Cl. 15-209.
- Vogtmann, Frank L., and G. B. Stitzel. Exercising table. 2,886,028, 5-12-59, Cl. 128-25.
- Vohland, Marion G. Celestial fix plotter. 2,916,207, 12-8-59, Cl. 235-61.
- Voigt, Albert G. Power shovel. 2,879,611, 3-31-59, Cl. 37-50.
- Voigt, Bernhard F. Supercharging and compensating hydraulic pressure generator. 2,870,607, 1-27-59, Cl. 60-54.6.
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- Grebner, Fritz. 2,899,537.
- Voigt, Herbert L., and R. N. Sellon, Jr., to Arvin Industries, Inc. Supports for ironing tables. 2,892,273, 6-30-59, Cl. 38-121.
- Voigt, Jan L.: *See—*
- Levison, Robert, and Voigt. 2,867,004.
- Voigt, Johnston S.: *See—*
- Kishline, Floyd F., and Voigt. 2,876,018.
- Voigt, Max T. Presser foot for sewing machines. 2,887,969, 5-26-59, Cl. 112-235.
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- Voigt, Woldemar: *See—*
- Scarborough, Robert W., and Voigt. 2,874,537.
- Voigt, Woldemar. Vaneless diffuser for radial flow machines. 2,898,031, 8-4-59, Cl. 230-127.
- Voigtlander Aktiengesellschaft: *See—*
- Faulhaber, Fritz. 2,879,691.
- Faulhaber, Fritz. 2,890,637.
- Faulhaber, Fritz. 2,913,969.
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- Meixner, Alfred. 2,907,255.
- Meixner, Alfred, and Sommer. 2,890,639.
- Naumann, Helmut. 2,903,952.
- Naumann, Helmut, and Tronnier. 2,906,185.
- Sewig, Rudolf F. 2,917,981.
- Van der Mel, Wietse H. 2,871,775.
- Voigtman, Edward H., to Kimberly-Clark Corp. Disposable absorbent pad. 2,896,626, 7-28-59, Cl. 128-287.
- Voigtman, Edward H., to Kimberly-Clark Corp. Plastic film product. 2,897,109, 7-28-59, Cl. 154-50.
- Voit, Heinrich: *See—*
- Schirmer, Robert, Voit, Hartmann, König, Thumult, and Ziemer. 2,910,423.
- Voit, William F., Jr.: *See—*
- Milroy, Philip R., and Voit. 2,909,184.
- Voith, J. M., G. m. b. H., Maschinenfabrik: *See—*
- Baer, Wolfgang. 2,902,966.
- Franz, Günther. 2,872,891.
- Hanselmann, Karl. 2,902,946.
- Kugel, Fritz K. 2,875,581.
- Müller, Wilhelm H. 2,890,149.
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- Volckening, Lloyd I., J. R. O'Meara, and F. J. Lefebvre, to Ivers-Lee Co. Package with removable indicia-bearing sheet. 2,877,893, 3-17-59, Cl. 206-47.
- Volcov, Vittorio. Electric apparatus of automatically pulsating action for preparing infusions through distillation. 2,881,692, 4-14-59, Cl. 99-300.
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- Voldrich, Constantine B., and G. M. McClure, to Texas Eastern Transmission Corp. Welded branch connection with shrunk-on reinforcing sleeve. 2,916,308, 12-8-59, Cl. 285-45.
- Voles, Roger: *See—*
- Spencer, Rolf E., and Voles. 2,883,110.
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- Volf, Charles. Electric arc initiating and stabilizing apparatus. 2,898,516, 8-4-59, Cl. 315-170.
- Volk, Charles E. Building construction. 2,903,752, 9-15-59, Cl. 20-1.13.
- Volk, Joseph, to National Gypsum Co. Pressure hydrated lime. 2,902,346, 9-1-59, Cl. 23-188.
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- Volk, Joseph A., to Mandrel Industries, Inc. Stick force transducer. 2,888,635, 5-26-59, Cl. 323-51.
- Volkert, Erich: *See—*
- Haase, Otto, and Volkert. 2,918,987.
- Volkhausen, Clemens, to Schloemann Aktiengesellschaft. Mounting for backing rolls. 2,909,088, 10-20-59, Cl. 80-38.
- Volkmann, Ronald J.: *See—*
- Tate, Roger W., and Volkmann. 2,904,263.
- Volkswagenwerk G.m.b.H.: *See—*
- Kales, Josef, and A. Grotewohl. 2,893,724.
- Voll, Siegfried: *See—*
- Knoll, Karl, Rotter, and Voll. 2,887,764.
- Vollbrecht, Justus T., and M. S. Umbenhauer. Compensated water level indicator. 2,870,635, 1-27-59, Cl. 73-299.
- Vollenschier, Fritz, to International Standard Electric Corp. Circuit arrangement for telecommunication systems, in particular telephone systems. 2,878,320, 3-17-59, Cl. 179-18.
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- Vollmann, Heinrich: *See—*
- Baumann, Fritz, Bienert, Vollmann, and Rosch. 2,897,039.
- Vollmer, Earl C., to Midwest Mfg. Co. Gasket. 2,899,720, 8-18-59, Cl. 20-69.
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- Nelson, John A., Jr., and Vollmer. 2,879,177.
- Vollink, Willard L., to General Foods Corp. Process of producing a candy coated cereal. 2,868,647, 1-13-59, Cl. 99-83.
- Vollrath Co., The: *See—*
- Loeffler, Robert W. 2,890,595.
- Volochine, Theodore. Pyrometer. 2,911,456, 11-3-59, Cl. 136-4.
- Voloshin, Albert. Collapsible table with folded top. 2,878,086, 3-17-59, Cl. 311-78.
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- Volpert, Ludger, to J. Rochat. Spark generating device. 2,881,703, 4-14-59, Cl. 102-86.5.
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- Volpin, Alexander S. Automatic lubricated plug valve. 2,891,566, 6-23-59, Cl. 137-246.12.
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- Robertson, Jack B., and Volpone. 2,899,483.
- Voltz, Jacques: *See—*
- Bossard, Werner, Voltz, and Favre. 2,883,373.
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- Voltz, Sterling E., to Houdry Process Corp. Process for dehydrocyclizing heterocyclic organic compounds. 2,886,573, 5-12-59, Cl. 260—319.
- Voltz, Sterling E., J. H. Krause, and W. E. Erner, to Houdry Process Corp. Preparation of heterocyclic compounds. 2,891,965, 6-23-59, Cl. 260—319.
- Volz, Robert A.: *See*—  
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- Vonada, Phillip A. Multi-purpose lapidary device. 2,909,169, 10-20-59, Cl. 125—13.
- Von Almen, Russell S., and C. H. Leathers, to MacClatchie Mfg. Co. High pressure pump valve. 2,898,082, 8-4-59, Cl. 251—333.
- Von Ardenne, Manfred, to VEB Vakutronik Dresden. Electron-optical device. 2,886,728, 5-12-59, Cl. 313—84.
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- Von Arx, P., & Co. A.G.: *See*—  
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- Von Arx, Paul, to P. von Arx & Co. A.G. Street-cleaning machine. 2,911,737, 11-10-59, Cl. 37—43.
- Von Bank, Georg: *See*—  
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- Von Bomhard, Franz J., and K. Fädler, to Fichtel & Sachs A.G. Bearing arrangement for centrifugal and axially engaging clutches. 2,901,073, 8-25-59, Cl. 192—48.
- Von Bomhard, Franz-Josef, to Fichtel & Sachs A.G. Revolution switch. 2,918,545, 12-22-59, Cl. 200—80.
- Von Bovert, Ernst. Crankshaft forging apparatus. 2,911,705, 11-10-59, Cl. 29—6.
- Von der Crone, Carl, & Co.: *See*—  
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- Vonderschmitt, Bernard V.: *See*—  
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- Vonderschmitt, Bernard V., to Radio Corp. of America. Adjustable voltage supplies. 2,867,750, 1-6-59, Cl. 315—22.
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- Vondran, Daniel J., to Webcor, Inc. Motor speed changer. 2,895,341, 7-21-59, Cl. 74—199.
- Von Fange, Arthur W.: *See*—  
Juvinall, Robert C., and von Fange. 2,877,137.
- Von Frantz, Peter, to Hercules Gas-Munitions Corp. Pistol. 2,880,543, 4-7-59, Cl. 42—1.
- Von Friedrich, Adolf, K. Legrand, P. Schmitz, and H. Holzrichter, to Farbenfabriken Bayer Akt. Process for the production of cyanuric chloride. 2,872,445, 2-3-59, Cl. 260—248.
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- Von Fuchs, George H. Pressure vessels. 2,889,069, 6-2-59, Cl. 220—39.
- Von Fuener, Wilhelm: *See*—  
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- Von Gierke, Henning E.: *See*—  
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- Von Gross, Egon: *See*—  
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- Von Hippel, Arthur R., D. A. Powers, and W. B. Green, to Research Corp. Dielectric field emission methods and apparatus. 2,909,662, 10-20-59, Cl. 250—83.3.
- Vonhof, Heinz K. Combined telephone and public address system. 2,899,502, 8-11-59, Cl. 179—18.
- Von Hoffman, Wilfried: *See*—  
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- Von Kienlin, Markus, R. Seifert, and W. Barth, to Maybach-Motorenbau G.m.b.H. Protective starting device for internal combustion engines. 2,879,754, 3-31-59, Cl. 123—140.
- Von Kohorn, Henry and R. S. Scouring tool. 2,899,697, 8-18-59, Cl. 15—123.
- Von Kohorn International Corp.: *See*—  
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- Von Kohorn, Ralph S.: *See*—  
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- Von Kunits, Paul. Automatic control system with remote supervision. 2,913,703, 11-17-59, Cl. 340—163.
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- Von Linde, Robert A., W. Baier, and A. Hartmann, to Wilhelm Baier K.G. Liquid conveying apparatus. 2,896,701, 7-28-59, Cl. 158—40.
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- Vonnegut, Bernard, to Arthur D. Little, Inc. Generation of electrical fields. 2,881,335, 4-7-59, Cl. 310—5.
- Vonnegut, Bernard, to General Electric Co. Apparatus for measuring true speed of moving compressible fluids. 2,887,879, 5-26-59, Cl. 73—204.
- Vonnegut, Bernard, to Arthur D. Little, Inc. Low energy miniature-size recorder. 2,897,038, 7-28-59, Cl. 346—123.
- Vonnegut, Bernard, to Owens-Corning Fiberglass Corp. Glass fiberization method. 2,916,773, 12-15-59, Cl. 18—47.2.
- Vonnegut Hardware Co.: *See*—  
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- Von Obain, Hans J. P. Fluid machine. 2,911,189, 11-3-59, Cl. 253—91.
- Von Platen, Baltzar, to Allmanna Svenska Elektriska Aktiebolaget. High pressure cylinder. 2,917,082, 12-15-59, Cl. 138—69.
- Von Rabenau, Manuel. Writing doll. 2,895,258, 7-21-59, Cl. 46—119.
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- Von Rucker, Nikolaus, to Studebaker-Packard Corp. Suspension system for vehicles. 2,882,065, 4-14-59, Cl. 280—96.2.
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- Von Semel, Georg, and H. Lehmann, to Pintsch Bamag A.G. Method of producing concentrated mixtures of nitric and phosphoric acid. 2,901,840, 8-25-59, Cl. 71—37.
- Von Smeke, Otto A. Filling devices. 2,902,062, 9-1-59, Cl. 141—105.
- Von Spulak, Franz, to Farbenfabriken Bayer Akt. Process for lacquering rubber articles. 2,874,068, 2-17-59, Cl. 117—72.
- Von Stroh, Gerald F. H., and S. Bowman, to Bituminous Coal Research Inc. Continuous mining machine. 2,868,527, 1-13-59, Cl. 262—7.
- Von Szombathy, Andre: *See*—  
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- Von Tesmar, Charles H.: *See*—  
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- Von Wald, Walter A., Jr.: *See*—  
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- Von Zborowski, Helmut P. G. A. R. Centrifugal pumps, in particular for feeding fuel to fuel injection engines. 2,875,696, 3-3-59, Cl. 103—103.
- Von Zborowski, Helmut P. G. A. R. Airborne bodies, and in particular self propelled missiles. 2,879,955, 3-31-59, Cl. 244—14.
- Von Zborowski, Helmut P. G. A. R. Destruction engines carrying a hollow charge. 2,918,006, 12-22-59, Cl. 102—56.
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- Von Zelewsky, Ottomar, to Georg Fischer Akt. Hydraulic copying attachment on lathes. 2,896,490, 7-28-59, Cl. 82—14.
- Von Zelewsky, Ottomar, to Georg Fischer Akt. Automatic workpiece-shifting mechanism for use with machine tools. 2,907,478, 10-6-59, Cl. 214—1.
- Von Zelewsky, Ottomar, to Georg Fischer, Aktiengesellschaft. Process of and apparatus for forming manifold symmetrical non-circular profiles on work pieces. 2,909,010, 10-20-59, Cl. 51—90.
- Von Zeppelin, Kurt: *See*—  
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- Voogd, Maarten, to Shell Development Co. Wrapping. 2,894,363, 7-14-59, Cl. 53—228.
- Voorhees, Albert, and E. F. Scott, to American Cyanamid Co. Oxidation-ingrain color emulsions. 2,899,261, 8-11-59, Cl. 8—62.
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- Voorhees, John E., and A. M. Rockwood, to Cavalier Corp. Vending machine. 2,879,961, 3-24-59, Cl. 221—16.
- Voorheis, Temple S. Method and means relating to high capacity forced draft gas burner art. 2,889,871, 6-9-59, Cl. 158—109.
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- Voorhies, Alexis, Jr., and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Process and apparatus for conversion of heavy oil with coke particles in two stages employing inert and catalytic coke solids. 2,904,499, 9-15-59, Cl. 208—55.
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- Voos, Walter, to Lonza Electric and Chemical Works Ltd. Manufacturing of metallic uranium. 2,905,551, 9-22-59, Cl. 75—84.1.
- Vordahl, Milton B.: *See—*  
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- Vordahl, Milton B., to Crucible Steel Co. of America. Titanium base alloys. 2,880,089, 3-31-59, Cl. 75—175.5.
- Voreaux, Paul J. Gear-changing devices. 2,917,940, 12-22-59, Cl. 74—472.
- Vorech, Margaret: *See—*  
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- Vorech, Stephen, deceased, by M. Vorech, administratrix, to Bendix-Westinghouse Automotive Air Brake Co. Fluid pressure braking system for tractor-trailer vehicles. 2,897,010, 7-28-59, Cl. 303—10.
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- Vorkauf, Heinrich: *See—*  
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- Vorkauf, Heinrich. Tubular steam boiler. 2,887,095, 5-19-59, Cl. 122—235.
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- Vosbikian, Peter S. and T. S. Mops of the extractor type. 2,883,689, 4-28-59, Cl. 15—119.
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- Vosbikian, Peter S. and T. S. Mops with foldable sponge material and extracting mechanism. 2,887,704, 5-26-59, Cl. 15—116.
- Vosbikian, Peter S. and T. S. Strand type mops with revolvable heads. 2,887,712, 5-26-59, Cl. 15—230.
- Vosbikian, Peter S. and T. S. Universal cleaners and polishers. 2,893,029, 7-7-59, Cl. 15—118.
- Vosbikian, Peter S. and T. S. Mop handle connection with mop body portion. 2,893,033, 7-7-59, Cl. 15—144.
- Vosbikian, Peter S. and T. S. Device for feeding liquid to a working tool. 2,893,607, 7-7-59, Cl. 222—191.
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- Vosbikian, Peter S. and T. S. Replaceable mop heads. 2,912,710, 11-17-59, Cl. 15—244.
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- Vosbikian, Thomas S.: *See—*  
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- Voss, Elmer W. Vehicle actuated mechanism for garage doors. 2,873,111, 2-10-59, Cl. 268—37.
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- Voss, Wendell G., and F. C. Ellinger, to Ferro Corp. Porcelain enamels. 2,898,218, 8-4-59, Cl. 106—48.
- Vossberg, Carl A. Rolling mill thickness control system. 2,883,895, 4-28-59, Cl. 80—56.
- Vossberg, Carl A. Synchronized recycling detector for pulsed energy. 2,901,630, 8-25-59, Cl. 250—83.3.
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- Vossen, Bernd, to Melpar, Inc. Automatic machinery. 2,868,413, 1-13-59, Cl. 221—9.
- Vossen, Bernd, and H. K. Hazel, to Melpar, Inc. Automation. 2,911,646, 11-10-59, Cl. 1—106.
- Vossen, Edward, to Stop Motion Devices Corp. Electric switch. 2,896,037, 7-21-59, Cl. 200—51.
- Vossen, Edward, to Stop-Motion Devices Corp. Adjustable tension regulator for yarn. 2,912,185, 11-10-59, Cl. 242—150.
- Vossenberg, Frank A., to The Yale & Towne Mfg. Co. Platform pivoting means for industrial truck. 2,896,806, 7-28-59, Cl. 214—730.
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- Vöster, Walter: *See—*  
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- Vredenburg, Edric W. Weighing mechanism. 2,879,970, 3-31-59, Cl. 249—60.
- Vredenburg-Inglesby, Julius Cato: *See—*  
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- Vuilleminot, Robert P., to The Procter & Gamble Co. Container cover. 2,913,140, 11-17-59, Cl. 220—60.
- Vuillemin, Jean, to Ponderies Debad. Multiple valve apparatus for distributing fluid to a plurality of fluid operated devices. 2,878,786, 3-24-59, Cl. 121—46.5.
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- Vulcan Radiator Co., The: *See—*  
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- Vulmiere, Jacques C., and H. Vulmiere, nee Grangaud, to Centre National de La Recherche Scientifique. Electric discharge tubes. 2,915,665, 12-1-59, Cl. 313-113.
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- Vutz, Wilhelm, and A. A. Mittenbergs, to Sperry Rand Corp. Hay baler. 2,897,749, 8-4-59, Cl. 100-19.
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- Waalkes, Robert J., and A. E. Kietzmann, to Hart & Cooley Mfg. Co. Baseboard diffuser. 2,902,919, 9-8-59, Cl. 98-40.
- Waara, Otto M. Garden and lawn tool. 2,884,278, 4-28-59, Cl. 294-51.
- Waas, Heinrich, J. Ehlers, and O. Grim. Ice breaking ship. 2,902,964, 9-8-59, Cl. 114-40.
- Waas, Samuel M., to Manley, Inc. Kettle assembly for popcorn machines. 2,902,920, 9-8-59, Cl. 99-238.4.
- Wabeke, Samuel. Abrading apparatus. 2,915,852, 12-8-59, Cl. 51-7.
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- Wachholz, Helmut, to Praktika Gesellschaft für Praktische Lagerstättenforschung G.m.b.H. Electrodynamic transducers for vibrations transmitted through solids. 2,913,701, 11-17-59, Cl. 340-17.
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- Wachob, Ray T., to E. I. du Pont de Nemours and Co. Drum handling mechanism. 2,886,273, 5-12-59, Cl. 248-129.
- Wachs, Herman, to Food Machinery and Chemical Corp. Method of preparing oil free synergized pyrethrin composition. 2,894,870, 7-14-59, Cl. 167-24.
- Wachs, Herman, and S. E. Forman, to Food Machinery and Chemical Corp. Production of methylenedioxyphenyl derivatives. 2,878,265, 3-17-59, Cl. 260-340.5.
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- Wachs, Miller A., to United Aircraft Corp. Rigid shaft coupling. 2,872,227, 2-3-59, Cl. 287-119.
- Wachs, Miller A., to United Aircraft Corp. Planetary transmission. 2,911,851, 11-10-59, Cl. 74-675.
- Wachsmuth, Erich A., to Joy Mfg. Co. Starting mechanism for compressor. 2,918,788, 12-29-59, Cl. 60-16.
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- Wachter, Paul H., Jr. Closure attachment for exhaust pipes. 2,887,032, 5-19-59, Cl. 98-60.
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- Wachtler, Maximilian. Direction finder with visual indication. 2,880,415, 3-31-59, Cl. 343-113.
- Wack, Floyd W., to Stark Ceramics, Inc. Device for observing kiln temperatures. 2,907,209, 10-6-59, Cl. 73-341.
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- Wacker, Wilhelm, F. Guillot, and G. A. Hempel, to Lohmann K.-G. Method and device for superposing of fibre-fleeces. 2,889,583, 6-9-59, Cl. 19-161.
- Wackher, Richard C.: *See*—  
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- Waclawek, Mieczyslaw J.: *See*—  
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- Waclawek, Mieczyslaw J., to Borg-Warner Corp. Transmission. 2,897,689, 8-4-59, Cl. 74-688.
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- Charbonneaux, Wilson A., and Velesky. 2,901,682.
- Waco Mfg. Co.: *See*—  
Clark, Neil M. 2,887,758.
- Moritz, Donald B. 2,917,108.
- Waddan, Dhaif Y.: *See*—  
Stewart, David G., Waddan, and Borrows. 2,870,100.
- Waddell Construction Co., Inc.: *See*—  
Waddell, Robert E. and J. B. 2,879,985.
- Waddell, Herbert H.: *See*—  
Johnson, Kenneth O., Nuber, Waddell, and Millar. 2,880,593.
- Waddell, James A. Coaster wagon. 2,872,205, 2-3-59, Cl. 280-87.01.
- Waddell, James B.: *See*—  
Waddell, Robert E. and J. B. 2,879,985.
- Waddell, James M.: *See*—  
Mayer, Simon E., and Waddell. 2,907,885.
- Waddell, Mathis T.: *See*—  
Cier, Harry E., and Waddell. 2,885,454.
- Cier, Harry E., and Waddell. 2,891,894.
- Heinrich, Raymond L., and Waddell. 2,891,401.
- Waddell, Robert E. and J. B., to Waddell Construction Co., Inc. Loading dock guard. 2,879,985, 3-31-59, Cl. 267-1.
- Waddill, Paul M., to Phillips Petroleum Co. Distillation. 2,897,146, 7-28-59, Cl. 208-364.
- Waddill, Paul M., to Phillips Petroleum Co. Vacuum distillation. 2,901,425, 8-25-59, Cl. 208-353.
- Waddill, Paul M., and W. E. Barr, to Phillips Petroleum Co. Vaporization with condensation of vapors and recovery of resulting condensate in an external guard zone. 2,901,426, 8-25-59, Cl. 208-355.
- Waddington, Rogor S., and B. Duval. Fluid handling device. 2,893,444, 7-7-59, Cl. 141-89.
- Waddington, William, to The British Thomson-Houston Co. Ltd. Dynamo electric machines. 2,903,609, 9-8-59, Cl. 310-64.
- Waddle, Howard M., J. F. Cotton, and R. E. Hudson, Jr., to West Point Mfg. Co. Process for preventing aldehyde odors. 2,870,041, 1-20-59, Cl. 117-62.
- Wade, Douglass R. Automatic power transmission for miniature vehicles. 2,893,252, 7-7-59, Cl. 74-230.17.
- Wade Electric Products Co.: *See*—  
Laete, Edward J. 2,880,284.
- Long, Jasper. 2,875,318.
- Long, Jasper. 2,885,649.
- Long, Jasper. 2,906,855.
- Long, Jasper, and Hess. 2,907,852.
- Newcomb, Harley M. 2,894,089.
- Wade, Elmer J., and R. S. Stone, to United States of America, Atomic Energy Commission. Logarithmic amplifier. 2,877,348, 3-10-59, Cl. 250-27.
- Wade Engineering Ltd.: *See*—  
Densham, Costin L. 2,888,800.
- Tunnicliffe, Edward A. J., and Densham. 2,875,946.
- Wade, Harold P.: *See*—  
France, Rollin C., and Wade. 2,873,602.
- Wade, Harold P., to The Standard Products Co. Latch bolt structure. 2,912,272, 11-10-59, Cl. 292-340.
- Wade, John B., to Food Machinery and Chemical Corp. Fabricated impeller for pumps. 2,882,829, 4-21-59, Cl. 103-115.
- Wade, Kenneth L. Eye shield. 2,874,385, 2-24-59, Cl. 2-15.
- Wade, R. M., & Co.: *See*—  
Cornelius, Gail. 2,879,082.
- Wade, Raymond H., and R. C. Niswonger. Burring tools. 2,907,234, 10-6-59, Cl. 77-73.
- Wade, Richard L.: *See*—  
Kwartler, Irwin E., and Wade. 2,898,919.
- Wade, Robert C., to Metal Hydrides Inc. Method for improving production of oil wells. 2,872,982, 2-10-59, Cl. 166-38.
- Wade, Robert E., ½ to W. C. Wade. Pickup for traveling baler. 2,896,391, 7-28-59, Cl. 56-364.



- Wade, Robert E. Seed distributing shoe. 2,913,086, 11-17-59, Cl. 193-9.
- Wade, Robert H.: *See*—  
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 Barnhart, William S., and Wade. 2,884,399.  
 Barnhart, William S., and Wade. 2,904,567.  
 Barnhart, William S., and Wade. 2,915,552.
- Wade, Robert H., and W. S. Barnhart, to Minnesota Mining and Mfg. Co. Fluorination of telomers. 2,886,607, 5-12-59, Cl. 260-653.5.
- Wade, Robert H., and W. S. Barnhart, to Minnesota Mining and Mfg. Co. Purification of telomers. 2,909,570, 10-20-59, Cl. 260-653.
- Wade, William C.: *See*—  
 Wade, Robert E. 2,896,391.
- Wade, William R.: *See*—  
 Markham, Charles W., Jr., Meyer, and Wade. 2,896,233.
- Wade, Worth, to Marvalaud, Inc. Apparatus and method for producing metal fibers and filaments. 2,886,866, 5-19-59, Cl. 22-57.4.
- Wade, Worth, to American Viscose Corp. Apparatus for recovering waste coated fibers. 2,895,176, 7-21-59, Cl. 19-66.
- Wade, Worth, to American Viscose Corp. Fibrous webs and method for their production. 2,903,387, 9-8-59, Cl. 154-101.
- Wade, Worth, to American Viscose Corp. Tobacco smoke filter. 2,916,038, 12-8-59, Cl. 131-10.
- Wade, Worth, R. B. Pond, and T. P. Gibbons, to Marvalaud, Inc. Method and apparatus for producing metal filaments. 2,904,859, 9-22-59, Cl. 22-57.2.
- Wadellon, Edwin F., to Deere & Co. Offset wheel harrow. 2,886,115, 5-12-59, Cl. 172-383.
- Wadia, Behram H.: *See*—  
 Doolittle, Howard D., Naill, and Wadia. 2,870,364.
- Wadia, Behram H., to Machlett Laboratories, Inc. Electron discharge devices. 2,879,430, 3-24-59, Cl. 313-293.
- Wadia, Behram H., and E. J. Naill, to Machlett Laboratories, Inc. Getters for electron tubes. 2,898,501, 8-4-59, Cl. 313-174.
- Wadley, Edward F.: *See*—  
 Horeczy, Joseph T., and Wadley. 2,900,403.
- Wadley, Edward F., to Esso Research and Engineering Co. Process for the production of lubricating oils by solvent extraction. 2,902,443, 9-1-59, Cl. 208-312.
- Wadley, Trevor L., to South African Council for Scientific and Industrial Research. Determining relative position by means of transit time of waves. 2,907,999, 10-6-59, Cl. 343-12.
- Wadlow, Derek N., to Rotaprint Ltd. Offset lithographic printing machines. 2,898,853, 8-11-59, Cl. 101-217.
- Wadman, William H.: *See*—  
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- Wadsworth Electric Mfg. Co. Inc., The: *See*—  
 Middendorf, William H. 2,916,675.
- Wadsworth, Francis T.: *See*—  
 Hendrickson, Joe G., and Wadsworth. 2,906,785.
- Wadsworth, Francis T., to The American Oil Co. Preparation of alkylbenzenes. 2,881,226, 4-7-59, Cl. 260-668.
- Wadsworth, Raymond H.: *See*—  
 Bieger, Jacob J., and Wadsworth. 2,877,648.
- Wadsworth, William B., and F. R. Poole. Ear protectors. 2,899,683, 8-18-59, Cl. 2-209.
- Waechter, Charles J.: *See*—  
 Pomper, Anthony W., and Waechter. 2,895,552.
- Waeco Ltd.: *See*—  
 Wheelwright, Edward H., Bonness, and Whitehorn. 2,876,702.
- Waelnitz, Otto: *See*—  
 Krekeler, Hans, Kirschner, Reiken, and Waelnitz. 2,911,454.
- Wagaman, Merle L., to Fibreboard Paper Products Corp. Corner gusset lock for containers of flexible material. 2,889,102, 6-2-59, Cl. 229-31.
- Wagaman, Merle L., to Fibreboard Paper Products Corp. Reclosable carton end construction. 2,894,674, 7-14-59, Cl. 229-43.
- Wagemaker, Raymond O. Molded boat structure or the like. 2,909,790, 10-27-59, Cl. 9-6.
- Wagemann, Heinrich, to Monroe Calculating Machine Co. Decimal point mechanism. 2,917,232, 12-15-59, Cl. 235-60.15.
- Wagener, Charles F.: *See*—  
 Wagener, Harold L. 2,887,981.
- Wagener, Harold L., 5% to J. Ciesla, 5% to J. Letherbury, 5% to C. F. Wagener, and 34% to A. A. Moss. Non-capsizeable boat. 2,887,981, 5-26-59, Cl. 115-16.
- Wagenfeld, Gilbert B. Sanitary head covering. 2,869,135, 1-20-59, Cl. 2-174.
- Wagenseil, Ludwig, to Junkers Maschinen-und Metallbau G.m.b.H. Process and apparatus for controlling motor compressors. 2,914,239, 11-24-59, Cl. 230-10.
- Wager, Helen M. Copy holder. 2,893,351, 7-7-59, Cl. 120-28.
- Wagers, Beverly T., 1/2 to J. Noland. Roller skate brake attachment. 2,872,201, 2-3-59, Cl. 280-11.2.
- Waggner, Kenneth E., 1/2 each to R. A. McClintock and R. E. Thompson. Torque, releasing, safety joint for well tool strings. 2,893,694, 7-7-59, Cl. 255-28.
- Wagner, Adam, to Ernst Leitz, G.m.b.H. Flashlight attachments for cameras. 2,881,685, 4-14-59, Cl. 95-11.5.
- Wagner, Adolph A., to R & B Wagner Inc. Pipe railing attaching fittings. 2,881,016, 4-7-59, Cl. 287-23.
- Wagner, Adolph A., to R & B Wagner Inc. End caps for pipe railings. 2,917,084, 12-15-59, Cl. 138-89.
- Wagner, Adolph A., and A. J. Werner, to Wagner Iron Works. Radiator-protecting grill attachment for a tractor. 2,906,359, 9-29-59, Cl. 180-68.
- Wagner, Alan R., and M. S. Cooper, to American Cyanamid Co. Article of manufacture for intracutaneous injections. 2,893,392, 7-7-59, Cl. 128-253.
- Wagner, Albin O., to VEB Tullgardinen-und Spitzzenwerke. Comb for guiding the bobbin carriages in bobbinet machines. 2,893,286, 7-7-59, Cl. 87-27.
- Wagner, Annemarie, and S. Petersen, to Farbenfabriken Bayer Akt. 4-[3-phenyl and 3-(chlorophenyl), 1-pyrazoliny]-benzoic acid, lower alkyl benzoates or benzonitrile and brightening therewith. 2,879,174, 3-24-59, Cl. 117-33.5.
- Wagner, Arthur F.: *See*—  
 Holly, Frederick W., Wagner, Walton, and Hoffman. 2,875,238.  
 Holly, Frederick W., Wagner, Walton, and Hoffman. 2,875,239.  
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- Wagner, Arthur F., to Merck & Co., Inc. Addition product of a metal hydrocarbon mercaptide with an alpha-halo-gamma-butyrolactone. 2,872,458, 2-3-59, Cl. 260-347.2.
- Wagner, Arthur F., to Merck & Co., Inc. Benzofuran-derivatives. 2,892,847, 6-30-59, Cl. 260-346.2.
- Wagner, Arthur F., to Merck & Co., Inc. Synthesis of mevalonic acid. 2,915,533, 12-1-59, Cl. 260-343.5.
- Wagner, Artur: *See*—  
 Schwarzwaldner, Karl, and Wagner. 2,877,135.
- Wagner Brothers Inc.: *See*—  
 Borodin, Daniel J. 2,912,989.
- Wagner, Carman J. Massage device. 2,902,993, 9-8-59, Cl. 128-33.
- Wagner, Charles L., to General Motors Corp. Fuel system. 2,879,047, 3-24-59, Cl. 261-34.
- Wagner, Chester. Pressure cooking apparatus. 2,914,063, 11-24-59, Cl. 126-381.
- Wagner, Clarence E., to United States of America, Air Force. Design for a stainless steel or aluminum gas generator wall spraying system for combustion chamber. 2,902,823, 9-8-59, Cl. 60-35.6.
- Wagner, Donald W.: *See*—  
 Smith, Augustus B., Roberts, Wagner, and Stine. 2,871,126.
- Wagner, Earl L.: *See*—  
 Randolph, Glenn W., and Wagner. 2,909,066.
- Wagner, Eddie B., to Mixermobile Manufacturers, Inc. Loader vehicle. 2,914,202, 11-24-59, Cl. 214-140.
- Wagner, Edgar R. Television picture tubes. 2,907,918, 10-6-59, Cl. 315-22.
- Wagner, Edgar R., to Metals and Chemicals Corp. Non-ferrous scrap treatment. 2,912,305, 11-10-59, Cl. 23-147.
- Wagner, Edward F., to Studebaker-Packard Corp. Torsion bar hinge assembly. 2,916,763, 12-15-59, Cl. 16-180.
- Wagner, Edwin J., Jr.: *See*—  
 Pirsh, Edward A., and Wagner. 2,875,992.
- Wagner Electric Corp.: *See*—  
 Freeman, Walter R. 2,903,100.  
 Freeman, Walter R. 2,912,070.  
 Malsbary, James S. 2,892,146.  
 Malsbary, James S., and Hilker. 2,871,373.  
 Schnell, Steve. 2,876,625.
- Wagner, Elijah R., to United States Steel Corp. System for supplying oxygen to blast furnace tuyeres. 2,879,056, 3-24-59, Cl. 266-29.
- Wagner, Elmer K., to The Ingersoll Milling Machine Co. Remote control apparatus. 2,869,110, 1-13-59, Cl. 340-172.
- Wagner & Englert G.m.b.H.: *See*—  
 Fuchs, Emanuel. 2,910,810.
- Wagner, Erich, to W. Ferd Klingelberg, Sohne. Gear tester. 2,909,844, 10-27-59, Cl. 33-179.5.
- Wagner, Erich, and F. A. Walder, to W. Ferd Klingelberg Sohne. Machine for the testing of hobs. 2,895,227, 7-21-59, Cl. 33-179.5.
- Wagner, Ernest A., and A. H. Freeman, to General Electric Co. Cooking appliance grid mounting. 2,903,959, 9-15-59, Cl. 99-376.
- Wagner, Ernest E. Variable speed constant torque fluid drive. 2,900,060, 8-18-59, Cl. 192-58.
- Wagner, Ernst, and H. Westnanning, to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler. Natural rubber composition containing a pyrogenically formed mixture of silica and another metal oxide and process of preparation. 2,898,391, 8-4-59, Cl. 260-762.
- Wagner, Erwin V., to Wagner Sign Service, Inc. Exchangeable display sign. 2,892,277, 6-30-59, Cl. 40-140.
- Wagner, Forrest L. Weld-clearing tools. 2,908,962, 10-20-59, Cl. 29-81.
- Wagner, Frank C., to Horizons Inc. Bearing composition. 2,875,510, 3-3-59, Cl. 29-182.5.
- Wagner, Frank C., to Horizons Inc. Titanium or zirconium clad steel. 2,908,966, 10-20-59, Cl. 29-194.
- Wagner, Frank C., to Horizons Inc. Method of cladding steel with titanium or zirconium. 2,908,969, 10-20-59, Cl. 29-470.9.
- Wagner, Fred A.: *See*—  
 Wagner, Frederick A. and F. A. 2,869,401.



- Wagner, Frederick A., to Textron American, Inc. Method of making disc type brake drums. 2,884,693, 5-5-59, Cl. 29-529.
- Wagner, Frederick A. and F. A. Gauge for boring tools. 2,869,401, 1-20-59, Cl. 77-4.
- Wagner, George M.: See—  
Thomas, Robert M., and Wagner. 2,904,389.
- Wagner, Gilbert C.: See—  
Brennan, Edward L., Quinn, Sellers, and Wagner. 2,899,467.
- Wagner, Günther: See—  
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Bross, Helmut. 2,908,423.  
Bross, Helmut. 2,916,014.
- Wagner, Hans: See—  
Ruschig, Heinrich, Wagner, Aumüller, Korger, Scholz, and Bander. 2,891,960.
- Wagner, Harold A. Power steering means for wheeled vehicles. 2,874,793, 2-24-59, Cl. 180-79.2.
- Wagner, Harold A. Lift carriage control means. 2,897,991, 8-4-59, Cl. 214-701.
- Wagner, Harold H., to Pan American Petroleum Corp. Special bottom hole pump anchor. 2,885,968, 5-12-59, Cl. 103-219.
- Wagner, Heinrich, to Zahradfabrik Friedrichshafen. Hydraulic power steering mechanism. 2,906,136, 9-29-59, Cl. 74-388.
- Wagner, Heinrich, to Zahnradfabrik Friedrichshafen, Aktien-gesellschaft. Steering mechanism. 2,906,142, 9-29-59, Cl. 74-489.
- Wagner, Herbert, and K.-H. Eisenmann, to Farbenfabriken Bayer Akt. Process for the production of tubes. 2,870,486, 1-27-59, Cl. 18-55.
- Wagner Iron Works: See—  
Wagner, Adolph A., and Werner. 2,906,359.
- Wagner, James R. Packaged effervescent concentrates and process therefor. 2,900,258, 8-18-59, Cl. 99-171.
- Wagner, Jan K.: See—  
Krupp, Robert F., and Wagner. 2,897,947.  
Krupp, Robert F., and Wagner. 2,918,773.
- Wagner, Johann. Folding stairs. 2,907,401, 10-6-59, Cl. 182-78.
- Wagner, John C., to International Harvester Co. Motor vehicle tiltable cab and radiator construction. 2,912,057, 11-10-59, Cl. 180-68.
- Wagner, John G., to The Upjohn Co. Pharmaceutical composition. 2,897,121, 7-28-59, Cl. 167-82.
- Wagner, Joseph R.: See—  
Simon, Morris, and Wagner. 2,893,878.
- Wagner, Marvin H.: See—  
Gurney, David M., and Wagner. 2,875,637.
- Wagner, Mary R. Devices for women's hair. 2,897,825, 8-4-59, Cl. 132-48.
- Wagner, Melvin P.: See—  
Bachmann, John H., Sellers, and Wagner. 2,884,402.  
Sellers, John W., and Wagner. 2,892,807.
- Wagner, Raymond W., and W. E. Sanders, Sr., to Bendix Aviation Corp. Loader, unloader mechanism. 2,872,037, 2-3-59, Cl. 214-89.
- Wagner, R & B, Inc.: See—  
Wagner, Adolph A. 2,881,016.  
Wagner, Adolph A. 2,917,084.
- Wagner, Richard L., Jr.: See—  
Buckley, Jay S., Jr., Stephens, and Wagner. 2,867,661.
- Wagner, Robert E. Rotor numerical and alphabetical toy games. 2,888,265, 5-26-59, Cl. 273-142.
- Wagner, Robert J., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,867,757, 1-6-59, Cl. 317-246.
- Wagner, Robert J., to Minneapolis-Honeywell Regulator Co. Flexible seal and pivot. 2,897,678, 8-4-59, Cl. 74-18.1.
- Wagner, Robert J., to Minneapolis-Honeywell Regulator Co. Pivot mechanism. 2,906,522, 9-29-59, Cl. 267-1.
- Wagner, Robert L., to Addressograph-Multigraph Corp. Printing machines. 2,902,925, 9-8-59, Cl. 101-65.
- Wagner, Robert N.: See—  
Kramer, Max J., and Wagner. 2,901,701.
- Wagner, Robert W., to Dana Corp. Power take off. 2,905,006, 9-22-59, Cl. 74-401.
- Wagner, Roland W.: See—  
Crawley, Arthur, Dugle, and Wagner. 2,893,023.
- Wagner, Romeo B., to Hercules Powder Co. Water-soluble allyl ethyl cellulose and its preparation. 2,891,056, 6-16-59, Cl. 260-231.
- Wagner, Ross I.: See—  
Burg, Anton B., and Wagner. 2,916,518.  
Stewart, Robert D., and Wagner. 2,900,416.
- Wagner Sign Service, Inc.: See—  
Wagner, Erwin V. 2,892,277.
- Wagner, Stephan R., to International Telephone and Telegraph Corp. Fluid cooled electronic chassis. 2,912,624, 11-10-59, Cl. 317-100.
- Wagner, Thomas C. G., to Minneapolis-Honeywell Regulator Co. Frequency modulated oscillator. 2,870,411, 1-20-59, Cl. 332-16.
- Wagner, Victor K., Jr., to Springfield Wire & Tinsel Co. Heating unit for mechanical refrigerators and the like. 2,905,918, 9-22-59, Cl. 338-210.
- Wagner, Walter W., to International Business Machines Corp. Sheet turning means. 2,901,246, 8-25-59, Cl. 271-3.
- Wagner, Wesley R. Cooling fan blade. 2,880,809, 4-7-59, Cl. 170-160.1.
- Wagner, William. Paint brush. 2,892,204, 6-30-59, Cl. 15-248.
- Wagner, William. Paint brush. 2,892,205, 6-30-59, Cl. 15-248.
- Wagner, William F. Tooth brush holder. 2,902,145, 9-1-59, Cl. 206-15.1.
- Wagner, William F. Flush tank ball valve guide. 2,904,795, 9-22-59, Cl. 4-57.
- Wagner, William S.: See—  
Crane, Edward V., Curtner, and Wagner. 2,914,973.
- Wagner, William T., to The Dayton Rubber Co. Triangular pillow. 2,877,472, 3-17-59, Cl. 5-337.
- Wagner, William T., to The Dayton Rubber Co. Cushioning construction. 2,898,975, 8-11-59, Cl. 155-179.
- Wagner, William T., 1/2 to The Dayton Rubber Co., and 1/2 to The B. F. Goodrich Co. Mold pin construction. 2,905,970, 9-29-59, Cl. 18-39.
- Wagner, Willy: See—  
Foltzer, Marcel, and Wagner. 2,875,785.
- Wagnon, Francis M. Cotton harvesting and cleaning machine. 2,869,307, 1-20-59, Cl. 56-30.
- Wagnon, Francis M. Cotton press. 2,897,750, 8-4-59, Cl. 100-244.
- Wagoner, Robert G., to United States of America, Navy. Locked phase frequency divider. 2,877,350, 3-10-59, Cl. 250-36.
- Wah Chang Corp.: See—  
Loung, Pai Y. 2,893,832.  
Loung, Pai Y. 2,894,814.
- Wahfeld, James A. Threshold. 2,880,476, 4-7-59, Cl. 20-64.
- Wahl, Arthur C.: See—  
Gofman, John W., Connick, and Wahl. 2,871,251.
- Wahl Brothers: See—  
Wahl, Nicholas A. 2,907,066.  
Wahl, Nicholas A. 2,909,025.
- Wahl Clipper Corp.: See—  
Wahl, John F. 2,912,754.  
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Wahl, Leo J. Re. 24,630.
- Wahl, Edward C., to Gits Bros. Mfg. Co. Shaft seal means and method. 2,881,015, 4-7-59, Cl. 286-11.
- Wahl, Frank: See—  
Kamins, Jack M., and Wahl. 2,896,801.
- Wahl, Frank, to Western Electric Co., Inc. Snagging wheel. 2,902,230, 9-1-59, Cl. 242-25.
- Wahl, John F.: See—  
Wahl, Leo J. Re. 24,630.
- Wahl, John F., to Wahl Clipper Corp. Dry shaver blade and support. 2,912,754, 11-17-59, Cl. 30-43.
- Wahl, John F. and L. J., to Wahl Clipper Corp. Movable clipper blade and drive transmission for same. 2,876,538, 3-10-59, Cl. 30-210.
- Wahl, John F. and L. J., to Wahl Clipper Corp. Adjustment mechanism. 2,877,364, 3-10-59, Cl. 310-19.
- Wahl, Leo J.: See—  
Wahl, John F. and L. J. 2,876,538.  
Wahl, John F. and L. J. 2,877,364.
- Wahl, Leo J., deceased, by J. F., R. L., and W. P. Wahl, executors; said L. J. Wahl assor. to Wahl Clipper Corp. Massage device. Re. 24,630, 4-14-59, Cl. 128-41.
- Wahl, Lucien: See—  
Allard, Marc, Trentini, and Wahl. 2,906,616.
- Wahl, Lucien, to Institute de Recherches de la Siderurgie. Method for a thorough desulfurizing of molten metal and in particular of liquid pig iron. 2,906,617, 9-29-59, Cl. 75-51.
- Wahl, Nicholas A., to Wahl Brothers. Method and apparatus for making separable fasteners. 2,907,066, 10-6-59, Cl. 18-1.
- Wahl, Nicholas A., to Wahl Brothers. Apparatus for backing slide fastener elements. 2,909,025, 10-20-59, Cl. 57-10.
- Wahl, Ottmar: See—  
Burgardt, Lothar, Reckziegel, and Wahl. 2,884,325.  
Coenen, Ludwig M., and Wahl. 2,904,433.  
Pelz, Willibald, Burgardt, and Wahl. 2,895,825.
- Wahl, Ottmar, R. Mersch, and W. Füscher, to AGFA Akt. Photographic color development employing pyrazoline compounds. 2,892,713, 6-30-59, Cl. 96-55.
- Wahl, Ottmar, R. Mersch, and W. Füscher, to AGFA Akt. Photographic color development with pyrazoline developers. 2,892,714, 6-30-59, Cl. 96-55.
- Wahl, Ralph L., and E. W. Schmecht, to Cribben and Sexton Co. Pipe manifold and method of making. 2,896,975, 7-28-59, Cl. 285-219.
- Wahl, Robert L.: See—  
Wahl, Leo J. Re. 24,630.
- Wahl, Warren P.: See—  
Wahl, Leo J. Re. 24,630.
- Wahlberg, Nils R., to A. A. Severin. Method of operating a gas generating shaft furnace as a gas generator, blast furnace or cupola, and a furnace for carrying the method into effect. 2,919,185, 12-29-59, Cl. 75-42.
- Wahlborg, Karl J., and L. J. Faith-El, to Aktiebolaget Elektrolux. Sound-dampening structure for suction cleaners. 2,888,093, 5-26-59, Cl. 183-36.
- Wahlgren, Frans K. H., to Kopings Mekaniska Verkstads Aktiebolag. Attachment for providing an accurate spacing or angular setting. 2,890,606, 6-16-59, Cl. 74-813.
- Wahlmark, Gunnar A. Constant speed drive. 2,908,151, 10-13-59, Cl. 64-21.



- Wahlmark, Gunnar A. Constant velocity joint. 2,910,845, 11-3-59, Cl. 64-21.
- Wahlstrom, Gunnar: *See*—  
Greene, George B., and Wahlstrom. 2,867,797.
- Wahnish, George I. Smoke-generating apparatus. 2,912,974, 11-17-59, Cl. 126-59.5.
- Wahnsiedler, James H. Closure for a dispenser. 2,901,152, 8-25-59, Cl. 222-502.
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- Wainer, Eugene, to Radio Corp. of America. Electrodes and methods of making same. 2,874,102, 2-17-59, Cl. 204-42.
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- Waite, Harry T., Jr., and P. D. Merrill, to M. B. Skinner Co. Valved T-fitting. 2,893,498, 7-21-59, Cl. 137-320.
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- Waldman, Herbert, to Robosonic National Industries Corp. Tape recording and reproducing apparatus. 2,896,945, 7-28-59, Cl. 271-2.3.
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- Walker, James H., S. W. Carr, and C. H. Horn, to Limark Corp. Marking stripe and method of applying same. 2,898,825, 8-11-59, Cl. 94—15.
- Walker, James J., to Haloid Xerox Inc. Xerographic development process. 2,889,234, 6-2-59, Cl. 117—175.
- Walker, James R., to G. H. Cork. Push button actuator. 2,881,402, 4-7-59, Cl. 336—136.
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- Walker, Lloyd B., to Canadian Car Co. Ltd. Vehicle pneumatic suspension system. 2,902,291, 9-1-59, Cl. 280—124.
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- Walker, Patrea P., and H. Laub, III, to Cecil Investment Co. Massage and exercise machine. 2,893,380, 7-7-59, Cl. 128—25.
- Walker, Richard E., to A. B. C. Specialty Co. Colostomy device. 2,868,204, 1-13-59, Cl. 128—283.
- Walker, Richard K.: *See—*  
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- Walker, Richard M., to Microwave Associates, Inc. Electric discharge devices. 2,903,623, 9-8-59, Cl. 315—39.
- Walker, Robert D., to Daystrom, Inc. Combination spring abutment and pointer-securing means for electrical instruments. 2,890,416, 6-9-59, Cl. 324—154.
- Walker, Robert K. Apparatus for drilling laterals from well shafts. 2,889,137, 6-2-59, Cl. 255—20.
- Walker, Robert M., to International Business Machines Corp. Information storage systems. 2,886,798, 5-12-59, Cl. 340—173.
- Walker, Robert M., to International Business Machines Corp. Electro-static switching apparatus. 2,891,153, 6-16-59, Cl. 250—27.
- Walker, Robert R.: *See—*  
Diss, Edward M., and Walker. 2,877,084.
- Walker, Roland M.: *See—*  
Walker, William J. and R. M., Duggan, and Archer. 2,868,448.
- Walker, Rowland: *See—*  
Brook, Leonard, and Walker. 2,875,567.
- Walker, Russell W., to Sinclair Refining Co. Method for purifying durene. 2,914,586, 11-24-59, Cl. 260—674.
- Walker, Russell W., to Sinclair Refining Co. Method of recovering durene by crystallization and purifying it by washing with a solvent at low temperature. 2,914,582, 11-24-59, Cl. 260—674.
- Walker, Russell W., to Sinclair Refining Co. Process for producing durene of at least 99% purity comprising passing inert gas through a durene cake after solvent washing said cake to 90-98% purity. 2,914,583, 11-24-59, Cl. 260—674.
- Walker, Samuel J., to Chicago Railway Equipment Co. Railway brake beam. 2,885,036, 5-5-59, Cl. 188—223.1.
- Walker Supply & Mfg. Co.: *See—*  
Walker, Walter B. 2,899,028.
- Walker, Sydney J.: *See—*  
Harris, Michael G., and Walker. 2,899,177.
- Walker, Thomas, to Thomas Walker, Ltd. Hook fastenings for the waist-bands of trousers. 2,886,873, 5-19-59, Cl. 24—227.
- Walker, Thomas B., and R. E. English, to Isaac Braithwaite & Son Engineers Ltd. Power operated pressing machines. 2,897,652, 8-4-59, Cl. 60—97.
- Walker, Thomas H.: *See—*  
Chittleburgh, William F. S., Walker, and Jessop. 2,918,529.
- Walker, Thomas, Ltd.: *See—*  
Walker, Thomas. 2,886,873.
- Wood, Herbert H. 2,916,740.
- Walker, W. Roland: *See—*  
Saunders, Percy A. 2,883,030.
- Walker, Walter B., to Walker Supply & Mfg. Co. Panel construction. 2,899,028, 8-11-59, Cl. 189—34.
- Walker, Willard F., to The Cleveland Container Co. Convolutely wound container and method of manufacture. 2,898,025, 8-4-59, Cl. 229—4.5.
- Walker, Willard R. Dish washers. 2,893,408, 7-7-59, Cl. 134—57.
- Walker, William E. Tank cleaner. 2,915,085, 12-1-59, Cl. 137—577.5.
- Walker, William E., and C. Shoreys, to Radio Corp. of America. Multiplex communication system. 2,905,760, 9-22-59, Cl. 178—50.
- Walker, William E., Jr. Slip jacket for foundry molds. 2,874,426, 2-24-59, Cl. 22—112.
- Walker, William J. Means for mixing liquids. 2,911,993, 11-10-59, Cl. 137—101.25.
- Walker, William J. and R. M., T. O'D. Duggan, and A. I. Archer. Apparatus for the determination of polynomial functions and the solution of algebraic equations. 2,868,448, 1-13-59, Cl. 235—61.
- Walker, William R.: *See—*  
Evans, Sidney O., and Walker. 2,908,587.
- Walker, William R., to The Babcock & Wilcox Co. Method of lubricating a pierced extrusion billet. 2,908,385, 10-13-59, Cl. 207—10.
- Walkinshaw, William, and L. B. Mullett, to United States of America, Atomic Energy Commission. Loaded waveguides for linear accelerators. 2,916,710, 12-8-59, Cl. 333—31.
- Walking, Helmuth, to Schumag Schumacher Metallwerke Gesellschaft mit beschränkter Haftung. Centerless-grinding machines for cylindrical work pieces. 2,896,377, 7-28-59, Cl. 51—103.
- Walking, Helmuth, to Schumag Schumacher Metallwerke G.m.b.H. Tool-spindle journal, particularly in centerless grinding machines. 2,909,014, 10-20-59, Cl. 51—168.
- Walkoe, Kenneth H., to General Electric Co. Domestic appliance. 2,907,859, 10-6-59, Cl. 219—20.
- Walkup, Lewis E.: *See—*  
Andrus, Paul G., and Walkup. 2,873,721.
- Walkup, Lewis E., to Haloid Xerox Inc. Charging device. 2,879,395, 3-24-59, Cl. 250—49.5.
- Walkup, Lewis E., to Haloid Xerox Inc. Xerographic transfer process. 2,892,708, 6-30-59, Cl. 96—1.
- Walkup, Lewis E., to Haloid Xerox Inc. Xerographic transfer method. 2,919,191, 12-29-59, Cl. 96—1.
- Wall Colmonoy Corp.: *See—*  
Bowles, William S. 2,868,667.  
Gonser, Homer S., Jr. 2,868,639.
- Wall, David A., to I-T-E Circuit Breaker Co. Momentary contact adapter for auxiliary switch. 2,885,500, 5-5-59, Cl. 200—6.
- Wall, David A., to I-T-E Circuit Breaker Co. Momentary contact adapter for auxiliary switch. 2,912,528, 11-10-59, Cl. 200—6.
- Wall, James R.: *See—*  
Harris, Edward P., and Wall. 2,884,668.  
Harris, Edward P., and Wall. 2,884,957.  
Rappaport, George, Szaruga, and Wall. 2,895,926.
- Wall, James R., and R. D. Powell, to General Motors Corp. Flow control mechanism. 2,904,063, 9-15-59, Cl. 137—392.
- Wall, Marion P., and H. D. Becker, to Combustion Engineering, Inc. Suspension support for expansible vessels. 2,876,925, 3-10-59, Cl. 220—18.
- Wall, Mary F., and J. P. Hume, said Hume assor. to said Wall. Culinary utensils. 2,871,848, 2-3-59, Cl. 126—215.
- Wall, Monroe E.: *See—*  
Rothman, Edward S., and Wall. 2,883,403.  
Rothman, Edward S., and Wall. 2,899,428.
- Wall, Monroe E., to United States of America, Agriculture. Method for preparing pregnenones. 2,902,496, 9-1-59, Cl. 260—397.3.
- Wall, Monroe E., and S. Serota, to United States of America, Agriculture. Process for conversion of steroidal sapogenins to pseudosapogenins. 2,870,143, 1-20-59, Cl. 260—239.55.



- Wall, Monroe E., and S. Serota, to United States of America, Agriculture. Oxidation of pseudosapogenins. 2,894,962, 7-14-59, Cl. 260—397.45.
- Wall, Monroe E., and H. E. Kenney, to United States of America, Agriculture. Process for purification of partially hydrolyzed steroidal saponins. 2,895,953, 7-21-59, Cl. 260—210.5.
- Wall, P., Mfg. Co.: See—
- Schoenwald, Alexander. 2,870,825.
- Wall, Robert L.: See—
- Picozzi, Vincent J., Spooner, and Wall. 2,886,721.
- Wall, Robert L., to General Electric Co. Acoustically treated motor. 2,881,337, 4-7-59, Cl. 310—57.
- Wall, Robert R., and D. L. Peterson, to United States of America, Atomic Energy Commission. Positioning device. 2,904,168, 9-15-59, Cl. 203—260.
- Wall, T., & Sons Ltd.: See—
- Trower, Mervyn H. 2,889,032.
- Wall, Virgil W.: See—
- Ingersoll, Eugene R., Trautwein, and Wall. 2,879,389.
- Wall, William C., to E. I. du Pont de Nemours and Co. Tubeless pneumatic tire. 2,913,034, 11-17-59, Cl. 152—366.
- Wallace, Bernard E. Adjustable leg or the like. 2,896,982, 7-28-59, Cl. 287—58.
- Wallace, David J.: See—
- Straley, James M., Fisher, and Wallace. 2,908,677.
- Straley, James M., Wallace, and Fisher. 2,871,231.
- Wallace, Edgar C. Method of making investment castings. 2,880,486, 4-7-59, Cl. 22—196.
- Wallace, Edward. Shears. 2,873,525, 2-17-59, Cl. 30—248.
- Wallace, Frank B. Ear mounted hearing aid device. 2,874,231, 2-17-59, Cl. 179—107.
- Wallace, Frank C.,  $\frac{1}{2}$  to H. H. Helbush, and  $\frac{1}{2}$  to E. R. Livingston. Detachable handle for gas-loaded dispensing containers. 2,877,934, 3-17-59, Cl. 222—323.
- Wallace, Frank C., to H. H. Helbush and E. R. Livingston. Lock nut having contractible core actuatable in two locking positions. 2,882,948, 4-21-59, Cl. 151—19.
- Wallace, Frederick J., to American Cystoscope Makers, Inc. Electrosurgical instrument. 2,888,017, 5-26-59, Cl. 128—303.15.
- Wallace, Frederick J., to American Cystoscope Makers, Inc. Surgical retaining device. 2,898,917, 8-11-59, Cl. 128—350.
- Wallace, Frederick J., to American Cystoscope Makers, Inc. Combined urethral stone remover and drain. 2,918,919, 12-29-59, Cl. 128—328.
- Wallace, Glen W., and A. A. Kuzmitz, to Bendix Aviation Corp. Emergency safety mechanism for fuel control devices. 2,880,580, 4-7-59, Cl. 60—39.28.
- Wallace, H. W., & Co. Ltd.: See—
- More, Arthur R. 2,914,937.
- Wallace, Henry W., to General Electric Co. Blanket over-heat protector. 2,914,645, 11-24-59, Cl. 219—20.
- Wallace, James B.: See—
- Dyer, Lloyd W., Born, and Wallace. 2,913,513.
- Wallace, James M., to Westinghouse Electric Corp. Polyphase circuit interrupter. 2,871,414, 1-27-59, Cl. 317—22.
- Wallace, James M., to Westinghouse Electric Corp. Instrument frame structure. 2,909,729, 10-20-59, Cl. 324—137.
- Wallace, James M., Jr., to Kidde Mfg. Co., Inc. Fluid pressure control and relief valve. 2,884,941, 5-5-59, Cl. 137—116.3.
- Wallace, James M., Jr., to The Goodyear Tire & Rubber Co. Vinyl halide resin containing a substituted tin mercaptide. 2,888,435, 5-26-59, Cl. 260—45.75.
- Wallace, Jeffrey J., to Gullett Gin Co. Stick remover attachment for cotton extractors and combination of extractor and stick remover. 2,898,636, 8-11-59, Cl. 19—37.
- Wallace, Jeffrey J., to Gullett Gin Co. Cotton precleaning apparatus for removing sticks, green leaves, and like trash. 2,902,722, 9-8-59, Cl. 19—67.
- Wallace, John, and D. R. Lane, to Burroughs Corp. Article feeding apparatus. 2,905,516, 9-22-59, Cl. 312—97.
- Wallace, John D.: See—
- Brown, James R., Jr., and Wallace. 2,919,399.
- Wallace, John H., to U.S. Electrical Motors, Inc. System for controlling induction motor speeds. 2,895,096, 7-14-59, Cl. 318—146.
- Wallace, John W.: See—
- Armstrong, Blair D., and Wallace. 2,894,303.
- Wallace, Kenneth R., to Essex Wire Corp. Electric switch. 2,900,460, 8-18-59, Cl. 200—6.
- Wallace, Marcel, to Panoramic Radio Products, Inc. Proximity indicator. 2,886,796, 5-12-59, Cl. 340—27.
- Wallace, Milner W., to International Telephone and Telegraph Corp. Cold cathode discharge tube. 2,903,624, 9-8-59, Cl. 315—84.6.
- Wallace, R., & Sons Mfg. Co.: See—
- Bakos, Joseph A., McGuire, and Kensel. 2,868,042.
- Wallace, Richard A., to Burroughs Corp. Mobile and stationary furniture support. 2,879,075, 3-24-59, Cl. 280—44.
- Wallace, Robert E., Sr. Portable compound pressure booster. 2,869,326, 1-20-59, Cl. 60—54.5.
- Wallace, Robert L., Jr.: See—
- Gianola, Umberto F., and Wallace. 2,876,419.
- Linville, John G., and Wallace. 2,880,330.
- Wallace, Robert T., to Owens-Illinois Glass Co. Closure assembly. 2,893,456, 7-7-59, Cl. 150—5.
- Wallace, Thomas H.: See—
- Brown, William E., McVeagh, and Wallace. 2,900,336.
- Wallace & Tiernan Inc.: See—
- Booth, George M. 2,904,401.
- Ill, Edward J. 2,892,360.
- Marks, Henry C., Joiner, and Parker. 2,903,361.
- Scudi, John V., Childress, and Reiser. 2,881,166.
- Wallace, Vard B., to Vard Products Inc. Drafting machine indexing means. 2,900,728, 8-25-59, Cl. 33—79.
- Wallace, William, Co.: See—
- Kinkead, Alan. 2,911,932.
- Kinkead, Alan. 2,916,983.
- Wallace, William E., to General Aniline & Film Corp. Process of preparing 8-amino-1-naphthosulfonamides. 2,902,487, 9-1-59, Cl. 260—247.1.
- Wallace, William G.: See—
- Hickey, John L., and Wallace. 2,868,036.
- Wallace, William G., and H. Skantz, to Aluminium Laboratories Ltd. Electrolyte for aluminum reduction. 2,915,443, 12-1-59, Cl. 204—67.
- Wallach, Bernard H. Skid indicator for vehicles. 2,869,852, 1-20-59, Cl. 264—1.
- Wallack, Stanley, to United States of America, Army. Dosimeter. 2,902,605, 9-1-59, Cl. 250—83.
- Wallberg, Marshall: See—
- Heidergott, Harry W., and Wallberg. 2,910,768.
- Wallberg, Marshall, to Western Electric Co., Inc. Article feeding device and guiding mechanism. 2,916,125, 12-8-59, Cl. 193—40.
- Walbillich, Jacob R. Tool for opening money sacks and packages. 2,913,822, 11-24-59, Cl. 30—294.
- Walldov, Gustav A. Water-soluble fish bait and method. 2,874,048, 2-17-59, Cl. 99—3.
- Wallen, Emil O. L., to Leje & Thurne Aktiebolag. Apparatus for separating solid particles suspended in a liquid. 2,869,728, 1-20-59, Cl. 210—526.
- Wallen, Emil O. L., to Leje & Thurne Aktiebolag. Method of treating fibre pulp for the production of fibre products such as paper, fibre boards and the like. 2,887,430, 5-19-59, Cl. 162—149.
- Wallenberg, Fritz, to General Aniline & Film Corp. Roller positioning apparatus for coating machines. 2,915,038, 12-1-59, Cl. 118—249.
- Wallenfang, Kurt, to Steatit-Magnesia Akt. Automatic measuring device for inductors. 2,902,645, 9-1-59, Cl. 324—59.
- Wallenhorst, Richard G.: See—
- Dupre, Henry P., Reischer, and Wallenhorst. 2,868,051.
- Waller, Arnold, to Albatros Superfosfaatfabrieken N.V. Weighing appliance. 2,914,290, 11-24-59, Cl. 249—2.
- Waller, Campbell E.: See—
- Ernst, Hans, and Waller. 2,885,766.
- Waller, Campbell E., to The Cincinnati Milling Machine Co. Automatic indexing mechanism. 2,885,910, 5-12-59, Cl. 74—817.
- Waller, Doris: See—
- Waller, Fred. 2,890,619.
- Waller, Fred, deceased; by D. Waller, executrix, to Vitarama Corp. Motion picture camera apparatus with film supply unit separate from film exposure unit. 2,890,619, 6-16-59, Cl. 88—16.6.
- Waller, George J. Ball and throwing stick. 2,902,023, 9-1-59, Cl. 124—5.
- Waller, Joseph B. Bottle carrying case. 2,886,202, 5-12-59, Cl. 220—21.
- Waller, Loren B., to Wil Flo Co. Material spreaders and seeders. 2,919,054, 12-29-59, Cl. 222—135.
- Waller, Milford S.: See—
- Rollins, Harry G., and Waller. 2,916,182.
- Waller, Philip H. Cord retaining device. 2,918,228, 12-22-59, Cl. 242—85.1.
- Waller, Richard C., to The Goodyear Tire & Rubber Co. Method of bonding cord to rubber. 2,917,422, 12-15-59, Cl. 154—90.
- Wallerstedt, Richard J., to Premier Furnace Co. Register or air diffuser. 2,909,982, 10-27-59, Cl. 98—40.
- Walles, Wilhelm E., and W. F. Tousignant, to The Dow Chemical Co. Clarification of beverages. 2,872,321, 2-3-59, Cl. 99—48.
- Walles, Wilhelm E., and W. F. Tousignant, to The Dow Chemical Co. Clarification of beverages. 2,872,322, 2-3-59, Cl. 99—48.
- Walles, Wilhelm E., and W. F. Tousignant, to The Dow Chemical Co. Clarification of beverages. 2,873,192, 2-10-59, Cl. 99—28.
- Walles, Wilhelm E., W. F. Tousignant, and T. Houtman, Jr., to The Dow Chemical Co. Process for the preparation of N-vinyl cyclic amides, carbamates, and lactams. 2,891,058, 6-16-59, Cl. 260—239.3.
- Walles, Wilhelm E., W. F. Tousignant, and T. Houtman, Jr., to The Dow Chemical Co. N-vinyl-x-alkyl-2-oxazolidinone compounds. 2,919,279, 12-29-59, Cl. 260—307.
- Walley, John K.: See—
- Greenhalgh, Norman, and Walley. 2,899,356.
- Walley, Keith H., and G. H. Reman, to Shell Development Co. Rotary contactor. 2,912,310, 11-10-59, Cl. 23—270.5.
- Wallgren, Charles W., to Sun Oil Co. Process for preparing rubber compositions containing clay having adsorbed petroleum hydrocarbons. 2,919,256, 12-29-59, Cl. 260—28.5.
- Wallick, George C.: See—
- Aronofsky, Julius S., Wallick, and Reichertz. 2,867,116.
- Wallin, Arthur S., to Hydrometals, Inc. Coil holder. 2,874,916, 2-24-59, Cl. 242—75.51.
- Wallin, Curtiss C., to Sun Oil Co. Purification of aromatic hydrocarbons using a two stage solid adsorption process. 2,892,001, 6-23-59, Cl. 260—674.



- Wallin, Curtiss C., to Sun Oil Co. Liquid-gas contact reactor. 2,917,372, 12-15-59, Cl. 23-285.
- Wallin, Francis T. Neck seal. 2,895,467, 7-21-59, Cl. 128-30.
- Wallin, John M.: *See*—  
Claridge, Elmond L., and Wallin. 2,886,523.
- Wallin, Sven: *See*—  
Allander, Claes, Alfredsson, and Wallin. 2,899,180.  
Larsson, Gustaf, and Wallin. 2,880,036.  
Larsson, Gustaf, and Wallin. 2,887,178.
- Wallin, Sven W.: *See*—  
Pellmyr, Bengt, and Wallin. 2,888,948.
- Wallin, Walter, to Panavision, Inc. Anamorphosing system. 2,890,622, 6-16-59, Cl. 88-57.
- Wallin, William W.: *See*—  
Cicccone, Patsy, and Wallin. 2,909,209.
- Walling, Cheves T., L. F. McKenney, and R. Geitz, to Lever Brothers Co. Preparation of acyl taurides. 2,903,466, 9-8-59, Cl. 260-401.
- Walling, Francis L.: *See*—  
Mayer, Eugene O., Walling, and Van Ness. 2,882,848.
- Walling, Irvin H.: *See*—  
Schroer, Walter E., Trybinski, and Walling. 2,902,039.
- Wallis, Barnes N. Aerodyne with wings having variable sweep-back. 2,915,261, 12-1-59, Cl. 244-46.
- Wallis, Bernard J.: *See*—  
Ott, Ernst G., and Wallis. 2,884,962.
- Wallis, Cyril T.: *See*—  
Rohr, Henry C., and Wallis. 2,874,770.
- Wallis, Cyril T., to General Motors Corp. Windshield wiper blade assembly. 2,876,478, 3-10-59, Cl. 15-245.
- Wallis, Cyril T., to General Motors Corp. Windshield wiper cable drive assembly. 2,880,445, 4-7-59, Cl. 15-253.
- Wallis, Cyril T., to General Motors Corp. Windshield wiper blade assembly. 2,901,761, 9-1-59, Cl. 15-245.
- Wallis, George L. Apparatus for distributing fertiliser, seeds, or powder or liquid substances on the ground. 2,906,437, 9-29-59, Cl. 222-177.
- Wallis, John S.: *See*—  
Throckmorton, John W., and Wallis. 2,902,981.
- Wallis, Ruth L. Garment display device. 2,889,970, 6-9-59, Cl. 223-68.
- Wallmark, John T., to Radio Corp. of America. Semiconductor devices. 2,875,384, 2-24-59, Cl. 317-234.
- Wallmark, John T., to Radio Corp. of America. Field-effect transistor. 2,900,531, 8-18-59, Cl. 307-88.5.
- Walls, Joseph J., to Clark Equipment Co. Dual tire wheel. 2,918,328, 12-22-59, Cl. 301-13.
- Walls, Patrick J. Transportable lifter. 2,886,286, 5-12-59, Cl. 254-127.
- Walls, Walter. Drilling string float valve. 2,870,784, 1-27-59, Cl. 137-543.
- Wallsteiner, Ewald. Golf training device. 2,899,208, 8-11-59, Cl. 273-182.
- Wallwork, Charles M. G., 1/2 to Henry Wallwork & Co. Ltd. Method of and means for the production of castings. 2,871,527, 2-3-59, Cl. 22-20.
- Wallwork, Henry, & Co. Ltd.: *See*—  
Wallwork, Charles M. G. 2,871,527.
- Walper, Curry O., and H. J. Sehl. Furnace draft controls. 2,869,624, 1-20-59, Cl. 158-1.
- Walpole, Harold L.: *See*—  
Mayo, Alfred M., Walpole, and Nolan. 2,868,959.
- Walraven, George M., to Snap-on Tools Corp. Stud puller for rocker arms and the like. 2,909,835, 10-27-59, Cl. 29-262.
- Walrod, Kenneth N.: *See*—  
Wernsing, Kenneth L., and Walrod. 2,905,993.
- Walsh, Alan, to Commonwealth Scientific and Industrial Research Organization. Monochromator. 2,871,757, 2-3-59, Cl. 88-14.
- Walsh, Arthur G., to National Research Corp. Method of producing zirconium. 2,915,384, 12-1-59, Cl. 75-84.5.
- Walsh, Bruce R.: *See*—  
Blewett, Guy C., McCoy, and Walsh. 2,883,996.
- Walsh, Clark F., to Walsh Mfg. Co. Storage structure for farm crops. 2,917,138, 12-15-59, Cl. 189-3.
- Walsh, Edward J.: *See*—  
Ridley, Oscar E., and Walsh. 2,915,281.
- Walsh, James L.: *See*—  
Bruce, George D., Henle, and Walsh. 2,888,578.
- Walsh, John D. Scheduling strip travel for viewing. 2,886,256, 5-12-59, Cl. 242-55.
- Walsh, John E.: *See*—  
Newton, Albert E., Roske, and Walsh. 2,869,130.
- Walsh, John W.: *See*—  
Haines, Robert M., and Walsh. 2,908,702.  
Haines, Robert M., Walsh, and Annabe. 2,882,232.  
Hitch, Paul E., and Walsh. 2,899,026.
- Walsh, Joseph S.: *See*—  
Eakin, John V., and Walsh. 2,870,891.
- Walsh, Keith J.: *See*—  
Biesanz, Charles W., Sr., and Walsh. 2,874,688.
- Walsh, Kenneth A.: *See*—  
Reavis, James G., Leary, and Walsh. 2,886,410.
- Walsh Mfg. Co.: *See*—  
Walsh, Clark F. 2,917,138.
- Walsh, Maurice J.: *See*—  
Persons, Robert C., and Walsh. 2,880,919.
- Walsh, Maurice J., 1/2 to The Faulhaber Co., and 1/2 to Persons-Majestic Mfg. Co. Coil clip connection for cycle saddle. 2,884,045, 4-28-59, Cl. 155-5.22.
- Walsh, Paul R., and G. D. Mohr, to Clear Fir Products Co. Inc. Feeding apparatus for fibrous particles. 2,879,904, 3-31-59, Cl. 214-17.
- Walsh, Philip J. Alternating current control device. 2,875,378, 2-24-59, Cl. 315-100.
- Walsh, Ralph E.: *See*—  
Laky, Elmer, and Walsh. 2,908,853.
- Walsh, Ralph W.: *See*—  
Lyon, Lucein L. 2,870,581.  
Martin, Earnest E., and Walsh. 2,891,425.  
Martin, Earnest E., and Walsh. 2,891,426.
- Walsh, William E. Apparatus for assembling plugs in primer tubes. 2,908,357, 10-13-59, Cl. 209-72.
- Walsh, William L., to S. H. Pomeroy Co., Inc. Metallic window structures. 2,912,077, 11-10-59, Cl. 189-65.
- Walter, Adolph. Flush valve guides. 2,894,264, 7-14-59, Cl. 4-57.
- Walter, Andrew J., Jr., to The Kraissl Co., Inc. Bottle chuck. 2,899,232, 8-11-59, Cl. 294-65.
- Walter, Andrew T., to Union Carbide Corp. Acrylonitrile-containing terpolymers, composition thereof, and textiles made therefrom. 2,868,756, 1-13-59, Cl. 260-32.4.
- Walter, Andrew T., to Union Carbide Corp. Static-resistant hydrophobic resin composition, shaped article thereof and method for making the latter. 2,874,023, 2-17-59, Cl. 18-54.
- Walter, Andrew T., and D. M. Young, to Union Carbide Corp. Heat-stabilized polychlorotrifluoroethylene. 2,879,257, 3-24-59, Cl. 260-45.9.
- Walter, Arthur, to Firma Pintsch Electro G.m.b.H. Hybrid circuit arrangement. 2,909,733, 10-20-59, Cl. 333-11.
- Walter, B., & Co., Inc.: *See*—  
Walter, Thomas G. 2,872,260.
- Walters, Bruce G. Napkin fastening means. 2,902,734, 9-8-59, Cl. 24-7.
- Walter, Carl W. Method and apparatus for handling and conditioning needle devices. 2,877,777, 3-17-59, Cl. 134-23.
- Walter, Charles R., Jr., to Allied Chemical Corp. Production of phenoxyacetaldehyde. 2,918,497, 12-22-59, Cl. 260-600.
- Walter, Charles T., to Continental Can Co., Inc. Can arranging and packaging method and apparatus. 2,891,361, 6-23-59, Cl. 53-26.
- Walter, Charles W.: *See*—  
Richardson, Olan, and Walter. 2,916,780.
- Walter, Clarence: *See*—  
Badger, Henry R., Pratt, and Walter. 2,876,277.
- Walter, Edward M.: *See*—  
Mahon, Joseph E., Walter, and Heyer. 2,885,538.
- Walter, Frank. Sleeve adjuster. 2,914,773, 12-1-59, Cl. 2-269.
- Walter, Frederick A.: *See*—  
Marshall, James W., and Walter. 2,914,844.
- Walter, Gerard O.: *See*—  
Grube, Wolfgang O., Shultz, and Walter. 2,917,980.
- Walter, Hellmuth, to Worthington Corp. Pulse equalizing energy converter. 2,910,827, 11-3-59, Cl. 60-29.
- Walter, Hellmuth, to Worthington Corp. Pressure fluid generator. 2,916,877, 12-15-59, Cl. 60-39.55.
- Walter, Henry C., to E. I. du Pont de Nemours and Co. Elastomeric condensation products prepared from polyether glycols. 2,871,227, 1-27-59, Cl. 260-77.5.
- Walter, Hermine J. Variable gear. 2,875,628, 3-3-59, Cl. 74-349.
- Walter, Hermine J. Recovery of chlorine from hydrochloric acid. 2,873,105, 3-17-59, Cl. 23-219.
- Walter, John M., to The G. A. Gray Co. Counterbalanced cap for arbor supports. 2,868,084, 1-13-59, Cl. 90-11.
- Walter, John M., and J. H. Worthen, to The G. A. Gray Co. Measuring device for machine tools. 2,881,527, 4-14-59, Cl. 33-125.
- Walter & Johnson: *See*—  
Johnson, Howard A. 2,908,048.
- Walter, Joseph H.: *See*—  
Chidsey, Francis A., Jr., and Walter. 2,900,772.
- Walter, Marcus E.: *See*—  
Cervi, Armando, and Walter. 2,912,591.
- Walter, Ned F., R. M. Waters, and J. M. Lee, to The Dow Chemical Co. Preparation of alpha-haloalkyl ethers. 2,888,490, 5-26-59, Cl. 260-614.
- Walter, Otto L.: *See*—  
Luckhardt, Johannes. 2,870,821.
- Walter, Robert L.: *See*—  
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- Walter, Thomas G., to B. Walter & Co., Inc. Adjustable support for table drop leaf. 2,872,260, 2-3-59, Cl. 300-65.
- Walterisation Co. Ltd.: *See*—  
Drysedale, Royston F., and Burton. 2,877,148.
- Walters, Arthur L. Furnace sawdust burners. 2,879,727, 2-31-59, Cl. 110-29.
- Walters, Gerald E. Sign with interchangeable letters. 2,875,540, 3-3-59, Cl. 40-140.
- Walters, Gerald E. Sign. 2,887,801, 5-26-59, Cl. 40-128.
- Walters, Gerald E. Sign arrangement. 2,887,803, 5-26-59, Cl. 40-130.
- Walters, Harold A.: *See*—  
Cipriano, Angelo L., Walters, and Clock. 2,917,407.  
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- Walters, Harry D.: *See*—  
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- Walters, Harry W. Construction kit for model buildings. 2,871,619, 2-3-59, Cl. 46-19.



- Walters, Howard W., Jr., to Jennings Radio Mfg. Corp. Vacuum relay. 2,908,780, 10-13-59, Cl. 200-87.
- Walters, Peter C., and R. B. Davis. Patty-former and cooker. 2,896,528, 7-28-59, Cl. 99-436.
- Walters, Robert R.: *See*—
- Girardot, Peter R., and Walters. 2,906,771.
- Walters, Shelby L.: *See*—
- Batutis, Edward F., and Walters. 2,879,157.
- Walters, William R. Apparatus for and in method of conditioning railway ballast. 2,900,745, 8-25-59, Cl. 37-104.
- Walterscheid-Müller, Bernhard, and K. Schröter. Overload clutch. 2,909,047, 10-20-59, Cl. 64-29.
- Waltheil, Kenneth H. Adjustable door jack table. 2,904,087, 9-15-59, Cl. 144-288.
- Walther Buromaschinen Gesellschaft m.b.H.: *See*—
- Gelling, Helmut. 2,904,248.
- Walther & Cie Aktiengesellschaft: *See*—
- Benoit, Josef. 2,918,137.
- Hovellmann, Heinrich. 2,867,036.
- Walther & Co. G.m.b.H.: *See*—
- Walther, Georg, and Haberkorn. 2,906,454.
- Walther, Frederick C.: *See*—
- Hilka, John, and Walther. 2,895,764.
- Olley, Maurice, Walther, and Wolfram. 2,883,232.
- Walther, Georg, and O. Haberkorn, to Walther & Co., G.m.b.H. Ten-key calculating machine. 2,906,454, 9-29-59, Cl. 235-60.23.
- Walther, George, Sr., and W., to The Dayton Steel Foundry Co. Trailer coupler construction. 2,885,222, 5-5-59, Cl. 280-436.
- Walther, Herbert C.: *See*—
- Jobus, Richard A., and Walther. 2,914,253.
- Walther, Rudolf E. Process and apparatus for the manufacture of folded cartons. 2,912,907, 11-17-59, Cl. 93-44.
- Walther, William: *See*—
- Walther, George, Sr., and W. 2,885,222.
- Walther, William, to The Dayton Steel Foundry Co. Adjustable fifth-wheel mounting. 2,903,275, 9-8-59, Cl. 280-407.
- Walti, Hans: *See*—
- Roth, Franz, and Walti. 2,876,913.
- Walte, Henry C., to Radio Corp. of America. Electron tube insertion apparatus. 2,891,305, 6-23-59, Cl. 29-206.
- Walton, Carl S., and W. F. White, to United States Steel Corp. Hardenable stainless steel. 2,892,702, 6-30-59, Cl. 75-124.
- Walton, Charles A., to International Business Machines Corp. Shaft position indicating device. 2,872,671, 2-3-59, Cl. 340-347.
- Walton, Charles B. Operative and prosthetic paralleling instrument. 2,910,773, 11-3-59, Cl. 32-67.
- Walton, Charles M. Governor operated valve. 2,903,003, 9-8-59, Cl. 137-33.
- Walton, Edward: *See*—
- Holly, Frederick W., Wagner, Walton, and Hoffman. 2,875,238.
- Holly, Frederick W., Wagner, Walton, and Hoffman. 2,875,239.
- Walton, Edward, to Merck & Co., Inc. Synthesis of 3,5-dihydroxy-3 methylpentanoic acid and the delta-lactone thereof. 2,915,532, 12-1-59, Cl. 260-343.5.
- Walton, Edward, and A. F. Wagner, to Merck & Co., Inc. Ephedrine salts of 7-carboethoxy-3-acetylthioheptanoic acid. 2,875,227, 2-24-59, Cl. 260-455.
- Walton Engineering Co. Ltd.: *See*—
- Spicer, Harold E., Crosby, and Simpson. 2,894,689.
- Walton, George M.: *See*—
- Brixius, Jacob K., and Walton. 2,870,864.
- Walton, George W., and D. L. McCarty, to Ideco, Inc. Retrieving tool for well bores. 2,891,621, 6-23-59, Cl. 166-65.
- Walton, Glen W., to Telecomputing Corp. Overrunning clutch. 2,870,889, 1-27-59, Cl. 192-22.
- Walton, Harold F., and T. D. Waugh, to Morton Chemical Corp. Preparation of organo mercuric hydroxides. 2,871,252, 1-27-59, Cl. 260-431.
- Walton, John F., and J. H. Reaves, to Elcor, Inc. Isolated power supply. 2,914,719, 11-24-59, Cl. 321-8.
- Walton, John R., to Chicopee Mfg. Corp. Looms. 2,902,058, 9-1-59, Cl. 139-126.
- Walton, John T., to Hugh Wood and Co. Ltd. Bars for supporting the roof in mines and for like purposes. 2,915,328, 12-1-59, Cl. 287-99.
- Walton, Neil D.: *See*—
- Dodge, Ronald D., and Walton. 2,905,304.
- Walton, Neil D., and H. R. Kruspe, to International Business Machines Corp. Typewriter carriage return and indexing mechanism. 2,902,133, 9-1-59, Cl. 197-66.
- Walton, Richard A., to The Dow Chemical Co. Extrusion apparatus. 2,894,623, 7-14-59, Cl. 207-2.
- Walton, Richard K.: *See*—
- Wilson, Joseph E., and Walton. 2,915,492.
- Wilson, Joseph E., and Walton. 2,915,499.
- Wilson, Joseph E., and Walton. 2,915,500.
- Walton, Richard R. Condensing traveling sheet materials. 2,915,109, 12-1-59, Cl. 154-30.
- Walton, Robert S. Decoy. 2,884,729, 5-5-59, Cl. 43-2.
- Watts, Earl F., to Sylvania Electric Products Inc. Siphoning apparatus. 2,871,893, 2-3-59, Cl. 141-121.
- Waltz, Edward, to The E. O. Bulman Mfg. Co., Inc. Roll paper cutter attachment. 2,878,980, 3-24-59, Cl. 225-39.
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- Walulik, Albert, and J. R. Wilhelm, to Purolator Products, Inc. Filter cartridge. 2,884,133, 4-28-59, Cl. 210-136.
- Walworth Co.: *See*—
- Bryant, Austin U. 2,873,086.
- Bryant, Austin U. 2,882,009.
- Bryant, Austin U. 2,882,010.
- Bryant, Austin U. 2,885,176.
- Bryant, Austin U. 2,889,134.
- Bryant, Austin U. 2,895,495.
- Bryant, Austin U. 2,904,306.
- Walworth Engineering Co.: *See*—
- Conerty, James E. 2,909,312.
- Walworth, Robert S., to Consolidated Foundries and Mfg. Corp. Mobile tiered assemblage. 2,877,507, 3-17-59, Cl. 20-1126.
- Walworth, Vivian K.: *See*—
- Ryan, William H., and Walworth. 2,868,077.
- Ryan, William H., and Walworth. 2,892,382.
- Walworth, Vivian K., and W. H. Ryan, to Polaroid Corp. Light-polarizing process and product. 2,892,383, 6-30-59, Cl. 88-65.
- Walz, Bruno. Tube cleaning mechanism. 2,882,539, 4-21-59, Cl. 15-3.5.
- Walzwerke Neviges, Willy H. Schlieker & Co.: *See*—
- Schlieker, Willy H., Kunz, and Pletsch. 2,912,563.
- Wampach, Robert G., to Teletype Corp. Telegraph station selector. 2,905,746, 9-22-59, Cl. 178-41.
- Wamsler, Karl: *See*—
- Schmidt, Erich, and Wamsler. 2,905,713.
- Wamsley, Arnold H.: *See*—
- Dinnison, Arthur D., Wamsley, and Hansen. 2,902,935.
- Wamsley, Floyd B. Combination wheel chair and stretcher. 2,869,614, 1-20-59, Cl. 155-30.
- Wamsley, Harry C., and P. A. Wells, Jr., to The Quaker Oats Co. Process for manufacturing furfural. 2,884,428, 4-28-59, Cl. 260-347.9.
- Wamsley, Ray E. Adjustable fastener for the lid of the luggage compartment of an automobile. 2,916,902, 12-15-59, Cl. 70-93.
- Wandas, Joseph A.: *See*—
- Lindstrom, Oscar H., and Wandas. 2,914,795.
- Wandel, Oscar A., to Fastner Corp. Multiple fastener driving machine. 2,884,637, 5-5-59, Cl. 1-106.
- Wandel, Oscar A., to Fastener Corp. Magazine construction. 2,909,780, 10-27-59, Cl. 1-49.
- Wandel, Oscar A., to Fastener Corp. Fastener driving apparatus. 2,915,754, 12-8-59, Cl. 1-106.
- Wandel, Oscar A., and R. H. Doyle, to Fastener Corp. Fastener driving apparatus. 2,887,686, 5-26-59, Cl. 1-44.4.
- Wandell, George F., and L. R. Allen, Jr., to Westinghouse Electric Corp. Actuating mechanism. 2,901,910, 9-1-59, Cl. 74-1.
- Wander Co. The: *See*—
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- Wanek Otto N.: *See*—
- Mullaney, William J., and Albright. 2,881,489.
- Waner, Donald W.: *See*—
- Morse, John F., and Waner. 2,907,421.
- Morse, John F., and Waner. 2,909,776.
- Wang, An. Anti coincidence circuit. 2,901,637, 8-25-59, Cl. 307-88.
- Wang, An. Frequency meters. 2,913,664, 11-17-59, Cl. 324-78.
- Wang, Hsioh W.: *See*—
- Sze, Morgan C., and Wang. 2,913,493.
- Wang, Wensan. Disposable all-weather hat. 2,869,136, 1-20-59, Cl. 2-177.
- Wang, Wensan. Pocket liquid cooling device. 2,900,808, 8-25-59, Cl. 62-294.
- Wangel, Jørgen A., to Aktieselskabet de Danske Sukkerfabrikker. Process for the purification of lactic acid. 2,885,436, 5-5-59, Cl. 260-535.
- Wangelin, Don J.: *See*—
- Sayers, Winston, and Wangelin. 2,902,857.
- Wangelin, Don J., and E. C. Bowen, to The Pure Oil Co. Electric arc reactor. 2,900,321, 8-18-59, Cl. 204-323.
- Wangerin, Elmer O., and E. B. Schoonmaker, to Eastman Kodak Co. Magazine interlock mechanism. 2,912,899, 11-17-59, Cl. 88-17.
- Wangerow, Leroy C., to Serviced Products Corp. Water-stop connection. 2,867,160, 1-6-59, Cl. 94-18.
- Waning, Hendrik: *See*—
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- Waning, Hendrik, to Naamloze Vennootschap Kunstzijdespinnerij Nyma. Process for dyeing products of copolymers of acrylonitrile. 2,900,217, 8-18-59, Cl. 8-42.
- Waninger, Gilbert, and K. Engel. Adjustment of machine parts. 2,901,947, 9-1-59, Cl. 90-16.
- Waninger, Gilbert M. Machine tools. 2,889,756, 6-9-59, Cl. 90-37.
- Wankel, Felix: *See*—
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- Wankel, Felix, to NSU Werke A.G., and said F. Wankel. Seals for working spaces of rotary piston machines. 2,880,045, 3-31-59, Cl. 309-22.
- Wanlass, Cravens L., to North American Aviation, Inc. Logical gating system for digital computers. 2,873,363, 2-10-59, Cl. 250-27.
- Wanlass, Cravens L., to North American Aviation, Inc. Transistor flip-flop circuit. 2,880,332, 3-31-59, Cl. 307-88.5.



- Wanlass, Cravens L., to North American Aviation, Inc. Transistor multivibrator. 2,888,579, 5-26-59, Cl. 307—88.5.
- Wanlass, Cravens L., to North American Aviation, Inc. Transistor multivibrator. 2,888,580, 5-26-59, Cl. 307—88.5.
- Wanlass, Cravens L., to Thompson Ramo Wooldridge Inc. Current feedback multivibrator utilizing transistors. 2,916,636, 12-8-59, Cl. 307—88.5.
- Wanlass, Cravens L., to Thompson Ramo Wooldridge Inc. Multivibrator circuits with improved power-frequency capacity. 2,916,637, 12-8-59, Cl. 307—88.5.
- Wanlass, Cravens L. and S. D., to Ford Motor Co. Magnetic head. 2,915,597, 12-1-59, Cl. 179—100.2.
- Wanlass, Sylvan D.: *See—*
- Wanlass, Cravens L. and S. D. 2,915,597.
- Wann, Laymond D., to Continental Oil Co. Wide-range resistance and resistivity measuring apparatus. 2,871,446, 1-27-59, Cl. 324—64.
- Wann, Richard L., to The Firestone Tire & Rubber Co. Tubeless tire. 2,874,745, 2-24-59, Cl. 152—353.
- Wannamaker, William H., Jr., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 2,891,220, 6-16-59, Cl. 324—78.
- Wannamaker, William H., Jr., to Minneapolis-Honeywell Regulator Co. Electrical power measuring apparatus. 2,894,207, 7-7-59, Cl. 324—142.
- Wannemacker, Richard A. Arcless high voltage cable connectors. 2,874,336, 2-17-59, Cl. 317—11.
- Wanner, Edwin F. Filter beds and tile. 2,874,844, 2-24-59, Cl. 210—150.
- Wanner, John J.: *See—*
- Heyer, Norbert A. 2,874,837.
- Wanskuck Co.: *See—*
- Olson, Robert V. 2,897,715.
- Olson, Robert V. 2,897,716.
- Wantosch, Josef, to VEB Werk für Signal- und Sicherungstechnik, Berlin. Polarized magnetic system for relays. 2,892,055, 6-23-59, Cl. 200—93.
- Wanttaja, Glenn E.: *See—*
- Booth, Frederick E., Jr., Wanttaja, and Colten. 2,915,896.
- Todd, Harold E., Meyer, Gaither, Meek, and Wanttaja. 2,880,537.
- Wanty, Byron G.: *See—*
- Vetter, William F., and Wanty. 2,881,422.
- Wantz, Clarence. Timer switch. 2,906,328, 9-29-59, Cl. 161—1.
- Wantz, Clarence, and R. F. Garner, to Robertshaw-Fulton Controls Co. Control device. 2,898,439, 8-4-59, Cl. 219—37.
- Wanzer, Arthur W. Outboard propeller mechanism for vessels. 2,902,967, 9-8-59, Cl. 115—41.
- Warblow, Garrett R. Boat steering mechanism. 2,878,768, 3-24-59, Cl. 114—153.
- Warburton, Kenneth R., to The Hoover Co. Suction cleaner and flexible and extensible hose therefor. 2,914,790, 12-1-59, Cl. 15—327.
- Ward, Adelbert V., to Morse-Starrett Products Co. Squeegee. 2,905,960, 9-29-59, Cl. 15—245.
- Ward, Annchen H. Readily detachable potted plant protector. 2,894,358, 7-14-59, Cl. 47—34.
- Ward, Arthur L., to Square D Co. Positional control for brake shoes. 2,871,994, 2-3-59, Cl. 188—75.
- Ward, Bertrand M.: *See—*
- Williams, Ernest E., and Ward. 2,893,490.
- Ward, C. E., Co. The: *See—*
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- Ward, Charles D. Disposable, one-use toothbrush. 2,879,533, 3-31-59, Cl. 15—167.
- Ward, Curtis E.: *See—*
- Jepsen, Robert L., and Ward. 2,888,599.
- Ward, Dallas M. Birdhouse for martins. 2,915,040, 12-1-59, Cl. 119—23.
- Ward, Derrick A.: *See—*
- Warner, Arthur R., and Ward. 2,892,125.
- Ward, Francis M.: *See—*
- Harned, John L., Knudsen, and Ward. 2,882,721.
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- Miller, Robert H., and Ward. 2,916,096.
- Ward Industries Corp.: *See—*
- Davis, Ernest, and McCallum. 2,886,178.
- Ward, Irving A.: *See—*
- Bletcher, Ralph E., and Ward. 2,867,230.
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- Bletcher, Ralph E., and Ward. 2,894,695.
- Ward, James C., to Alaska Juneau Gold Mining Co. Torque arm connection. 2,880,991, 4-7-59, Cl. 267—67.
- Ward, Jarrett M. Method of extracting crab meat. 2,903,737, 9-15-59, Cl. 17—45.
- Ward, John W.: *See—*
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- Ward, Lawrence T. Metering button valve assembly. 2,892,576, 6-30-59, Cl. 222—394.
- Ward Leonard Electric Co.: *See—*
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- Clark, Robert L. 2,904,657.
- Ward, Lyle W.: *See—*
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- Ward, Marshall L., and L. Teal, to Callaway Mills Co. Tufting implement for producing high and low pile. 2,879,731, 3-31-59, Cl. 112—80.
- Ward, Perry T.: *See—*
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- Ward, Raymond C.: *See—*
- Walker, Bernard F., Ward, and Godehn. 2,905,968.
- Ward, Samuel J., W. E. Holiman, and M. C. Cross. Transformer mounting bracket. 2,910,261, 10-27-59, Cl. 248—230.
- Ward, Theodore S. Road barricade. 2,896,918, 7-28-59, Cl. 256—64.
- Ward, Truman L.: *See—*
- Feuge, Reuben O., and Ward. 2,874,175.
- Wardell, Ross D. Hand truck. 2,869,886, 1-20-59, Cl. 280—47.18.
- Wardell, Verris C. Packaging method and apparatus. 2,881,574, 4-14-59, Cl. 53—29.
- Warden, Albert L.: *See—*
- Drew, Howard E., Warden, and Brodeur. 2,867,849.
- Warden, Eunice I. Earring with oscillating ornament support. 2,914,928, 12-1-59, Cl. 63—14.
- Warden, Frederick W.: *See—*
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- Warder, George E. E.: *See—*
- Cail, Roland A., and Warder. 2,894,186.
- Wardley, John: *See—*
- Lubszynski, Hans G., and Wardley. 2,900,280.
- Wardley, John, to Electric & Musical Industries Ltd. Formation of conducting layers. 2,915,039, 12-1-59, Cl. 118—301.
- Wardwell, George W., Jr., to Sargent & Co. Guard bolt construction for door locks. 2,890,074, 6-9-59, Cl. 292—169.
- Ware, Ben F., to The Ajax Mfg. Co. Multiple-draw wire drawer. 2,881,908, 4-14-59, Cl. 205—14.
- Ware, Colin C., R. F. Blake, and E. A. Demers, to Specialties Development Corp. System for supplying controlled frequency power. 2,899,566, 8-11-59, Cl. 307—73.
- Ware, Thomas E. Fish lure. 2,913,847, 11-24-59, Cl. 43—42.06.
- Ware, Vernon D. Vibratory reducing machine. 2,908,271, 10-13-59, Cl. 128—33.
- Ware, Willis C. Composition for treating synthetic films, strands and fabrics. 2,876,127, 3-3-59, Cl. 106—287.
- Wareham, Calvin C.: *See—*
- Selvaggio, John D., and Wareham. 2,869,845.
- Wareham, Richard R.: *See—*
- Bing, Herbert A., Wareham, and Wolff. 2,873,659.
- Wareham, Richard R., to Polaroid Corp. Photographic apparatus. 2,869,444, 1-20-59, Cl. 95—13.
- Wareham, Richard R., to Polaroid Corp. Shutter and diaphragm mechanism for cameras. 2,878,736, 3-24-59, Cl. 95—64.
- Wares, Joseph G., to Duro-Test Corp. Fluorescent lamp. 2,906,905, 9-29-59, Cl. 313—109.
- Warf, James C., to United States of America, Atomic Energy Commission. Solvent extraction of thorium values from aqueous solutions. 2,883,264, 4-21-59, Cl. 23—14.5.
- Warfield, Robert B., and L. F. Stumpf, to Bristol-Myers Co. Acrylic acid polymer laxative compositions. 2,909,462, 10-20-59, Cl. 167—56.
- Wargo, Peter, to Stewart-Warner Corp. Electric speed indicating instrument. 2,871,433, 1-27-59, Cl. 318—166.
- Wargo, Peter, to Regents of the University of Minnesota. Method of preparing emitter surfaces. 2,878,093, 3-17-59, Cl. 316—21.
- Wargo, Peter, to Stewart-Warner Corp. Actuator for a two-speed adapter. 2,893,256, 7-7-59, Cl. 74—370.
- Wargons Aktiebolag: *See—*
- Bergh, Sven S. 2,881,068.
- Bergh, Sven S., Troberg, and Ericsson. 2,875,104.
- Warhaftig, Irving, and E. Funk. Embossed orientation printing. 2,918,731, 12-29-59, Cl. 35—49.
- Warhus, John D., to General Electric Co. Combination washer-dryer drive mechanism. 2,881,633, 4-14-59, Cl. 74—472.
- Warhus, John D., to General Electric Co. Domestic appliance. 2,914,217, 11-24-59, Cl. 222—76.
- Waring, John W., to Philco Corp. Input coupling circuit. 2,871,306, 1-27-59, Cl. 179—171.
- Waring, John W., to Philco Corp. Constant bandwidth coupling system. 2,912,656, 11-10-59, Cl. 333—77.
- Waring, Robert W. Electrostatic apparatus. 2,897,424, 7-28-59, Cl. 317—262.
- Waring, Robert W. Method of, and apparatus for producing electrostatic force. 2,897,425, 7-28-59, Cl. 317—262.
- Waring, Wilson S., to Imperial Chemical Industries Ltd. Spirohydantoin from 4-chlorohydrindone. 2,872,454, 2-3-59, Cl. 260—309.5.
- Warman, Bloomfield J., to Siemens Edison Swan Ltd. Electrical impulse counters. 2,887,590, 5-19-59, Cl. 307—88.5.
- Warman, Bloomfield J., to Siemens Edison Swan Ltd. Telephone and like signalling systems. 2,887,617, 5-19-59, Cl. 315—84.6.
- Warman, Bloomfield J., to Siemens Edison Swan Ltd. Key-senders of the kind used in telephone systems. 2,917,586, 12-15-59, Cl. 179—18.
- Warman, Charles P., Jr., to Wichita Clutch Co., Inc. Axially expandable air tube, multiple clutch reversing unit. 2,910,881, 11-3-59, Cl. 74—379.
- Warmoltz, Nicolaas, to North American Philips Co., Inc. Vacuum discharge tube. 2,880,351, 3-31-59, Cl. 313—259.



- Warmoltz, Nicolaas, to North American Philips Co., Inc. Glow discharge apparatus for measuring low gas pressures. 2,899,605, 8-11-59, Cl. 315-108.
- Warmoltz, Nicolaas, and H. B. G. Casimir, to North American Philips Co., Inc. Cooler for use in vapor jet diffusion pumps. 2,886,236, 5-12-59, Cl. 230-102.
- Warn, Arthur M. Wheel-hub clutch. 2,884,101, 4-28-59, Cl. 192-44.
- Warnant, Julien, to Les Laboratoires Francais de Chimiotherapie. Process and intermediates to produce substituted 4-bromo-21-acetoxy-pregnane-3,20-dione compounds. 2,915,535, 12-1-59, Cl. 260-397.45.
- Warnant, Julien, G. Nomine, and G. Rousseau, to Les Laboratoires Francais de Chimiotherapie. 3a succinoxy-11-hydroxy-12-keto  $\Delta^5$ , (11)-cholenic acid and its derivatives. 2,894,960, 7-14-59, Cl. 260-397.1.
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- Wilhelm, Joseph A. and G. Warnat, and Zink. 2,877,790.
- Warnberg, A. E.: *See*—
- Hester, William H., Jr. 2,913,153.
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- Warner, Amos C., to Columbian Carbon Co. Carbon black process. 2,915,372, 12-1-59, Cl. 23-209.4.
- Warner, Arthur R., and D. A. Ward. Electric discharge tube systems. 2,892,125, 6-23-59, Cl. 315-166.
- Warner Bros. Pictures, Inc.: *See*—
- Gaze, Fred W., and Tondreau. 2,870,672.
- Tondreau, Albert W. 2,868,065.
- Wissmann, Joseph T. 2,876,294.
- Warner, Chauncey E.: *See*—
- Foster, Harold S., Bosch, and Warner. 2,903,112.
- Warner, Clifford F., to Larkin Packer Co., Inc. Apparatus for cementing a liner in a well bore. 2,876,844, 3-10-59, Cl. 166-184.
- Warner, Douglas K. Gas turbine condensers. 2,894,729, 7-14-59, Cl. 257-24.
- Warner Electric Brake & Clutch Co.: *See*—
- Pierce, William C. 2,885,048.
- Pierce, William C. 2,899,037.
- Pierce, William C., and Modersohn. 2,914,714.
- Warner, Eugene T.: *See*—
- McClure, Donald J., and Warner. 2,879,842.
- Warner, John M.: *See*—
- Ekkvall, Harold N., Warner, and Flower. 2,888,509.
- Warner-Lambert Pharmaceutical Co.: *See*—
- Abraham, Milton E., and Wilbert. 2,884,415.
- Bowes, Henry A. 2,872,376.
- Fand, Theodore I. 2,909,525.
- Warner, Paul F.: *See*—
- Mertz, Clyde W., and Warner. 2,886,616.
- Warner, Paul F., to Phillips Petroleum Co. Preparation of alkali metal dispersions. 2,918,435, 12-22-59, Cl. 252-309.
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- Warner, Scott D.: *See*—
- Nelson, John F., Warner, and Whitney. 2,869,738.
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- Ebersold, Robert C. 2,890,715.
- Fisher, John, and Darash. 2,884,014.
- Leckler, Harry H. 2,873,485.
- Nichta, John J. 2,885,765.
- Schuman, Ralph H. 2,908,252.
- Selby, Jack H. 2,878,528.
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- Shook, William M. 2,870,926.
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- Tandler, William S. 2,880,516.
- Tandler, William S., and Grossman. 2,892,257.
- Treer, Ross B. 2,915,922.
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- Gakle, Wendolyn F., Lefler, Warner, and Holmgren. 2,878,855.
- Warnes, Frederick E. Cutter. 2,867,901, 1-13-59, Cl. 30-151.
- Warnkey, Harold J., to A. J. Rose Mfg. Co. Pulley and hub assembly. 2,915,908, 12-8-59, Cl. 74-230.8.
- Warnock, James T., to Philco Corp. Electrical circuits employing semiconductor devices. 2,884,544, 4-28-59, Cl. 307-88.5.
- Warnow, Morton C. Holders for photographic negatives and prints. 2,871,601, 2-3-59, Cl. 40-158.
- Warnstrom, Karl-Erik: *See*—
- Myllenberg, Sven B., and Warnstrom. 2,873,141.
- Warr, John H. Catheters. 2,896,629, 7-28-59, Cl. 128-349.
- Warren, Andrew L.: *See*—
- Hoffman, Jess H., and Warren. 2,889,454.
- Warren Automatic Tool Co.: *See*—
- Dower, Ethell J. 2,910,871.
- Warren, Barbara H.: *See*—
- Warren, Lee. 2,887,325.
- Warren, Charles F., deceased, by K. Warren, executrix, to C. F. Warren, Jr. Hydraulic impact pulsator transmission system. 2,908,138, 10-13-59, Cl. 60-54.6.
- Warren, Charles F., Jr.: *See*—
- Warren, Charles F. 2,908,138.
- Warren, Charles G.: *See*—
- Dusenbury, Theodore P., and Warren. 2,873,115.
- Warren, Charles S., to Radio Corp. of America. Memory system. 2,882,517, 4-14-59, Cl. 340-174.
- Warren, Charles S., to Radio Corp. of America. Magnetic memory systems. 2,911,631, 11-3-59, Cl. 340-174.
- Warren, Eleanor R.: *See*—
- Anderson, Henry W., Ratner, and Warren. 2,915,465.
- Warren, Estel M. Safety switch. 2,907,853, 10-6-59, Cl. 200-161.
- Warren Featherbone Co., The: *See*—
- Whalen, Charles E. 2,880,727.
- Warren, Francis G. R., and Z. A. Melzak, to Radio Corp. of America. Antenna. 2,872,679, 2-3-59, Cl. 343-754.
- Warren, Fred D. Multiple woodworking tool. 2,913,021, 11-17-59, Cl. 143-132.
- Warren, George F. Trailer house drain connections. 2,915,081, 12-1-59, Cl. 137-344.
- Warren, Grant E.: *See*—
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- Warren, Henry B., Jr., to Huto Equipment Co. Equalizer for tandem suspension system. 2,912,251, 11-10-59, Cl. 280-104.5.
- Warren, Henry R., to Radio Corp. of America. Magnetic recording-reproducing. 2,908,770, 10-13-59, Cl. 179-100.2.
- Warren, Jack. Chassis construction strip and a chassis. 2,889,016, 6-2-59, Cl. 189-34.
- Warren, John D.: *See*—
- Chin, Allan, Woolley, and Warren. 2,916,397.
- Warren, John E.: *See*—
- Rohrbach, Gilson H., and Warren. 2,907,351.
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- Warren, Kathleen: *See*—
- Warren, Charles F. 2,908,138.
- Warren, Lee, deceased: B. H. Warren, administratrix. Tow car hitch. 2,887,325, 5-19-59, Cl. 280-502.
- Warren, Maxine E.: *See*—
- Fox, Carl J. 2,875,007.
- Warren, Pickett L. Stern line outrigger. 2,893,156, 7-7-59, Cl. 43-17.
- Warren, Ray C., to Hershel California Fruit Products Co., Inc. Feeder for orientation device. 2,903,160, 9-8-59, Cl. 221-290.
- Warren, Richard M., to C. H. Wheeler Mfg. Co. Servomotor system for operating steering engines of ships. 2,882,473, 4-14-59, Cl. 318-24.
- Warren, Robert G., to J. P. Fox. Glue gun. 2,877,480, 3-17-59, Cl. 15-127.
- Warren, Robert L. Support having three axes of adjustment and single locking handle. 2,898,068, 8-4-59, Cl. 248-183.
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- Hart, Robert T. 2,919,205.
- Wellcome, Frank L., Jr. 2,909,118.
- Warren, Samuel C. Safety switch. 2,882,364, 4-14-59, Cl. 200-80.
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- Lilienfeld, Julius E. 2,884,575.
- Warren, Theresa Z.: *See*—
- Warren, John S., and T. Z. 2,870,927.
- Warren, William: *See*—
- Hassler, Gerald L., Warren, and Egan. 2,909,058.
- Warren, William B., and F. Wohlman, to Hughes Aircraft Co. Apparatus for joining and sealing articles under pressure. 2,893,185, 7-7-59, Cl. 53-86.
- Warren, William S. Stone puller attachment. 2,880,895, 4-7-59, Cl. 214-147.
- Warrick, Colin. Spools for photographic film and the like. 2,911,163, 11-3-59, Cl. 242-74.
- Warrick, Edward C., and J. Kmetz, to Rockwell Mfg. Co. Universal caster assembly for leg supported stands. 2,888,707, 6-2-59, Cl. 16-33.
- Warrick, Frederick P. High speed strip recording means for transient phenomena. 2,910,340, 10-27-59, Cl. 346-108.
- Warrick, Leon H., and A. L. Loy, Sr. Lawn sprinkler. 2,901,180, 8-25-59, Cl. 239-67.
- Warring, Stig: *See*—
- Aurell, Carl G. P., and Warring. 2,888,559.
- Warring, Stig E., and J. M. Thorsen, to Telefonaktiebolaget L M Ericsson. Means for selecting a determined pulse in a pulse train. 2,897,362, 7-28-59, Cl. 260-27.
- Warrington, Albert R. V. C., to The English Electric Co. Ltd. Electrical relays. 2,912,622, 11-10-59, Cl. 317-51.
- Warrington, William A., Jr. Heat exchangers. 2,877,991, 3-17-59, Cl. 257-39.
- Warsaw, Leo W., B. A. Muller, and E. T. Lillibridge, to Northrop Corp. Machine for drilling and precision counter-sinking. 2,891,427, 6-23-59, Cl. 77-55.
- Warsaw, Don K.: *See*—
- Brandt, Carl E., and Warsaw. 2,878,868.
- Warshawsky, Jay: *See*—
- McDonald, Donald C., Boe, and Warshawsky. 2,871,660.
- Wartel, William S.: *See*—
- Eaton, Russell B., and Wartel. 2,913,333.
- Wartik, Thomas: *See*—
- Pearson, Richard K., and Wartik. 2,872,474.



- Warwick, John, to Specialties Development Corp. Yarn tensioning device. 2,881,988, 4-14-59, Cl. 242—150.
- Warwick Mfg. Corp.: *See—*
- Klein, Dietrich J. 2,868,471.
- Metz, Jack L. 2,855,486.
- Siebert, Raymond C. 2,898,115.
- Wazybok, Julius T., and E. J. Nehila, Jr. Rapid focus changer for camera. 2,896,524, 7-28-59, Cl. 95—45.
- Wasco Chemical Co., Inc.: *See—*
- Oshins, Ned N. 2,885,948.
- Wasco, Joseph L.: *See—*
- Pumpelly, Charles T., and Wasco. 2,913,408.
- Wasdyke, Bernard T.: *See—*
- Ferguson, John H., and Wasdyke. 2,902,865.
- Waser, James D., to Phoenix Mfg. Co. Seal arrangement. 2,872,229, 2-3-59, Cl. 288—3.
- Wash Overshot and Spear Engineers, Inc., The: *See—*
- Le Bus, Franklin L., Sr. 2,879,849.
- Le Bus, Franklin L., Sr. 2,887,161.
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- Washabaugh, Edward P., to American-Marietta Co. Track for placing equipment car. 2,876,952, 3-10-59, Cl. 238—10.
- Washabaugh, Edward P., to American-Marietta Co. Method of constructing tunnels. 2,895,299, 7-21-59, Cl. 61—45.
- Washabaugh, Edward P., to American-Marietta Co. Wire cage forming machine. 2,918,103, 12-22-59, Cl. 153—54.
- Washburn, Alfred F. Magnetic game of skill. 2,904,336, 9-15-59, Cl. 273—1.
- Washburn Co., The: *See—*
- Glenny, Clarence S. Re. 24,656.
- Glenny, Clarence S. 2,889,096.
- Glenny, Clarence S. 2,890,819.
- Glenny, Clarence S. 2,892,211.
- Glenny, Clarence S. 2,895,408.
- Levens, Ernest, and Washburn. 2,891,993.
- Washburn, James B.: *See—*
- Carr, Charles J., and Washburn. 2,886,293.
- Washburn, Robert M.: *See—*
- Levens, Ernest, and Washburn. 2,875,236.
- Washburn, Robert M., and C. F. Albright, to American Potash & Chemical Corp. Process for manufacture of areneboronic acids. 2,898,365, 8-4-59, Cl. 260—462.
- Washburn, Robert S., and C. W. E. Walker, to Beloit Iron Works. Method and apparatus for controlling flow of stock through a slice jet. 2,904,461, 9-15-59, Cl. 162—216.
- Washil, Myron A., to Westinghouse Electric Corp. Drawout switchgear apparatus. 2,917,677, 12-15-59, Cl. 317—99.
- Washington Brick Co., The: *See—*
- Zevelly, Thomas K. 2,887,755.
- Washington, George H.: *See—*
- Smith, Kenneth G., and Washington. 2,867,682.
- Washington Iron Works: *See—*
- Thurnher, Ferdinand. 2,884,032.
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- Washington, Lamar, Jr. Foot treadle device. 2,893,284, 7-7-59, Cl. 84—422.
- Washington, Rosetta. Cushioned bedpan. 2,886,827, 5-19-59, Cl. 4—113.
- Washington Steel Corp.: *See—*
- Stargardter, Albert R. 2,914,396.
- Washington Steel Products, Inc.: *See—*
- La Branche, Harvey W. 2,892,294.
- Maynard, Ralph D., Jr. 2,912,805.
- Washington Water Power Co.: *See—*
- Martin, Armor B. 2,893,639.
- Waske, George F. Shingle construction. 2,882,840, 4-21-59, Cl. 108—17.
- Wasko, George J., and J. J. Cholick. Portable generator unit. 2,898,542, 8-4-59, Cl. 322—90.
- Wasley, William L.: *See—*
- Scott Carleton B., and Wasley. 2,897,228.
- Wasley, William L., to Union Oil Co. of California. Preparation of aromatic acids by oxidation. 2,887,511, 5-19-59, Cl. 260—524.
- Wasley, William L., and C. E. Wilson, to Union Oil Co. of California. High viscosity index detergent lubricating oils. 2,883,340, 4-21-59, Cl. 252—33.
- Wasmansdorff, Carlton, to Hoffman Electronics Corp. Limiting amplifier. 2,914,668, 11-24-59, Cl. 250—27.
- Wasp, Edward J.: *See—*
- Regan, Thomas J., Jones, and Wasp. 2,880,745.
- Wass, Ernest: *See—*
- Wass, Yvonne and E. 2,891,139.
- Wass, Yvonne and E. Ornamental table with central illuminated receptacle. 2,891,139, 6-16-59, Cl. 240—4.
- Wassel, Eugene S.: *See—*
- Bell, Charles R., Wassel, and Shoelson. 2,870,682.
- Brubaker, John G., Wassel, and Reynolds. 2,900,876.
- Cameron, Harry M., and Wassel. 2,877,988.
- Kamp, Ewald A., and Wassel. 2,887,931.
- Wassel, Eugene S., and M. J. Shoelson, to United States of America, Army. Hydraulic cam device. 2,902,869, 9-8-59, Cl. 74—88.
- Wasserback, Louis L. Process of insulating side wall of building. 2,896,278, 7-28-59, Cl. 210—101.
- Wasserman, Arthur, to Tiarco Corp. Electroplating. 2,888,387, 5-26-59, Cl. 204—33.
- Wasserman, David, to Minnesota Mining and Mfg. Co. Composition comprising a solution of a glycidyl polyether and a glycidyl ether of a monohydric phenol. 2,891,026, 6-16-59, Cl. 260—30.4.
- Wasserman, David, to Minnesota Mining and Mfg. Co. Compositions of matter and methods for preparing them. 2,900,364, 8-18-59, Cl. 260—47.
- Wasserman, Kurt J., to Trio Chemical Works, Inc. Silver cleaner. 2,907,716, 10-6-59, Cl. 252—152.
- Wasserman, Lee S., and A. J. Stolzenberger, to Globe Industries, Inc. Corrective auto pilot servomotor system. 2,910,639, 10-27-59, Cl. 318—489.
- Wasserman, Nathan. Ear plug. 2,876,767, 3-10-59, Cl. 128—151.
- Wasserman, Rene D., and H. H. Simons, to Eutectic Welding Alloys Corp. Brazing alloy-dux paste. 2,914,435, 11-24-59, Cl. 148—24.
- Wasserman, Seymour N.: *See—*
- Maynard, John A., and Wasserman. 2,908,168.
- Wassilief, Victor. Irreversible self-locking device. 2,883,016, 4-21-59, Cl. 192—8.
- Wasson, Burton K., and J. M. Parker, to Charles E. Frosst & Co. Propanediol bis(thiocarbamates). 2,901,501, 8-25-59, Cl. 260—455.
- Wasson, James G.: *See—*
- Bookwalter, William H. 2,915,036.
- Wasson, Jones I., and W. C. Howell, Jr., to Esso Research and Engineering Co. Lubricants. 2,876,199, 3-3-59, Cl. 252—55.
- Wasson, Loerwood C., to Baso Inc. Control device. 2,876,397, 3-3-59, Cl. 317—171.
- Wasson, Robert A., and J. E. and L. M. Dunn. End wall table. 2,909,399, 10-20-59, Cl. 311—16.5.
- Waste King Corp.: *See—*
- Fay, John A. 2,882,366.
- Friedberg, Harry. 2,887,074.
- Karig, Horace E. 2,918,068.
- Karig, Horace E., and Smith. 2,871,082.
- Peglow, Walter. 2,880,740.
- Peglow, Walter. 2,918,341.
- Wasyluk, Joseph. Basket carrier for wheeled strollers. 2,904,237, 9-15-59, Cl. 224—42.45.
- Watamaker, Louis. Harvesting machine and attachment therefor. 2,875,568, 3-3-59, Cl. 56—210.
- Watanabe, Masaaki: *See—*
- Tsunoda, Yoshio, Seko, Watanabe, Ehara, and Misumi. 2,894,917.
- Tsunoda, Yoshio, Seko, Watanabe, Ehara, and Misumi. 2,898,311.
- Watanabe, Yasuo. Fountain pen with triplex writing point. 2,868,171, 1-13-59, Cl. 120—42.18.
- Water Resources Development Corp.: *See—*
- Kardas, Stanley J. 2,917,464.
- Waterbury Companies, Inc.: *See—*
- Magenat, Rene P. 2,906,579.
- Waterbury Farrel Foundry & Machine Co., The: *See—*
- Bellisario, Frank. 2,876,034.
- Hoyt, Herbert L., and Byam. 2,891,263.
- Putetti, Anthony M. 2,911,863.
- Schurman, Donald R. 2,916,952.
- Sciullo, Charles V. 2,871,492.
- Tully, John J. 2,900,072.
- Waterbury Plating Co., The: *See—*
- Ineson, Clifton H. 2,891,503.
- Waterfall, Robert W., to Buensod-Stacey, Inc. Air conditioning and heat pump system. 2,894,375, 7-14-59, Cl. 62—196.
- Waterhouse, Albert. Neck tie fastener. 2,890,459, 6-16-59, Cl. 2—150.
- Waterhouse, Eugene R.: *See—*
- Irwin, Harry B., and Waterhouse. 2,898,632.
- Waterman, Dana, to General Motors Corp. Convertible vehicle top frame. 2,882,092, 4-14-59, Cl. 296—116.
- Waterman Engineering Corp.: *See—*
- Cooper, Roy L. 2,886,688.
- Cooper, Roy L. 2,908,266.
- Waterman, Hein I., to N. V. Centrale Suiker Maatschappij. Process for the purification of diffusion juice. 2,917,417, 12-15-59, Cl. 127—50.
- Waterman, Herbert C.: *See—*
- Stenerson, Charles K., and Waterman. 2,900,621.
- Waterman, John E., to Winsor & Jerauld Mfg. Co. Tenter clip. 2,898,661, 8-11-59, Cl. 26—62.
- Waterman, Logan C., to Petrolite Corp. Grounding means for an electric emulsion treater. 2,874,111, 2-17-59, Cl. 204—306.
- Waterman, Logan C., to Petrolite Corp. Electric emulsion treater with high-voltage entrance bushing and lead-in. 2,881,125, 4-7-59, Cl. 204—302.
- Waterman, Logan C., to Petrolite Corp. Electric treater. 2,897,251, 7-28-59, Cl. 174—16.
- Waterman, Logan C., and W. L. Shirley, to Petrolite Corp. Electric treater and method. 2,872,408, 2-3-59, Cl. 204—302.
- Waterman, Logan C., and W. L. Shirley, to Petrolite Corp. Electric treater for emulsions. 2,892,768, 6-30-59, Cl. 204—304.
- Waterman, Max L., to The Singer Mfg. Co. Presser mechanisms for sewing machines. 2,874,664, 2-24-59, Cl. 112—236.
- Waterman, Neil S.: *See—*
- Heinrich, Henry A., and Waterman. 2,880,841.
- Waterman Pen Co., Inc.: *See—*
- Young, Donald H. 2,881,737.
- Waterman, Robert C. Portable illuminated collapsible speaker's stand. 2,893,808, 7-7-59, Cl. 312—316.



- Waterman, Virgil H. Rear drive assembly. 2,894,593, 7-14-59, Cl. 180-56.
- Waterman, Wendell W., to Publicker Industries, Inc. Preparation of an oxidation catalyst. 2,901,441, 8-25-59, Cl. 252-463.
- Waterous Co.: See—  
Thomas, David F., and Hill. 2,894,531.  
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- Waterproofing Materials, Inc.: See—  
Newell, W. J., and Lewis. 2,901,368.
- Waters, James L., to Mine Safety Appliances Co. Material analysis apparatus. 2,876,357, 3-3-59, Cl. 250-43.5.
- Waters, James U., to Hawaiian Pineapple Co., Ltd. Fruit slicing machine. 2,918,957, 12-29-59, Cl. 146-99.
- Waters, Joseph J., to Crown Cork & Seal Co., Inc. Method of making crown and liner. 2,881,480, 4-14-59, Cl. 18-59.
- Waters, Roland M.: See—  
Walter, Ned F., Waters, and Lee. 2,888,490.
- Waters, William E., to United States of America, Army. Microwave detector. 2,892,957, 6-30-59, Cl. 315-5.19.
- Waters, William E., to United States of America, Army. Klystron amplifier. 2,917,656, 12-15-59, Cl. 315-5.
- Waters, William J.: See—  
Ryan, Kenneth Y., and Waters. 2,878,559.
- Watertown Engineering Corp.: See—  
Mitchell, Earl C. 2,903,777.
- Waterval, William. Health exercising devices. 2,918,282, 12-22-59, Cl. 272-81.
- Wathen, Ernest L. Display device. 2,902,176, 9-1-59, Cl. 211-178.
- Wathen, William A.: See—  
Nelson, Noral A., and Wathen. 2,879,709.  
Nelson, Noral A., Wathen, and Thompson. 2,882,813.
- Wathen, William A., to Massey-Ferguson Inc. Bale tension adjusting mechanism. 2,910,932, 11-3-59, Cl. 100-191.
- Watkin, Nathaniel R. Doghouse door or the like. 2,882,964, 4-21-59, Cl. 160-330.
- Watkins, Charles H., to Universal Oil Products Co. Hydrofining process and catalyst thereof. 2,878,180, 3-17-59.
- Watkins, Charles H., to Universal Oil Products Co. Fluidized solids level control. 2,886,899, 5-19-59, Cl. 34-57.
- Watkins, Charles H., to Universal Oil Products Co. Combination process for hydrotreating and synthesizing hydrocarbons. 2,917,532, 12-15-59, Cl. 260-449.6.
- Watkins, Charles H., and A. J. de Rosset, to Universal Oil Products Co. Manufacture and use of supported molybdenum-containing catalysts. 2,905,636, 9-22-59, Cl. 208-216.
- Watkins, Daniel H., to The Watkins-Strathmore Co. Test booklet having readily erasable answer sheet. 2,879,608, 3-31-59, Cl. 35-31.
- Watkins, Daniel H., to The Watkins-Strathmore Co. Booklet having attached thereto a writing pad for receiving temporary images. 2,879,609, 3-31-59, Cl. 35-62.
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- Watkins, David T. Anti-climbing shield for towers. 2,880,829, 4-7-59, Cl. 189-32.
- Watkins, Dean A., to Hughes Aircraft Co. Reflex space-harmonic oscillator. 2,869,019, 1-13-59, Cl. 315-3.5.
- Watkins, Dean A., to Hewlett-Packard Co. Beam-type tube. 2,900,558, 8-18-59, Cl. 315-3.5.
- Watkins, Donald B., to Sylvania Electric Products Inc. Determining gas content in metals. 2,871,694, 2-3-59, Cl. 73-19.
- Watkins, George E., and L. N. Pond, to Corning Glass Works. Glass working machine. 2,893,542, 7-7-59, Cl. 198-209.
- Watkins, Kirk A. Engine oil refiner. 2,909,284, 10-20-59, Cl. 210-95.
- Watkins, Norman B., to The Coleman Co., Inc. Method of joining sheet material. 2,900,714, 8-25-59, Cl. 29-513.
- Watkins, Roger W. Discharge valve for ice cream machines. 2,887,072, 5-19-59, Cl. 107-14.
- Watkins, Sidney C., to Joseph Lucas (Industries) Ltd. Liquid fuel discharge nozzles. 2,878,065, 3-17-59, Cl. 299-120.
- Watkins, Spencer H., to Hercules Powder Co. Sizing paper and product. 2,872,315, 2-3-59, Cl. 92-21.
- Watkins, Spencer H., to Hercules Powder Co. Stabilized tall oil rosin size compositions and methods of preparation. 2,881,084, 4-7-59, Cl. 106-123.
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- Watkins-Strathmore Co., The: See—  
Watkins, Daniel H. 2,879,608.  
Watkins, Daniel H. 2,879,609.
- Watkins, Thomas E., to Socony Mobil Oil Co., Inc. Fluid for drilling high temperature wells. 2,871,188, 1-27-59, Cl. 252-8.5.
- Watkins, Thomas E., to Socony Mobil Oil Co., Inc. Component for well treating fluid. 2,876,197, 3-3-59, Cl. 252-8.5.
- Watkins, Thomas E., and W. R. Foster, to Socony Mobil Oil Co., Inc. High temperature cement. 2,875,835, 3-3-59, Cl. 166-31.
- Watkins, Thomas I.: See—  
Leiper, John W. G., and Watkins. Re. 24,657.
- Watkins, Willie R.,  $\frac{1}{2}$  to A. T. Staples. Vacuum operated hair clipper. 2,914,849, 12-1-59, Cl. 30-133.
- Watkins, Willie R., 50% to A. T. Staples. Comb. 2,915,071, 12-1-59, Cl. 132-45.
- Watkins, Willis T., to Parmelee Plastics Co. Safety goggle having guarded vents. 2,877,463, 3-17-59, Cl. 2-14.
- Watrous, Gilbert A., to Brazit Associates. Fireplace appliance. 2,868,189, 1-13-59, Cl. 126-25.
- Watrous, Robert B.: See—  
Ochs, Robert E., Jr., and Watrous. 2,874,713.
- Watrous, Robert B., to Minneapolis-Honeywell Regulator Co. Controller span adjusting apparatus. 2,907,338, 10-6-59, Cl. 137-85.
- Watrous, Robert B., to Minneapolis-Honeywell Regulator Co. Controller. 2,911,992, 11-10-59, Cl. 137-86.
- Watrous, Ward W., Jr., to Tung-Sol Electric Inc. Fast-heating hydrogen reservoir. 2,890,319, 6-9-59, Cl. 219-38.
- Watson, Albert T.: See—  
Bown, Delos E., Keller, and Watson. 2,904,486.  
Boynton, Harry G., Lewis, and Watson. 2,890,990.
- Watson, Arthur E., and F. K. Barnes, to The B. F. Goodrich Co. Tire tread transfer apparatus. 2,902,082, 9-1-59, Cl. 154-9.
- Watson, Daniel K. Racket stringing device. 2,901,252, 8-25-59, Cl. 273-73.
- Watson, David W.: See—  
Jolliffe, Sidney A. W., Byatt, Watson, Hatch, and French. 2,917,741.
- Watson, Donald W.: See—  
Frankle, Harry R., and Watson. 2,908,825.  
Stone, Wilfred H., and Watson. 2,916,633.
- Watson, Edward H. N.: See—  
Brown, Jack A., and Watson. 2,872,822.
- Watson, Edward J., to The Dow Chemical Co. 1-ethynyl-cyclohexyl propargyl ether. 2,897,241, 7-28-59, Cl. 260-611.
- Watson, Edward J., and D. E. Rapp, to The Dow Chemical Co. Stabilization of chlorinated solvents with aziridines. 2,878,297, 3-17-59, Cl. 260-652.5.
- Watson, Forrest J., R. C. Morris, and J. L. Van Winkle, to Shell Development Co. Lubricating oil compositions. 2,874,120, 2-17-59, Cl. 252-32.5.
- Watson, Forrest J., J. E. Weigel, and F. C. Younger, to Shell Development Co. Metal working lubricants. 2,882,228, 4-14-59, Cl. 252-32.5.
- Watson, George A., Jr.: See—  
Brown, William R., and Watson. 2,880,596.
- Watson, Harold E. Boat trailer. 2,908,412, 10-13-59, Cl. 214-506.
- Watson, James P. Articulated armature means. 2,881,367, 4-7-59, Cl. 317-199.
- Watson, James P. Spiral terminal. 2,882,515, 4-14-59, Cl. 339-278.
- Watson, James P. Acceleration proof actuating member. 2,884,573, 4-28-59, Cl. 317-191.
- Watson, James P. Wire seal. 2,898,396, 8-4-59, Cl. 174-152.
- Watson, Jesse R.: See—  
Onisko, John, Jr. 2,916,221.
- Watson, Lloyd M.: See—  
Birchall, William R., and Watson. 2,894,788.
- Watson, Lloyd M., and D. P. Jenks, to National Distillers and Chemical Corp. Reactor design. 2,908,556, 10-13-59, Cl. 23-263.
- Watson, Louis E.: See—  
Ingram, Carl B., and Watson. 2,897,257.  
Willets, Elwood H., Ingram, and Watson. 2,889,993.
- Watson Mfg. Co., Inc.: See—  
Snethen, Thomas H. 2,876,057.  
Ulrich, Charles B., Jr. 2,883,989.
- Watson, Melvin R. Golf club container and cart. 2,890,061, 6-9-59, Cl. 280-47.26.
- Watson, Nathan J., to Johnson Biscuit Co. Loading mechanism for cookie apparatus and the like. 2,876,887, 3-10-59, Cl. 198-26.
- Watson, Paul R.: See—  
Mehlretter, Charles L., Van Cleve, and Watson. 2,880,236.
- Watson, Ralph M.: See—  
Wright, Elliott F., Watson, and Larrecq. 2,907,609.
- Watson, Richard A. Single pedal operated systems for controlling the acceleration and deceleration of vehicles. 2,883,014, 4-21-59, Cl. 192-3.
- Watson, Richard A. Reversible condiment container. 2,886,212, 5-12-59, Cl. 222-142.2.
- Watson, Robert J., and F. A. Morris, to General Dynamics Corp. Template-guided machine tool. 2,918,835, 12-29-59, Cl. 83-71.
- Watson, Robert M., to Bendix Aviation Corp. Machine for vibration treatment of surfaces. 2,896,646, 7-28-59, Cl. 134-122.
- Watson, Ross O., to Hercules Powder Co. Esterification of terephthalic acid in presence of metal oxidation catalyst. 2,892,864, 6-30-59, Cl. 260-475.
- Watson, Stanley A., and C. B. Williams, to Corn Products Refining Co. Process for extracting hemicellulose from corn coarse fiber. 2,868,778, 1-13-59, Cl. 260-209.
- Watson, Stanley E.: See—  
Mears, John S., Delorenzis, and Watson. 2,888,536.
- Watson, Walter E. F. Soil-working plough. 2,887,169, 5-19-59, Cl. 172-166.
- Watson, William M., to Paper Strap, Inc. Machine for attaching handles to cartons. 2,869,438, 1-20-59, Cl. 93-36.
- Watson, William R.: See—  
Anderson, Donald R., and Watson. 2,890,946.
- Watt, David J., to Farrel-Birmingham Co., Inc. Gear lapping machine. 2,885,830, 5-12-59, Cl. 51-26.



- Watt, Irene M.: *See*—  
Hawkins, Edwin G. E., and Watt. 2,903,469.
- Watt, John G., to American Screen Products Co. Device for assembling variable sizes of framed screens. 2,898,951, 8-11-59, Cl. 140-109.
- Watt, Lynn A. K.: *See*—  
Fowler, Ivan L., and Watt. 2,917,647.
- Watt, William K., to American Viscose Corp. Process for producing cellulose thiourethanes. 2,910,466, 10-27-59, Cl. 260-216.
- Watter, Michael, and W. S. Eggert, Jr., to The Budd Co. Method of fabricating sandwich type panels. 2,901,590, 8-25-59, Cl. 219-117.
- Watter, Michael, and W. S. Eggert, Jr., to The Budd Co. Roller welding apparatus. 2,908,502, 10-13-59, Cl. 219-81.
- Watter, Michael, and W. S. Eggert, Jr., to The Budd Co. Universal spot welder. 2,908,804, 10-13-59, Cl. 219-86.
- Watters, Glenn G., and J. E. Brekke, to United States of America, Agriculture. Coating of raisins and other foods. 2,909,435, 10-20-59, Cl. 99-168.
- Watters, Johnny T.: *See*—  
Jewell, Robert A., and Watters. 2,915,320.
- Watterson, Clark C. Signal generating apparatus. 2,881,424, 4-7-59, Cl. 343-7.3.
- Watts, Clarence R., to P. F. Henry. Electrical alarm system. 2,895,125, 7-14-59, Cl. 340-227.
- Watts Electric & Mfg. Co.: *See*—  
Heller, Robert M. 2,870,812.  
Heller, Robert M. 2,897,473.  
Heller, Robert M. 2,916,765.
- Watts, George W., and J. W. Wygant, to Standard Oil Co. Flow limiting filter valve. 2,892,512, 6-30-59, Cl. 183-44.
- Watts, Harold R. Heavy duty stabilizing trailer hitch. 2,906,544, 9-29-59, Cl. 280-406.
- Watts, John A., to The Tungolin Co., Inc. Process for stabilizing and refining tung oil and product thereof. 2,867,639, 1-6-59, Cl. 260-428.
- Watts, John D., B. Lefevre, and E. F. Hill, to Gray Tool Co. Swivel coupling with inserted section type swivel unit. 2,867,453, 1-6-59, Cl. 285-31.
- Watts, Loye E.: *See*—  
Shikes, Horace E., Jr., and Watts. 2,894,377.
- Watts Regulator Co.: *See*—  
Dillon, Wendell M. 2,887,181.
- Watts, Rhea N., to Esso Research and Engineering Co. Process for upgrading hydrocarbons. 2,888,396, 5-26-59, Cl. 208-136.
- Watts, Rhea N., and J. A. Polack, to Esso Research and Engineering Co. Treatment of a metal-contaminated heavy gas oil with non-adsorbent carbon particles. 2,911,353, 11-3-59, Cl. 208-88.
- Watts, William S., to AMP Inc. Contact assembly for plugboards. 2,882,508, 4-14-59, Cl. 339-18.
- Waugaman, Charles A.: *See*—  
Wilhelm, Robert J., and Waugaman. 2,894,855.
- Waugh Equipment Co.: *See*—  
Schaefer, Arthur E. 2,907,613.
- Waugh, John A., to Owens-Corning Fiberglas Corp. Method and apparatus for handling continuous multifilament strands. 2,909,827, 10-27-59, Cl. 28-1.
- Waugh, Robert E., and O. L. Rider, Jr., to Englander Co., Inc. Ironing board. 2,907,127, 10-6-59, Cl. 38-137.
- Waugh, Robert E., and G. J. Yurek, to The Englander Co., Inc. Tote boxes. 2,919,045, 12-29-59, Cl. 220-4.
- Waugh, Thomas D.: *See*—  
Walton, Harold F., and Waugh. 2,871,252.
- Waukesha Motor Co.: *See*—  
Willis, Newton H., Erickson, and Armstrong. 2,902,837.
- Wausau Iron Works: *See*—  
Krueger, Leonard C. 2,904,904.
- Wavering, Robert A.: *See*—  
Georgian, Carl C., and Wavering. 2,892,813.
- Wax, Charles S.: *See*—  
Schwartz, Nathan, and Wax. 2,912,276.
- Waxide Paper Co.: *See*—  
Olstad, Carl P. 2,877,140.
- Waxweiler, James H., to Armco Steel Corp. Heat-hardened stainless steel and method for cold treating same. 2,903,386, 9-8-59, Cl. 148-21.55.
- Way, David G., to Needham Mfg. Co., Inc. Apparatus for wrapping articles. 2,885,843, 5-12-59, Cl. 53-52.
- Way, Elwood J. Pentagonal block puzzle. 2,901,256, 8-25-59, Cl. 273-157.
- Way, James E., to International Business Machines Corp. Portable time stamp. 2,902,330, 9-1-59, Cl. 346-92.
- Way, James E. Fuses. 2,902,568, 9-1-59, Cl. 200-130.
- Way, Robert B., and C. D. Hersey. Automatic painting, wiping, and polishing machine. 2,878,139, 3-17-59, Cl. 117-64.
- Way, Robert B., and C. D. Hersey. Machine for painting pottery and the like. 2,883,960, 4-28-59, Cl. 118-301.
- Way, Robert B., and C. D. Hersey. Machine for wiping and polishing articles of manufacture. 2,885,702, 5-12-59, Cl. 15-97.
- Way, Robert B., and C. D. Hersey. Combination painting and wiping machine. 2,887,985, 5-26-59, Cl. 118-106.
- Way, Robert B., and C. D. Hersey. Automatic spray painting machine. 2,890,678, 6-16-59, Cl. 118-301.
- Way, Robert B., and C. D. Hersey. Multicolor painting machine. 2,915,037, 12-1-59, Cl. 118-11.
- Way, Roy C. Handle for reels of wire. 2,917,253, 12-15-59, Cl. 242-94.
- Way, Wilbur A., to Addressograph-Multigraph Corp. Printing devices. 2,902,928, 9-8-59, Cl. 101-369.
- Waychoff, Walter F., to Monsanto Chemical Co. Copolymer of unsaturated polyester, styrene and dibutyl fumarate or dibutyl maleate and process of preparing same. 2,882,256, 4-14-59, Cl. 260-45.4.
- Wayman, Morris, D. L. Sherk, and W. A. Kraske, to Columbia Cellulose Co., Ltd. High viscosity, high percentage alpha cellulose from sulfite pulp. 2,882,965, 4-21-59, Cl. 162-59.
- Wayman, Robert W., to Borg-Warner Corp. Hydraulic governor. 2,911,987, 11-10-59, Cl. 137-51.
- Wayne, Anthony, Improvement Co.: *See*—  
Cook, Robert W., and McBride. 2,894,539.
- Wayne Iron Works: *See*—  
Wetzel, Charles H. 2,870,495.
- Wayne, Joseph C., to Whirlpool Corp. Steam iron. 2,890,533, 6-16-59, Cl. 38-77.
- Wayne Metalcraft Co.: *See*—  
Nehls, Charles H. 2,880,604.  
Nehls, Charles H. 2,880,605.
- Wayne, Peter J.: *See*—  
Sandt, Bernd W., and Wayne. 2,914,438.
- Waznys, Peter J.: *See*—  
Gottschall, Herbert A., Guggenheim, and Waznys. 2,900,615.
- Weakley, Francis B.: *See*—  
McKinney, Leonard L., Weakley, and Eldridge. 2,890,246.
- Weamer, George L.: *See*—  
Blickman, Johannes, and Weamer. 2,878,243.
- Weamer, George L., to California Research Corp. Filter aid for preparing dispersions in lubricating oil. 2,878,185, 3-17-59, Cl. 252-33.4.
- Wean Engineering Co., Inc. The: *See*—  
Erskine, Robert J. 2,911,044.  
Jones, Walter O. 2,890,003.  
Lynn, Holmes W., and Geiszler. 2,872,039.  
Perrine, Sterling O. 2,872,980.
- Wean Equipment Corp.: *See*—  
Sarka, Albert J. 2,873,803.
- Weapons, Inc.: *See*—  
Marsh, Roger. 2,887,013.
- Wearing, Robert H.: *See*—  
Neuworth, Joseph A., and Wearing. 2,868,916.
- Wearmouth, William G., to National Research Development Corp. Treatment of milk. 2,918,880, 12-22-59, Cl. 99-192.
- Weasler, Anthony V. Free wheeling guard for a telescopic shaft. 2,911,803, 11-10-59, Cl. 64-4.
- Weatherby, Robert D. Recording mechanism for fluid pumps. 2,903,184, 9-8-59, Cl. 235-94.
- Weatherhead Co., The: *See*—  
Baldwin, John D., Jr. 2,873,985.  
Courtot, Louis B. 2,898,963.  
Courtot, Louis B. 2,900,999.  
Ehlert, Clayton J., and Duffy. 2,898,171.  
Marette, Ralph T., and Miller. 2,910,305.  
St. Clair, Theodore A. 2,904,068.  
St. Clair, Theodore A., and Krall. 2,898,930.  
Stelzer, James S. 2,918,155.
- Weatherley Oilgear Ltd.: *See*—  
Poynter, Cyril E. 2,876,682.  
Poynter, Cyril E. 2,893,293.
- Weatherly, J. T.: *See*—  
Brunton, Don L. 2,915,598.
- Weathersby, Fred E., to H. H. Hill. Purse boats with improved seine handling means and method of using the same. 2,875,546, 3-3-59, Cl. 43-8.
- Weather-Seal, Inc.: *See*—  
Eskridge, Harold E., and Johnson. 2,866,997.  
Etling, Harold A. 2,898,642.
- Weatherston, Roger: *See*—  
Glick, Herbert S., Hertzberg, Squire, and Weatherston. 2,902,337.
- Weaver, Allan: *See*—  
Fritsch, Walter W., and Weaver. 2,914,617.
- Weaver, Calvin P. Side delivery rake. 2,906,034, 9-29-59, Cl. 56-377.
- Weaver, Carson E., and J. G. Hambor, to Gahagan, Inc. Broadband microwave point contact rectifier. 2,882,466, 4-14-59, Cl. 317-236.
- Weaver, D. L. W., and R. S. McCormack, Jr., to United States of America, Atomic Energy Commission. Volume compensating means for pulsating pumps. 2,915,016, 12-1-59, Cl. 103-44.
- Weaver, Earl M.: *See*—  
Hawthorne, Herbert J., and Weaver. 2,890,020.
- Weaver, Earl M., B. C. Hawthorne, and J. L. Stockard. Drilling bit. 2,894,726, 7-14-59, Cl. 255-61.
- Weaver, Elmer A., and T. C. Cordon, to United States of America, Agriculture. Purification of canaigre tannin extracts. 2,885,325, 5-5-59, Cl. 195-2.
- Weaver, Howard A. and M. M. Women's garment. 2,907,043, 10-6-59, Cl. 2-73.
- Weaver, Jack A., to Columbian Carbon Co. Carbon black pellet and method for producing same. 2,872,336, 2-3-59, Cl. 106-307.
- Weaver, Jeremiah W.: *See*—  
Klein, Elias, and Weaver. 2,911,322.
- Weaver, John H., and R. E. Houdeshell, to Denim Maid Mfg. Co., Inc. Mop frames. 2,893,035, 7-7-59, Cl. 15-147.



- Weaver, John J.: *See*—  
Francis, Charles E., and Weaver. 2,907,714.
- Weaver, Leo J.: *See*—  
Hughes, Lawrence J., and Weaver. 2,907,799.
- Weaver, Leo J., and E. J. Eccles, Jr., to Monsanto Chemical Co. Color stabilization of alkylarenesulfonic acids. 2,880,235, 3-31-59, Cl. 260—505.
- Weaver, Leon C. Window arm or drape and curtain extension arm. 2,914,286, 11-24-59, Cl. 248—265.
- Weaver, Lyman J.: *See*—  
Cox, George B. 2,895,363.
- Weaver Mfg. Co.: *See*—  
Harman, Jack. 2,911,191.
- Weaver, Mary M.: *See*—  
Weaver, Howard A. and M. M. 2,907,043.
- Weaver, Preston R., to United States of America, Navy. Maneuvering loads accelerometer. 2,867,382, 1-6-59, Cl. 235—92.
- Weaver, Preston R., to The W. L. Maxson Corp. Accelerometer. 2,879,053, 3-24-59, Cl. 264—1.
- Weaver, Preston R., to United States of America, Navy. Acceleration responsive microswitch. 2,897,306, 7-28-59, Cl. 200—61.45.
- Weaver, Preston R., to The W. L. Maxson Corp. Self-latching omnidirectional acceleration switch. 2,903,533, 9-8-59, Cl. 200—61.5.
- Weaver, Stuart M., to Alten Foundry & Machine Works, Inc. Telescoping or collapsible brace construction. 2,905,280, 9-22-59, Cl. 189—15.
- Weaver, Victor F. Poultry suspension shackle. 2,879,541, 3-31-59, Cl. 17—44.1.
- Weaver, Wesley A. Antenna guy wire vibration damper. 2,889,011, 6-2-59, Cl. 188—1.
- Weaving, John H., and D. J. K. Stuart, to The Austin Motor Co. Ltd. Hydro-mechanical variable speed transmission gearing. 2,869,397, 1-20-59, Cl. 74—687.
- Weaving Research & Textile Commission Agents Ltd.: *See*—  
Shimwell, Derrick W. 2,893,443.
- Web Controls Corp.: *See*—  
Frankel, Sydney. 2,884,107.  
Frankel, Sydney. 2,884,495.
- Webarm Diecasting, Inc.: *See*—  
Weber, John A. 2,885,286.
- Webb, Charles S. Method of making basic iron sulfate. 2,905,533, 9-22-59, Cl. 23—126.
- Webb, Christopher F., to Bell Punch Co. Ltd. Apparatus for transmitting motion under the positive control of an escapement mechanism. 2,896,747, 7-28-59, Cl. 185—37.
- Webb, Deril T., to Philco Corp. Signal-responsive circuit. 2,885,630, 5-5-59, Cl. 323—75.
- Webb, Derrel D., and P. H. Teel, to Houston Engineers, Inc. Well bore packer removing tool. 2,904,114, 9-15-59, Cl. 166—103.
- Webb, Edward F. D.: *See*—  
Farnham, Rex C., and Webb. 2,878,831.
- Webb, Edward F. D. Burner air flow control means. 2,911,034, 11-3-59, Cl. 158—76.
- Webb, Edward L., to Westinghouse Electric Corp. Image amplifier. 2,905,829, 9-22-59, Cl. 250—213.
- Webb, Edwin T., and J. R. Seemuller, to Societe Anonyme Union Francaise Commerciale et Industrielle. Extraction processes. 2,870,223, 1-20-59, Cl. 260—637.
- Webb, Ernest C. Adjustable support for a shower head. 2,873,999, 2-17-59, Cl. 299—73.
- Webb, Ernest C. Shower head. 2,874,001, 2-17-59, Cl. 299—141.
- Webb, Francis E. Toy vortex gun. 2,879,759, 3-31-59, Cl. 124—1.
- Webb, Francis E. Suspension mechanism for light fixtures. 2,907,546, 10-6-59, Cl. 248—343.
- Webb, Francis H. Time control device for water softening. 2,878,867, 3-24-59, Cl. 161—7.
- Webb, Francis H. Water softening apparatus. 2,907,462, 10-6-59, Cl. 210—140.
- Webb, Frederick J., to The Firestone Tire & Rubber Co. Sulfur vulcanized rubber containing a mixture of antioxidants, and process of obtaining same. 2,875,174, 2-24-59, Cl. 260—45.8.
- Webb, Frederick J., to The Firestone Tire & Rubber Co. Sulfur vulcanized rubber composition containing phenol reaction product as an oxidation inhibitor, and method of making same. 2,905,737, 9-22-59, Cl. 260—810.
- Webb, George C. Apparatus for dehydration of comestibles. 2,911,732, 11-10-59, Cl. 34—193.
- Webb, George L.: *See*—  
Lambert, Cecil A., and Webb. 2,892,053.
- Webb, Glenn M.: *See*—  
Malo, Russell V., and Webb. 2,879,232.
- Webb, Goebel W. Add-up block toy for teaching arithmetic. 2,899,757, 8-18-59, Cl. 35—32.
- Webb, Harold D.: *See*—  
O'Meara, Thomas R., and Webb. 2,907,029.
- Webb, Horace L. Dictation type mask with combined switch and air control. 2,882,355, 4-14-59, Cl. 179—188.
- Webb, Irving D.: *See*—  
Scott, Carleton B., Webb, and Yale. 2,917,429.
- Webb, Irving D., and J. W. Yale, Jr., to Collier Carbon and Chemical Corp. Fungicidal compositions. 2,877,153, 3-10-59, Cl. 167—22.
- Webb, Irving D., C. B. Scott, and J. W. Yale, to Collier Carbon and Chemical Corp. Sulfurized alkyl thioformal fungicidal compositions. 2,882,197, 4-14-59, Cl. 167—22.
- Webb, Irving D., and J. W. Yale, Jr., to Collier Carbon and Chemical Corp. Sulfurized compositions and pesticidal compositions comprising the same compounds. 2,910,401, 10-27-59, Cl. 167—22.
- Webb, James, and I. B. Smith. Sure catch minnow and shrimp trap. 2,908,993, 10-20-59, Cl. 43—102.
- Webb, Jervis B., Co.: *See*—  
Henderson, Frank J., and Schenk. 2,918,020.
- Webb, John M. Refractory molds. 2,912,729, 11-17-59, Cl. 22—129.
- Webb, John M., and Z. Kazenas. Graphite refractory molds and method of making same. 2,886,869, 5-19-59, Cl. 22—216.5.
- Webb, John P.: *See*—  
Losco, Ezekiel F., Bechtold, and Webb. 2,874,453.
- Webb, John S.: *See*—  
Allen, George, Jr., and Webb. 2,901,489.  
Mowat, John H., and Webb. 2,918,471.
- Webb, John S., and G. H. Schneller, to American Cyanamid Co. Sulfapyrimidines and methods of preparing the same. 2,891,949, 6-23-59, Cl. 260—239.75.
- Webb, Leon C., 40% to C. M. Long. Combination hot air and internal combustion engine. 2,873,574, 2-17-59, Cl. 60—13.
- Webb, Nelson W., to Eastwood-Nealley Corp. Fourdrinier wire package. 2,868,369, 1-13-59, Cl. 206—59.
- Webb, Richard L.: *See*—  
Suen, Tzeng J., and Webb. 2,917,477.
- Webb, Robert L., to The Glidden Co. Preparation of 2-menthene-1-ol. 2,868,845, 1-13-59, Cl. 260—631.
- Webb, Robert L., to The Glidden Co. Treatment of certain derivatives of 2,6-dimethyl-octane and intermediates. 2,902,495, 9-1-59, Cl. 260—348.
- Webb, Robert L., to The Glidden Co. 2-substituted-2,6-dimethyl-7-octenes and process for preparing same. 2,902,510, 9-1-59, Cl. 260—489.
- Webb, Robert L., to The Glidden Co. Acyclic carbinols and esters and method of preparation of the esters. 2,919,290, 12-29-59, Cl. 260—488.
- Webb, Watt W., to Union Carbide Corp. Metal arc welding. 2,868,948, 1-13-59, Cl. 219—73.
- Webb, William A., and J. M. Jacobson, to Aircraft Armaments, Inc. Latching mechanisms. 2,867,863, 1-13-59, Cl. 20—92.
- Webb, William M., to General Electric Co. Fin straightening hand tool. 2,912,888, 11-17-59, Cl. 81—15.
- Webber, Charles S., to Norton Co. Coated abrasives. 2,876,087, 3-3-59, Cl. 51—298.
- Webber, Claude H. Shutoff valve for fluid pressure mains. 2,882,921, 4-21-59, Cl. 137—460.
- Webber, Claude H., to Mueller Co. Mechanism for controlling the flow of fluids under pressure. 2,895,353, 7-21-59, Cl. 77—41.
- Webber, George H.: *See*—  
Patterson, Hubert H., and Webber. 2,901,613.
- Webber, Jack C. Hold-down devices for well packers. 2,901,046, 8-25-59, Cl. 166—134.
- Webber, Stanley E., and J. A. Rich, to General Electric Co. Traveling wave directional attenuator. 2,900,557, 8-18-59, Cl. 315—3.5.
- Webber, William O., and D. A. Smith, to Esso Research and Engineering Co. Heat exchanger. 2,897,838, 8-4-59, Cl. 138—38.
- Webcor, Inc.: *See*—  
Babler, Otto. 2,875,623.  
Dale, Colin B. 2,906,537.  
Dale, Colin B. 2,914,620.  
Hechler, Valentine, IV. 2,910,231.  
Romano, Sam S., and Rak. 2,893,346.  
Vondran, Daniel J. 2,895,341.
- Weber, A. C., & Co., Inc.: *See*—  
Van Ordt, Jay H. 2,903,314.
- Weber A. G. Fabrik elektrotechnischer Artikel und Apparate: *See*—  
Enderli, Ernst. 2,875,296.
- Weber, Albert. Shelf support. 2,883,137, 4-21-59, Cl. 248—243.
- Weber, Albert M., to Seco Co., Inc. Tray for stacking and washing dishes. 2,905,353, 9-22-59, Cl. 220—19.
- Weber, Artur, to Saia A.G. Contactor. 2,884,499, 4-28-59, Cl. 200—106.
- Weber, Artur, to Saia A.G. Programme switch. 2,913,913, 11-24-59, Cl. 74—125.
- Weber Briars, Inc.: *See*—  
Borger, Frank G. 2,918,067.
- Weber, Carl: *See*—  
Weber, Carl, and Henson. 2,875,953.
- Weber, Carl, and K. L. Henson, to C. Weber. Railway track construction. 2,875,953, 3-3-59, Cl. 238—2.
- Weber, Charles L., Jr., to Westinghouse Air Brake Co. Load-controlled fluid pressure brake apparatus. 2,919,164, 12-29-59, Cl. 303—22.
- Weber, Charles W.: *See*—  
Copenhaver, John W., and Weber. 2,882,305.  
Copenhaver, John W., and Weber. 2,882,307.
- Weber, Charles W., to The M. W. Kellogg Co. New catalyst composition. 2,882,242, 4-14-59, Cl. 252—437.
- Weber, Charles W., to The M. W. Kellogg Co. Production of organic phosphonyl halide. 2,882,304, 4-14-59, Cl. 260—543.



- Weber, Charles W., to The M. W. Kellogg Co. Production of organophosphorus compounds. 2,882,306, 4-14-59, Cl. 260—543.
- Weber, Charles W., to The M. W. Kellogg Co. Preparation of organic phosphonyl halides. 2,882,314, 4-14-59, Cl. 260—543.
- Weber Dental Mfg. Co., The: *See*—  
Mauer, John A. 2,897,596.
- Weber, Earl J., to American Gas Association, Inc. Broiler burner. 2,896,702, 7-23-59, Cl. 158—99.
- Weber, Earl J., to American Gas Association, Inc. Gas pilot burner. 2,896,703, 7-23-59, Cl. 158—115.
- Weber, Eduard: *See*—  
Geigy, Wilhelm, and Weber. 2,873,206.
- Weber Engineered Products, Inc.: *See*—  
Mathis, Earl C. 2,906,082.
- Weber, Ernst L.: *See*—  
Cooper, Virgil K. 2,869,161.
- Weber, Eugen, to Hydro-Chemie Aktiengesellschaft. Method and apparatus for moulding foils. 2,911,677, 11-10-59, Cl. 18—19.
- Weber, Francis J. C., to Colgate-Palmolive Co. Bactericidal compositions to be used specially for food-industries equipment. 2,898,264, 8-4-59, Cl. 167—30.
- Weber, Franklin H. Telescopic carrying case. 2,919,017, 12-29-59, Cl. 206—1.
- Weber, Gerard H.: *See*—  
Stuys, Andreas L., Hoekstra, Weber, and Rathenau. 2,900,344.
- Weber, Gerard H., to North American Philips Co., Inc. Device for molding anisotropic permanent magnets. 2,903,329, 9-8-59, Cl. 18—47.
- Weber, Gerard H., and P. J. Hakker, to North American Philips Co., Inc. Method of manufacturing sintered permanent magnets. 2,892,248, 6-30-59, Cl. 29—155.6.
- Weber, H. G., & Co., Inc.: *See*—  
Hannon, Gilbert H. 2,881,628.  
Jacobsen, Paul W. 2,902,232.  
Jacobsen, Paul W. 2,908,452.
- Weber, Heinrich: *See*—  
Schmidt, Josef, and Weber. 2,894,601.  
Schmidt, Josef, Weber, and Von Holt. 2,909,579.
- Weber, Heinz: *See*—  
Muehlbauer, Hubert, and Weber. 2,905,661.
- Weber, Heinz, H. Boehn, G. Schiller, and K. Stange, to Badische Anilin- & Soda-Fabrik Akt. Polymerization of ethylene. 2,886,560, 5-12-59, Cl. 260—94.9.
- Weber, Herbert: *See*—  
Willwacher, Erwin, and Weber. 2,899,647.
- Weber, Herman W., to Laclede-Christy Co. Suspended furnace wall construction. 2,868,009, 1-13-59, Cl. 72—101.
- Weber, Horst L.: *See*—  
Hoopes, Harry P., Weber, and Neal. 2,904,444.
- Weber, Jean: *See*—  
Nottebrock, Heinrich. 2,907,641.
- Weber, Joachim F. L., to International Standard Electric Corp. Method of making selenium rectifiers and article produced thereby. 2,867,550, 1-6-59, Cl. 117—200.
- Weber, Johannes: *See*—  
Aldinger, Ulrich, and Weber. 2,918,048.
- Weber, John, Jr.: *See*—  
Whitfield, William A., and Weber. 2,898,618.
- Weber, John A., to Webarm Diecasting, Inc. Anodizable aluminum die casting alloy. 2,885,286, 5-5-59, Cl. 75—138.
- Weber, Josef J., to Contraves A. G. Electro-mechanical control system. 2,875,854, 3-3-59, Cl. 188—1.
- Weber, Joseph. Radio receiving system. 2,891,247, 6-16-59, Cl. 343—113.
- Weber, Karel, and B. Jansa, to Tesla, narodni podnik. Miniature relay for high switching frequencies. 2,911,493, 11-3-59, Cl. 200—87.
- Weber, Kurt: *See*—  
Staeuble, Max, and Weber. 2,914,531.
- Weber, Laura E. Self-lubricating and rattle preventing washer. 2,871,069, 1-27-59, Cl. 308—135.
- Weber, Otto: *See*—  
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- Weber, Robert. Plant propagating devices. 2,870,575, 1-27-59, Cl. 47—37.
- Weber, Robert J. Tie holder. 2,895,521, 7-21-59, Cl. 150—1.
- Weber, Rudolf: *See*—  
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- Weber Shoe Co., Inc.: *See*—  
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- Weber, Victor, to Robertshaw-Fulton Controls Co. Temperature control for cooking appliances. 2,885,151, 5-5-59, Cl. 236—32.
- Weber, Victor, to Robertshaw-Fulton Controls Co. Temperature control for cooking appliances. 2,889,115, 6-2-59, Cl. 236—48.
- Weber, Victor, to Robertshaw-Fulton Controls Co. Temperature responsive control. 2,894,104, 7-7-59, Cl. 219—20.
- Weber, Victor, H. J. Tyler, and W. J. Russell, to Robertshaw-Fulton Controls Co. Temperature responsive control. 2,902,567, 9-1-59, Cl. 200—122.
- Weber, Victor, C. D. Branson, and F. S. Genbauffe, to Robertshaw-Fulton Controls Co. Thermostatic valve control. 2,909,324, 10-20-59, Cl. 236—99.
- Weber, Victor, W. J. Sanders, and W. J. Russell, to Robertshaw-Fulton Controls Co. Thermostatic control device for fluid fuel burning apparatus. 2,911,152, 11-3-59, Cl. 236—1.
- Weber, Victor, H. J. Tyler, and W. J. Russell, to Robertshaw-Fulton Controls Co. Temperature responsive control. 2,913,562, 11-17-59, Cl. 219—20.
- Weber, Volkmar: *See*—  
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- Weber, Walter P. Spring tooth plow and attachment. 2,884,081, 4-28-59, Cl. 172—482.
- Weber, William F.: *See*—  
Lustig, Howard E., and Weber. 2,887,552.  
Zabb, Norman J., Newell, McKenney, and Weber. 2,913,720.
- Weber, Wolfgang, and H. Lohest, to Barmer Maschinenfabrik Aktiengesellschaft. Tension and diameter control for a winding motor. 2,915,254, 12-1-59, Cl. 242—45.
- Webers, Vincent J.: *See*—  
Gray, Russell H., and Webers. 2,892,822.
- Wesley, Reginald S., to Electric & Musical Industries Ltd. Circuit arrangements embodying electron discharge devices. 2,912,614, 11-10-59, Cl. 315—12.
- Webster, Antone J., and R. C. Humphrey, to California Research Corp. Flare stack steam control. 2,891,607, 6-23-59, Cl. 158—99.
- Webster, Donald S.: *See*—  
Brown, Harrison S., and Webster. 2,869,982.
- Webster Electric Co.: *See*—  
Shields, George B. 2,869,240.  
Shields, George B. 2,909,617.
- Webster, Frank G., D. W. Heseltine, and L. G. S. Brooker, to Eastman Kodak Co. Cyanine bases containing an azadenedenyl nucleus. 2,887,480, 5-19-59, Cl. 260—240.
- Webster, Fullerton D., to Mackay Radio and Telegraph Co. Amplifier distortion correction system. 2,877,423, 3-10-59, Cl. 332—37.
- Webster, George J.: *See*—  
Edwards, Clyde H., and Webster. 2,878,511.
- Webster, George J., and N. R. Wilson, to Phillips Petroleum Co. Apparatus for filtering solids from gases. 2,871,978, 2-3-59, Cl. 183—57.
- Webster, George J., and C. H. Edwards, to Phillips Petroleum Co. Pelleting process and apparatus. 2,890,942, 6-16-59, Cl. 23—314.
- Webster, Harry M., to H. K. Porter, Inc. One-hand cable cutter. 2,875,520, 3-3-59, Cl. 30—254.
- Webster Instrument, Inc.: *See*—  
Webster, Robert A. 2,896,159.
- Webster, Jack D. Truck and tilting cradle for container. 2,909,297, 10-20-59, Cl. 214—313.
- Webster, James A., to Dow Corning Corp. Preparation of organosilicon compounds. 2,894,968, 7-14-59, Cl. 260—448.2.
- Webster, James D. Bridge for stringed musical instruments having means for adjusting the spacing of the strings. 2,918,837, 12-29-59, Cl. 84—312.
- Webster, John C. Automatically recording pitch matching equipment. 2,869,666, 1-20-59, Cl. 181—5.
- Webster, John S., to The Sheffield Twist Drill & Steel Co. Ltd. Arbors for milling machine cutters and like rotary tools. 2,917,975, 12-22-59, Cl. 90—11.
- Webster, John S., and J. M. Bramhall, to The Sheffield Twist Drill & Steel Co. Ltd. Device for use in grinding twist drills. 2,915,858, 12-8-59, Cl. 51—219.
- Webster, Joseph H. Vehicle maximum speed indicator. 2,903,322, 9-8-59, Cl. 346—18.
- Webster Mfg., Inc.: *See*—  
McCloskey, Melvin N. 2,888,170.
- Webster, Owen W.: *See*—  
Pratt, Burt C., and Webster. 2,894,989.
- Webster, Owen W., to E. I. du Pont de Nemours and Co. 2,3,6,7 naphthalenetetracarboxylic acid and its functional derivatives. 2,912,442, 11-10-59, Cl. 260—346.3.
- Webster, R. W., & Co. Ltd.: *See*—  
Jones, Thomas M. 2,893,536.
- Webster, Raymond C.: *See*—  
Hatfield, Robert L., and Webster. 2,887,546.
- Webster, Raymond C., to W. E. Anderson, Inc. Electrical ground and continuity control. 2,882,494, 4-14-59, Cl. 324—62.
- Webster, Raymond C., to W. E. Anderson, Inc. Electrical measuring instrument. 2,887,625, 5-19-59, Cl. 317—157.
- Webster, Reginald M.: *See*—  
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- Webster, Richard E. Rear horn for vehicles. 2,870,428, 1-20-59, Cl. 340—70.
- Webster, Richard R., to Jones & Laughlin Steel Corp. Electronic switch. 2,919,346, 12-29-59, Cl. 250—27.
- Webster, Robert A., to Webster Instrument, Inc. Method and apparatus for measuring electrical resistance. 2,896,159, 7-21-59, Cl. 324—64.
- Webster, Roger R., to Texas Instruments Inc. Transistor amplifier circuits. 2,901,558, 8-25-59, Cl. 179—171.
- Webster, Samuel L.: *See*—  
Ellis, Jesse D., and Webster. 2,916,793.
- Webster, Stokely: *See*—  
Kenyon, Theodore W., and Webster. 2,870,745.
- Webster, Stokely, and C. E. Barkalow, to United Aircraft Corp. Nonlinear variable resistor. 2,918,642, 12-22-59, Cl. 338—89.



- Wechsler, Harry, P. Bernstein, and R. L. Herbst, to The Borden Co. Separation of alcohols from esters. 2,872,478, 2-3-59, Cl. 260-499.
- Wechter, William J., and G. S. Fonken, to The Upjohn Co. 11 $\alpha$ -alkene-11 $\beta$ -hydroxy-5 $\beta$ -pregnanes. 2,897,198, 7-28-59, Cl. 260-239.55.
- Weck, Herman I.: *See*—  
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- Weckerle, Josef, to International Standard Electric Corp. Control circuit for F. M. tuning indicator tube. 2,877,346, 3-10-59, Cl. 250-27.
- Weddell, William S.: *See*—  
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- Weddendorf, Albert H., Jr. Sink strainer. 2,905,951, 9-29-59, Cl. 4-287.
- Wedekind, Johannes A.: *See*—  
Apblett, William R., and Wedekind. 2,908,805.
- Wedell, Hans: *See*—  
Strauss, Wennemar, and Wedell. 2,910,413.
- Wedell, Hans, to Böhme Fettchemie G. m. b. H. Compositions for and methods of finishing textile materials. 2,872,351, 2-3-59, Cl. 117-121.
- Wedge Protectors, Inc.: *See*—  
Hillix, Foster F., and Phillips. 2,876,724.
- Weeber, Paul G. Toy or the like. 2,912,790, 11-17-59, Cl. 46-8.
- Weed, Herman R., to Robbins & Myers, Inc. Testing device for electrical windings and the like. 2,901,695, 8-25-59, Cl. 324-57.
- Weedman, John A.: *See*—  
Scotfield, Raymond C., and Weedman. 2,905,637.
- Weedman, John A., to Phillips Petroleum Co. Separation by crystallization. 2,868,830, 1-13-59, Cl. 260-475.
- Weedman, John A., to Phillips Petroleum Co. Apparatus for separation and purification. 2,903,343, 9-8-59, Cl. 23-273.
- Weegar, Ralph P., and H. C. Unkauf, to Eugene Dietzgen Co. Diazotopy reproduction material and method. 2,871,119, 1-27-59, Cl. 96-49.
- Weegar, Ralph P., and H. C. Unkauf, to Dietzgen, Eugene, Co. Diazotopy reproduction material and method. 2,873,207, 2-10-59, Cl. 117-34.
- Weekman, Vern W., Jr., to Socony Mobil Oil Co., Inc. Hydrogenation and coking of heavy petroleum fractions. 2,871,182, 1-27-59, Cl. 208-50.
- Weeks, Donald L.: *See*—  
Burns, John H., Dittmer, and Weeks. 2,878,872.
- Weeks, Frank A. Collar brace. 2,872,684, 2-10-59, Cl. 2-132.
- Weeks, Lloyd E., to Monsanto Chemical Co. Process for the manufacture of emulsion fuels. 2,892,694, 6-30-59, Cl. 52-5.
- Weeks, Lloyd E., to Monsanto Chemical Co. Detergent composition. 2,913,417, 11-17-59, Cl. 252-152.
- Weeks, Robert, Jr., to Electrolux Corp. Motor brush assembly. 2,914,689, 11-24-59, Cl. 310-247.
- Weeks, Robert L.: *See*—  
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- Weeks, Roy E. Van door with adjustable load-engaging plate structure. 2,885,221, 5-5-59, Cl. 280-179.
- Weeks, Warren D., to Root Spring Scraper Co. Snow plow mount for a radially swingable snow plow. 2,869,254, 1-20-59, Cl. 37-42.
- Weems, Albert W. Machine for breaking nut meats. 2,875,799, 3-3-59, Cl. 146-123.
- Weems, Wilbur L.: *See*—  
De Jarnette, Van T., and Weems. 2,874,658.
- Weersma, Arnold. Allen wrench set. 2,878,701, 3-24-59, Cl. 81-71.
- Weesner, William E.: *See*—  
Doerr, Edward L., and Weesner. 2,904,585.
- Weesner, William E., to Monsanto Chemical Co. Complexes of sulfonium compounds. 2,909,543, 10-20-59, Cl. 260-433.
- Wefco Inc.: *See*—  
Winslow, Willis M. 2,886,151.
- Wegener, Harry, to Inventa A.G. Process for the fixation of pressure crimped synthetic fibers. 2,888,733, 6-2-59, Cl. 28-72.
- Wegener, Harry, G. Bruni, L. Notarbartolo, and W. Muench, to Perfogit Societa per Azioni. Process and apparatus for melt spinning. 2,877,495, 3-17-59, Cl. 18-8.
- Wegh, Emery M.: *See*—  
Kiesel, George W., and Wegh. 2,908,782.
- Weglein, Rolf D., to Hughes Aircraft Co. Rapid frequency shift traveling-wave tube. 2,880,354, 3-31-59, Cl. 315-3.5.
- Wegler, Richard: *See*—  
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Sasse, Klaus, Wegler, and Grewe. 2,904,553.  
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- Wegler, Richard, and G. Frank, to Farbenfabriken Bayer Akt. Production of cured epoxide resins. 2,884,406, 4-28-59, Cl. 260-47.
- Wegler, Richard, and G. Unterstenhofer, to Farbenfabriken Bayer Akt. Method of combating pests. 2,898,265, 8-4-59, Cl. 167-30.
- Wegmann, Jacques, W. Kern, and W. Jenny, to Ciba Ltd. Vat dyestuff mixtures. 2,888,312, 5-26-59, Cl. 8-28.
- Wegner, Christian, to Farbenfabriken Bayer Akt. Process for the production of alcohols. 2,876,266, 3-3-59, Cl. 260-641.
- Wegner, Christian, H. Holtschmidt, and K. Hess, to Mobay Chemical Co. Production of thioether glycols. 2,916,519, 12-8-59, Cl. 260-609.
- Wegner, Josef, to Globo Investment Trust. Luminous wrist-watch. 2,916,871, 12-15-59, Cl. 58-50.
- Wegner, Robert P.: *See*—  
Chandler, Bruce C., and Wegner. 2,907,161.
- Wehe, Herman G., to Bell Telephone Laboratories, Inc. Electron beam recording. 2,883,257, 4-21-59, Cl. 346-74.
- Wehmer, Bruno F., to C. P. Peirce. Magnetic belt recorder. 2,899,506, 8-11-59, Cl. 179-100.2.
- Wehner, Albert, to Brueckenbau Flender G. m. b. H. Screen for use in oscillating screening devices. 2,870,910, 1-27-59, Cl. 209-396.
- Wehner, Albert. Screening or draining apparatus. 2,910,185, 10-27-59, Cl. 210-388.
- Wehner, William C., to Moto-Mower, Inc. Variable speed rotary mowers. 2,893,503, 7-7-59, Cl. 180-75.
- Wehrenfennig, Hugo: *See*—  
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- Wehrheim, Werner: *See*—  
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- Wehrli, Federico. Means for treatment of blood with oxygen or ozone and ultraviolet light. 2,887,107, 5-19-59, Cl. 128-214.
- Wehrli, Robert L., C. A. Crafts, and M. D. McFarlane, to Robertshaw-Fulton Controls Co. Diaphragm-flapper assembly. 2,915,077, 12-1-59, Cl. 137-82.
- Wehrli, Walter: *See*—  
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- Wehrly, Jack R.: *See*—  
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- Wehrmann, Ralph F.: *See*—  
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- Wehshely, Karl, to Leitbuero fur Erfindungswesen. Transmission system for automotive agricultural vehicles and the like. 2,895,349, 7-21-59, Cl. 74-745.
- Wei, Ling, to Colgate-Palmolive Co. Clear liquid solubilized lanolin compositions. 2,900,307, 8-18-59, Cl. 167-90.
- Wei, Pierre, to Societe Financiere et Industrielle pour la fabrication de l'Acide Carbonique Pur et autres Produits alimentaires par abreviation: l'Acide Carbonique Pur. Taps for compressed gas reservoirs. 2,888,276, 5-26-59, Cl. 284-18.
- Weibel, Erich S., to Bell Telephone Laboratories, Inc. Spectrum synthesizer. 2,881,257, 4-7-59, Cl. 179-15.55.
- Weibel, Herman: *See*—  
Ingwer, Carl H., Wright, and Weibel. 2,916,749.
- Weibel, John, Jr., to General Motors Corp. Refrigerating apparatus. 2,893,626, 7-7-59, Cl. 230-232.
- Weibel, John, Jr., to General Motors Corp. Refrigerating apparatus. 2,913,166, 11-17-59, Cl. 230-58.
- Weichselbaum, Edwin G.: *See*—  
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- Weichselbaum, Theodore E. and E. G., to Biological Research, Inc. Hematocrit closures. 2,884,150, 4-28-59, Cl. 215-41.
- Weickert, Bernhard, to E. I. du Pont de Nemours and Co. Felting needle. 2,882,585, 4-21-59, Cl. 28-4.
- Weickmann, August: *See*—  
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- Weidauer, Curt, and R. Benner, to Samuel Briskman. Left-hand pinking shears. 2,916,822, 12-15-59, Cl. 30-230.
- Weidel, Joseph C., to Rohr Aircraft Corp. Method of determining tube shapes. 2,874,456, 2-24-59, Cl. 29-407.
- Weidenbach, Ray C.: *See*—  
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- Weidenhammer, Carl H.: *See*—  
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- Weidenhammer, James: *See*—  
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- Weidenhammer, James A., to International Business Machines Corp. Air regulated movable platform. 2,910,294, 10-27-59, Cl. 271-88.
- Weidenheimer, Joseph F.: *See*—  
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- Valentine, William, and Weidenheimer. 2,879,161.
- Weidenman, James W., and D. S. Rathje, to Litton Industries of California. Precision potentiometers. 2,871,326, 1-27-59, Cl. 201-56.
- Weidknecht, Charles J.: *See*—  
Rosen, Charles, and Weidknecht. 2,906,969.
- Weidknecht, Charles J., to Tele-Dynamics Inc. Radio frequency amplifier. 2,909,621, 10-20-59, Cl. 179-171.
- Weidler, Ralph W. Basement assembly and prefabricated structural units therefor. 2,915,150, 12-1-59, Cl. 189-34.
- Weidlich, Hans: *See*—  
Merz, Hans, and Weidlich. 2,872,451.
- Weidner, Jack B. Military practice target-supporting vehicle. 2,886,372, 5-12-59, Cl. 296-3.
- Weidner, Jack B. Vehicle mounted ladder. 2,914,134, 11-24-59, Cl. 182-127.
- Weidner, Ralph J., to Allen Electric Equipment Co. Mounting device. 2,884,215, 4-28-59, Cl. 248-205.
- Weigel, Albert C., and J. L. Menson, to Combustion Engineering, Inc. Liquid level indicator. 2,877,352, 3-10-59, Cl. 250-43.5.



- Weigel, Fritz: *See*—  
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- Weigel, John E.: *See*—  
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- Weigert, Karl M.: *See*—  
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- Weight, Earnest L.: *See*—  
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- Weigold, Harold, and A. W. Grant, to United States Rubber Co. Tire shaping and curing presses. 2,880,459, 4-7-59, Cl. 18-17.
- Weih, Julius: *See*—  
Baggott, Edmund W., and Weih. 2,904,930.
- Weih, Julius, to Ideal Toy Corp. Denture for a doll. 2,904,929, 9-22-59, Cl. 46-171.
- Weihsermel, Klaus: *See*—  
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- Weijlard, John, to Merck & Co., Inc. Process for preparing N-allylnormorphine. 2,891,954, 6-23-59, Cl. 260-285.
- Weijlard, John, to Merck & Co., Inc. Resolution of di-2,2-diphenyl-3-methyl-4-dimethylaminobutyronitrile. 2,906,772, 9-29-59, Cl. 260-465.
- Weikart, John: *See*—  
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- Weikart, John, and R. C. Morbeck, to Esso Research and Engineering Co. Hydrogen production and hydroforming. 2,913,401, 11-17-59, Cl. 208-136.
- Weil, Burt. Stretcher having retractable legs. 2,877,047, 3-10-59, Cl. 296-20.
- Weil, Burt. Ambulance cart with hand release. 2,877,048, 3-10-59, Cl. 296-20.
- Weil, Edward. Combined brushing sponge and mirror. 2,902,702, 9-8-59, Cl. 15-118.
- Weil, Helen K. Combination luggage tag and key holder. 2,871,902, 2-3-59, Cl. 150-40.
- Weil, James K.: *See*—  
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- Weil Pump Co.: *See*—  
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- Weil, Roger M.: *See*—  
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- Weil, Walter M.: *See*—  
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- Cooper, Hugh S., Schaefer, and Schmidt. 2,877,110.
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- Weiland, Richard H., to Boeing Airplane Co. Aircraft control surface operating mechanism. 2,899,152, 8-11-59, Cl. 244-85.
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- Weill, Georges: *See*—  
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- Weill, Jacky: *See*—  
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- Weiller Co., The: *See*—  
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- Wells, Raymond T. Buoy motor. 2,871,790, 2-3-59, Cl. 103-70.
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- Weimer, Paul K., to Radio Corp. of America. Targets for television pickup tubes. 2,898,489, 8-4-59, Cl. 313-65.
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- Wein, Samuel. Silvering process and materials. 2,871,139, 1-27-59, Cl. 117-35.
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- Ohlinger, Leo A., Wigner, Weinberg, and Young. 2,890,158.
- Wigner, Eugene P., Ohlinger, Young, and Weinberg. 2,873,243.
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- Weinberg, Elliott L., to Metal & Thermit Corp. Process for controlling slime in paper making systems and products therefrom. 2,915,428, 12-1-59, Cl. 162-161.
- Weinberg, Kurt: *See*—  
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- Weinberger, Arnold, and J. L. Smith, to United States of America, Commerce. High-speed binary adder having simultaneous carry generation. 2,879,001, 3-24-59, Cl. 235-164.
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- Weinbrenner, Albert H., Co.: *See*—  
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- Weinbrenner, Erwin: *See*—  
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- Weinel, Cary G., Jr.: *See*—  
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- Weiner, Alvin A.: *See*—  
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- Weiner, Herbert A., to Gulton Industries, Inc. Dust chamber coating device. 2,907,299, 10-6-59, Cl. 118-309.
- Weiner, Lewis P., to Pabst Brewing Co. Waterproof carton for icing beverages. 2,883,046, 4-21-59, Cl. 206-65.
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- Weinert, Carl R., to Federal Laboratories, Inc. Dry powder dispersing device. 2,899,106, 8-11-59, Cl. 222-82.
- Weinert, Hans, and A. Wille, to Bochumer Eisenhütte Heintzmann & Co. Coupling for overlapping profile members. 2,867,303, 1-6-59, Cl. 189-36.
- Weinfeld, David H. Multiple portable support means. 2,887,974, 5-26-59, Cl. 113-104.
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- Weingarten, Morris, F. D'Augustine, and G. R. Bange, to Radio Corp. of America. Coating apparatus. 2,902,973, 9-8-59, Cl. 118-56.
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- Weininger, Joseph L., to General Electric Co. Thermocell. 2,890,259, 6-9-59, Cl. 136-4.
- Weinland, Clarence E., and A. C. Ellings. Rocket motor assembly. 2,876,620, 3-10-59, Cl. 60-35.6.
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- Weinreich, Gabriel, to Bell Telephone Laboratories, Inc. Negative resistance semiconductive element. 2,895,109, 7-14-59, Cl. 332-52.
- Weinreich, Otto, to Tung-Sol Electric Inc. Preparation of photosensitive crystals. 2,868,736, 1-13-59, Cl. 252-501.
- Weinreich, Sol, and M. Newman. Car control demonstrator. 2,908,087, 10-13-59, Cl. 35-11.
- Weinrich, Walter H.: *See*—  
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- Weinrich, Walter H., K. C. Mudd, and D. S. Noecker, to Midwest Mfg. Corp. Ice cube ejection means. 2,867,995, 1-13-59, Cl. 62-364.
- Weinschenk, Lavern L. Conveyor vertical adjustment means. 2,901,091, 8-25-59, Cl. 198-120.5.
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- Weinstein, Albert. Spinning toys. 2,892,287, 6-30-59, Cl. 46-69.
- Weinstein, Arthur H., to The Goodyear Tire & Rubber Co. Diaryl disulfides containing aryl sulfonyl groups. 2,900,404, 8-18-59, Cl. 260-456.



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- Weinstein, Bernard, to Bancroft Cap Co. Cap with envelope crown protector. 2,873,451, 2-17-59, Cl. 2-199.
- Weinstein, Bernard, to Bancroft Cap Co. Band attachment for uniform caps. 2,878,480, 3-24-59, Cl. 2-179.
- Weinstein, Burton A. Convertible material working machine tool of the tiltable frame type. 2,905,211, 9-22-59, Cl. 144-1.
- Weinstein, Herman E. Door fireplace screen. 2,881,754, 4-14-59, Cl. 126-202.
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- Weinstock, Harry H., Jr., to Allied Chemical Corp. Spinning solvent for acrylic fibers. 2,879,242, 3-24-59, Cl. 260-29.6.
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- Meister, Peter D., and Weintraub. 2,877,162.
- Eppstein, Samuel H., Meister, and Weintraub. 2,874,160.
- Eppstein, Samuel H., Meister, and Weintraub. 2,883,400.
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- Weintraub, Robert L.: *See—*
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- Weir, Donald A.: *See—*
- Wright, Esmond P. G., Weir, and Rice. 2,896,019.
- Weir, Donald A., to International Standard Electric Corp. Intelligence storage equipment. 2,904,778, 9-15-59, Cl. 340-174.
- Weir, Edgar V.: *See—*
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- Weir, Gordon E. Measuring dispenser. 2,877,937, 3-17-59, Cl. 222-452.
- Weir, James. Cone valve. 2,910,090, 10-27-59, Cl. 137-625.41.
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- Weir, Joseph T., to United States Steel Corp. Method of measuring the bearing length of drawing dies. 2,899,747, 8-18-59, Cl. 33-1.
- Weir, Thomas J., to Schwitzer Corp. Fluid coupling mechanism. 2,879,755, 3-31-59, Cl. 123-41.12.
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- Heywang, Walter, Winstel, and Weis. 2,919,389.
- Weis, Alfred, to Elektro-Mechanik G.m.b.H. Electro-hydraulic shifting device. 2,918,796, 12-29-59, Cl. 60-52.
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- Weis, William A., to General Motors Corp. Peripheral metering distributor valve. 2,910,091, 10-27-59, Cl. 137-625.48.
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- Gislon, André, and Weisang. 2,897,140.
- Weisbach Corp., The: *See—*
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- Weisbart, Hans, and W. Förster, to Reichhold Chemicals, Inc. Process for the preparation of hardenable condensation products. 2,911,388, 11-3-59, Cl. 260-58.
- Weisbaum, Samuel, to Bell Telephone Laboratories, Inc. Non-reciprocal circuit element. 2,903,656, 9-8-59, Cl. 333-24.
- Weisbeck, Ralph L., to G. F. Wales. Apparatus for mounting perforating implements. 2,876,837, 3-10-59, Cl. 164-118.
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- Weisburg, Aaron J. R. Gunnel guard. 2,910,033, 10-27-59, Cl. 114-219.
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- Weise, Johannes, O. Fischer, W. Hahn, K. Kromer, and R. Noack, to VEB Zeiss Ikon. Photographic lens shutter with a braking mechanism for the control of the exposure time. 2,893,301, 7-7-59, Cl. 95-62.
- Weise, Johannes, and R. Noack, to VEB Zeiss Ikon Dresden. Setting arrangements for flash shutters. 2,897,738, 8-4-59, Cl. 95-11.5.
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- Weisel, Zenas V. Turbo-compressor apparatus. 2,916,198, 12-8-59, Cl. 230-116.
- Weisenbach, Charles O., to Bendix Aviation Corp. Pump. 2,910,008, 10-27-59, Cl. 103-162.
- Weisenberger, Adam A., to Sentinel Signal Corp. Tire curing sentinel system. 2,896,197, 7-21-59, Cl. 340-267.
- Weisenborn, Frank L., to Olin Mathieson Chemical Corp. Brominated alkaloids. 2,912,436, 11-10-59, Cl. 260-286.
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- Veith, Adam, and Weisenburger. 2,908,076.
- Weisenburger, August. Shears. 2,900,722, 8-25-59, Cl. 30-238.
- Weisenfeld, George A. Potato harvesting apparatus. 2,867,322, 1-6-59, Cl. 209-75.
- Weiser, David, to Amroy Co. Box-pleated skirt. 2,916,741, 12-15-59, Cl. 2-211.
- Weiser, Kurt: *See—*
- Guire, Ronald J., and Weiser. 2,871,100.
- Weiser, Morris. Child's beverage dispenser. 2,882,729, 4-21-59, Cl. 73-317.
- Weiser, Sidney, to Federal Mfg. & Engineering Corp. Reciprocable actuator device. 2,874,913, 2-24-59, Cl. 242-55.
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- Weisgerber, George A., and J. O. Smith, Jr., to Esso Research and Engineering Co. Stabilized fuel oil compositions. 2,895,815, 7-21-59, Cl. 44-68.
- Weisglass, Carl P.: *See—*
- Weisglass, Louis L. and C. P. 2,895,052.
- Weisglass, Louis L. and C. P. Device and circuit for the measurement of high resistances. 2,895,052, 7-14-59, Cl. 250-83.6.
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- Weiskopf, Edwin C., and M. C. Gioia, to Technicon International Ltd. Mount for paraffin-blocked histologic tissue specimen. 2,868,072, 1-13-59, Cl. 88-40.
- Weiskopf, Richard S.: *See—*
- Fishel, Clarence, and R. C. and R. S. Weiskopf. 2,892,596.
- Weiskopf, Robert C.: *See—*
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- Weisman, Maurice, to Modern Coffees, Inc. Machine for packing bags into containers. 2,882,658, 4-21-59, Cl. 53-24.
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- Weiss, Adolph, to American Can Co. Banding machine. 2,885,839, 5-12-59, Cl. 53-3.
- Weiss, Adolph, to American Can Co. Carrier coupler for containers. 2,891,665, 6-23-59, Cl. 206-65.
- Weiss, Adolph, to American Can Co. Reinforced carrying handle for tied together containers and method of producing the same. 2,908,438, 10-13-59, Cl. 229-52.
- Weiss, Albert: *See—*
- Kaufman, Harold B., Jr., and Weiss. 2,900,316.
- Weiss, Arthur J., O. W. Stone, and D. P. Doran, to Continental Can Co., Inc. Hinged cover paperboard carton and blank therefor. 2,906,444, 9-29-59, Cl. 229-14.
- Weiss, August C. Speed change indicator. 2,900,465, 8-18-59, Cl. 200-61.46.
- Weiss, Bernard W. Combination match and cigarette package. 2,907,453, 10-6-59, Cl. 206-48.
- Weiss Bros.: *See—*
- Bair, Richard H. 2,893,720.
- Weiss, Cornelius F., Jr., and E. P. Di Cambio, to International Business Machines Corp. Electronic commutator. 2,884,191, 4-28-59, Cl. 235-152.
- Weiss, Edward L., to Leeds and Northrup Co. Adjustable mirror support in successive dispersion monochromator. 2,868,063, 1-13-59, Cl. 88-14.
- Weiss, Eric, to National Cash Register Co. Circuitry for performing square root. 2,888,200, 5-26-59, Cl. 235-61.
- Weiss, Ernest: *See—*
- Reuter, Paul L., and Weiss. 2,896,464.
- Weiss, Ernst, to Heberlein Patent Corp. Pattern flock fabric and methods for producing said pattern. 2,901,373, 8-25-59, Cl. 117-9.
- Weiss, Ernst, to Heberlein Patent Corp. Process for metalizing textile and other materials and products therefrom. 2,912,345, 11-10-59, Cl. 117-37.
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- Weiss, Francis: *See—*
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- Weiss, Herbert, to Siemens-Schuckertwerke Akt. Apparatus for effecting an electric control in response to a magnetic field. 2,906,945, 9-29-59, Cl. 324-45.
- Weiss, Herbert, and H. Welker, to Siemens-Schuckertwerke Akt. Electric variable resistance devices. 2,894,234, 7-7-59, Cl. 201-63.
- Weiss, Howard M.: *See*—  
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- Weiss, Irving F. Workpiece feed device. 2,868,050, 1-13-59, Cl. 81-15.
- Weiss, Irwin K., to General Motors Corp. Air suspension. 2,903,256, 9-8-59, Cl. 267-15.
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- Weiss, Martin J.: *See*—  
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- Weiss, Morton A., to White Machine Co., Inc. Conveyor racks. 2,899,072, 8-11-59, Cl. 211-1.5.
- Weiss, Paul: *See*—  
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- Weiss, Phil H., to Paramount Pictures Corp. Electronic switch. 2,900,504, 8-18-59, Cl. 250-27.
- Weiss, Phil H., to Paramount Pictures Corp. Subscription television system. 2,907,816, 10-6-59, Cl. 178-5.1.
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- Weiss, Richard, to Van Ameringen-Haebler, Inc. Hydrochlorination of myrcene. 2,882,323, 4-14-59, Cl. 260-631.5.
- Weiss, Richard, to Franke & Heidecke, Fabrik Photographischer Prazisions-Apparate. Photographic shutter and diaphragm adjusting mechanism. 2,912,914, 11-17-59, Cl. 95-64.
- Weiss, Robert S., and D. H. Wells, to Antenna Designs, Inc. Antenna driven element. 2,888,678, 5-26-59, Cl. 343-314.
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- Weiss, Webster J., to J. I. Case Co. Automatic tying mechanism for balers. 2,911,904, 11-10-59, Cl. 100-4.
- Weissberger, Arnold: *See*—  
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- Weissenbach, Joseph. Internal combustion engine accessory adapter drive unit. 2,867,202, 1-6-59, Cl. 123-195.
- Weissenberg, Frances. Back-supporting and stretching apparatus. 2,904,039, 9-15-59, Cl. 128-69.
- Weissenberg, Gustav: *See*—  
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- Weissert, Frederick C., to The Firestone Tire & Rubber Co. Combustion-resistant neoprene foam rubber and method of making same. 2,880,182, 3-31-59, Cl. 260-2.5.
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- Weissert, Josef: *See*—  
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- Weissert, Josef, and H. Gies, to Farbwerke Hoechst Akt. vormals Meister Lucius & Bruning. Polyazo-dyestuffs. 2,897,188, 7-28-59, Cl. 260-144.
- Weissfloh, Albert: *See*—  
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- Weisshaar, Erich, to Siemens-Schuckertwerke Aktiengesellschaft. Electric modulating devices. 2,902,660, 9-1-59, Cl. 332-51.
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- Weissman, Sam I., M. L. Perlman, and D. Lipkin, to United States of America, Atomic Energy Commission. Process of producing plutonium. 2,908,563, 10-13-59, Cl. 75-84.1.
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- Weist, Herman C. Plastic bag making machine. 2,882,956, 4-21-59, Cl. 154-42.
- Weiswasser, Aaron: *See*—  
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- Weksler Instrument Corp.: *See*—  
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- Welanetz, Ludolph F.: *See*—  
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- Welbon, William W., to General Electric Co. Tungsten carbide purification. 2,913,315, 11-17-59, Cl. 23-208.
- Welbourn, John T. Sound-absorbing housing and structure. 2,884,086, 4-28-59, Cl. 181-60.
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- Welch, Alanson U., to Air Reduction Co., Inc. Arc welding apparatus. 2,867,730, 1-6-59, Cl. 307-3.
- Welch Allyn, Inc.: *See*—  
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- Welch, Arthur J., to Borg-Warner Corp. Control mechanism. 2,881,890, 4-14-59, Cl. 192-82.
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- Wells, Robert G.: *See—*  
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- Wells, Roger, to Diamond Gardner Corp. Suction couch roll device. 2,896,710, 7-28-59, Cl. 162-371.
- Wells, Sheldon E., to Lombard Corp. Sheet stretcher. 2,897,871, 8-4-59, Cl. 153-35.
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- Wells, Wesley B., and W. K. Lockhart, to Westinghouse Air Brake Co. Wide angle lenses. 2,908,197, 10-13-59, Cl. 88-1.
- Wells, William O., Jr., to Wells Lamont Corp. Infant's mitten or the like with detachable rattle. 2,902,693, 9-8-59, Cl. 2-158.
- Wells, Willis L., to Lambert Engineering Co. Apparatus for driving pipe and the like. 2,886,953, 5-19-59, Cl. 61-75.
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- Welser, Brinton, to Chain Belt Co. Chain sideplate construction. 2,869,379, 1-20-59, Cl. 74-245.
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- Welsh, James W.: *See—*  
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- Welsh, James W., to Hoda Corp. Snap action device. 2,870,291, 1-20-59, Cl. 200-113.
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- Welsh, John. Pizza pie cutter. 2,906,020, 9-29-59, Cl. 30-114.
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- Welsh Mfg. Co.: *See—*  
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- Welte, Benedict, to Colonial Broach Co. Ring gear broaching machine. 2,880,652, 4-7-59, Cl. 90-10.
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- Wempe, Bernhard. Torch for arc-welding. 2,903,559, 9-8-59, Cl. 219-75.
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- Wendela, Hug H., to General Motors Corp. Fastening device. 2,886,270, 5-12-59, Cl. 248-74.
- Wendell, Evert J., to Hale Fire Pump Co. Rotary valves. 2,916,254, 12-8-59, Cl. 251-172.
- Wenden, Henry E., to United States of America, Army. Method of changing the resonant frequency of a quartz crystal. 2,898,243, 8-4-59, Cl. 117-223.
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- Wendt, Harry C., to General Electric Co. Electromagnetic telemetering device and method of manufacture. 2,879,413, 3-24-59, Cl. 310-42.
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- Wenker, Henry. Indicator papers. 2,915,373, 12-1-59, Cl. 23-253.
- Wen-Mac Corp.: *See—*  
Barr, Josiah M. 2,876,866.  
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- Wenn, Leslie A.: *See—*  
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- Wennberg, Olov C. G., to General Engineering Co. A. B. Revolving bark-removing tools simultaneously biased by endless pressure-equalizing band. 2,904,085, 9-15-59, Cl. 144-208.
- Wennberg, Olov C. G. Log-peeling machine having scraper tools provided with bark-deflecting wings. 2,911,020, 11-3-59, Cl. 144-208.



- Wennemer, Gerard P., to Bell Telephone Laboratories, Inc. Noise compensated tone signaling system. 2,909,606, 10-20-59, Cl. 173-88.
- Wenner, Wilhelm: *See*—  
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- Wenner, Wilhelm, to Hoffmann-La Roche Inc. Basic ethers of hydroxy anthraquinones. 2,881,173, 4-7-59, Cl. 260-294.7.
- Wennerberg, Arnold N., to Standard Oil Co. Purification and recovery of normally solid polymers. 2,914,453, 11-24-59, Cl. 204-186.
- Wennerberg, Arnold N., R. M. Alm, and H. H. Peter, to Standard Oil Co. Oxo process. 2,894,990, 7-14-59, Cl. 260-604.
- Wennerberg, Fritz J., to Aktiebolaget Separator. Plate type heat exchanger. 2,872,165, 2-3-59, Cl. 257-245.
- Wennerberg, Fritz J., to Aktiebolaget Separator. Heat operated pumping system. 2,910,119, 10-27-59, Cl. 159-2.
- Wennerberg, Gunnar, to Lear, Inc. Rotary transformer. 2,885,645, 5-5-59, Cl. 336-120.
- Wennerberg, Gunnar, to Lear, Inc. Magnetic amplifier. 2,915,723, 12-1-59, Cl. 336-155.
- Wennerbo, Erik, to Industriaktiebolaget Luxor. Tone arm and control means therefor. 2,886,329, 5-12-59, Cl. 274-15.
- Wennerbo, Erik, and G. Hedberg, to Industriaktiebolaget Luxor. Adapter for phonograph spindles. 2,884,255, 4-28-59, Cl. 274-10.
- Wennerstrom, Arthur N., to The National Screw & Mfg. Co. Indicators. 2,905,139, 9-22-59, Cl. 116-135.
- Wenninger, Erwin J.: *See*—  
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- Wenrich, Carl M.: *See*—  
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- Wensman, Karl G.: *See*—  
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- Wentling, Ralph E. Center finders and punches. 2,907,114, 10-6-59, Cl. 33-191.
- Wentling, William H.: *See*—  
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- Wentworth, Gerald G. Articulated fishing lure. 2,910,799, 11-3-59, Cl. 43-42.02.
- Wentworth, John W.: *See*—  
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- Wentworth, John W., to Radio Corp. of America. Color television. 2,876,347, 3-3-59, Cl. 250-27.
- Wentworth, Joseph T., to General Motors Corp. Carburetor venting device. 2,894,734, 7-14-59, Cl. 261-43.
- Wentworth, Joseph T., to General Motors Corp. Carburetor vent system. 2,894,736, 7-14-59, Cl. 261-72.
- Wentworth, Joseph T., to General Motors Corp. Fuel and exhaust gas combustion control of an internal combustion engine. 2,895,292, 7-21-59, Cl. 60-29.
- Wentz, Edward A., to Specialties Development Corp. Sphere winding machine. 2,901,190, 8-25-59, Cl. 242-2.
- Wentz, Richard L.: *See*—  
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- Wenz, Herbert: *See*—  
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- Wenzel, Frederick A., to Cornell Paperboard Products Co. Sheet dispensing carton. 2,890,791, 6-16-59, Cl. 206-57.
- Wenzel, John S., Jr., and H. Schade. Pear feeding and orienting apparatus. 2,911,082, 11-3-59, Cl. 193-43.
- Wenzel, Kurt, to Werkzeugmaschinen-Fabrik Gildemeister & Comp. Akt.-Ges. Means for arresting the rotation of operating spindles of multi-spindle automatic lathes. 2,907,434, 10-6-59, Cl. 192-146.
- Wenzel, Lyle J., and E. R. Wolff, to General Electric Co. Electric switch. 2,874,252, 2-17-59, Cl. 200-166.
- Wenzel, Philip D., to J. I. Case Co. Disc harrow with angling lock. 2,879,856, 3-31-59, Cl. 172-597.
- Wenzel, Robert H., to Farrel-Birmingham Co. Inc. Apparatus for heating plastic material in an extruding machine. 2,893,055, 7-7-59, Cl. 18-12.
- Wenzl, Hermann F. J. Multistage process relating to the alkaline digestion of raw cellulosic materials for the production of pulp with a high content of alpha cellulose. 2,874,044, 2-17-59, Cl. 92-13.
- Wepfer, William M.: *See*—  
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- Cametti, Benjamin, and Wepfer. 2,887,062.
- Werden, Robert G., to Borg-Warner Corporation. Air conditioning and heating systems. 2,869,335, 1-20-59, Cl. 62-324.
- Werdenberg, Hermann: *See*—  
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- Werder, Ernest A., to Buensod-Stacey, Inc. Control device. 2,890,716, 6-16-59, Cl. 137-512.15.
- Werder, Ernest A., to Buensod-Stacey, Inc. Flow control device. 2,890,717, 6-16-59, Cl. 137-521.
- Werge, Thomas C., and E. Laxo, to W. F. and John Barnes Co. End feed and sterilizer for can closing machine. 2,875,564, 3-3-59, Cl. 53-70.
- Wergner, Frantisek, to CKD Stalingrad narodni podnik. Apparatus for gas and liquid cooling in compressor plants with two- or multistage cooling circuit. 2,897,659, 8-4-59, Cl. 62-509.
- Werkema, Robert G.: *See*—  
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- Werndl, Ernst F.: *See*—  
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- Werndl, Ernst F., to Land-Air, Inc. Electrical connector. 2,892,990, 6-30-59, Cl. 339-60.
- Wernecke, Otto. Control mechanism for a differential actuating device. 2,880,931, 4-7-59, Cl. 235-60.
- Werner, Albert. Incinerator construction. 2,895,434, 7-21-59, Cl. 110-18.
- Werner, Alfred A., and W. G. Sieffert, to Fort Wayne Corrugated Paper Co. Corner protector. 2,885,139, 5-5-59, Cl. 229-14.
- Werner, Arnold J.: *See*—  
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- Werner, Calvin J., to General Motors Corp. Brake cooling control. 2,873,826, 2-17-59, Cl. 188-264.
- Werner, Calvin J., to General Motors Corp. Hydraulic wheel cylinder for multiple disk brake with leakage bleed-off. 2,914,140, 11-24-59, Cl. 188-72.
- Werner, Ernest G. G.: *See*—  
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- Werner, Ewald, to Nordberg Mfg. Co. Mantles for cone crushers. 2,913,189, 11-17-59, Cl. 241-295.
- Werner, Ewald, to Nordberg Mfg. Co. Lubricating system for crusher bearings. 2,916,218, 12-8-59, Cl. 241-208.
- Werner, Frank D., and B. M. Leadon. Noise reducing device for vehicle windows. 2,878,055, 3-17-59, Cl. 296-44.
- Werner, Frank R.: *See*—  
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- Schwinn, Richard C., Sterzer, and Werner. 2,884,857.
- Werner, Frank R., K. C. Flint, and W. G. Sterzer, to The National Cash Register Co. Interspersed totalizer selecting and engaging means. 2,880,930, 4-7-59, Cl. 235-6.
- Werner, Frank R., H. O. Randall, and K. C. Flint, to The National Cash Register Co. Record material printing and feeding mechanism for cash registers. 2,884,851, 5-5-59, Cl. 101-93.
- Werner, Frank R., K. C. Flint, and W. G. Sterzer, to The National Cash Register Co. Record material feeding and control equipment. 2,899,893, 8-18-59, Cl. 101-93.
- Werner, Frank R., H. O. Randall, and K. C. Flint, to The National Cash Register Co. Slip control mechanism for cash registers and accounting machines. 2,915,969, 12-8-59, Cl. 101-93.
- Werner, Franz: *See*—  
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- Werner, Heinz: *See*—  
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- Werner, Jesse, to General Aniline & Film Corp. Precipitation of tannins and/or proteinaceous substances from liquid media. 2,875,062, 2-24-59, Cl. 99-48.
- Werner, Johannes K.: *See*—  
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- Werner, John, and R. F. Borowski; said Borowski assor. to said Werner. Massage machine. 2,910,060, 10-27-59, Cl. 128-33.
- Werner, H., Sons Co.: *See*—  
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- Werner, Lincoln H.: *See*—  
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- Werner, Lincoln H., to Ciba Pharmaceutical Products, Inc. Quaternary ammonium compounds. 2,903,464, 9-8-59, Cl. 260-340.6.
- Werner, Lincoln Harvey, to Ciba Pharmaceutical Products, Inc. Mercurated biuret derivatives. 2,880,206, 3-31-59, Cl. 260-242.
- Werner, Louis B., I. Perlman, and M. Calvin, to United States of America, Atomic Energy Commission. Separation process for actinide elements and compounds thereof. 2,894,805, 7-14-59, Cl. 23-14.5.
- Werner & Pfeleiderer: *See*—  
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- Lasch, Albert. 2,868,517.
- Werner, Philip, Jr. Aeration unit for grain. 2,903,955, 9-15-59, Cl. 98-56.
- Werner, R. D., Co. Inc.: *See*—  
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- Werner, Ralph M. Friction gearing. 2,894,404, 7-14-59, Cl. 74-209.
- Werner, Richard E., to Radio Corp. of America. Audio frequency amplifier. 2,887,532, 5-19-59, Cl. 179-1.
- Werner, Tage, to Arthur G. McKee & Co. Method of and apparatus for supplying material to a bin or the like. 2,876,914, 3-10-59, Cl. 214-17.



- Werner, Thelma S.: *See*—  
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- Werner, Walter M., to AMP Inc. Crimping tool with a pair of multi-surfaced die plates. 2,900,854, 8-25-59, Cl. 81—15.
- Werner, Wilfred B., deceased; T. S. Werner, executrix, to H. Werner Sons Co. Shoulder pad. 2,902,695, 9-8-59, Cl. 2—268.
- Werner, Willy: *See*—  
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- Wernert, Karl. Regulable hydraulic apparatus. 2,881,708, 4-14-59, Cl. 103—113.
- Wernick, Jack H., to Bell Telephone Laboratories, Inc. Semi-conducting materials and devices made therefrom. 2,882,192, 4-14-59, Cl. 148—33.
- Wernick, Jack H., to Bell Telephone Laboratories, Inc. Semi-conducting materials and devices made therefrom. 2,882,193, 4-14-59, Cl. 148—33.
- Wernick, Jack H., to Bell Telephone Laboratories, Inc. Semi-conducting materials and devices made therefrom. 2,882,194, 4-14-59, Cl. 148—33.
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- Wernig, James H., to General Motors Corp. Windshield wiper. 2,871,501, 2-3-59, Cl. 15—255.
- Wernig, James H., to General Motors Corp. Vehicle body structure. 2,895,763, 7-21-59, Cl. 296—28.
- Wernsing, Kenneth L., to The Skookum Co., Inc. Ferrule for holding end loops in wire rope. 2,881,496, 4-14-59, Cl. 24—123.
- Wernsing, Kenneth L., and K. N. Walrod. Choker hook. 2,905,993, 9-29-59, Cl. 24—123.
- Wernz, Donald E., and M. M. Schwartz, to The Martin Co. Method of brazing. 2,893,903, 7-7-59, Cl. 148—26.
- Werr, John F., and R. C. Wolfram, to Minneapolis-Honeywell Regulator Co. Control apparatus. 2,877,835, 3-17-59, Cl. 158—28.
- Werris, Horst, to Schering A.G. Process for preparing aliphatic isothiocyanates. 2,894,013, 7-7-59, Cl. 260—454.
- Wershaw, Irving B., to Dome Chemicals, Inc. Dermatological preparation containing defatted soy bean flour. 2,876,164, 3-3-59, Cl. 167—90.
- Werst, Mervin C., to Westinghouse Electric Corp. Electrostatic precipitators. 2,871,974, 2-3-59, Cl. 183—7.
- Werstein, Frank A.: *See*—  
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- Werstein, Frank A., to Phillips Drill Co. Chuck and handle for manual installation of self drilling expansion shells. 2,896,212, 7-28-59, Cl. 1—49.8.
- Werstein, Frank A. Chuck and adapter for self-drilling expansion shells. 2,918,290, 12-22-59, Cl. 279—19.
- Wertepny, Alexander W., Jr. Sealable re-usable skin packed packages for merchandise articles and method of forming same. 2,874,836, 2-24-59, Cl. 206—78.
- Werth, William W., to Whitin Machine Works. Top roll positioning and pressure-applying means for textile drafting machine. 2,870,488, 1-27-59, Cl. 19—135.
- Werth, William W., to Whitin Machine Works. Pressure-applying means for drafting roll. 2,900,674, 8-25-59, Cl. 19—135.
- Werts, Everett W., to Dunham-Bush, Inc. Capacity compensated bridge circuit. 2,891,218, 6-16-59, Cl. 324—62.
- Wertwijn, George, to North American Philips Co., Inc. Method of making a semi-conductor device. 2,911,706, 11-10-59, Cl. 29—25.3.
- Wesch, Ludwig, to Eltro G.m.b.H. & Co. Vehicular warning system. 2,896,089, 7-21-59, Cl. 250—215.
- Wesel, John R.: *See*—  
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- Weskenson Corp.: *See*—  
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- Wesley, Charles A., to The Teleregister Corp. Control circuit for character display tube. 2,889,547, 6-2-59, Cl. 340—324.
- Wesolowski, Adolph J., to General Electric Co. Core construction for electrical equipment. 2,876,371, 3-3-59, Cl. 310—217.
- Wesolowski, Adolph J., to General Electric Co. Cooling arrangement for salient pole rotors. 2,899,573, 8-11-59, Cl. 310—60.
- Wesp, George L., to Monsanto Chemical Co. Polymeric aminonitriles. 2,870,123, 1-20-59, Cl. 260—72.
- Wesp, George L., to Monsanto Chemical Co. Rubbery material comprising certain cross-linked soft polythiourea high polymers and process of making same. 2,884,401, 4-28-59, Cl. 260—37.
- Wesp, Milford E. Trash burner. 2,871,803, 2-3-59, Cl. 110—18.
- Wessel, Gunter K.: *See*—  
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- Wessel, Hans. Vacuum cleaner attachment. 2,869,170, 1-20-59, Cl. 15—399.
- Wessel, John H., to Utility Appliance Corp. Method of making blower wheels. 2,871,340, 1-27-59, Cl. 219—150.
- Wessel, Walter, Jr. Process for manufacturing brushes. 2,878,069, 3-17-59, Cl. 300—21.
- Wessendorf, Emmi L. K. W. I.: *See*—  
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- Wessendorf, Hermann, deceased, E. L. K. W. I. Wessendorf, executrix, to Hanomag Aktiengesellschaft. Tractor implement hitch. 2,904,116, 9-15-59, Cl. 172—275.
- Wessling, Kenneth F.: *See*—  
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- Wessling, Kenneth F., and R. Felsenthal, to Central Scientific Co. Vacuum pump. 2,877,947, 3-17-59, Cl. 230—153.
- Wesslund, Robert E.: *See*—  
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- Wesslund, Robert E., L. W. Mader, and G. W. Johnson, to Sperry Rand Corp. Magnetic core devices. 2,874,372, 2-17-59, Cl. 340—174.
- Wessner, Frances. Individual fresh flower earring. 2,885,753, 5-12-59, Cl. 24—6.
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- West, Charles E. Safety device for motor vehicles. 2,919,140, 12-29-59, Cl. 280—150.
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- West Chemical Products Inc.: *See*—  
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- West, Clifford G. Rear view mirror. 2,911,177, 11-3-59, Cl. 248—276.
- West, Clifton F., W. F. Rhem, and J. B. Wethington. Tobacco harvester. 2,876,610, 3-10-59, Cl. 56—27.5.
- West, De Witt H., S. C. Townshend, and D. M. Llewellyn, to The International Nickel Co., Inc. Production of brown cobaltous oxide and cobalt salts. 2,909,408, 10-20-59, Cl. 23—183.
- West, Ed D. Adjustable breast beam cover for looms. 2,918,943, 12-29-59, Cl. 139—1.
- West, Fred W., to Minnesota Mining and Mfg. Co. Ink composition. 2,915,416, 12-1-59, Cl. 117—65.
- West, George, Jr.: *See*—  
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- West, Howard F., and J. H. Veale, to Illinois Clay Products Co. Fired tricalcium boned silica brick and mortar. 2,872,328, 2-3-59, Cl. 106—63.
- West, James A., Sr. Low tire pressure warning device. 2,895,022, 7-14-59, Cl. 200—61.26.
- West, James R., to Sperry Rand Corp. Forage harvester drive means. 2,877,664, 3-17-59, Cl. 74—665.
- West, James R., to Sperry Rand Corp. Harvesting machine. 2,906,393, 9-29-59, Cl. 198—167.
- West, John F. Toy. 2,871,617, 2-3-59, Cl. 46—1.
- West, John M., to Foster Wheeler Corp. Apparatus for evaporating fluids. 2,880,146, 3-31-59, Cl. 202—180.
- West, John R., to O. M. Scott and Sons Co. Granular material dispensing apparatus. 2,889,082, 6-2-59, Cl. 222—161.
- West, John W.: *See*—  
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- West, Joseph F.: *See*—  
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- West, Joseph F., to Wheaton Glass Co. Product dispensing container. 2,906,462, 9-29-59, Cl. 239—337.
- West, Juston W. Variable capacity hydraulic pump. 2,867,175, 1-6-59, Cl. 103—161.
- West, Kenneth R., and W. M. Wood, to Associated Spring Corp. Spring clip. 2,891,809, 6-23-59, Cl. 287—93.
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- West, Ruth. Supports for Christmas tree light cords. 2,872,032, 2-3-59, Cl. 206—46.
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- West, Walter H.: *See*—  
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- West Bend Aluminum Co.: *See*—  
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- Westberg, Harold A., to The Wyatt Mfg. Co., Inc. Mobile tool carrier. 2,869,887 1-20-59, Cl. 280-44.
- Westberg, Johan E. H. Expandable clamp arbors. 2,868,549, 1-13-59, Cl. 279-46.
- Westberg, Vivian L. Speed indicator and synchronizer. 2,913,661, 11-17-59, Cl. 324-69.
- Westbrook, Charles L. Ticket pinning tool. 2,912,697, 11-17-59, Cl. 1-120.
- Westbrook, Leon R.: *See*—  
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- Westbrook, Leon R. Acid cadmium plating. 2,893,934, 7-7-59, Cl. 204-50.
- Westbrook, Lowell V., Barber-Colman Co. Flame detection apparatus. 2,898,931, 8-11-59, Cl. 158-123.
- Westbrook, Michael H.: *See*—  
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- Westcott, William B., Jr., to Cleveland Pneumatic Industries, Inc. Landing gear construction. 2,916,283, 12-8-59, Cl. 267-64.
- Westendorp, Willem F., to General Electric Co. Adjustable bias for electron beam apparatus. 2,897,400, 7-28-59, Cl. 315-14.
- Westerback, Sonya A. J.: *See*—  
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- Western, Herbert W., to C. I. Hayes, Inc. Conveyor system and retractable latch therefor. 2,891,659, 6-23-59, Cl. 198-221.
- Westerfield, James A. Artificial fish bait. 2,884,730, 5-5-59, Cl. 43-26.2.
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- Western Carbide Corp.: *See*—  
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Barkstrom, Elmer E. 2,911,043.  
Barkstrom, Elmer E. 2,917,021.  
Barkstrom, Elmer E., and Larsen. 2,890,875.  
Barothy, Charles F. 2,882,624.  
Bennett, Arthur L. 2,908,386.  
Berg, Richard D. 2,884,748.  
Berthold, Wolf. 2,913,190.  
Bloxham, Gordon F. 2,913,828.  
Bloxham, Gordon F., and Hyde. 2,883,893.  
Bohannon, William D., Jr. 2,876,328.  
Brauer, William F. 2,876,531.  
Brescka, Rudolph S., Moore, and Schaufelberger. 2,894,112.  
Brewer, Robert F., Hosford, and McGrath. 2,896,313.  
Brown, Martin J., and Cole. 2,885,661.  
Brown, Raymond W. 2,874,285.  
Brunner, Anton J. 2,910,812.  
Bryan, Chester L., and Gillis. 2,882,676.  
Bunch, Tillman T. 2,868,468.  
Bunch, Tillman T. 2,899,142.  
Bunch, Tillman T. 2,910,822.  
Bunch, Tillman T. 2,910,823.  
Bunch, Tillman T. 2,902,883.  
Butler, Chester J., Ermish, Linsley, and Thomas. 2,917,834.  
Cahill, Harold G., and Rasmussen. 2,882,553.  
Canning, Maurice D. 2,873,011.  
Cartwright, Robert W., Field, Kruger, and Malzahn. 2,878,890.  
Chandler, Robert F., Jr., and Judd. 2,884,613.  
Cihlar, Anthony J., and Klasek. 2,881,820.  
Clemons, Dale R. 2,908,067.  
Clemons, Dale R. 2,915,808.
- Western Electric Co., Inc.: *See*—Continued  
Colvin, Sion. 2,882,510.  
Colvin, Sion, and Mitchell. 2,882,485.  
Corbeels, Theophile, and Marshall. 2,877,675.  
Denault, Donald R., and Minchenko. 2,867,771.  
Diodati, Giacomo F. 2,892,519.  
Diodati, Giacomo F., McCarthy, and Souter. 2,889,027.  
Drom, Edwin L., and Reinebach. 2,910,959.  
Dvorak, Howard A. 2,895,683.  
Dykstra, Lucas J., and Kehl. 2,915,789.  
Eger, Edward F. 2,886,165.  
Elarde, Paul F. 2,916,695.  
Elarde, Vito D. 2,885,380.  
Ellis, Edward A. 2,872,129.  
Emery, Charles B. 2,882,723.  
Eppler, Walter T. 2,872,640.  
Erwin, David B. 2,899,645.  
Evans, Kenneth P., Ivester, and Turrini. 2,869,076.  
Ewaldson, Waldemar C., and Hallam. 2,877,730.  
Fiore, Hannibal S., Geary, and Pyde. 2,902,059.  
Foster, Arthur G., and Stetka. 2,883,120.  
Fralish, Howard J. 2,891,505.  
Frankenfield, Bruce B., and Miller. 2,900,852.  
Frate, Domenico C., and Stetka. 2,905,408.  
Fuchs, Francis J., Jr. Re. 24,646.  
Fuchs, Francis J., Jr. 2,863,266.  
Fuchs, Francis J., Jr. 2,873,786.  
Fuchs, Francis J., Jr. 2,894,558.  
Fuchs, Francis J., Jr. 2,916,077.  
Fuchs, Francis J., Jr., and Hall. 2,902,077.  
Fuchs, Francis J., Jr., and Hall. 2,902,078.  
Fuchs, Francis J., Jr., and Nevreinean. 2,882,951.  
Fuchs, Francis J., Jr., and Nevreinean. 2,902,080.  
Fuchs, Francis J., Jr., and Saunders. 2,871,734.  
Gambrill, Richard D. 2,894,204.  
Gambrill, Richard D. 2,908,861.  
Gambrill, Richard D., and Gray. 2,872,703.  
Gammel, Walter A. 2,877,544.  
Gasper, Robert R. 2,870,542.  
Gasper, Robert R. 2,910,896.  
Glaubke, Allen F., and Scott. 2,884,683.  
Gliss, George E. 2,883,777.  
Haagensen, Leif E., Johnson, and Odgers. 2,899,196.  
Hallam, Cecil A. 2,896,777.  
Hallam, Cecil A. 2,916,072.  
Hancock, William M. 2,881,947.  
Hansen, Lloyd D., and Hordosi. 2,895,104.  
Hanson, Estyle D. 2,888,735.  
Hanson, Estyle D. 2,900,145.  
Harmon, George H., and Rockwood. 2,899,141.  
Heidergott, Harry W. 2,896,133.  
Heidergott, Harry W., and Rott. 2,878,556.  
Heidergott, Harry W., and Wallberg. 2,910,768.  
Heinz, Alfred. 2,881,392.  
Henning, George E. 2,882,555.  
Henning, George E. 2,885,738.  
Henning, George E. 2,893,056.  
Henning, George E. 2,911,676.  
Hewitt, Ernest W. 2,912,501.  
Horn, James A. 2,869,453.  
House, Allston L., and Monahan. 2,885,076.  
Hughes, David A. 2,886,966.  
Huser, William H. 2,898,996.  
Hyde, William J. 2,894,868.  
Ittermann, Alfred S., and Mitchell. 2,916,248.  
Jelinek, Charles, Jr. 2,912,496.  
Johnson, Joel R. 2,869,126.  
Johnson, Kenneth F. 2,891,430.  
Johnson, Kenneth F., and Quinlan. 2,871,337.  
Jones, Kenneth M., Marcus, and McClary. 2,903,041.  
Just, Howard W., Kirchoff, and Pelikan. 2,891,656.  
Kalbow, Theodore W. 2,885,204.  
Kalbow, Theodore W. 2,908,162.  
Kamins, Jack M., and Wahl. 2,896,801.  
Kraay, Robert A. 2,916,692.  
Krause, William F., and Neuhaus. 2,894,557.  
Krogel, Christopher J. 2,900,176.  
Kross, William J. 2,873,845.  
Krstansky, James J., and Mitchell. 2,877,428.  
Kuba, Samuel. 2,912,950.  
Kuba, Samuel, and Shafer. 2,913,130.  
Lach, Walter, and Zapf. 2,895,120.  
Lamont, John. 2,874,351.  
Lamoureux, Gilbert J. 2,877,496.  
Lape, Jean E. 2,867,312.  
Larsen, Einer W. 2,916,224.  
Lazarr, Thaddeus R. L. 2,880,463.  
Lerch, Brooke W. 2,880,642.  
Lerch, Brooke W. 2,911,318.  
Logan, Alexander. 2,912,100.  
Loucks, Alton L. 2,908,314.  
Machian, George R. 2,882,954.  
Martin, Victor S. 2,883,314.  
McCain, Cecil C., and Sirp. 2,873,516.  
McCarthy, Lawrence A. 2,892,214.  
McDuffee, John K. 2,902,796.  
McGraw, George P., Jr. 2,916,226.  
Michal, William C., and Tesche. 2,879,582.  
Moeller, Lowell J. 2,884,165.  
Moeller, Lowell J. 2,885,651.  
Moeller, Lowell J. 2,903,738.  
Montone, Liber J. 2,917,641.  
Morton, Kenneth L. 2,877,405.  
Morton, Kenneth L. 2,885,638.



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 Murphy, Edward C. 2,916,019.  
 O'Connor, Stephen F. 2,916,431.  
 Olofin, Karl R., Sr. 2,916,856.  
 Olsen, John A. 2,877,950.  
 Olszewski, John K. 2,899,092.  
 Otto, Dettmer H. 2,874,262.  
 Parrott, Robert D. 2,912,497.  
 Paulson, Christian. 2,915,807.  
 Pentico, George W. A., and Rieke. 2,878,381.  
 Peterson, Charles L. 2,890,874.  
 Porter, Alvin J., and Reichelt. 2,898,997.  
 Poulson, Clair C. 2,890,679.  
 Pristo, Ervin R. 2,908,084.  
 Quinlan, Amos L. 2,874,264.  
 Quinlan, Amos L. 2,878,362.  
 Quinlan, Amos L. 2,895,083.  
 Rasmussen, Clarence R. 2,881,899.  
 Rau, William K., Jr. 2,875,512.  
 Rau, William K., Jr. 2,912,187.  
 Reed, Duke E. 2,879,480.  
 Reichelt, Lester O. 2,869,128.  
 Reichelt, Lester O., and Ritchie. 2,908,796.  
 Roeder, Joseph A., and Tesche. 2,902,971.  
 Rünge, Heinz F. 2,873,787.  
 Rus, Albert F., and Veale. 2,884,746.  
 Salbeck, Raymond E., and Drummond. 2,910,727.  
 Schaffer, Norman G. 2,882,093.  
 Schalk, Robert F. 2,891,209.  
 Schmidt, Arthur B. 2,877,411.  
 Schultz, Frank A. 2,876,499.  
 Schultz, Frank A., and Strickland. 2,872,979.  
 Schultz, Frank A., and Waldron. 2,876,493.  
 Shillington, Harry R. 2,911,590.  
 Sladek, Robert B. 2,908,763.  
 Smith, William J. 2,873,627.  
 Solecki, John E. 2,886,164.  
 Spillar, Rudolph. 2,901,589.  
 Stocker, Edward T. 2,882,769.  
 Thayer, Harry C., Jr. 2,884,896.  
 Todoroff, Alexander N. 2,883,514.  
 Trimble, Charles H. 2,873,476.  
 Van Nest, Arden L. 2,911,014.  
 Veale, Charles C. 2,895,037.  
 Wahl, Frank. 2,902,230.  
 Wallberg, Marshall. 2,916,125.  
 Wetherhold, Louis E. 2,911,588.  
 Wojciechowski, Bogumil M. 2,897,422.  
 Wondra, Raymond O. 2,884,689.  
 Zapf, Richard S. 2,877,809.  
 Zeller, Edward B. 2,888,974.
- Western Gear Corp.: *See*—  
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- Western Gear Works: *See*—  
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- Western Geophysical Co. of America: *See*—  
 Savit, Carl H. 2,902,668.  
 Strange, Booth B. 2,876,689.
- Western Insulated Wire Co.: *See*—  
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- Western Inventors: *See*—  
 Miller, Meral O. 2,903,085.
- Western Piping & Engineering Co., Inc.: *See*—  
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- Western Precipitation Corp.: *See*—  
 Chapler, James, Jr. 2,904,130.  
 Foley, Michael P. 2,907,403.  
 Little, Larry L. 2,904,736.  
 McGrane, Norman M. 2,867,290.  
 Perlis, David B. 2,884,090.
- Western Printing & Lithographing Co.: *See*—  
 Stobb, Anton R. 2,869,863.  
 Stobb, Anton R. 2,884,243.
- Western Sealant Development Corp.: *See*—  
 Braun, William H., Jr. 2,867,543.
- Western Union Telegraph Co., The: *See*—  
 Allen, Samuel G., II, Currie, and McManus. 2,874,218.  
 Boughtwood, John E., and Cusack. 2,899,548.  
 Buckingham, William D. 2,903,512.  
 Buckingham, William D., and Aldridge. 2,882,434.  
 Buckingham, William D., Ridge, Root, and Turner. 2,894,066.  
 Edgar, William S. W., Jr. 2,902,538.  
 Hackenberg, John H., and Wise. 2,878,095.  
 Hallden, Frederick G., and McCann. 2,870,246.  
 Hewitt, Ernest W. 2,908,370.  
 Hewitt, Ernest W., and Krakusky. 2,868,874.  
 Hill, Archie S. 2,914,607.  
 Jelinek, Charles, Jr., and Hackenberg. 2,919,304.  
 Light, George G., and Jansson. 2,878,305.  
 Likel, Harry C. 2,876,341.  
 McCann, Marshall J. 2,903,511.  
 Newell, Earl L., and Wells. 2,902,803.  
 Newell, Earl L., Wells, and Cramer. 2,903,500.  
 Ridings, Garvice H. 2,903,517.  
 Ridings, Garvice H. 2,919,305.  
 Ridings, Garvice H., Wise, and Jelinek. 2,894,063.  
 Steeneck, Robert. 2,891,109.  
 Steinhelfer, Harold E. 2,870,439.  
 Wise, Raleigh J. 2,884,486.  
 Wise, Raleigh J., Hackenberg, and Ridings. 2,894,065.  
 Wise, Raleigh J., and Zabriskie. 2,872,275.
- Western Urn Mfg. Corp.: *See*—  
 Wells, Daniel M., and Tarrant. 2,881,693.
- Western Reserve University: *See*—  
 Horrigan, Daniel L. 2,918,409.
- Western States Machine Co., The: *See*—  
 Hertrich, Joseph. 2,869,726.  
 Huser, Richard J. 2,913,119.
- Westervelt, John C., to Century Geophysical Corp. Fixer for electrostatic photography. 2,870,312, 1-20-59, Cl. 219-19.
- Westervelt, Robert A.: *See*—  
 Hedger, John H., and Westervelt. 2,902,607.
- Westfall Separator A.G.: *See*—  
 Hemfort, Heinrich, and Zurbruggen. 2,916,201.  
 Kaldewey, Franz. 2,917,230.  
 Steinacker, Peter. 2,873,910.  
 Wilsman, Wilhelm. 2,913,169.
- Westfall, Francis: *See*—  
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- Westfall, Marie S.: *See*—  
 Westfall, William R. 2,867,050.
- Westfall, William R., deceased; M. S. Westfall, executrix. Moving message projector. 2,867,050, 1-6-59, Cl. 40-32.
- Westfield Sheet Metal Works, Inc.: *See*—  
 Trittipoe, Narrie B. 2,883,170.
- Westford, Einar. Hyacinth stake. 2,903,823, 9-15-59, Cl. 47-47.
- Westgard, Max W. Bedding support. 2,903,715, 9-15-59, Cl. 5-319.
- Westor, Wayne: *See*—  
 Drentlaw, Leonard J. 2,907,493.
- Westinger, Karl, E. Altenburger, and O. Hirt. Rotary differential actuating mechanism. 2,880,933, 4-7-59, Cl. 235-79.
- Westinger, Karl, E. Altenburger, and O. Hirt, to Olympia Werke Ag. Early setting keyboard mechanism. 2,905,381, 9-22-59, Cl. 235-60.
- Westinghouse Air Brake Co.: *See*—  
 Aikman, Burton S. 2,885,030.  
 Aikman, Burton S. 2,904,960.  
 Anderson, George S. 2,900,209.  
 Bent, Arthur J. 2,867,240.  
 Billetteaux, Adrian C. 2,888,620.  
 Bone, Herbert L. 2,894,704.  
 Bone, Herbert L. 2,902,595.  
 Breisch, Edgar W. 2,912,199.  
 Campbell, Richard D. 2,901,609.  
 Campbell, Richard D. 2,908,865.  
 Colker, James, and Draganjac. 2,911,592.  
 Cook, Earle S. 2,905,199.  
 Cook, James A., Jr. 2,914,750.  
 Cotter, George L. 2,897,011.  
 Cotter, George L., and Jeffrey. 2,919,165.  
 Crooks, Ralph K. 2,914,614.  
 Dellner, Raymond P. 2,897,919.  
 Dodd, Arthur E. 2,902,593.  
 Draganjac, Michael J. 2,870,408.  
 Edmund, John R. 2,871,876.  
 Edmund, John R. 2,899,936.  
 Erson, Erik G. 2,872,250.  
 Evans, John B. 2,875,787.  
 Evans, John B. 2,910,449.  
 Feucht, Jacob E. 2,874,933.  
 Feucht, Jacob E. 2,882,927.  
 Glass, William H., and Shirey. 2,875,850.  
 Hammer, Charles F. 2,919,161.  
 Hess, Richard C. 2,916,677.  
 Hewitt, Ellis E., Bush, and Jeffrey. Re. 24,636.  
 Hines, Claude M. 2,918,332.  
 Holbrook, Edward L. 2,867,199.  
 Huffman, Donald D., and Owyer. 2,884,517.  
 Hufnagel, Andrew. 2,897,317.  
 Hufnagel, Andrew. 2,916,582.  
 Hursen, Thomas F. 2,880,039.  
 Hursen, Thomas F. 2,912,998.  
 Ihrig, Clifford D. 2,891,142.  
 Jefferson, Glen V. 2,906,865.  
 Jeffrey, William B. 2,913,282.  
 Jumba, Joseph F. 2,896,667.  
 Karlet, Joseph G., and Tsiang. 2,910,578.  
 Kemmerer, Ralph R., and Damasio. 2,891,143.  
 Kendig, Robert M. 2,876,045.  
 Kendig, Robert M. 2,883,144.  
 Kirk, Walter B. 2,875,864.  
 Kirk, Walter B. 2,917,900.  
 Konrad, William L. 2,904,753.  
 Landis, William C. 2,880,043.  
 Marsteller, Lester O. 2,907,910.  
 Martin, Paul N. 2,880,307.  
 May, Harry C. 2,889,175.  
 May, Harry C. 2,893,752.  
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 McClure, Glenn T., and Hursen. 2,918,149.  
 McClure, Glenn T., and Jeffrey. 2,919,163.  
 McGlumphy, George F. 2,874,330.  
 McGowan, Kenneth J. J. 2,893,718.  
 McWilliams, George M. 2,884,953.  
 Mehringer, Edward W. 2,875,326.  
 Morris, Robert B. 2,899,977.  
 Mueller, Emil G. 2,870,873.  
 Mueller, Emil G. 2,913,071.  
 Newell, George K. 2,870,866.  
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 Norris, Charles E. 2,899,939.



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 Paolino, Charles, Jr. 2,884,294.  
 Pauly, Joachim W. 2,884,903.  
 Pier, Jerome R. 2,875,788.  
 Quinlan, Joseph A. 2,881,308.  
 Robison, William A., Jr. 2,901,572.  
 Rush, John W. 2,905,508.  
 Shelly, Dewitt L. 2,875,786.  
 Shelly, De Witt L. 2,918,090.  
 Sorensen, Andrew J. 2,874,337.  
 Staples, Crawford E. 2,874,272.  
 Staples, Crawford E. 2,884,516.  
 Tsiang, Sih H. 2,880,308.  
 Weber, Charles L., Jr. 2,919,164.  
 Wells, Wesley B., and Lockhart. 2,908,197.  
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 French, Eric L. 2,875,103.  
 King, Kenneth G., and Tucker. 2,908,857.  
 Lockett, Leslie J. 2,888,618.  
 Wheatley, John D. 2,872,636.

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Arenhold, Karl-Heinz. 2,910,324.  
 Arenhold, Karl-Heinz, and Ortmann. 2,893,415.  
 Nowack, Rudi, and Bachmann. 2,885,171.

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Abell, Donald E. 2,917,689.  
 Albert, Paul A. 2,875,114.  
 Aldrich, Donald F., and Newell. 2,871,409.  
 Allen, Ernest W. 2,877,731.  
 Amatel, Harold. 2,892,581.  
 Anderson, Arthur E., and Sack. 2,888,593.  
 Ardito, William A. 2,899,215.  
 Arntzen, Clyde E., and Croop. 2,909,741.  
 Atkinson, Russell H. 2,913,297.  
 Atti, Eros. 2,905,855.  
 Atti, Eros. 2,915,673.  
 Atti, Eros, and Hall. 2,911,563.  
 Austin, Bascum O. 2,913,550.  
 Axman, Max W. 2,883,590.  
 Bailey, Francis T. 2,883,559.  
 Baird, Norman F., and Monohan. 2,916,402.  
 Baker, Benjamin P., and Pierson. 2,909,591.  
 Baker, Floyd A. 2,871,441.  
 Barabutes, Theodore, and Kulick. 2,900,607.  
 Barabutes, Theodore, and Kulick. 2,900,627.  
 Barrett, John J., and Parducci. 2,882,523.  
 Barrows, Robert C., and Braun. 2,897,383.  
 Baudry, René A. 2,873,393.  
 Baudry, René A. 2,915,655.  
 Baugh, Charles W., Jr. 2,892,018.  
 Baugh, Charles W., Jr. 2,897,360.  
 Baugh, Charles W., Jr. 2,916,545.  
 Bayard, Robert T. 2,879,423.  
 Beach, Edward L., and Steiner. 2,908,809.  
 Benedict, Frank R., and Utakis. 2,880,496.  
 Benke, Frank W. 2,900,611.  
 Bergvall, Royal C. 2,892,098.  
 Bichsel, Harry J., and Adamson. 2,913,653.  
 Bichsel, Harry J., and Baeslack. 2,879,434.  
 Bichsel, Harry J., and Baeslack. 2,897,342.  
 Bliss, Theodore J. 2,913,656.  
 Boden, Samuel H., and Bonine. 2,889,396.  
 Bogert, William M., and Johnson. 2,915,694.  
 Born, William F. 2,883,637.  
 Bottonari, Samuel A. 2,875,300.  
 Bottonari, Samuel A. 2,900,477.  
 Bottonari, Samuel A. 2,913,558.  
 Boyer, John L. 2,910,641.  
 Boyer, John L., Colaiaco, and McWilliams. 2,917,686.  
 Boyer, John L., McWilliams, Colaiaco. 2,889,498.  
 Brenneck, William A. 2,877,811.  
 Bright, Richard L. 2,892,101.  
 Bright, Richard L., and Royer. 2,885,570.  
 Brown, Myron J. 2,883,610.  
 Brown, Myron J. 2,913,592.  
 Brown, Myron J., and Squires. 2,888,575.  
 Brown, Thomas F. 2,883,484.  
 Brown, Thomas F. 2,894,083.  
 Buchanan, Leslie B. M. 2,910,290.  
 Burns, Claude H. 2,877,382.  
 Burt, Donald A. 2,906,940.  
 Burt, Donald A., and Van Nice. 2,905,885.  
 Cameron, Robert T. 2,877,845.  
 Cameron, Frank L. 2,891,637.  
 Cameron, Frank L., and Brooks. 2,897,315.  
 Cameron, Frank L., and Harm. 2,911,499.  
 Cametti, Benjamin, and Hagg. 2,887,061.  
 Cametti, Benjamin, and Wepfer. 2,874,007.  
 Cametti, Benjamin, and Wepfer. 2,887,062.  
 Camp, Henry R. 2,883,591.  
 Caplis, George W., and Fox. 2,913,697.  
 Carleton, James T. 2,879,464.  
 Castruccio, Peter A., and Woolfson. 2,896,093.  
 Caussin, Charles. 2,905,851.  
 Ceresa, Myron, and Drobne. 2,891,871.  
 Chabala, Leonard V. 2,871,415.  
 Chabala, Leonard V. 2,875,381.  
 Chabala, Leonard V. 2,888,198.  
 Chabala, Leonard V., and Rusnak. 2,871,313.  
 Chauvin, David M., and Mueller. 2,892,080.

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Chivers, James R. 2,901,965.  
 Christian, Carl A., and Champney. 2,888,628.  
 Cody, Clifford S. 2,877,839.  
 Collins, Howard W. 2,875,351.  
 Collins, Zane L., Hayes, and Kiesel. 2,913,582.  
 Connell, Clyde B., and Moses. 2,891,423.  
 Conrad, Joseph D., Sr. 2,915,075.  
 Corson, Bayard R. 2,917,660.  
 Cotter, George H. 2,883,306.  
 Crawford, Thomas G. 2,879,010.  
 Cromer, Charles F. 2,913,559.  
 Cunniff, Thomas W. 2,900,544.  
 Currie, James W., and Jackson. 2,913,726.  
 Cuttino, William H. 2,888,613.  
 Dauberman, William H., and Woodbury. 2,871,434.  
 Decker, Richard O., and Chen. 2,891,726.  
 Decker, Richard O., Pittman, Van Nice, Conner, Hall, and Evans. 2,888,549.  
 Derr, Willard A., and Cham. 2,909,707.  
 Destriau, Georges. 2,885,558.  
 Destriau, Georges. 2,885,559.  
 Destriau, Georges. 2,885,560.  
 Destriau, Georges. 2,901,651.  
 De Val, Eugene J. 2,871,390.  
 Dey, Chester, and Mathews. 2,879,461.  
 Dickerson, Henry A. 2,913,146.  
 Dickinson, Robert C. 2,871,319.  
 Diener, Henry C., Jr. 2,909,259.  
 Dixon, Robert R. 2,901,872.  
 Dorfman, Hiller D., and Gelzheiser. 2,883,587.  
 Duffy, Philip A. 2,900,513.  
 Durnal, Robert G. 2,875,333.  
 Dyer, Lloyd W., Born, and Wallace. 2,913,513.  
 Dyer, Tom L., Jr., and Innis. 2,906,910.  
 Eames, William F. 2,900,047.  
 Eames, William F. 2,900,048.  
 Eames, William F. 2,900,521.  
 Eberhart, Arthur H. 2,885,142.  
 Eberhart, Arthur H. 2,896,860.  
 Eberiel, Herman J., and May. 2,896,306.  
 Edelman, Leonard E. 2,909,497.  
 Ehrich, Fredric F. 2,894,589.  
 Eichelberger, Thomas W. 2,879,194.  
 Eley, Myrie C., and Winters. 2,911,033.  
 Emery, Frederic P. 2,909,672.  
 Emery, Frederic P., and Perkins. 2,909,779.  
 Erickson, John W. 2,875,357.  
 Erickson, John W. 2,909,682.  
 Erickson, Wendell L. 2,913,657.  
 Ewing, Clifton H. 2,903,194.  
 Fahnoe, Harold H. 2,879,354.  
 Fannoe, Harold H. 2,917,605.  
 Farr, Kenneth E. 2,875,274.  
 Faught, Harold F. 2,879,936.  
 Fegely, Hugh S., and Van Ness. 2,900,628.  
 Fields, Arnold C. 2,869,680.  
 Finestone, Arnold B. 2,871,222.  
 Foster, Newton C., and Philofsky. 2,917,420.  
 Fouse, Samuel S., and Krance. 2,871,285.  
 Fox, Edgar C., Jr., Helmick, and Campbell. 2,871,430.  
 Frakes, James H. 2,889,395.  
 Fraser, Hugh D. 2,892,665.  
 Fraser, William M., and Brush. 2,871,150.  
 Frederick, James E. 2,909,671.  
 Frederick, James E., and Liebel. 2,909,670.  
 Freeman, James H. 2,875,179.  
 Friedrich, Robert E. 2,900,478.  
 Frink, Russell E. 2,871,318.  
 Frink, Russell E., and Olsson. 2,900,464.  
 Frisch, Erling. 2,882,428.  
 Gainer, Gordon C., and Lewis. 2,891,981.  
 Garbuny, Max, and Horn. 2,879,424.  
 Gaskill, William A. 2,892,060.  
 Gasparini, Francis A. 2,918,693.  
 Gelzheiser, Francis L., and Flick. 2,904,655.  
 Gerard, William A. 2,912,743.  
 Giboney, Ray E., and King. 2,888,576.  
 Gilmore, John F. 2,901,653.  
 Glassburn, William E. 2,909,708.  
 Goldsborough, Shirley L. 2,917,674.  
 Goldschmid, Fabio R. 2,874,894.  
 Goreau, Theodore N. 2,905,208.  
 Grauling, Charles H., Jr. 2,917,713.  
 Gray, John A., and Bee. 2,884,887.  
 Green, Elbertson D., and Smith. 2,879,503.  
 Greiner, Arno, and Wollentin. 2,877,804.  
 Groves, John N., and Fortman. 2,917,593.  
 Gruenberg, Rudolph A. 2,881,478.  
 Guardiola, Nicolas. 2,913,606.  
 Guentner, Robert L., and Jenny. 2,883,545.  
 Guentner, Robert L., and Koerner. 2,892,089.  
 Guentner, Robert L., and Thomas. 2,909,665.  
 Hagen, Roger W. 2,887,845.  
 Hall, William G., Van Nice, and Evans. 2,874,373.  
 Haller, Clayton L. 2,896,052.  
 Haller, Clayton L. 2,911,514.  
 Halvorson, Robert L. 2,907,874.  
 Halvorson, Robert L., Beale, and Dobyns. 2,875,327.  
 Hansen, Hans E. 2,885,057.  
 Hansen, Hans E. 2,905,308.  
 Hartenstein, Raymond G. 2,917,264.  
 Hartenstein, Raymond G., and Kerley. 2,873,109.  
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 Helsing, Knud J. 2,904,152.  
 Henderson, Stanley D., Jr. 2,905,870.  
 Hertl, Robert. 2,905,434.  
 Hess, James L., Jr. 2,916,718.  
 Hetrick, George L. 2,899,815.  
 Heyser, Lewis S., and Mooney. 2,905,939.  
 Hobbs, Milton M. 2,877,783.  
 Hoffmann, Thomas A., and Rehberg. 2,908,420.  
 Hoge, Henri H., and Holthaus. 2,881,314.  
 Hoge, Henri H., and Spotten. 2,879,412.  
 Holtkamp, Calvin J. 2,914,644.  
 Horn, Merl E. 2,883,483.  
 Howard, James E., Jr. 2,903,158.  
 Howell, Robert J., and Stuntz. 2,879,504.  
 Hughes, John D. 2,884,776.  
 Hughes, John D. 2,910,854.  
 Hulsey, Ronald E., Reeder and Schuh. 2,917,638.  
 Hume, Peter D. 2,907,944.  
 Husson, Charles. 2,909,705.  
 Hutchinson, James O., and Briggs. 2,871,348.  
 Immel, Ralph B. 2,875,301.  
 Immel, Ralph B. 2,887,901.  
 Immel, Ralph B. 2,888,616.  
 Immel, Ralph B., and Nadrowski. 2,875,302.  
 Immel, Ralph B., Nadrowski, and White. 2,875,303.  
 Immel, Ralph B., and White. 2,913,557.  
 Irvin, Charles F. 2,891,829.  
 Jacobsen, Jerome G., Jr. 2,899,816.  
 Jossee, Ralph D. 2,871,422.  
 Johnson, Warren C., and Smart. 2,915,667.  
 Jones, Charles H. 2,892,015.  
 Jones, Charles H. 2,897,261.  
 Jones, Wallace M., and Cain. 2,875,368.  
 Jones, Wesley N. 2,919,416.  
 Kenyon, Alonzo F. 2,871,435.  
 Kerley, James J., Jr., and Sando. 2,913,215.  
 King, George E., and Giboney. 2,905,838.  
 Knochel, William J. 2,871,087.  
 Knoebel, Donald E. 2,917,659.  
 Koch, Gustav H., and Radcliffe. 2,872,988.  
 Koerner, Harry E. 2,892,090.  
 Korner, Renzo L., Rieger, and McCurdy. 2,871,086.  
 Korodi, Paul C. 2,904,364.  
 Korodi, Paul C. 2,914,218.  
 Kozlovic, John M., and Frink. 2,889,433.  
 Kraft, Joseph K., and Rissler. 2,878,898.  
 Kruper, Andrew P. 2,875,360.  
 Kruper, Andrew P. 2,897,421.  
 Kruper, Andrew P., and Miller. 2,875,375.  
 Lackey, Robert S., and Glover. 2,916,917.  
 Lackey, Robert S., and Houtz. 2,887,885.  
 Laffoon, Carthrae M., and Moses. 2,917,644.  
 Langer, Stanley H. 2,871,454.  
 Large, William E. 2,900,573.  
 Large, William E., and Hartwig. 2,883,583.  
 Large, William E., and Hartwig. 2,892,148.  
 Lawthers, Dean D. 2,883,284.  
 Lederer, Ernest A. 2,888,589.  
 Lederer, Ernest A. 2,899,257.  
 Lederer, Ernest A. 2,915,661.  
 Leeds, Winthrop M. 2,913,556.  
 Lempert, Joseph. 2,871,402.  
 Lempert, Joseph. 2,896,088.  
 Lenahan, Bernard E. 2,883,622.  
 Lenahan, Bernard E. 2,909,728.  
 Lenahan, Bernard E. 2,913,667.  
 Lensner, Herbert W., and Rockefeller. 2,897,406.  
 Leonard, Merrill G. 2,892,127.  
 Lessmann, Gerhard P. 2,913,604.  
 Lester, Ray V. 2,871,411.  
 Lewis, Daniel W. 2,899,403.  
 Ley, Gordon S. 2,905,750.  
 Liebel, John T. 2,913,588.  
 Lindstrom, Henry L. 2,913,129.  
 Lingal, Harry J. 2,889,434.  
 Lipscomb, George W. 2,905,900.  
 List, William F. 2,890,380.  
 Lloyd, Wayne B. 2,889,815.  
 Loehr, Albert H. 2,916,199.  
 Longini, Richard L. 2,900,445.  
 Lopenski, Stanley A., and Childs. 2,884,895.  
 Losch, Kenneth, and Petrocelli. 2,913,601.  
 Losco, Ezekiel F., Bechtold, and Webb. 2,874,453.  
 Losco, Ezekiel F., and Strull. 2,909,453.  
 Lowry, Lewis R., Jr., and Ernberger. 2,896,149.  
 Lund, Alvin O., and Fink. 2,886,137.  
 Lynn, Lawrence B. 2,899,828.  
 MacNeill, John B., Florschutz, and Niebauer. 2,892,057.  
 Mahler, Charles J., and White. 2,871,323.  
 Mahler, Charles J., White, and Immet. 2,871,322.  
 Maier, Alfred E., and Taylor. 2,883,585.  
 Mangan, Paul C., and Kohman. 2,892,307.  
 Marbury, Ralph E. 2,900,578.  
 Marden, John W. 2,915,946.  
 Marden, John W., Wroughton, and Baker. 2,916,535.  
 Marsh, Charles R. 2,876,375.  
 Marshall, Donald E. 2,917,649.  
 Matthews, Jennie. 2,899,822.  
 McGeary, Robert K., and Leggett. 2,888,343.  
 McGinnis, Ralph E. 2,918,255.

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 Meier, Arthur P. 2,877,925.  
 Meisinger, Harold H. 2,896,690.  
 Melamed, Nathan T., and Kruper. 2,888,513.  
 Metz, Weldon L., and Derr. 2,909,709.  
 Miller, Carl F. 2,897,395.  
 Miller, Carl F. 2,909,700.  
 Miller, Carl F., and McCurdy. 2,892,119.  
 Miller, Carl F., McCurdy, and Lederer. 2,907,911.  
 Miller, Carl F., and Smart. 2,913,805.  
 Miller, Carl F., Smart, and Feaster. 2,909,200.  
 Miller, Theodore. 2,879,325.  
 Mindt, Frederick E., and Schmidt. 2,900,603.  
 Minter, Herbert F., and Foster. 2,871,420.  
 Mitchell, William H., and Percy. 2,900,539.  
 Mittleman, Edward R. 2,913,685.  
 Moehler, Otto J. 2,877,806.  
 Morse, William H. 2,900,537.  
 Moy, Tsou K., and Henning. 2,875,580.  
 Muss, Daniel R., and Longini. 2,879,481.  
 Narbutovskih, Paul, now by change of name Paul Narbut. 2,875,263.  
 Neal, Robert A. 2,875,613.  
 Nelson, James K. 2,891,385.  
 Netzer, Henry. 2,888,541.  
 Nicholson, William H. 2,904,962.  
 Noiles, Douglas G. 2,917,653.  
 Okress, Ernest C. 2,909,701.  
 Okress, Ernest C., and Green. 2,871,407.  
 Oplinger, Kirk A. 2,874,806.  
 Owens, James B. 2,911,506.  
 Parris, William J. 2,917,679.  
 Penney, James H., and Wren. 2,878,911.  
 Perkins, Harley A., Jr. 2,871,442.  
 Perkins, Harley A., Jr. 2,888,577.  
 Perrenod, Charles A. 2,916,396.  
 Petrocelli, Edward A. 2,917,698.  
 Petzinger, Ambrose J. 2,875,406.  
 Petzinger, Ambrose J. 2,875,408.  
 Petzinger, Ambrose J. 2,879,475.  
 Petzinger, Ambrose J. 2,905,901.  
 Petzinger, Ambrose J., and Hogenbirk. 2,888,644.  
 Picha, George J., and Winkler. 2,883,519.  
 Plagge, Vernon L., and Boyce. 2,901,646.  
 Pouchot, Walter D. 2,914,921.  
 Price, George E. 2,872,558.  
 Putkovich, Rudy P., and Thompson. 2,897,433.  
 Raczynski, Andrew T. 2,884,551.  
 Radus, Raymond J., and Evans. 2,892,155.  
 Ralston, George. 2,905,751.  
 Ralston, George, and Farr. 2,888,604.  
 Rambo, Sheldon I. 2,874,575.  
 Rambo, Sheldon I. 2,900,576.  
 Redmond, John A., Peach, Wuerfel, and Weight. 2,900,479.  
 Reeder, James R., and Hulsey. 2,883,561.  
 Reeder, James R., Schuh, and Lowry. 2,885,568.  
 Rehberg, Richard A., and Williams. 2,912,949.  
 Retzer, Theodore C. 2,916,671.  
 Retzer, Theodore C., and Gingras. 2,876,377.  
 Retzer, Theodore C., and Meola. 2,916,669.  
 Reuther, John F., and Silliman. 2,892,102.  
 Revere, Paul E., and Keith. 2,903,385.  
 Rexroad, James O., and Born. 2,894,084.  
 Riesz, Kolman. 2,879,478.  
 Rively, Clair M., and Daines. 2,882,387.  
 Rively, Clair M., and Midgley. 2,903,561.  
 Roberts, John W. 2,869,678.  
 Roberts, William L. 2,871,385.  
 Roberts, William L., and Coltman. 2,875,349.  
 Robinson, Robert C. 2,915,654.  
 Rogers, Dow A., Jr., and Lewis. 2,883,395.  
 Rohrer, Kenneth L. 2,891,879.  
 Rokosz, Ferdinand, and Edgerly. 2,908,249.  
 Roos, William J. 2,908,347.  
 Rosenberg, Barnett. 2,916,630.  
 Rowe, William D. 2,913,597.  
 Rugg, Harold H. 2,878,300.  
 Sack, Edgar A., Jr. 2,917,667.  
 St. John, William, and Hoffmann. 2,908,490.  
 Sandin, Jerome, and Shepard. 2,875,382.  
 Sando, Robert M., and England. 2,891,785.  
 Sanner, George E. 2,909,655.  
 Sauer, Louis E. Re. 24,751.  
 Sauer, Louis E. 2,876,193.  
 Scheffler, Paul H., Jr. 2,888,097.  
 Scheffler, Paul H., Jr., and Young. 2,888,286.  
 Schibley, Raymond D. 2,877,761.  
 Schiowe, Arthur J., and Chen. 2,915,710.  
 Schlemm, Norman H., Jr. 2,909,681.  
 Schmidt, Warren J. 2,871,421.  
 Schmidt, Warren J., and Axman. 2,879,479.  
 Schmidt, Warren J., and Axman. 2,889,494.  
 Schmidt, Warren J., and Kadri. 2,871,448.  
 Schmidt, Warren J., and Rudy. 2,900,604.  
 Schneebberger, Robert J. 2,879,400.  
 Schneebberger, Robert J. 2,900,555.  
 Scholtes, Donald R. 2,879,386.  
 Schrameck, Jack E., and Soles. 2,919,316.  
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 Seidel, Martin P., and Bell. 2,909,740.  
 Seidel, Martin P., and Fooks. 2,892,168.  
 Seidensticker, Raymond G. 2,907,969.  
 Sempsel, Kenneth E. 2,914,935.  
 Sirles, John P., May, and Eberiel. 2,870,938.  
 Skaggs, John W. 2,907,958.  
 Slebodnik, Thomas W., and Rau. 2,913,688.  
 Sloat, Truman K., and Ford. 2,892,166.  
 Smith, Clarence M. 2,872,551.  
 Smith, Frank V., and Wells. 2,913,591.  
 Smith, Harry B. 2,871,468.  
 Smith, Harry B. 2,905,817.  
 Smith, Joseph W., and Samios. 2,913,651.  
 Sorenson, Ralph Z. 2,910,929.  
 Spaulding, Charles W., and Pelz. 2,883,487.  
 Speck, Willis A. 2,909,757.  
 Squires, Rathbun B., and Ballinger. 2,900,605.  
 Sterling, Robert F. 2,917,607.  
 Sternglass, Ernest J. 2,905,844.  
 Sternglass, Ernest J. 2,916,664.  
 Sternglass, Ernest J., and Feibelman. 2,898,499.  
 Straka, Cyril J., and Weltman. 2,885,386.  
 Stringer, Loren F. 2,871,437.  
 Strull, Gene. 2,879,188.  
 Stubbe, Ralph R. 2,917,572.  
 Stull, Keefer S., Jr. 2,900,457.  
 Summers, William J., and Hassell. 2,882,214.  
 Sunderlin, Joseph E. 2,883,563.  
 Tarlton, Russell A. 2,880,498.  
 Taylor, Owen L. 2,917,610.  
 Teague, William L., and McWhirter. 2,892,169.  
 Thorpe, Robert J., and Winters. 2,870,826.  
 Toulon, Pierre M. G. 2,875,380.  
 Toulon, Pierre M. G. 2,917,574.  
 Travis, Lawrence R., Heller, and Petrick. 2,917,735.  
 Travis, Lawrence R., and Petrick. 2,905,014.  
 Tremaine, Richard L. 2,917,672.  
 Trigg, Warren M., and McBride. 2,904,875.  
 Tull, Robert H. 2,891,389.  
 Tusing, Roy S. 2,888,615.  
 Upton, Chester W., Jr. 2,905,794.  
 Van Ness, Hubert W. 2,888,550.  
 Van Sickle, Roswell C. 2,917,602.  
 Wachtel, Anselm. 2,874,128.  
 Wachtel, Milton M. 2,879,406.  
 Wainio, Albert W., and Sutter. 2,885,587.  
 Walker, Eugene J., and Reichert. 2,892,054.  
 Wallace, James M. 2,871,414.  
 Wallace, James M. 2,909,729.  
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 Washil, Myron A. 2,917,677.  
 Webb, Edward L. 2,905,829.  
 Werst, Mervin C. 2,871,974.  
 Wheeler, Myron S. 2,883,630.  
 White, Marshall P. 2,875,304.  
 Whitefield, Kyle C. 2,903,155.  
 Williamson, John S. 2,870,970.  
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 Wright, Robert L., Jr. 2,879,470.  
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 Westlin, Karl L., to American Air Filter Co., Inc. Combined cyclone and bag type filter. 2,868,320, 1-13-59, Cl. 183-34.  
 Westling, Carl J., to Vulcan Research Corp. Manipulator. 2,868,397, 1-13-59, Cl. 214-27.  
 Westlinning, Hermann: See—  
 Wagner, Ernst, and Westlinning. 2,898,391.  
 Westlund, Raymond E., Jr. Reciprocating saw. 2,890,732, 6-16-59, Cl. 145-31.  
 Westlund, Roy A., Jr.: See—  
 Furey, Michael J., and Westlund. 2,872,334.  
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 Lones, Dain B., and Westman. Re. 24,597.  
 West Michigan Steel Foundry Co.: See—  
 Dalton, Thomas B. 2,885,220.  
 Dalton, Thomas B. 2,896,967.  
 Dalton, Thomas B. 2,907,583.  
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 Westmijze, Willem K., to North American Philips Co., Inc. Annular magnet head of the kind comprising a solid core for magnetic recording and reproduction. 2,870,266, 1-20-59, Cl. 179-100.2.  
 Westmoreland, Edward I. Revolver cocking mechanism actuated by side lever. 2,875,545, 3-3-59, Cl. 42-65.  
 Westmoreland, Edward I. Pneumatically-filled fountain pen. 2,917,024, 12-15-59, Cl. 120-47.  
 Westneat, Arthur S., Jr.: See—  
 Minneman, Milton J., and Westneat. 2,869,121.  
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 Byrnes, James H. 2,870,737.  
 Weston, Arthur W., to Abbott Laboratories. Chemical compounds. 2,881,172, 4-7-59, Cl. 260-268.  
 Weston, Arthur W., to Abbott Laboratories. Piperazine derivatives. 2,907,765, 10-6-59, Cl. 260-268.  
 Weston, Arthur W., H. E. Zaugg, and R. J. Michaels, Jr., to Abbott Laboratories. Piperazine derivatives. 2,907,766, 10-6-59, Cl. 260-268.  
 Weston, David, A. R. MacPherson, R. C. Meaders, and W. D. Sheldon. Air systems for dry material reduction mills and controls therefor. 2,916,215, 12-8-59, Cl. 241-19.  
 Weston, George F.: See—  
 Tosswill, Christopher H., Weston, and Days. 2,878,419.  
 Weston, Herbert, to VSI Record, Inc. Posting device. 2,880,048, 3-31-59, Cl. 312-198.  
 Weston, Herbert, and R. T. Proulx, to Visirecord, Inc. Tape holder. 2,893,565, 7-7-59, Cl. 211-60.  
 Weston Hydraulics, Ltd.: See—  
 Floyd, Burton D. 2,917,078.  
 Gerwig, Harvey F. 2,888,285.  
 Gerwig, Harvey F., and Cox. 2,888,027.  
 Gerwig, Harvey F., and Cox. 2,903,255.  
 Weston, Joseph P., to General Dynamics Corp. Group alarm communication circuit. 2,876,293, 3-3-59, Cl. 179-51.  
 Weston, Richard G., and C. Hungerford, Jr., to Hungerford & Terry, Inc. Water purification coagulation apparatus with perforate plate flow controllers. 2,891,008, 6-16-59, Cl. 210-208.  
 Weston, Roger D., and F. K. Barns, to The B. F. Goodrich Co. Multi-part extruder head. 2,897,543, 8-4-59, Cl. 18-13.  
 Weston, Sydney R., 1/2 to H. J. Weisblut. Tea bag device. 2,918,373, 12-22-59, Cl. 99-77.1.  
 Weston, William A., to Newport News Shipbuilding and Dry Dock Co. Device for folding charts and the like. 2,918,276, 12-22-59, Cl. 270-61.  
 Weston, William K.: See—  
 Clarke, George W., Weston, and Andrews. 2,894,055.  
 Clarke, George W., Weston, and Andrews. 2,914,599.  
 Westover, Edmund A., to Information Systems, Inc. Line space programming apparatus for an electric typewriter. 2,917,153, 12-15-59, Cl. 197-133.  
 Westphal, Henry J. Carrier frame for photographic slides. 2,888,762, 6-2-59, Cl. 40-64.  
 Westphal, James A., to Sinclair Oil & Gas Co. Apparatus to automatically control transmitter power. 2,896,073, 7-21-59, Cl. 250-17.  
 Westphal, James A., to Sinclair Oil & Gas Co. Numbering device for timing lines on a seismogram. 2,906,198, 9-29-59, Cl. 101-79.  
 Westphal, James A., to Sinclair Oil & Gas Co. Apparatus for plotting migrated geologic cross-sections. 2,914,854, 12-1-59, Cl. 33-1.  
 Westphall, James W., to Houdaille Industries, Inc. Transmission turning tool. 2,917,908, 12-22-59, Cl. 64-1.  
 West Point Mfg. Co.: See—  
 Charlton, Richard E., Jr., and Payne. 2,882,614.  
 Charlton, Richard E., Jr., and Payne. 2,893,043.  
 Granberry, Edgar H. 2,901,882.  
 Granberry, Edgar H. 2,901,883.  
 Payne, Verna L. 2,877,739.  
 Waddle, Howard M., Cotton, and Hudson. 2,870,041.  
 Westrex Corp.: See—  
 Davis, Charles C. 2,878,321.  
 Davis, Charles C. 2,886,652.  
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 Shoumatoff, Nicholas. 2,896,336.  
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 Wetherbee, Arthur E., Jr., to United Aircraft Corp. Roll control means. 2,911,912, 11-10-59, Cl. 102-50.  
 Wetherhold, Louis E., to Western Electric Co., Inc. Bridge circuits. 2,911,588, 11-3-59, Cl. 324-34.  
 Wetherill, Francis D.: See—  
 Janszen, Arthur A. 2,896,025.  
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 Lebedeff, Yuri E., and Wetherill. 2,889,196.  
 Wetherilt, Donald, to Afico S.A. Powdered soluble tea extract and process for its manufacture. 2,912,334, 11-10-59, Cl. 99-77.  
 Wethern, James D.: See—  
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- Wethington, Jesse B.: *See*—  
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- Wetrott, Georges: *See*—  
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- Wettendorf, Joseph A. Intruder-free bird house. 2,876,738, 3-10-59, Cl. 119-23.
- Wetterau, Paul C., to Congoleum-Nairn Inc. Method of producing resilient plastic surface covering. 2,918,702, 12-29-59, Cl. 18-57.
- Wettstein, Albert: *See*—  
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- Wettstein, Albert, A. Hunger, C. Meystre, and L. Ehmann, to Ciba Pharmaceutical Products Inc. Process for the manufacture of steroid dehydrogenation products. 2,900,398, 8-18-59, Cl. 260-397.4.
- Wettstein, Albert, and L. Ehmann, to Ciba Pharmaceutical Products Inc. Process for the partial removal of oxo groups. 2,870,142, 1-20-59, Cl. 260-239.55.
- Wettstein, Albert, E. Vischer, C. Meystre, and L. Ehmann, to Ciba Pharmaceutical Products Inc. New 1-dehydro-testosterones and esters thereof. 2,871,245, 1-27-59, Cl. 260-397.4.
- Wettstein, Albert, G. Anner, and J. Schmidlin, to Ciba Pharmaceutical Products, Inc. 11,18-dioxxygenated- $\Delta^4$ -3,20-dioxo-pregnene-21 als. 2,883,378, 4-21-59, Cl. 260-239.55.
- Wettstein, Albert, C. Meystre, and W. Voser, to Ciba Pharmaceutical Products, Inc.  $\Delta^6$ -20-keto-3:16:21-trihydroxy-pregnene and esters thereof. 2,897,219, 7-28-59, Cl. 260-397.47.
- Wettstein, Albert, and E. Visher, to Ciba Pharmaceutical Products, Inc. Process for degradation of side chain of androstane and pregnane compounds. 2,904,472, 9-15-59, Cl. 195-51.
- Wettstein, Albert, and G. Anner, to Ciba Pharmaceutical Production, Inc. 18-oxygenated- $\Delta^4$ -3,20-dioxo-9a-halo-pregnene. 2,917,510, 12-15-59, Cl. 260-239.55.
- Wettstein, Albert, and K. Heusler, to Ciba Pharmaceutical Products, Inc. 9-beta-hydrogen-11-keto-cholestenes and androstenes. 2,918,480, 12-22-59, Cl. 260-397.2.
- Wetty, Robert A.: *See*—  
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- Wetty, S. A., & Sons: *See*—  
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- Wetty, Stephen A., to S. A. Wetty & Sons. Golf club head. 2,880,002, 3-31-59, Cl. 273-169.
- Wetty, Stephen A., to S. A. Wetty & Sons, Inc. Hand-held tool. 2,917,092, 12-15-59, Cl. 145-61.
- Wetty, Stephen A., R. A. and W. S., to S. A. Wetty & Sons, Inc. Process for molding hollow articles. 2,916,774, 12-15-59, Cl. 18-47.5.
- Wetty, William S.: *See*—  
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- Wetzel, Charles H., to Wayne Iron Works. Closure sealing device. 2,870,495, 1-27-59, Cl. 20-68.
- Wetzel, Ellsworth S. and Ellsworth S., Jr. Adjustable beds. 2,885,692, 5-12-59, Cl. 5-63.
- Wetzel, Ellsworth S., Jr.: *See*—  
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- Wetzel, Frank O.: *See*—  
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- Wetzel, Oscar L. Kite string reel. 2,896,878, 7-28-59, Cl. 242-99.
- Wetzel, Rolf H. Washing machine hose attachment. 2,912,112, 11-10-59, Cl. 210-136.
- Wetzel, Theodore A., to Kearney & Trecker Corp. Pattern controlled machine tool. 2,869,429, 1-20-59, Cl. 90-13.5.
- Wetzel, Theodore A., to Kearney & Trecker Corp. Pattern controlled machine tool. 2,881,666, 4-14-59, Cl. 90-13.5.
- Wetzel, Theodore A., to Kearney & Trecker Corp. Motor control system. 2,882,476, 4-14-59, Cl. 318-162.
- Wetzel, Wilfred W., to Minnesota Mining & Mfg. Co. Magnetic recording of television signals. 2,907,818, 10-6-59, Cl. 178-6.6.
- Wetzstein, Hanns J., and Z. K. Kaweck, to Radio Corp. of America. Magnetic storage systems. 2,911,629, 11-3-59, Cl. 340-174.
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- Weyde, Edith. Photographic material for the direct production of positive photographic images. 2,875,052, 2-24-59, Cl. 96-68.
- Weyenberg, Donald R., to Dow Corning Corp. Symmetrical diphenyldimethyldivinylsiloxane and its uses. 2,897,221, 7-28-59, Cl. 260-448.2.
- Weyerhaeuser Timber Co.: *See*—  
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- Weyl, Bernard A. Collapsible brush. 2,871,494, 2-3-59, Cl. 15-160.
- Weyl, Woldemar A., to The Harshaw Chemical Co. Ceramic pigment. 2,875,086, 2-24-59, Cl. 106-299.
- Whalen, Charles E., to The Warren Featherbone Co. Wearing apparel for babies. 2,880,727, 4-7-59, Cl. 128-288.
- Whalen, Frank B., to Lone Star Boat Co. Boat trailers. 2,901,138, 8-25-59, Cl. 214-506.
- Whalen, James W. Variable drive transmission. 2,903,897, 9-15-59, Cl. 74-200.
- Whalen, Joseph J. Paint applicator. 2,907,061, 10-6-59, Cl. 15-114.
- Whalen, Richard T., and R. G. D'Ascoli, to Anaconda Wire and Cable Co. Manufacture of high frequency cable. 2,885,737, 5-12-59, Cl. 18-59.
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- Whaley, Fred R.: *See*—  
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- Whaley, John A., to General Motors Corp. Testing device for spark plugs. 2,913,659, 11-17-59, Cl. 324-15.
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- Whann, Myra D.: *See*—  
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- Whartman, Gerald W., and F. W. Hylland, Insect deflector attachment for motor vehicles. 2,872,242, 2-3-59, Cl. 296-91.
- Wharton, Armistead, to General Dynamics Corp. Pulsing timer. 2,891,617, 6-23-59, Cl. 161-1.
- Wharton, Armistead, to General Dynamics Corp. Electromagnetic relay. 2,910,559, 10-27-59, Cl. 200-93.
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- Wheatley, Charles. Hydraulic check valve. 2,888,950, 6-2-59, Cl. 137-514.
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- Wheaton, David H., to McCann-Erickson Inc. Container key. 2,890,811, 6-16-59, Cl. 220-52.
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- Wheaton, Estel O., to Roll Dippers, Inc. Method of cleaning pipe lines. 2,906,650, 9-29-59, Cl. 134-8.
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- Wheelbarger, Albert S., to Rockwell Mfg. Co. Variable gear reduction unit. 2,902,872, 9-8-59, Cl. 74-325.
- Wheeler, Douglas W. E., to Muirhead & Co. Ltd. Facsimile telegraph systems. 2,911,464, 11-3-59, Cl. 178-6.6.
- Wheeler, Albert R. Equipment hose and flexible tube support. 2,879,020, 3-24-59, Cl. 248-75.
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- Wheeler, Byrhl F. Evaporative wheel. 2,879,979, 3-31-59, Cl. 261-92.
- Wheeler, Byrhl F. Assembly of driving and driven shafts. 2,909,046, 10-20-59, Cl. 64-10.
- Wheeler, C. H., Mfg. Co.: See—  
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- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalidyl esters of aromatic acids. 2,877,236, 3-10-59, Cl. 260-343.2.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. 3 (3-nitroanilino) phthalide. 2,886,576, 5-12-59, Cl. 260-343.3.
- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. Phthalidyl esters of alkanolic acids. 2,897,210, 7-28-59, Cl. 260-343.3.
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- Wheeler, Donald D., and D. C. Young, to The Dow Chemical Co. N-phthalidyl carbamic acid esters. 2,904,557, 9-15-59, Cl. 260-343.3.
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- Wheeler, Harold A., to Polaroid Electronics Corp. Rotating beacon antenna. 2,907,032, 9-29-59, Cl. 343-758.
- Wheeler, Harold A., to General Motors Corp. Saturated reactor remote control tuning. 2,916,619, 12-8-59, Cl. 250-40.
- Wheeler, Harold E. Box tools. 2,906,156, 9-29-59, Cl. 82-19.
- Wheeler, Harold W. Pipe-turning mandrels. 2,914,330, 11-24-59, Cl. 279-2.
- Wheeler, Henry H., to International Cigar Machinery Co. Leaf stemming and spreading machine. 2,884,929, 5-5-59, Cl. 131-125.
- Wheeler, James E. Depository drawer. 2,914,244, 11-24-59, Cl. 232-44.
- Wheeler, John H. and R. L. Machine for harvesting crops. 2,882,976, 4-21-59, Cl. 171-128.
- Wheeler, Keith W., J. K. Seyler, F. P. Palopoli, and F. J. McCarty, to The Wm. S. Merrell Co. N-substituted benzhydrol, benzhydryl and benzhydrylidene piperidine. 2,898,339, 8-4-59, Cl. 260-293.4.
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- Wheeler, Lionel H., and R. B. Robertson, to H. E. Bovay, Jr., Consulting Engineers. Material transfer and storage. 2,880,892, 4-7-59, Cl. 214-17.
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- Wheeler, Will L., L. E. Hall, and E. J. Kellogg, to North American Aviation, Inc. Method of forging a metallic workpiece. 2,878,561, 3-24-59, Cl. 29-552.2.
- Wheeler, Will L., L. E. Hall, and E. J. Kellogg, to North American Aviation, Inc. Method of shaping heated aluminum billets with zinc alloy dies. 2,906,019, 9-29-59, Cl. 29-552.2.
- Wheeler, William G. Food segregating rack for refrigerator shelves. 2,889,054, 6-2-59, Cl. 211-153.
- Wheeler, William N. Toy. 2,903,265, 9-8-59, Cl. 273-98.
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- Wheelock, Charles E., to Phillips Petroleum Co. Unsaturated polyester vinylmonomer, heterocyclic nitrogen monomer and method of preparing laminated article therefrom. 2,898,259, 8-4-59, Cl. 154-140.
- Wheelock, Charles E., to Phillips Petroleum Co. Resins from epoxidized polymers and polyhydric alcohols. 2,914,490, 11-24-59, Cl. 260-2.
- Wheelock, Charles E., to Phillips Petroleum Co. Thermo-setting composition containing a liquid polymer of a diene and an ester, process for making same and articles thereof. 2,919,220, 12-29-59, Cl. 154-140.
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- Wheelock, Lewis T.: See—  
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- Wheelock Signals, Inc.: See—  
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- Wheelright, Earl J., to United States of America, Atomic Energy Commission. Process of preparing a fluoride of tetravalent uranium. 2,874,026, 2-17-59, Cl. 23-14.5.
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- Whelan, James P., to Pneumatic Scale Corp., Ltd. Conveyor. 2,879,882, 3-31-59, Cl. 198-33.
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- Whelan, James P., to Pneumatic Scale Corp., Ltd. Container cleaning machine. 2,915,773, 12-8-59, Cl. 15-304.
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- Whipple, Jack V. H., and A. L. Odmark, to The Brunswick-Balke Collender Co. Bowling pin handling apparatus. 2,887,318, 5-19-59, Cl. 273-43.
- Whipple, Richard J., and H. E. Bowes, to Philco Corp. Broadcast receivers. 2,872,677, 2-3-59, Cl. 343-702.
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- Whisnant, John K., to American Enka Corp. Vacuum wheel for extracting liquid from tow. 2,871,502, 2-3-59, Cl. 15—306.
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- Whitaker, Arthur C.: See—  
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- Whitaker, Carl F. Finishing machine. 2,881,567, 4-14-59, Cl. 51—5.
- Whitaker, Carl F. Abrasive wheel. 2,885,835, 5-12-59, Cl. 51—194.
- Whitaker, Grant E. Collapsible wire reel. 2,909,340, 10-20-59, Cl. 242—115.
- Whitaker, Henry P.: See—  
 Seamans, Robert C., Jr., Whitaker, Wilkins, and Wingate. 2,868,481.
- Whitaker, Herbert W. Engine fumes eliminator. 2,877,701, 3-17-59, Cl. 98—43.
- Whitaker, James N. Shaft-reciprocated debarking tool mounted in swingable guideway. 2,882,942, 4-21-59, Cl. 144—208.
- Whitaker, John E. Display rack. 2,892,547, 6-30-59, Cl. 211—147.
- Whitaker, Randall, to National Dairy Products Corp. Process for producing creamed cottage cheese. 2,867,537, 1-6-59, Cl. 99—178.
- Whitaker Reed Co.: See—  
 Hutchins, Richard B. 2,914,094.
- Whitaker, William D.: See—  
 Parker, Wilton E., Whitaker, Getz, Hertzog, and Chapman. 2,908,189.
- Whitbeck, Roland A. Fishing tackle. 2,890,004, 6-9-59, Cl. 242—84.1.
- Whitbourne, Richard J., to Eastman Kodak Co. Solvent composition. 2,891,849, 6-23-59, Cl. 41—43.
- Whitby, Lawrence, to The Dow Chemical Co. Magnesium-zinc paint pigments. 2,877,126, 3-10-59, Cl. 106—290.
- Whitby, Lawrence, to The Dow Chemical Co. Composition for and method of chrome pickling of magnesium shapes. 2,887,418, 5-19-59, Cl. 148—6.2.
- Whitcher, Lewis L. Milk releaser. 2,880,700, 4-7-59, Cl. 119—14.05.
- Whitcomb, John O., to W. O. Hickok Mfg. Co. Round-cornering machine. 2,887,156, 5-19-59, Cl. 164—59.
- Whitcomb, Richard T. Fuselage shaping to reduce the strength of shock waves about airplanes at transonic and supersonic speeds. 2,874,922, 2-24-59, Cl. 244—130.
- Whitcomb, Richard T. Fuselage shaping to reduce the strength of the initial shock wave on lifting airplane wings. 2,898,059, 8-4-59, Cl. 244—130.
- Whitcomb, William C.: See—  
 Hill, Joseph F., Whitcomb, and Van Horn. 2,893,097.
- White, Alan: See—  
 Ainsworth, John R., Lutyens, and White. 2,867,262.
- White, Alan D., to International Telephone and Telegraph Corp. Gas tube microwave detector. 2,877,417, 3-10-59, Cl. 324—95.
- White, Alan D., and J. F. Heney, to International Telephone and Telegraph Corp. Non-scanning frequency analyzer. 2,906,954, 9-29-59, Cl. 324—77.
- White, Allen A., to Hesston Mfg. Co., Inc. Means for mounting rotatable power-transmitting members on rotatable axial members. 2,883,217, 4-21-59, Cl. 287—52.
- White, Bernard B. Strap mount. 2,894,552, 7-14-59, Cl. 150—12.
- White Cap Co.: See—  
 McElroy, Robert K., and Smith. 2,876,605.  
 Unger, Harold W., and Zipper. 2,874,863.  
 Zipper, Donald H., Unger, and Moloney. 2,880,901.
- White, Cecil F. Compresses. 2,876,696, 3-10-59, Cl. 100—25.
- White, Charles E.: See—  
 Fischer, Edwin L., and White. 2,908,916.
- White, Charles S. Molded bearing having low friction mating surfaces. 2,885,248, 5-5-59, Cl. 308—239.
- White, Charles S. Sealing and bearing device having low friction sealing faces. 2,906,552, 9-29-59, Cl. 288—17.
- White, Charles S. Barrier and bonding material for low friction surface. 2,907,612, 10-6-59, Cl. 308—238.
- White, Charles S. Flexible low friction piston. 2,911,270, 11-3-59, Cl. 309—23.
- White, Charles W.: See—  
 McLeod, Duncan T. 2,893,579.
- White, Chester N., to Sun Oil Co. Well drilling composition and method. 2,890,753, 6-16-59, Cl. 166—42.
- White, Clayton H.: See—  
 Joachim, Joseph G., and White. 2,903,288.
- White, Cleveland J. Therapeutic composition comprising powdered maize cob. 2,890,151, 6-9-59, Cl. 167—58.
- White, Clyde G. Body contour apparel. 2,917,051, 12-15-59, Cl. 128—522.
- White, Darrell C.: See—  
 Hollerith, Charles, Flansburgh, and White. 2,918,775.
- White, David, Co.: See—  
 Givovsky, Harry L. 2,911,879.  
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- White Development Corp.: See—  
 White, John U. 2,899,561.
- White, Donald R., to General Electric Co. Fluid flow apparatus. 2,910,830, 11-3-59, Cl. 60—39.77.
- White, Edgar E. Toothpick dispenser. 2,895,638, 7-21-59, Cl. 221—224.
- White, Edgar E. Combined paint brush and roller trays. 2,909,797, 10-27-59, Cl. 15—121.2.
- White, Edward A., to Chas. Pfizer & Co., Inc. Pellet implanter. 2,907,327, 10-6-59, Cl. 128—217.
- White, Effie E.: See—  
 Miller, Eldon F. 2,910,840.
- White, Ellis R., to Shell Development Co. Aromatic dialdehydes. 2,902,516, 9-1-59, Cl. 260—599.
- White, Elmer E.: See—  
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- White, Eric A.: See—  
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- White, Eric L. C.: See—  
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- White, Ezra L., to Rock of Ages Corp. Monument ornament. 2,893,151, 7-7-59, Cl. 41—34.
- White, Frank L.: See—  
 Brooker, Leslie G. S., and White. 2,882,159.
- White, Fred J. Brake operating means. 2,899,022, 8-11-59, Cl. 188—2.
- White, Fred K., Jr.: See—  
 Marron, Thomas U., White, and Rosenberger. 2,875,046.
- White, Gale, to Texas Instruments Inc. Apparatus for recording and playback. 2,917,588, 12-15-59, Cl. 179—100.2.
- White, Garland L.: See—  
 Crone, Billie L., and White. 2,890,752.
- White, Gerald, to Libbey-Owens-Ford Glass Co. Tempering of sheet material. 2,881,565, 4-14-59, Cl. 49—45.
- White, Gerald A.: See—  
 Place, James A., Thomas, and White. 2,914,906.
- White, H. Calvin: See—  
 Phreaner, Ellis H. 2,891,875.  
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- White, Hal L.: *See*—  
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- White, Halbert C.: *See*—  
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- White, Halbert C., and E. C. Britton, to The Dow Chemical Co. Foodstuffs containing N<sup>6</sup>-acyllysines. 2,879,164, 3-24-59, Cl. 99-14.
- White, Harvey J., to Corning Glass Works. Band assembly. 2,886,366, 5-12-59, Cl. 294-31.2.
- White, Henry G.: *See*—  
Coffey, David, Johnson, and White. 2,880,192.
- White, Herbert E. Telescopic pipe joint with tolerance accommodating means. 2,880,021, 3-31-59, Cl. 285-328.
- White, Herbert E. Fitting and spring clip for connecting same to a pipe. 2,880,023, 3-31-59, Cl. 287-20.
- White, Herman E. Bolt puller. 2,900,169, 8-18-59, Cl. 254-20.
- White-Hixon Laboratories Inc.: *See*—  
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Hixon, Philip E., and White. 2,892,394.
- White, Hobart S. Antifriction gascheck wads. 2,911,911, 11-10-59, Cl. 102-38.
- White, Horace W., to The National Standard Co. Ltd. Wire sleeving apparatus. 2,913,014, 11-17-59, Cl. 140-88.
- White, Howard D., and H. J. Tenniswood, to Revco, Inc. Compartments for refrigerators. 2,908,539, 10-13-59, Cl. 312-295.
- White, Howard J., Jr., and D. M. Cates, to Textile Research Institute. Cellulose containing polymeric materials and method of producing the same. 2,868,744, 1-13-59, Cl. 260-17.4.
- White, Howard T., to Fostoria Corp. Motor driven pumps. 2,906,208, 9-29-59, Cl. 103-87.
- White, Howard T. Balanced rotary four way valve. 2,907,349, 10-6-59, Cl. 137-624.
- White, Howard T., to Fostoria Corp. Motor driven pumps. 2,913,988, 11-24-59, Cl. 103-87.
- White Industries, Inc.: *See*—  
Zolyn, Kazimir S. 2,863,405.
- White, Ivan J. Dog track lure mechanism. 2,869,478, 1-20-59, Cl. 104-131.
- White, James C., to Williamsburg Chair Factory, Inc. Infant play pen. 2,913,739, 11-24-59, Cl. 5-99.
- White, James E. Vice for use with a sawhorse. 2,907,238, 10-6-59, Cl. 81-41.
- White, James S.: *See*—  
Dubin, Maurice T., and White. 2,919,200.
- White, James W., to Columbian Carbon Co. Method of coagulating rubber latices. 2,915,489, 12-1-59, Cl. 260-33.6.
- White, John E., to General Electric Co. Method of activating thermionic emitter. 2,913,629, 11-17-59, Cl. 315-103.
- White, John R., to Hazeltine Research, Inc. Color-image-reproducing apparatus. 2,876,372, 3-3-59, Cl. 313-84.
- White, John R., to Hazeltine Research, Inc. Color signal-matrixing apparatus. 2,882,336, 4-14-59, Cl. 178-5.4.
- White, John U., to The White Development Corp. Circuits for use in measuring systems. 2,899,561, 8-11-59, Cl. 250-83.3.
- White, John W., to National-Standard Co. Method of manufacturing tire beads. 2,902,083, 9-1-59, Cl. 154-14.
- White, John W., to Technical Oil Tool Corp. Wound clip and extractor therefor. 2,910,067, 10-27-59, Cl. 128-334.
- White, Jonathan W., Jr., to United States of America, Agriculture. Packaged honey and method of packaging same. 2,902,370, 9-1-59, Cl. 99-171.
- White, Kenneth H., to Minneapolis-Honeywell Regulator Co. Inertial apparatus. 2,900,823, 8-25-59, Cl. 74-5.5.
- White, Leland M.: *See*—  
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- White, Leslie E.: *See*—  
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- White, Lloyd C.: *See*—  
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- White, Loring C., to Sylvania Electric Products Inc. Pulse generation device. 2,916,643, 12-8-59, Cl. 313-73.
- White, Loyd J., to Southern Steel Co. Tool-resistant metal jail plates. 2,915,813, 12-8-59, Cl. 29-191.4.
- White Machine Co., Inc.: *See*—  
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- White, Marshall P.: *See*—  
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Mahler, Charles J., White, and Immel. 2,871,322.
- White, Marshall P., to Westinghouse Electric Corp. Circuit interrupter. 2,875,304, 2-24-59, Cl. 200-147.
- White Metal Rolling & Stamping Corp.: *See*—  
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Larson, Clayton E. 2,901,054.
- White, Naret M.: *See*—  
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- White, Otis S. Equipment used to vulcanize or recap vehicle tires. 2,871,514, 2-3-59, Cl. 18-18.
- White, Otis S. Tire vulcanizing equipment. 2,903,741, 9-15-59, Cl. 18-18.
- White, Paul F., to Furnas Electric Co. Electric switch. 2,875,288, 2-24-59, Cl. 200-6.
- White, Paul F., to Furnas Electric Co. Electric switch actuator mounting. 2,883,496, 4-21-59, Cl. 200-167.
- White, Paul G., to Square D Co. Control system for induction motor. 2,872,632, 2-3-59, Cl. 318-204.
- White, Paul W., to Parva Products Co. Buckle. 2,878,540, 3-24-59, Cl. 24-196.
- White, Philip. Inflatable attachment for brassiere. 2,883,987, 4-28-59, Cl. 128-462.
- White, Raymond A. Shielded hypodermic syringe. 2,876,770, 3-10-59, Cl. 128-215.
- White, Richard J., to American Can Co. Method of producing coated containers. 2,892,432, 6-30-59, Cl. 113-120.
- White, Robert B., and G. A. Boyog, to Community Engineering Corp. Mount for electron-discharge device. 2,911,613, 11-3-59, Cl. 339-182.
- White, Robert H.: *See*—  
Cowles, John H., White, and Clark. 2,897,581.
- White, Robert H., J. H. Cowles, and S. F. Clark, to The Torrington Co. Caged roller bearing assembly. 2,894,791, 7-14-59, Cl. 308-212.
- White-Rodgers Co.: *See*—  
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Ross, Donald K. 2,888,523.  
Vanderwal, Frank E., Jr. 2,914,265.  
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- White, Roger B., to The Pure Oil Co. Well pumping device. 2,896,458, 7-28-59, Cl. 74-51.
- White, Roger F.: *See*—  
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- White, Roger L., to The Lawrence Paper Co. Moisture retaining container. 2,912,152, 11-10-59, Cl. 229-14.
- White, Roland J., to Boeing Airplane Co. Aerodynamic control surface movement assisting mechanism. 2,872,135, 2-3-59, Cl. 244-82.
- White, Roy W.: *See*—  
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- White, Royce M.: *See*—  
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- White, Russell R.: *See*—  
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- White, S. S., Dental Mfg. Co., The: *See*—  
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- White Sewing Machine Corp.: *See*—  
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- White, Walter R.: *See*—  
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- White, Walter S., Jr. Roof or wall construction. 2,869,182, 1-20-59, Cl. 20-4.
- White, Walter T.: *See*—  
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- White, Warren D.: *See*—  
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- White, Warren D., to Cutler-Hammer, Inc. Electronic circuits. 2,882,395, 4-14-59, Cl. 250-20.
- White, Warren D., to United States of America, Army. Vector adder system. 2,919,066, 12-29-59, Cl. 235-192.
- White, Wesley W.: *See*—  
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- White, Willard H. Magnetic gun holder. 2,910,804, 11-3-59, Cl. 46-242.
- White, William C., to General Electric Co. Photoelectric apparatus. 2,904,695, 9-15-59, Cl. 250-206.
- White, William E., to Bendix Aviation Corp. Brake. 2,867,297, 1-6-59, Cl. 188-78.
- White, William E., to Clark Equipment Co. Automatic brake adjuster. 2,889,015, 6-2-59, Cl. 188-196.
- White, William E., to Clark Equipment Co. Band brake. 2,918,145, 12-22-59, Cl. 188-77.
- White, William E., to Bethlehem Steel Co. Drive clip. 2,918,152, 12-22-59, Cl. 189-35.
- White, William F.: *See*—  
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- White, William G. Drop stake bunks for trucks. 2,908,509, 10-13-59, Cl. 280-145.
- White, William J., and L. Besterda. Sod cutting machine with gravity feed means. 2,889,878, 6-9-59, Cl. 164-48.
- White, William L.: *See*—  
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- White, William L., to Collins & Aikman Corp. Methods of processing pile fabrics. 2,875,504, 3-3-59, Cl. 28-72.
- Whitecar, Alten E., to Smith, Kline & French Laboratories. Apparatus for assembling packages. 2,902,806, 9-8-59, Cl. 53-157.
- Whitecar, Alten E., to Smith, Kline & French Laboratories. Machine for assembling a tube into a plug. 2,916,811, 12-15-59, Cl. 29-208.
- Whitefield, Kyle C., to Westinghouse Electric Corp. Bottle dispensing apparatus. 2,903,155, 9-8-59, Cl. 221-115.
- Whiteford, Errington A., and F. Birren, to Whiteford Paper Co., Inc. Books. 2,916,304, 12-8-59, Cl. 233-63.
- Whiteford Paper Co., Inc.: *See*—  
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- Whitehead, Arthur F.: *See*—  
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- Whitehead, Calvert W.: *See*—  
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- Whitehead, Cyril C., to Bailey Meter Co. Thermionic servo-amplifier systems. 2,870,393, 1-20-59, Cl. 318-29.
- Whitehead, Derek J., and E. F. Emley, to Magnesium Elektron Ltd. Alloying of manganese and zirconium to magnesium. 2,919,190, 12-29-59, Cl. 75-168.
- Whitehead, Edwin C., and A. Ferrari, Jr., to Technicon International, Ltd. Centrifuge apparatus and method. 2,883,103, 4-21-59, Cl. 233-27.
- Whitehead, Edwin C., and A. Ferrari, Jr., to Technicon International Ltd. Method of fluid analysis. 2,899,280, 8-11-59, Cl. 23-230.
- Whitehead, John, Engineering (Willesden) Ltd.: See—  
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- Whitehead & Kales Co.: See—  
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Stough, Gerald D. 2,917,261.
- Whitehead, Merl G. Barbecuing apparatus. 2,883,923, 4-28-59, Cl. 99-427.
- Whitehead, Richard H.: See—  
McKinley, George H., and Whitehead. 2,896,434.
- Whitehead, Robert C., Jr., to Minneapolis-Honeywell Regulator Co. Air-pressure-operated relay. 2,873,755, 2-17-59, Cl. 137-85.
- Whitehead, Robert C., Jr., to Minneapolis-Honeywell Regulator Co. Transmitting apparatus. 2,906,095, 9-29-59, Cl. 60-54.5.
- Whitehead, Stanley, to William Kenyon & Sons, Inc. Spindle idler and brake assembly. 2,892,302, 6-30-59, Cl. 57-88.
- Whitehorn, Walter: See—  
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- Whitehouse, Karl C., and H. Z. Lecher, to American Cyanamid Co. 2-amino-5-chloro-4-tolyl phosphonic acid. 2,894,024, 7-7-59, Cl. 260-500.
- Whitehurst, Charles E.: See—  
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- Whitehurst, Harry B., to Owens-Corning Fiberglas Corp. Heat treatment of metal-coated glass fibers. 2,880,552, 4-7-59, Cl. 49-77.
- Whitehurst, Harry B., to Owens-Corning Fiberglas Corp. Method of providing glass filaments with a coating of silver. 2,900,274, 8-18-59, Cl. 117-54.
- Whitehurst, Joe R., to Ideal Industries, Inc. Means for feeding slivers to coils. 2,878,527, 3-24-59, Cl. 19-159.
- Whitehurst, Robert N.: See—  
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- Whiteley, Charles A., to Sperry Rand Corp. Grid manufacturing process. 2,896,307, 7-28-59, Cl. 29-25.14.
- Whiteley, Harold E., to Arvin Industries, Inc. Metal top for ironing tables. 2,906,044, 9-29-59, Cl. 38-137.
- Whiteley, Robert S., and B. V. Molstedt, to Esso Research and Engineering Co. Method and apparatus for handling fluidized solids. 2,881,133, 4-7-59, Cl. 208-164.
- Whiteman, Marvin E. Cement finishing machine. 2,887,934, 5-26-59, Cl. 94-45.
- Whiteman, Russel O.: See—  
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- Whitenack, Taylor D., Jr.: See—  
Schlosser, Carl E., and Whitenack. 2,880,369.
- Whiteneck, Joseph F. Warning light for attaching to an automobile. 2,905,925, 9-22-59, Cl. 340-82.
- Whitener, James W., to Jersey Production Research Co. Washover pipe fluid by-pass sub. 2,906,493, 9-29-59, Cl. 251-346.
- Whitesel, Harry A., and W. R. Bower, to Amana Refrigeration, Inc. Frost attractor for refrigerators. 2,890,574, 6-16-59, Cl. 62-275.
- Whitesel, Lowell E. Drill grinder device. 2,907,149, 10-6-59, Cl. 51-219.
- Whitesell, Albert W. Tree injection device. 2,867,943, 1-13-59, Cl. 47-57.5.
- Whitesell, Harry. Grinding and polishing. 2,910,811, 11-3-59, Cl. 51-267.
- Whiteside, George R.: See—  
Sordaten, Chester G., and Whiteside. 2,907,812.
- Whitfield, Joseph E., to Ingersoll-Rand Co. Generated rotor form. 2,901,164, 8-25-59, Cl. 230-143.
- Whitfield, William A., and J. Weber, Jr. Paint applying means. 2,898,618, 8-11-59, Cl. 15-128.
- Whitham, Frederick H., to Sprague Electric Co. Electrostatic unit for producing printed circuits. 2,914,996, 12-1-59, Cl. 95-17.
- Whitham, Glenn E., to Raytheon Co. Waveform generators. 2,894,213, 7-7-59, Cl. 331-151.
- Whitin Machine Works: See—  
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- Whiting Corp.: See—  
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- Whiting, Herbert G., to Cascades Plywood Corp. Circle cutting machine for woody sheet material. 2,899,991, 8-18-59, Cl. 144-136.
- Whiting, James C., to Orenda Engines Ltd. Pressure relief blow-out device. 2,918,941, 12-29-59, Cl. 138-92.
- Whiting, William S., Jr. Hand barrows. 2,896,960, 7-28-59, Cl. 250-36.
- Whitley, Ernest M., and J. R. Greer, to Beckman & Whitley, Inc. Quick release valve. 2,877,780, 3-17-59, Cl. 137-70.
- Whitley, James B.: See—  
Millman, Nathan, and Whitley. 2,907,666.
- Whitley, Paul J., to Armco Steel Corp. Conveyor with tracking control. 2,890,046, 6-9-59, Cl. 271-2.6.
- Whitling, Homer C. Individual pocket-size ventilating appliance. 2,910,225, 10-27-59, Cl. 230-259.
- Whitlock Associates, Inc.: See—  
Whitlock, Carl H. 2,890,080.
- Whitlock, Carl H., to Whitlock Associates, Inc. Hopper loaders for finely ground materials. 2,890,080, 6-9-59, Cl. 302-59.
- Whitlock, Edwin B. Corn pickers. 2,901,877, 9-1-59, Cl. 56-104.
- Whitlock, James B. Polishing file. 2,871,630, 2-3-59, Cl. 51-187.
- Whitlock, Robert A., Jr.: See—  
Hull, Dean R., and Whitlock. 2,870,788.
- Whitlow, Verlin T. Automatic safety device for vehicles. 2,888,507, 5-26-59, Cl. 123-146.5.
- Whitman, Craig L., to United States of America, Army. Transmitter frequency control. 2,901,597, 8-25-59, Cl. 250-13.
- Whitman, Gerald M.: See—  
Little, Ernest L., and Whitman. 2,888,476.
- Whitman, Harlan M. Envelope stripping device. 2,880,799, 4-7-59, Cl. 164-36.
- Whitman, Howard E. Smoke generator. 2,902,991, 9-8-59, Cl. 126-59.5.
- Whitman, Stephen, & Son, Inc.: See—  
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- Whitmer, La Verne E.: See—  
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- Whitmire, Le Roy S., to Pittsburgh Plate Glass Co. Apparatus for preparing composite assembly. 2,915,168, 12-1-59, Cl. 198-131.
- Whitmire, William E. Combination opener and dispenser for cardboard containers with inner containers. 2,877,932, 3-17-59, Cl. 222-85.
- Whitmore, Charles F., to General Motors Corp. Air conditioning system controls. 2,916,892, 12-15-59, Cl. 62-161.
- Whitmore, Charles H.: See—  
Crane, Robert L., Cleland, and Whitmore. 2,898,669.
- Whitmore, Donald L. Hair curling device. 2,888,019, 5-26-59, Cl. 132-40.
- Whitmore, Harland W., to Amana Refrigeration, Inc. Refrigerator crisper pan assembly. 2,896,813, 7-28-59, Cl. 220-94.
- Whitmore, Horace B. Filter unit. 2,878,942, 3-24-59, Cl. 210-346.
- Whitmore, Quentin R., to United States of America, Navy. Combined ram jet and rocket engine. 2,912,820, 11-17-59, Cl. 60-35.6.
- Whitmoyer Laboratories, Inc.: See—  
Lux, Russell E., and Brubaker. 2,895,874.
- Whitney Blake Co., The: See—  
Judisch, Carl H. 2,909,990.  
Quackenbush, Edward C. 2,881,479.
- Whitney, Charles A., to Pratt & Whitney Co., Inc. Pneumatic strain gage. 2,875,611, 3-3-59, Cl. 73-141.
- Whitney, Donald B.: See—  
Gunter, Roy C., Jr., Whitney, and Haynes. 2,897,722.
- Whitney, Donald W. Inflatable decorative lantern. 2,871,343, 1-27-59, Cl. 240-10.
- Whitney, Dorothy M.: See—  
Anigstein, Ludwik, Whitney, and Micks. 2,912,359.
- Whitney, Edgar H.: See—  
Ball, Arthur F., Goldbaum, and Whitney. 2,906,039.
- Whitney, George W. Barrel positioner for automatic pistol. 2,889,753, 6-9-59, Cl. 89-160.
- Whitney, George W., to The Youngstown Sheet and Tube Co. Pump plunger and method of making same. 2,891,830, 6-23-59, Cl. 309-4.
- Whitney, Gilbert C., Jr., to Foster Wheeler Corp. Expansion joint assembly. 2,913,010, 11-17-59, Cl. 138-50.
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- Whitney, Gordon E., to International Business Machines Corp. Intermediate magnetic core storage. 2,877,449, 3-10-59, Cl. 340-174.
- Whitney, James F. Power transmission apparatus. 2,915,017, 12-1-59, Cl. 103-120.
- Whitney, Kenneth L., to American Viscose Corp. Converting bulk filament into staple fiber. 2,908,043, 10-13-59, Cl. 19-6.
- Whitney, Kenneth L., to American Viscose Corp. Staple fiber crimping apparatus. 2,908,044, 10-13-59, Cl. 19-66.
- Whitney, Maurice P.: See—  
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- Whitney, Robert G.: *See*—  
Beck, Eugene P., Jefferies, and Whitney. 2,887,283.  
Nelson, John F., Warner, and Whitney. 2,869,738.  
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- Whitney, Robert W.: *See*—  
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- Whitney, Theodore R.: *See*—  
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- Whitney, Walter D. Sanding mandrel. 2,892,292, 6-30-59, Cl. 51-190.
- Whitney, Wiley: *See*—  
Abbott, George F., Jr., Krom, Mehring, and Whitney. 2,894,072.
- Whitney, William B., to Phillips Petroleum Co. Production of petroleum sulfonates. 2,909,563, 10-20-59, Cl. 260-504.
- Whiton, Arthur L., to Chicago Mill and Lumber Co. Crate. 2,910,221, 10-27-59, Cl. 229-23.
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- Whitson, Walter, to General American Transportation Corp. Setscrew having annular biting edge and central conical point. 2,907,245, 10-6-59, Cl. 85-1.
- Whitson, Walter F.: *See*—  
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- Whittaker, Clyde A., and R. E. Donegon, to United States of America, Navy. Measurement of underwater pressure variations. 2,890,411, 6-9-59, Cl. 324-59.
- Whittaker Controls, a Division of Telecomputing Corp.: *See*—  
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- Whittell, Alfred, Jr. Thermostatic flow governor. 2,884,197, 4-28-59, Cl. 236-12.
- Whittemore, Osgood J., Jr., to Norton Co. Calcium oxide articles and method of making the same. 2,876,122, 3-3-59, Cl. 106-63.
- Whitten, Owen M., to Kelsey-Hayes Co. Sealing cup. 2,884,291, 4-28-59, Cl. 309-23.
- Whitten, Owen M., to Kelsey-Hayes Co. Compensation and pumping valve. 2,911,004, 11-3-59, Cl. 137-512.2.
- Whittier, Donald W. Mail box accessory. 2,868,444, 1-13-59, Cl. 232-45.
- Whittier, Sidney B.: *See*—  
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- Whittier, Sidney B., to Polaroid Corp. Camera shutter mechanism. 2,877,697, 3-17-59, Cl. 95-53.3.
- Whittingham, David J., and A. F. McKay, to Monsanto Canada Ltd. Rubber accelerators. 2,881,169, 4-7-59, Cl. 260-243.
- Whittington, William E., to Collins Radio Co. Soldering jig for mechanical filters. 2,869,498, 1-20-59, Cl. 113-99.
- Whittle, Arthur. Reversible paint roller pan. 2,917,764, 12-22-59, Cl. 15-121.2.
- Whittle, Frank, to Shell Development Co. Hydraulic turbine with by-pass valve. 2,879,032, 3-24-59, Cl. 255-4.
- Whittle, Frank, to Shell Development Co. Well drilling apparatus. 2,901,221, 8-25-59, Cl. 255-4.
- Whittle, Robert L.: *See*—  
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- Whitworth, Sir W. G., Armstrong Aircraft Ltd.: *See*—  
Lightbody, Alexander, and Johnston. 2,898,856.
- Wholey, Gordon W.: *See*—  
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- Whyte, Daniel D.: *See*—  
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- Whyte Mfg. Co., Inc.: *See*—  
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- Whyte, Ronald H., and N. J. Pansing, to General Motors Corp. Seal for rotary drum drier. 2,886,901, 5-19-59, Cl. 34-133.
- Whyte, Ronald H., and R. T. Clement, to General Motors Corp. Hamper bag for laundry appliances. 2,904,897, 9-22-59, Cl. 34-90.
- Wiancko, Thomas H. Relay circuit. 2,901,673, 8-25-59, Cl. 315-228.
- Wiant, Hugh. Combination burner nozzle. 2,914,257, 11-24-59, Cl. 239-401.
- Wibbens, Virgil J., to United States Rubber Co. Method of making reinforced footwear. 2,880,467, 4-7-59, Cl. 18-58.
- Wiberg, Egon: *See*—  
Sperr, Fritz, and Wiberg. 2,909,550.
- Wiberg, Raymond F., and F. J. Silhavy, to Harper-Wyman Co. Thermostatic control for gas burners. 2,892,349, 6-30-59, Cl. 73-368.
- Wichita Clutch Co., Inc.: *See*—  
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- Wichita Precision Tool Co., Inc.: *See*—  
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- Wichman, Merle A., to American Can Co. Divider and divided tray. 2,900,120, 8-18-59, Cl. 229-15.
- Wichmann, Hans-Joachim, to Metrawatt, Fabrik elektrischer Messgeräte. Electrical relay. 2,879,353, 3-24-59, Cl. 200-110.
- Wichterle, Otto: *See*—  
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- Wick, Georg, and R. Wolf,  $\frac{1}{2}$  to K. Schroeder. Fuel injection pump. 2,912,935, 11-17-59, Cl. 103-38.
- Wick, Helmut: *See*—  
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- Wick, Jerome J., to United States of America, Atomic Energy Commission. Electrolytic cladding of zirconium on uranium. 2,905,599, 9-22-59, Cl. 204-1.5.
- Wick, Manfred: *See*—  
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- Wick, Waldemar J.: *See*—  
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- Wick, Waldemar J., to Kolmar Laboratories, Inc. Three-phase lipstick composition. 2,873,229, 2-10-59, Cl. 167-85.
- Wickert, Charles J.: *See*—  
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- Wickes Machine Tool, Division of The Wickes Corp.: *See*—  
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Kendall, George A., and Hess. 2,918,180.
- Wickham, Henry P., to The M. W. Kellogg Co. Conversion process and apparatus with plural stages and intermediate stripping zone. 2,883,332, 4-21-59, Cl. 208-74.
- Wickham, Henry P., and J. B. Osborne, to The M. W. Kellogg Co. Fluidized hydrocarbon conversion system with an improved regenerator distributor. 2,891,001, 6-16-59, Cl. 208-163.
- Wickland, Edward B. Grinding tool. 2,890,550, 6-16-59, Cl. 51-184.4.
- Wicklitz, John E.: *See*—  
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- Wickliff, Lee R., to Armour and Co. Packaging apparatus. 2,918,771, 12-29-59, Cl. 53-189.
- Wickman, Helmer W.: *See*—  
Hendrickson, Severin B., and Wickman. 2,895,632.
- Wickman Ltd.: *See*—  
Adcock, John L. 2,902,585.  
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- Wicks, Ernest A.: *See*—  
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- Widakowich, Marius. Commutation of contact converters. 2,870,394, 1-20-59, Cl. 321-49.
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- Widdowson, William: *See*—  
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- Wideburg, Allen C. and C. C. Bread dispenser. 2,919,051, 12-29-59, Cl. 221-131.
- Wideburg, Curt C.: *See*—  
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- Widell, George M., and J. M. Eastman, to Bendix Aviation Corp. Harmonic exciter valve. 2,880,760, 4-7-59, Cl. 138-37.
- Widen, John. Snaplock on knife blade protector. 2,901,823, 9-1-59, Cl. 30-151.
- Widenmeier, George W., to Vanant Co., Inc. Packaging box. 2,908,437, 10-13-59, Cl. 229-39.
- Widess, Moses B., to Pan American Petroleum Corp. Seismic signal-to-noise ratio. 2,897,476, 7-28-59, Cl. 340-15.
- Widess, Moses B., and K. Dyk, to Pan American Petroleum Corp. Seismic surveying with shear waves. 2,880,816, 4-7-59, Cl. 181-5.
- Widmann, Adolf A., to National Machine Products Co. Hollow-adjusting screw having radially projecting thread locking portions. 2,869,607, 1-20-59, Cl. 151-14.
- Widmer, Emil C., to Curtiss-Wright Corp. Thermal time delay switch. 2,915,608, 12-1-59, Cl. 200-122.
- Widmer, Gustav: *See*—  
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- Widmer, Gustav, to Ciba Ltd. Dry preparations capable of yielding cation-active melamine resin solutions by dissolution in water and ripening and process for their manufacture. 2,918,453, 12-22-59, Cl. 260-67.6.
- Widmer, Hans U., to Societe financiere d'Expansion Commerciale et Industrielle S.A. "Sfindex." Process for making interpenetrating machine parts adapted for relative displacement. 2,904,879, 9-22-59, Cl. 29-423.
- Widmer, Paul, to General Motors Corp. Telescopic stay for automotive vehicle lift gate and the like. 2,916,176, 12-8-59, Cl. 217-60.
- Widmer, Thomas F.: *See*—  
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- Widmont, Joseph C., Jr.: *See*—  
Gordo, Fred L., and Widmont. 2,910,045.
- Widolf, Philip R.: *See*—  
Monroe, Everett A., and Widolf. 2,910,063.
- Widzer, Arthur S., to The B. F. Goodrich Co. Bag-filling machine. 2,912,283, 11-10-59, Cl. 302-29.
- Wieber, George L., to Illinois Tool Works. Threadless stud adapted for insertion in keyhole slot. 2,875,663, 3-3-59, Cl. 85-8.6.
- Wieber, William H.: *See*—  
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- Wieberdink, Ate, to North American Philips Co., Inc. Beam splitter comprising colour separating planoparallel plates. 2,889,735, 6-9-59, Cl. 88-1.
- Wieberdink, Ate, to North American Philips Co., Inc. Amplifier for a wide frequency band more particularly video frequency amplifiers. 2,901,560, 8-25-59, Cl. 179-171.
- Wieczorek, Eugene E., to In-Sink-Erator Mfg. Co. Housing assembly for waste disposal unit. 2,868,465, 1-13-59, Cl. 241-285.



- Wieczorek, Eugene E., to In-Sink-Erator Mfg. Co. Baffle and stopper for waste disposal unit. 2,875,958, 3-3-59, Cl. 241-100.5.
- Wieczorek, Eugene E., to In-Sink-Erator Mfg. Co. Automatic starting and reversing switch. 2,898,417, 8-4-59, Cl. 200-80.
- Wieczorek, Eugene E., to In-Sink-Erator Mfg. Co. Disposal unit. 2,917,246, 12-15-59, Cl. 241-32.5.
- Wiedemann, Erwin: *See*—
- Ott, Josef, Hackel, Hummel, Wiedemann, and Sigel. 2,914,362.
- Wiedemann, Erwin, to Saul & Co., as Nominee of Fidelity Union Trust Co., executive trustee under Sandoz Trust. Hook-up for alternating current commutator motor-operated laboratory centrifuges. 2,899,619, 8-11-59, Cl. 318-269.
- Wiedemann, Eugen, to Aktiengesellschaft Brown Boveri & Cie. Turbo-generator with gas cooling in closed cycle. 2,887,593, 5-19-59, Cl. 310-58.
- Wiedemann, Martin F., Jr. Portable baptistry. 2,869,140, 1-20-59, Cl. 4-1.
- Wiedenbein, Roger G.: *See*—
- Hulton, Charles S., Mullenhagen, and Wiedenbein. 2,897,601.
- Wiedenmann, Hans: *See*—
- Schilling, Werner, Bahrs, and Wiedenmann. 2,873,518.
- Wiedenmann, Hans, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. Method of making miniature lamps. 2,914,371, 11-24-59, Cl. 316-20.
- Wiedenroth, Harry A. Chimney draft regulator. 2,900,893, 8-25-59, Cl. 98-67.
- Wiederkehr, Karl P.: *See*—
- Hansen, Harding B., Sealey, Stenersen, and Wiederkehr. 2,870,525.
- Wiedmann, John A., to A. W. Cash Co. Fluid control. 2,878,830, 3-24-59, Cl. 137-599.
- Wiedmann, Ludwig: *See*—
- Straub, Hermann, Beig, Maier, and Wiedmann. 2,889,530.
- Wiedorn, Paul H., to National Foam System, Inc. Fire extinguishing foam discharge nozzle. 2,868,301, 1-13-59, Cl. 169-15.
- Wiedorn, Paul H., to National Foam System, Inc. Anti-clogging means for the intake of a fluid suction device. 2,886,181, 5-12-59, Cl. 210-460.
- Widow, James C., to Monsanto Chemical Co. Wetting and dispersing agents containing a water-soluble lignosulfonic acid salt. 2,893,913, 7-7-59, Cl. 167-42.
- Wiegand, David E., to Armour Research Foundation of Illinois Institute of Technology. Coil-less playback head. 2,918,534, 12-22-59, Cl. 179-100.2.
- Wiegand, David E., to Armour Research Foundation of Illinois Institute of Technology. Magnetic pick-up head. 2,918,535, 12-22-59, Cl. 179-100.2.
- Wiegand, Edward A. Structural units for buildings. 2,879,557, 3-31-59, Cl. 20-15.
- Wiegand, Edwin L., Co., The: *See*—
- Ammerman, George E. 2,881,302.
- Boggs, Alben C. 2,873,347.
- Boggs, Alben C. 2,876,322.
- Calhoun, Ernest N. 2,899,529.
- Drugmand, Lester D. 2,873,342.
- Drugmand, Lester D., and McOrlly. 2,899,666.
- McOrlly, Joseph. 2,867,955.
- McOrlly, Joseph C., and Ammerman. 2,877,334.
- Thomson, William L. 2,917,616.
- Wiegand, Frank F.: *See*—
- Furrer, Rudolf H., and Wiegand. 2,877,772.
- Wiegand, Henry L., to I-T-E Circuit Breaker Co. Recirculating water system for cooling electrical components. 2,917,685, 12-15-59, Cl. 317-234.
- Wiegand, John R. Interceptor transformer. 2,872,653, 2-3-59, Cl. 336-221.
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- Wiegand, Paul E., to The Chalfant Products Co., Inc. Cable rack. 2,905,416, 9-22-59, Cl. 248-58.
- Wiegand, Paul E. Cable clamp. 2,918,240, 12-22-59, Cl. 248-71.
- Wiegand, Herbert F., to Monsanto Chemical Co. Fractional crystallization process. 2,912,469, 11-10-59, Cl. 260-650.
- Wiegmann, Dietrich,  $\frac{1}{2}$  to P. Tobler, d. b. a. Trans-Oceanic. Umbrella anchor. 2,873,829, 2-17-59, Cl. 189-92.
- Wiegatz, Fred G.: *See*—
- Cleaver, John C., Grobecker, and Wiegatz. 2,890,737.
- Wiehl, Ferdinand T.: *See*—
- Coven, Murray, and Wiehl. 2,898,968.
- Wieland, Hans C. P., to Wieland-Werke A. G. Continuous casting mold, its manufacture and use. 2,871,530, 2-3-59, Cl. 22-57.2.
- Wieland, Hans C. P., to Wieland-Werke A. G. Method of continuous casting. 2,871,534, 2-3-59, Cl. 22-200.1.
- Wieland, Harry H., to Duro Metal Products Co. Separable mountings for electric motors or the like. 2,911,700, 11-10-59, Cl. 24-263.
- Wieland, Peter: *See*—
- Reichstein, Tadeusz, Wettstein, Anner, Billeter, Heusler, Neher, Schmidlin, Ueberwasser, and Wieland. 2,904,545.
- Wieland-Werke A. G.: *See*—
- Wieland, Hans C. P. 2,871,530.
- Wieland, Hans C. P. 2,871,534.
- Wielicki, Edward A.: *See*—
- Koch, Walter T., Lytton, and Wielicki. 2,892,814.
- Wieneke, Wilhelm, to Firma Bettermann Elektro G. m. b. H. Device for driving tempered steel into walls, ceilings or the like. 2,874,383, 2-24-59, Cl. 1-47.
- Wiener, Albert, to Manufacture de Bandes Plâtres Adhesia. Method of manufacturing bandages or other adhesive plaster articles for surgical, orthopedic or medical purposes, and articles in accordance with those obtained. 2,914,421, 11-24-59, Cl. 117-62.
- Wiener, Isadore: *See*—
- Bloom, Eli H., and Wiener. 2,874,487.
- Wiener, Jerome B.: *See*—
- Armstrong, Philip N., and Wiener. 2,905,465.
- Wiener Metallwaren- und Schnallenfabrik Schar-Smolka: *See*—
- Rehacek, Alois. 2,867,446.
- Wiener, Robert, to Globe-Union Inc. Printed electronic circuit. 2,877,389, 3-10-59, Cl. 317-101.
- Wiener, Warren A.: *See*—
- Sorel, Nathan, and Wiener. 2,900,519.
- Wienert, Fritz O., to Union Carbide Corp. Preparation of ore and method of heat treatment. 2,869,850, 1-20-59, Cl. 263-52.
- Wienert, Fritz O., to R-N Corp. Method of producing sponge iron. 2,880,083, 3-31-59, Cl. 75-33.
- Wienola, Oiva A., to United States of America, Air Force. Insert turbine nozzle. 2,879,029, 3-24-59, Cl. 253-78.
- Wienold, George N., G. S. Pfeiffer, and D. E. Hermanson, to Stewart-Warner Corp. Magnetic impact generator base fuze. 2,893,321, 7-7-59, Cl. 102-70.2.
- Wiens, Jacob H., 30% to R. C. Lawlor. Aerial reconnaissance system. 2,891,108, 6-16-59, Cl. 178-6.7.
- Wiese, Harold H.: *See*—
- Gannett, Wright K., and Wiese. 2,911,837.
- Wiese, Henry C., and W. E. Thompson, to General Motors Corp. Welding apparatus. 2,876,331, 3-3-59, Cl. 219-78.
- Wiese, Herbert K.: *See*—
- Banes, Fred W., and Wiese. 2,894,976.
- Gessler, Albert M., Wiese, and Rehner. 2,906,722.
- Morway, Arnold J., and Wiese. 2,880,174.
- Wiese, Theodore O., and S. Wilder, Jr., to General Motors Corp. Turbine blade cooling. 2,873,944, 2-17-59, Cl. 253-39.15.
- Wieser, Emil. Tweezer type cable-stripper. 2,901,933, 9-1-59, Cl. 81-9.5.
- Wieser, Friedrich, to Hytakos A. G. Device for tying a thread round an object and for knotting the thread ends. 2,873,133, 2-10-59, Cl. 289-5.
- Wiesner, Lawrence L. Door safety devices. 2,867,858, 1-13-59, Cl. 20-16.
- Wiesner-Rapp Co., Inc.: *See*—
- Roubloff, Alexander D. 2,884,819.
- Wiggins, Alpha M., to Electro-Voice, Inc. Higher order pressure gradient microphone system having adjustable polar response pattern. 2,896,189, 7-21-59, Cl. 340-6.
- Wiggins, E. B., Oil Tool Co., Inc.: *See*—
- Torres, Jorge U., and Adam. 2,888,278.
- Wiggins, John H. Piston for gas storage tank. 2,882,137, 4-14-59, Cl. 48-176.
- Wiggins, William H. Portable electric starter for internal combustion engine. 2,909,065, 10-20-59, Cl. 74-8.
- Wigham, William E., F. Lane, and A. R. Wilson, to Phillips Petroleum Co. Fluid flow sensing and control apparatus. 2,868,225, 1-13-59, Cl. 137-503.
- Wight, Carlyle G.: *See*—
- Fleck, Raymond N., and Wight. 2,881,862.
- Wight, Delano: *See*—
- Repke, Edward P., and Wight. 2,877,916.
- Wight, Delano, to Clark Equipment Co. Industrial lift truck. 2,910,204, 10-27-59, Cl. 214-730.
- Wight, Leland W., to General Railway Signal Co. Dragging equipment detecting system for railroads. 2,896,069, 7-21-59, Cl. 246-169.
- Wigner, Eugene P.: *See*—
- Ohlinger, Leo A., Wigner, Weinberg, and Young. 2,890,158.
- Szilard, Leo, Wigner, and Creutz. 2,886,503.
- Wigner, Eugene P., to Esso Research and Engineering Co. Conducting hydrocarbon conversions in nuclear reactors. 2,905,610, 9-22-59, Cl. 204-193.
- Wigner, Eugene P., L. Szilard, and E. C. Creutz, to United States of America, Atomic Energy Commission. Jacketed fuel element. 2,872,401, 2-3-59, Cl. 204-193.2.
- Wigner, Eugene P., L. A. Ohlinger, G. J. Young, and A. M. Weinberg. Means for shielding and cooling reactors. 2,873,243, 2-10-59, Cl. 204-193.2.
- Wigner, Eugene P., L. A. Ohlinger, G. J. Young, and A. M. Weinberg, to United States of America, Atomic Energy Commission. Reactor shield. 2,874,307, 2-17-59, Cl. 250-108.
- Wiig, Chester M.: *See*—
- Littell, Frederick M., and Wiig. 2,902,826.
- Wijchman, Jan, to North American Philips Co., Inc. Device for adjusting the air-gap position of magnetic heads. 2,897,288, 7-28-59, Cl. 179-100.2.
- Wijkman, Bengt L., to Telefonaktiebolaget L M Ericsson. Contact device. 2,894,095, 7-7-59, Cl. 200-104.
- Wijnberg, Simon: *See*—
- Pero, Johannes G., Wijnberg, and Honing. 2,901,658.



- Wijomenga, Harry G.: *See*—  
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- Wiken, Ralph, to The Falk Corp. Divided power transmissions. 2,873,615, 2-17-59, Cl. 74—410.
- Wikkenhauser, Gustav, to Kelvin & Hughes Ltd. Fluid current indicators. 2,878,672, 3-24-59, Cl. 73—189.
- Wiklund, Carl H., to Airequip Mfg. Co., Inc. Slide viewer and magazine therefor. 2,877,580, 3-17-59, Cl. 40—79.
- Wiklund, Carl H., to Airequip Mfg. Co., Inc. Adapter frame. 2,895,242, 7-21-59, Cl. 40—63.
- Wiklund, Carl H., to Airequip Mfg. Co., Inc. Automatic actuating mechanism for photographic slides and the like. 2,915,840, 12-8-59, Cl. 40—79.
- Wikoff, Ramon F., and C. G. Turk, to The Thew Shovel Co. Ball bearing. 2,893,792, 7-7-59, Cl. 308—199.
- Wiktor, Dominik, to Federal Pacific Electric Co. Circuit breakers. 2,876,309, 3-3-59, Cl. 200—88.
- Wilbert, Godfrey: *See*—  
Abraham, Milton E., and Wilbert. 2,884,415.
- Wilbespan Research Labs., Inc.: *See*—  
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- Wilborn, John C. Automatic wheel balancer. 2,909,389, 10-20-59, Cl. 301—5.
- Wilbricht, Arthur E. Clothes pin basket. 2,901,016, 8-25-59, Cl. 150—1.8.
- Wilbrink, Karel: *See*—  
Schonberg, Endre, and Wilbrink. 2,882,186.
- Wilbur, Donald A.: *See*—  
Peters, Philip H., Jr., and Wilbur. 2,886,786.
- Wilburn, Edgar H.: *See*—  
Lockhart, Marshall L. 2,893,390.
- Wilburn, Edgar H. Sterilized and sterilizable hypodermic syringe assembly featuring a detached needle. 2,879,766, 3-31-59, Cl. 128—218.
- Wilchinsky, Zigmund W., and C. E. Thompson, to Esso Research and Engineering Co. Desorption of zeolitic molecular sieves using ammonia. 2,899,379, 8-11-59, Cl. 208—95.
- Wilckens, Eibe A., to Crown Cork & Seal Co., Inc. Apparatus for applying plastic liners to closures. 2,881,475, 4-14-59, Cl. 18—20.
- Wilckens, Eibe A., to Crown Cork & Seal Co., Inc. Cap assembling apparatus. 2,887,973, 5-26-59, Cl. 113—80.
- Wilckens, Eibe A., W. C. Rainer, and E. M. Redding, to Crown Cork & Seal Co., Inc. Charge depositing mechanism for closure liner applying apparatus. 2,870,479, 1-27-59, Cl. 18—5.
- Wilcock, John E.: *See*—  
Jellyman, Philip E., Macintosh, and Wilcock. 2,870,244.
- Wilcolator Co., The: *See*—  
Dahlgren, John V. S. 2,872,535.  
Dahlgren, John V. S., and Rothwell. 2,880,292.  
Diebold, Anton. 2,892,910.  
Reiter, Sydney H. 2,880,614.
- Wilcox, Clifton P., to E. I. du Pont de Nemours and Co. Cellulosic pellicle and method of preparation. 2,917,397, 12-15-59, Cl. 106—168.
- Wilcox, Clinton S.: *See*—  
Auer, John H., Jr., Wilcox and Hoff. 2,896,068.
- Wilcox, David H., II: *See*—  
Montgomery, Donald N., Lovelace, and Wilcox. 2,917,709.
- Wilcox, Donald F.: *See*—  
Stewart, Aubrey P., Jr., Johnson, and Wilcox. 2,886,450.
- Wilcox, Donald F., to Foremost Dairies, Inc. Milk product having low sodium content and process of producing same. 2,879,166, 3-24-59, Cl. 99—54.
- Wilcox, Dwight D., Jr., to United States of America, Navy. Pulse gating circuit. 2,892,084, 6-23-59, Cl. 250—27.
- Wilcox, Emily B.: *See*—  
Fuchs, Benjamin H. 2,911,909.
- Wilcox, Francis W. Combination trailer and hoist. 2,879,902, 3-31-59, Cl. 212—8.
- Wilcox & Gibbs Sewing Machine Co.: *See*—  
Backlin, Clarence R. 2,887,970.
- Wilcox, Gordon H., to York Food Machinery Co. Machine for molding pliable plastic materials. 2,915,993, 12-8-59, Cl. 107—15.
- Wilcox, Gordon H., to York Food Machinery Co. Machine for molding pliable plastic materials. 2,915,994, 12-8-59, Cl. 107—15.
- Wilcox, Harry A., to Eastern Industries, Inc. Vehicle detector. 2,885,508, 5-5-59, Cl. 200—86.
- Wilcox, Isaac L.: *See*—  
Horning, Raymond H., and Wilcox. 2,874,888.
- Wilcox, Isaac L. Bottle cop. 2,869,746, 1-20-59, Cl. 215—41.
- Wilcox, Isaac L. Collapsible rectangular container. 2,904,239, 9-15-59, Cl. 229—41.
- Wilcox, Isaac L., A. A. Barnes, C. E. Patch, and R. Spurr, to Oswego Falls Corp. Apparatus for handling flat end closure blanks for cartons. 2,901,950, 9-1-59, Cl. 93—55.1.
- Wilcox, Jack "E." to Philco Corp. Multi-function apparatus for television receivers. 2,877,299, 3-10-59, Cl. 178—7.3.
- Wilcox, John D. Device for cleaning typewriter type. 2,886,841, 5-19-59, Cl. 15—160.
- Wilcox, John F., to Superior Products Mfg. Co. Spout cooling apparatus. 2,909,044, 10-20-59, Cl. 62—389.
- Wilcox, Martin J. Can washer. 2,910,992, 11-3-59, Cl. 134—68.
- Wilcox, Merrill B.: *See*—  
Smith, Robert W., and Wilcox. 2,893,675.
- Wilcox, Merrill B., to Aladdin Mfg. Co. Hand warmer. 2,914,060, 11-24-59, Cl. 126—208.
- Wilcox, Raymond J., to Motor Wheel Corp. Method for forming tubular metal articles. 2,877,546, 3-17-59, Cl. 29—544.
- Wilcox, Richard H. Electronic multiplier data processing circuits. 2,902,219, 9-1-59, Cl. 235—194.
- Wilcox, Stanley W., and W. B. Garrison, to Seismograph Service Corp. Methods and apparatus for determining position. 2,880,413, 3-31-59, Cl. 343—105.
- Wilcox, Walter C., Sr. Method and apparatus for installing cesspools or the like. 2,879,648, 3-31-59, Cl. 61—63.
- Wilcox, William H.: *See*—  
Lubersky, Albert R., and Wilcox. 2,887,022.
- Wilcox, William H., to Fibreboard Paper Products Corp. Carton setting up machine. 2,869,439, 1-20-59, Cl. 93—49.
- Wilcoxon, Kenneth H., to United States of America, Navy. Towed hydrophone. 2,906,992, 9-29-59, Cl. 340—8.
- Wild, Anthony M.: *See*—  
Petrov, Vladimir, Stephenson, and Wild. 2,885,404.
- Wild-Barfield Electric Furnaces Ltd.: *See*—  
Barfield, Robert H., and Gibbs. 2,868,938.
- Wild, Jack: *See*—  
Morgan, Mervyn, Wild, and Duncan. 2,903,692.
- Wild, Julius D.,  $\frac{1}{2}$  to G. E. Nicholson. Neck tie clasp. 2,890,508, 6-16-59, Cl. 24—49.
- Wild, Otto, Jr.: *See*—  
Bliss, Harvey N., and Wild. 2,869,791.
- Wild, Rolf H.: *See*—  
Janson, Stefan K., Wild, and Elliott. 2,887,808.
- Wild, Rolf H., to Olin Mathieson Chemical Corp. Cut-off device for a magazine firearm. 2,871,603, 2-3-59, Cl. 42—17.
- Wild, Walter, and W. Eberl, to Siemens & Halske Akt. Symmetrical cables, more particularly coaxial or symmetrical plane cables for transmission of high frequency current. 2,894,226, 7-7-59, Cl. 333—96.
- Wilde, Arthur E., Jr., to Curtiss-Wright Corp. Speed and phase synchronizers. 2,887,621, 5-19-59, Cl. 317—6.
- Wilde, Dale K., C. M. Morris, and K. E. Hanft, to United States of America, Army. Ruggedized high frequency electron tube. 2,885,588, 5-5-59, Cl. 313—247.
- Wilde, Edward H., to United States of America, Air Force. Digital to analog servosystem. 2,915,688, 12-1-59, Cl. 318—28.
- Wilde, Frederick G., to Paragon-Revolute Corp. Quartz lamp mounting. 2,906,901, 9-29-59, Cl. 313—23.
- Wilde, Frederick G., to Paragon-Revolute Corp. Gas developing machine for photosensitive sheets. 2,909,980, 10-27-59, Cl. 95—94.
- Wilde, William V. Suspended ceiling grid construction. 2,896,752, 7-28-59, Cl. 189—36.
- Wilder, Coleman D.: *See*—  
Macwood, George E., Wilder, and Altman. 2,879,130.
- Wilder, Edward A., to S. C. Johnson & Son, Inc. Wax fortified paint and varnish compositions. 2,893,964, 7-7-59, Cl. 260—19.
- Wilder, Justin E., to Penn Controls Inc. Oil burner control. 2,887,152, 5-19-59, Cl. 158—28.
- Wilder, Stuart, Jr.: *See*—  
Wiese, Theodore O., and Wilder. 2,873,944.
- Wilderman, Charles E.: *See*—  
Rank Travers L., and Wilderman. 2,882,775.
- Wildes, Carl: *See*—  
Shoglow, Harry. 2,895,041.
- Wildhaber, Ernest. Cam-type differential. 2,873,619, 2-17-59, Cl. 74—650.
- Wildhaber, Ernest. Universal joint. 2,891,392, 6-23-59, Cl. 64—8.
- Wildhaber, Ernest. Method and apparatus for producing helical gears. 2,897,634, 8-4-59, Cl. 51—52.
- Wildhaber, Ernest. Method and apparatus for grinding gears. 2,910,808, 11-3-59, Cl. 51—55.
- Wildhaber, Ernest. Universal joint. 2,911,805, 11-10-59, Cl. 64—21.
- Wildhaber, Ernest. Universal joint. 2,914,930, 12-1-59, Cl. 64—21.
- Wildhaber, Ernest. Hob. 2,916,803, 12-15-59, Cl. 29—103.
- Wildhaber, Ernest. Universal joint. 2,917,911, 12-22-59, Cl. 64—21.
- Wildhaber, Ernest. Bevel-gear differential. 2,918,831, 12-29-59, Cl. 74—711.
- Wildi, Bernard S.: *See*—  
Erickson, Floyd B., Heimsch, Wildi, and Patrick. 2,867,666.  
Gash, Virgil W., and Wildi. 2,883,404.  
Sharp, Dexter B., and Wildi. 2,883,427.
- Wildi, Bernard S., to Monsanto Chemical Co. Dihydroxy steroid derivatives and method of preparing same. 2,883,424, 4-21-59, Cl. 260—586.
- Wildi, Bernard S., to Monsanto Chemical Co. 3-keto-4-aza- $\Delta^5$ -steroids and method of preparing same. 2,897,202, 7-28-59, Cl. 260—287.
- Wildi, Bernard W., to Monsanto Chemical Co.  $\Delta^{22}$ -3- $\beta$ -acyloxy-8,9- $\alpha$ -oxido-7,11-diketo-ergosterones. 2,875,197, 2-24-59, Cl. 260—239.55.
- Wildman, Charles: *See*—  
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- Wildman Jacquard Co.: *See*—  
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Miller, Charles F., and Lyster, 2,895,317.
- Wildt and Co. Ltd.: *See*—  
Saunders, Alfred P., 2,879,652.
- Wildt, Fred. Runway sweeper. 2,896,246, 7-28-59, Cl. 13-105.
- Wile, Daniel D., and S. R. Adachi, to Refrigeration Engineering, Inc. Air conditioning system. 2,887,856, 5-26-59, Cl. 62-426.
- Wiley, Bruce F., to Phillips Petroleum Co. Flow measuring apparatus. 2,880,613, 4-7-59, Cl. 73-155.
- Wiley, Bruce F., to Phillips Petroleum Co. Apparatus for detecting leaks from well bores. 2,904,112, 9-15-59, Cl. 166-63.
- Wiley, Bruce F., and H. M. Barton, Jr., to Phillips Petroleum Co. Detection of an electrolyte liquid in a stream of non-conductive, non-electrolyte liquid. 2,882,914, 4-21-59, Cl. 137-2.
- Wiley, Emmett H.: *See*—  
Fridrich, Elmer G., and Wiley. 2,883,571.  
Levand, Victor A., and Wiley. 2,868,609.
- Wiley, Emmett H., to General Electric Co. Electric lamp. 2,904,714, 9-15-59, Cl. 313-113.
- Wiley, Fred E., to Tober Baseball Mfg. Co., Inc. Method of applying plastic composition covers to baseballs. 2,879,179, 3-24-59, Cl. 117-94.
- Wiley, Frederick H., and F. A. Bellingher, to International Harvester Co. Safety device for electric lift truck. 2,902,105, 9-1-59, Cl. 180-82.
- Wiley, Paul F.: *See*—  
McCowen, Max C., and Wiley. 2,893,914.
- Wiley, Ralph M., to The Dow Chemical Co. Method of polymerizing a monoethylenically unsaturated vinylidene compound in aqueous suspension. 2,875,185, 2-24-59, Cl. 260-91.7.
- Wiley, Ralph M., to The Dow Chemical Company. Clay thickened suspension polymerization process with plug flow. 2,886,559, 5-12-59, Cl. 260-91.7.
- Wiley, Richard T., to Morris, Wheeler & Co., Inc. Manually-operatable jib cranes. 2,877,905, 3-17-59, Cl. 212-63.
- Wiley, Robert D., to Master Pneumatic, Inc. Air line lubricator. 2,878,895, 3-24-59, Cl. 184-55.
- Wiley, Robert E.: *See*—  
Swanson, Walter S., Wiley, and McGee. 2,877,676.
- Wiley, Verlis H., J. P. Rug, and L. S. Trefethen, to Sylvania Electric Products Inc. Automobile headlight control system. 2,890,387, 6-9-59, Cl. 315-83.1.
- Wiley, William C., to Bendix Aviation Corp. Electron switch. 2,882,399, 4-14-59, Cl. 250-27.
- Wilfert, Grace. Dressmaker ruler and marking device. 2,903,795, 9-15-59, Cl. 33-2.
- Wilfert, Karl: *See*—  
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Barényi, Béla, and Wilfert. 2,900,491.
- Wilfert, Karl, to Daimler-Benz Akt. Rotary distributing valve for a motor vehicle heating and ventilating system. 2,867,238, 1-6-59, Cl. 137-625.46.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Torsion rod spring system for vehicles especially motor vehicles. 2,915,321, 12-1-59, Cl. 280-124.
- Wil Flo Co.: *See*—  
Waller, Loren B., 2,919,054.
- Wilgus, Donovan R.: *See*—  
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- Wilhelm, Edward T.: *See*—  
Tessmer, Ernest H., and Wilhelm. 2,915,404.
- Wilhelm, George: *See*—  
Wilhelm, Joseph A. and G., Warnat, and Zink. 2,877,790.
- Wilhelm, Harley A.: *See*—  
Spedding, Frank H., Wilhelm, and Keller. 2,903,351.
- Wilhelm, Harley A., and R. A. Foos, to United States of America, Atomic Energy Commission. Niobium-tantalum separation. 2,871,092, 1-27-59, Cl. 23-23.
- Wilhelm, Harley A., and R. E. Rundle, to United States of America, Atomic Energy Commission. Thorium-carbon alloys. 2,872,307, 2-3-59, Cl. 75-122.7.
- Wilhelm, Harley A., D. Peterson, and R. F. Russi, Jr., to United States of America, Atomic Energy Commission. Zirconium alloy. 2,872,310, 2-3-59, Cl. 75-177.
- Wilhelm, Herbert, to Siemens and Halske Aktiengesellschaft Berlin and Munich. Polarized switching contact device. 2,907,846, 10-6-59, Cl. 200-93.
- Wilhelm, John R.: *See*—  
Walulik, Albert, and Wilhelm. 2,884,133.
- Wilhelm, Joseph A. and G., E. Warnat, and J. Zink. Self-closing valve for tap bushings of kegs. 2,877,790, 3-17-59, Cl. 137-320.
- Wilhelm, Keith A.: *See*—  
Parvin, Robert, and Wilhelm. 2,886,991.
- Wilhelm, Robert J., and C. A. Waugaman, to The B. F. Goodrich Co. Method of making breathable vinyl resin coated fabric. 2,894,855, 7-14-59, Cl. 117-103.
- Wilhelm, Vincent A., and H. Moreines, to Bendix Aviation Corp. Gyro erection cutout delay circuit. 2,875,619, 3-3-59, Cl. 74-5.41.
- Wilhelmi, Carl J.: *See*—  
Tinsman, Jack R., 2,880,430.
- Wilhelmsen, Carl R., to Hazeltine Research, Inc. Automatic-gain-control system utilizing constant current source. 2,912,572, 11-10-59, Cl. 250-20.
- Wilhelmson, Donald A., to General Electric Co. Speed and acceleration responsive device. 2,868,911, 1-13-59, Cl. 200-61.46.
- Wilk, Stanley H., and R. Cuzzone, to General Electric Co. Mechanical pressure relief device. 2,869,579, 1-20-59, Cl. 137-467.
- Wilk, Stanley H., and E. D. O'Neil, to General Electric Co. Transformer core clamp connector. 2,910,663, 10-27-59, Cl. 336-210.
- Wilkata Codes, Inc.: *See*—  
Leavens, William B., Jr. 2,872,590.
- Wilke, William J. Coiling device. 2,888,214, 5-26-59, Cl. 242-25.
- Wilkendorf, Ehrhardt: *See*—  
Frank, Hubert, and Wilkendorf. 2,908,553.
- Wilkensong Mfg. Co.: *See*—  
Pien, Hsia-Si. 2,877,072.
- Wilkenloh, Wilhelm, E. Jäger, and F. Kuenapfel, to Rhein-stahl Wanheim Gesellschaft mit beschränkter Haftung. Prop and conveyer arrangement for mines. 2,910,281, 10-27-59, Cl. 262-1.
- Wilkins, Gunter G.: *See*—  
Stava, Robert J., Reininger, and Wilkins. 2,901,632.
- Wilkins, Henry J., and L. Dolinko, to Vacap Corp. High voltage variable vacuum capacitor. 2,889,501, 6-2-59, Cl. 317-245.
- Wilkins, William G., to Universal Castings Corp. Method of and means for casting metals under the influence of vacuum. 2,908,054, 10-13-59, Cl. 22-73.
- Wilkinson, Erik A. Stereoscopic range finder, particularly for cameras. 2,918,855, 12-29-59, Cl. 95-44.
- Wilkinson Corp.: *See*—  
Wilkerson, Dewey L., 2,869,570.
- Wilkerson, Dewey L., to Wilkerson Corp. Air line automatic drain valve. 2,869,570, 1-20-59, Cl. 137-204.
- Wilkerson, Edward D. Conduit protecting sheath. 2,870,242, 1-20-59, Cl. 174-135.
- Wilkerson, Edward D. Bicycle braking system. 2,871,988, 2-3-59, Cl. 188-26.
- Wilkerson, Edward D. Hydraulic brake system bleeding and refilling apparatus. 2,872,951, 2-10-59, Cl. 141-94.
- Wilkerson, Edward D. Apparatus for correcting collision damage. 2,901,022, 8-25-59, Cl. 153-32.
- Wilkerson, Jefferson R.: *See*—  
Tollefson, Robert D., and Wilkerson. 2,892,943.
- Wilkerson, Jefferson R., R. D. Tollefson, and E. G. Fubini, to United States of America, Navy. Ambiguity eliminator. 2,888,670, 5-26-59, Cl. 340-345.
- Wilkes, George P.: *See*—  
Adams, John F. E., Gerber, and Wilkes. 2,899,754.
- Wilkes, Gordon B., Jr., to General Electric Co. Turbo-machine blading and method of manufacture thereof. 2,912,222, 11-10-59, Cl. 253-77.
- Wilkes, Gordon B., Jr., to General Electric Co. Rotor construction. 2,914,297, 11-24-59, Cl. 253-39.15.
- Wilkes, Gordon B., Jr., to General Electric Co. Method of making a blade for turbomachines. 2,916,808, 12-15-59, Cl. 29-156.8.
- Wilkes, Reuben. Drill calibrator and sorter. 2,902,152, 9-1-59, Cl. 209-122.
- Wilkes, Wesley H., to Boeing Airplane Co. Interior finish for aircraft cabins or the like. 2,912,724, 11-17-59, Cl. 20-4.
- Wilki, John L., to Socony Mobil Oil Co., Inc. Compact mass surface level control. 2,903,420, 9-8-59, Cl. 208-167.
- Wilkie, Robert C., to Pacific Mills. Process of making yarn. 2,867,077, 1-6-59, Cl. 57-157.
- Wilkie, Robert J., to Continental Machines, Inc. Band saw drive wheel having adjustable band back-up flange. 2,879,813, 3-31-59, Cl. 143-30.
- Wilkie, Wallace J., to Arco Mfg. Corp. Mass deploying apparatus. 2,869,426, 1-20-59, Cl. 89-1.5.
- Wilkins, Charles A. Voltage regulator system. 2,904,644, 9-15-59, Cl. 179-171.
- Wilkins, Charles A., to The Siegler Corp. Control of amplifier source resistance. 2,905,761, 9-22-59, Cl. 179-1.
- Wilkins, Charles L., and R. Y. Multiple conductor service cable insulator. 2,870,237, 1-20-59, Cl. 174-41.
- Wilkins, Earl D., to Kaiser Aluminum & Chemical Corp. Metal clad refractory brick. 2,915,893, 12-8-59, Cl. 72-35.
- Wilkins, Edmond J. Combination article support pedestal and storage compartment. 2,905,515, 9-22-59, Cl. 312-27.
- Wilkins, Floyd V. Adjustable-speed electric motor control system. 2,873,417, 2-10-59, Cl. 318-327.
- Wilkins, Floyd V. Motor-generator power supply systems. 2,897,428, 7-28-59, Cl. 322-36.
- Wilkins, Frank P.: *See*—  
Seamans, Robert C., Jr., Whitaker, Wilkins, and Wingate. 2,868,481.
- Wilkins, Howard W.: *See*—  
Shockey, Newton E., and Wilkins. 2,882,361.
- Wilkins, James M., to A. H. Kaplan. Regulator valve. 2,880,753, 4-7-59, Cl. 137-549.
- Wilkins, John, & Co. Ltd.: *See*—  
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- Wilkins, Lowell A., and H. S. Kane, deceased (F. Kane, administratrix). Portable sound and motion picture camera. 2,910,911, 11-3-59, Cl. 88-16.2.



- Wilkins, Robert E.: *See*—  
Foret, Pierre G., and Wilkins. 2,875,874.
- Wilkins, Ruth Y.: *See*—  
Wilkins, Charles L., and R. Y. 2,870,237.
- Wilkinson, Cecil H., Jr. Centrifuge. 2,893,627, 7-7-59, Cl. 233-14.
- Wilkinson, Cyril F., H. A. H. Jenkins, L. T. Lake, and S. V. Radcliffe, to Parker Rust Proof Co. Method of forming phosphate coatings on drawn wire. 2,875,111, 2-24-59, Cl. 148-6.15.
- Wilkinson, Donald G.: *See*—  
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Slinger, Frank H., Wilkinson, and Howard. 2,884,422.
- Wilkinson, Donald G., to Imperial Chemical Industries, Ltd. Phthaloperine derivatives. 2,884,423, 4-28-59, Cl. 260-256.4.
- Wilkinson, George, and W. A. Eaton, to The Quaker Oats Co. Vitamin fortified canned-fish animal food. 2,873,194, 2-10-59, Cl. 99-188.
- Wilkinson, Herbert F.: *See*—  
Deering, Roland F., and Wilkinson. 2,895,887.
- Wilkinson, Horace A., to Concrete Industries Engineering Development Pty. Ltd. Batch mixer. 2,884,232, 4-28-59, Cl. 259-32.
- Wilkinson, James D., and C. P. Sedlock. Transportation seat support. 2,916,082, 12-8-59, Cl. 155-50.
- Wilkinson, Leonard A., to Sylvania Electric Products Inc. Shutter mechanism. 2,901,955, 9-1-59, Cl. 95-60.
- Wilkinson, Robert E., to Rostone Corp. Method of producing a molded article. 2,877,499, 3-17-59, Cl. 18-47.5.
- Wilkinson Sword Ltd.: *See*—  
Mathisen, Anders. 2,884,076.  
Mathisen, Anders. 2,885,505.  
Mathisen, Anders. 2,912,054.
- Wilkinson, Walter R. Cigarette and match pack dispenser. 2,868,603, 1-13-59, Cl. 312-42.
- Wilkinson, William C., Jr., to Radio Corp. of America. Surface waveguide transition section. 2,867,776, 1-6-59, Cl. 333-21.
- Wilkinson, William K., to E. I. du Pont de Nemours and Co. Copolymerization of vinyl aryl sulfonates in the presence of glycols. 2,900,370, 8-18-59, Cl. 260-79.3.
- Wilks, Louis P.: *See*—  
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Trademan, Leo, Malina, and Wilks. 2,875,120.  
Trademan, Leo, Malina, and Wilks. 2,875,121.
- Wilks, Ralph, to Wool Industries Research Association. Apparatus for inserting twist into a twistless sliver simultaneously with its feed into a drafting head for twisted slivers. 2,886,939, 5-19-59, Cl. 57-51.
- Will-Burt Co., The: *See*—  
Baer, Edward G. 2,873,617.
- Will Corp.: *See*—  
Koelle, Otto. 2,894,393.  
Zapp, Franz J. 2,867,510.
- Will, Elizabeth: *See*—  
Du Bois, Arthur E., and Will. 2,888,682.
- Will, Theodore, to Fund-Ed Inc. Guided pull tab ejector. 2,876,930, 3-10-59, Cl. 221-260.
- Will, William B. Construction elevator. 2,870,900, 1-27-59, Cl. 198-72.
- Willach, Bernhard: *See*—  
Rose, Alexander D., Willach, and Hall. 2,883,085.
- Willard, David S., to United States of America, Air Force. Safety baroswitch. 2,883,485, 4-21-59, Cl. 200-83.
- Willard, Dennis D., to International Business Machines Corp. Electro-sensitive digital data plotter. 2,869,965, 1-20-59, Cl. 346-74.
- Willard, Dennis D., to International Business Machines Corp. Image transmission system. 2,895,079, 7-14-59, Cl. 315-153.
- Willard, Dennis D., to International Business Machines Corp. Differential interlock for servo system. 2,901,738, 8-25-59, Cl. 340-174.
- Willard, Dennis D., and G. V. A. Malmros, to International Business Machines Corp. Radiation responsive devices. 2,907,886, 10-6-59, Cl. 250-213.
- Willard, George B.: *See*—  
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- Willard, Herbert B.: *See*—  
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- Willard, Joe R., and J. F. Henahan, to Food Machinery and Chemical Corp. Pesticidal phosphorus esters. 2,873,228, 2-10-59, Cl. 167-22.
- Willard, Joe R., and J. F. Henahan, to Food Machinery and Chemical Corp. Pesticidal phosphorus esters. 2,877,152, 3-10-59, Cl. 167-22.
- Willard, Joe R., and J. F. Henahan, to Food Machinery and Chemical Corp. Pesticidal phosphorus esters. 2,882,198, 4-14-59, Cl. 167-30.
- Willard, Joe R., and J. F. Henahan, to Food Machinery and Chemical Corp. Pesticidal phosphorus esters. 2,916,415, 12-8-59, Cl. 167-22.
- Willard, John E.: *See*—  
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- Willard, Theodore L.: *See*—  
Hydro, William R., and Willard. 2,894,942.
- Willardson, Robert, and A. C. Beer, to The Battelle Development Corp. Switching circuits and methods. 2,889,492, 6-2-59, Cl. 317-11.
- Willat, Arnold F. Sheet paper dispensing device. 2,885,112, 5-5-59, Cl. 221-33.
- Willcox, Frederick P., to Fairchild Camera and Instrument Corp. Camera shutter having two sets of blades. 2,878,735, 3-24-59, Cl. 95-63.
- Willcox, Frederick P., L. F. Welanetz, R. J. Autere, and J. S. Hellen, to Fairchild Camera and Instrument Corp. Variable ratio photoelectric engraving machine. 2,875,275, 2-24-59, Cl. 178-6.6.
- Willcox & Gibbs Sewing Machine Co.: *See*—  
Perkins, Frederick I. 2,885,979.  
Tamburro, Francis P. 2,910,024.
- Willcox, Julian: *See*—  
Ritter, Darrell L., Blocker, and Willcox. 2,886,265.
- Willcraft Hosiery Mills, Inc.: *See*—  
Cox, Harold E. 2,884,774.
- Willdorf, Michael E.: *See*—  
Fields, Lester E., and Willdorf. 2,914,643.
- Wille, Adolf: *See*—  
Weinert, Hans, and Wille. 2,867,303.
- Wille, Edward L. Sander with an adjustable guide. 2,887,831, 5-26-59, Cl. 51-186.
- Wille, Hans, and R. Oberkobusch, to Gesellschaft fuer Teerverwertung M.B.H. Process of producing technical grade quinoline. 2,916,492, 12-8-59, Cl. 260-283.
- Wille, Herbert S., and V. W. Damm, to Kayneer Co. Sash construction. 2,871,524, 2-3-59, Cl. 20-56.4.
- Willemain, Louis F. Grass catcher clamping device. 2,914,829, 12-1-59, Cl. 24-81.
- Willems, Peter. Flow apparatus for the continuous physical and/or chemical treatment of substances. 2,882,149, 4-14-59, Cl. 92-20.
- Willems, Peter, Mills, particularly granulating and colloid mills. 2,903,197, 9-8-59, Cl. 241-146.
- Willenbacher, Thomas H. Trigger safety device for firearms. 2,914,877, 12-1-59, Cl. 42-70.
- Willems, Robert A. A., to British Celanese Ltd. Production of voluminous yarn. 2,890,568, 6-16-59, Cl. 57-157.
- Willer, Bert M., deceased, by L. L. F. Willer, executrix. Color television receiver and picture tube. 2,892,116, 6-23-59, Cl. 313-92.
- Willer, Leila L. F.: *See*—  
Willer, Bert M. 2,892,116.
- Willert, August W.: *See*—  
Irwin, George C. 2,879,847.
- Willet, Richard H.: *See*—  
Butler, William F., and Willet. 2,915,062.
- Willet, John A.: *See*—  
Dexter, Robert G., and Willet. 2,901,249.
- Willet, John A., to Davidson Corp. Method of composing type and type and backing element therefor. 2,878,122, 3-17-59, Cl. 96-43.
- Willet, Leon E., and F. R. Smith, to Chamberlin Co. of America. Emergency releasable locking means. 2,886,960, 5-19-59, Cl. 70-92.
- Willet, William M.: *See*—  
Potter, Leon M., and Willet. 2,878,925.
- Willetts, Elwood H., C. B. Ingram, and L. E. Watson; said Ingram and said Watson assors. to said Willetts. Mobile irrigator or sprinkler. 2,889,993, 6-9-59, Cl. 239-111.
- Willey, Frank G.: *See*—  
Blackstone, Henry, and Willey. 2,878,712.
- Willey, Frank G., to Servo Corp. of America. Optical scanning system. 2,878,710, 3-24-59, Cl. 88-1.
- Willey, Frank G., to Servo Corp. of America. Video display device. 2,911,876, 11-10-59, Cl. 88-1.
- Willey, Frank G., and F. D. Greenleaf, to Servo Corp. of America. Aircraft velocity-altitude meter. 2,918,581, 12-22-59, Cl. 250-83.3.
- Willey, George L., and P. Hey. Quaternary ammonium salts of dialkylaminoalkyl phenyl ethers. 2,895,995, 7-21-59, Cl. 260-567.6.
- Willey, Grant S., to United States Gypsum Co. Process of humidifying hardboard. 2,904,893, 9-20-59, Cl. 34-23.
- Willhauck, Everett L. Emergency fuel stop for Diesel engines. 2,869,530, 1-20-59, Cl. 123-140.
- Willi, Richard B., to Baldwin-Lima-Hamilton Corp. Operating mechanism for adjustable blade propeller. 2,913,057, 11-17-59, Cl. 170-160.32.
- Williams, Aaron W., to United States of America, Atomic Energy Commission. Inspection means for induction motors. 2,877,408, 3-10-59, Cl. 324-51.
- Williams, Albert. Adjustable glare shields and mirror attachments for automobile visors. 2,894,576, 7-14-59, Cl. 160-220.
- Williams, Albert J., Jr., to Leeds and Northrup Co. System for adjusting amplifiers. 2,919,409, 12-29-59, Cl. 330-9.
- Williams, Alfred L. W., and J. M. Heinrich, to Clevite Corp. Weapon. 2,889,796, 6-9-59, Cl. 114-20.
- Williams, Alfred L. W., and C. K. Gravley, to Clevite Corp. Cellular ceramic electromechanical transducers. 2,892,107, 6-23-59, Cl. 210-8.
- Williams, Allison R.: *See*—  
Reswick, James B., and Williams. 2,892,660.
- Williams, Allison R. Brake control system. 2,907,607, 10-6-59, Cl. 303-21.
- Williams, Allison R. Brake control system. 2,913,072, 11-17-59, Cl. 188-181.
- Williams, Arthur J. Open-mouth air-bound applicator for liquid materials such as inks, cosmetics and other liquid preparations. 2,898,019, 8-4-59, Cl. 222-551.



- Williams, Arthur L., to The Federal Machine and Welder Co. Alternatively usable rotary and longitudinal material guiding means. 2,868,265, 1-13-59, Cl. 153-54.
- Williams, Arthur L., and J. F. Deffenbaugh, to The Federal Machine and Welder Co. Electric resistance welder. 2,908,803, 10-13-59, Cl. 219-84.
- Williams, Arthur R.: *See—*
- Hidalgo, John, Williams, and Halverstadt. 2,871,258.
- Williams, Arthur T., and C. R. Tidland, to Tidland Machine Co. Doctor blade grinder. 2,875,558, 3-3-59, Cl. 51-131.
- Williams, Barney B. Cigarette package. 2,910,175, 10-27-59, Cl. 206-41.
- Williams, Benjamin N. Anchoring device for masonry building structures. 2,903,879, 9-15-59, Cl. 72-101.
- Williams, Bess P.: *See—*
- Williams, Harold E. 2,908,107.
- Williams, Betty R., and L. S. Bull. Nursing bottle holder. 2,880,950, 4-7-59, Cl. 248-102.
- Williams, Beverly E., to Hodges Research and Development Co. Diathermal tenderizing of meat. 2,870,018, 1-20-59, Cl. 99-107.
- Williams, Bill M., and L. F. Berhenke, to The Dow Chemical Co. 2-(carboxymethoxy) phenyliminodiacetic acids. 2,892,867, 6-30-59, Cl. 260-519.
- Williams Brothers Co.: *See—*
- Lewis, Jesse M. Re. 24,601.
- Williams, Byron L., Jr., and H. M. Culbertson, to Monsanto Chemical Co. Aminoplasts. 2,914,508, 11-24-59, Cl. 260-67.6.
- Williams, Byron L., Jr., and H. M. Culbertson, to Monsanto Chemical Co. Aminoplast-modified alkyd resin coating compositions. 2,916,467, 12-8-59, Cl. 260-21.
- Williams, Carl. Tag printing machine. 2,889,771, 6-9-59, Cl. 101-301.
- Williams, Carl B.: *See—*
- Watson, Stanley A., and Williams. 2,868,778.
- Williams, Charles F.: *See—*
- Stanley, John C., Moore, Frazier, and Williams. 2,899,930.
- Williams, Charles H.: *See—*
- Sample, James H., and Williams. 2,890,185.
- Williams, Charles P.: *See—*
- Bickel, Ferdinand D., and Williams. 2,908,847.
- Williams, Charles R.: *See—*
- Magnuson, Vernon P., Hagen, and Williams. 2,912,160.
- Williams, Charles W., Jr.: *See—*
- Rowland, George H., and Williams. 2,911,303.
- Williams, Charlie C. Rod type antenna. 2,886,814, 5-12-59, Cl. 343-900.
- Williams, Chester I. Adjustable scaffold bracket. 2,916,245, 12-8-59, Cl. 248-242.
- Williams, Chester P.: *See—*
- Wheeler, Gershon J., and Williams. 2,877,425.
- Williams, Clarence R., to Atlantic Service Co., Inc. Meat chopper knife assembly having different degrees of wear characteristics. 2,916,069, 12-8-59, Cl. 146-189.
- Williams, Clifford L. Mechanical dancing dolls. 2,911,084, 11-3-59, Cl. 194-12.
- Williams, Clyde K., to The Whirlaway Tire Corp. Heavy duty vehicle tire. 2,878,853, 3-24-59, Cl. 152-323.
- Williams, Curtis A.: *See—*
- Hartman, George M., and Williams. 2,890,461.
- Williams, Daniel S. Toe grip safety skate. 2,901,259, 8-25-59, Cl. 280-11.19.
- Williams, David J., and K. H. Westley, to Ericsson Telephones Ltd. Discharge devices for electronic counting and like purposes. 2,896,118, 7-21-59, Cl. 315-84.6.
- Williams, Dean L., to Rome Cable Corp. Apparatus for serving a strand on a travelling core. Re. 24,592, 1-20-59, Cl. 57-18.
- Williams, Delbert A. Portable safe. 2,911,814, 11-10-59, Cl. 70-14.
- Williams, De Wayne M.: *See—*
- Overton, Albert E. 2,884,038.
- Williams, Don A., Jr., to Bendix Aviation Corp. Ramp wave generator. 2,915,650, 12-1-59, Cl. 307-88.5.
- Williams, Donald D.: *See—*
- Berke, Nicholas E., Williams, and Fox. 2,891,720.
- Williams, Donald F. Method and apparatus for forming containers. 2,888,862, 6-2-59, Cl. 93-43.
- Williams, Donald L., and J. W. Allen, to Tawco Products, Inc. Multiple row root crop harvester. 2,911,051, 11-3-59, Cl. 171-28.
- Williams, Earl C.: *See—*
- Pietrowicz, Edwin J., and Williams. 2,917,875.
- Williams, Earl E. Abrasive fluid pump. 2,881,709, 4-14-59, Cl. 103-150.
- Williams, Earl P.: *See—*
- Mayhew, Raymond L., Copes, and Williams. 2,898,301.
- Williams, Edred B., to Sherman Products, Inc. Bale density control device. 2,902,922, 9-8-59, Cl. 100-43.
- Williams, Edward. Roll-on applicator. 2,892,202, 6-30-59, Cl. 15-132.5.
- Williams, Edward J., L. G. Dean, and C. W. McCutchen, to The Dow Chemical Co. Electrolytic production of magnesium metal. 2,888,389, 5-26-59, Cl. 204-70.
- Williams, Edward R., 1/2 to E. E. Williams. Method of treating water. 2,915,463, 12-1-59, Cl. 210-59.
- Williams, Edwin C. Stereo training unit. 2,897,816, 8-4-59, Cl. 128-76.5.
- Williams, Eleanor: *See—*
- Williams, Walter C. 2,881,876.
- Williams, Ella E.: *See—*
- Williams, Edward R. 2,915,463.
- Williams, Elmer W., and H. J. Bowman, to Trent Tube Co. Process for butt welding. 2,874,263, 2-17-59, Cl. 219-61.
- Williams, Ernest C. Pivoted anchor bracket for adjustable knee brace. 2,898,071, 8-4-59, Cl. 248-242.
- Williams, Ernest E., and B. M. Ward, to Petro-Flow Corp. Oil well heater. 2,893,490, 7-7-59, Cl. 166-60.
- Williams, Evan T. Lamp shade frame. 2,900,496, 8-18-59, Cl. 240-138.
- Williams, Everard M. Automatic sweeping and jamming radio equipment. 2,885,543, 5-5-59, Cl. 250-13.
- Williams, Everard M., and C. P. Porterfield, to Firth Sterling Inc. Spark machining apparatus. 2,868,947, 1-13-59, Cl. 219-69.
- Williams, Ferd E., to General Electric Co. Radiant energy intensification system and method. 2,909,703, 10-20-59, Cl. 315-10.
- Williams, Forrest V., to Monsanto Chemical Co. Separation of ortho- and para-methylstyrene. 2,904,606, 9-15-59, Cl. 260-669.
- Williams, Fred G., Jr., to Beckman Instruments, Inc. Apparatus for applying a liquid sample. 2,868,020, 1-13-59, Cl. 73-432.
- Williams, Frederic C., to National Research Development Corp. Transistor binary adder. 2,895,673, 7-21-59, Cl. 235-164.
- Williams, Frederic C., T. Kilburn, and G. R. Hoffman, to National Research Development Corp. Electrostatic information-storage systems. 2,888,586, 5-26-59, Cl. 313-68.
- Williams, Frederic C., T. Kilburn, and A. A. Robinson, to International Business Machines Corp. Multiplying arrangements for digital computing machines. 2,892,588, 6-30-59, Cl. 235-166.
- Williams, Frederic C., T. Kilburn, D. B. G. Edwards, and G. E. Thomas, to International Business Machines Corp. Computer storage data handling control apparatus. 2,913,175, 11-17-59, Cl. 235-157.
- Williams, George A. Fishing kit. 2,914,881, 12-1-59, Cl. 43-23.
- Williams, George A. H.: *See—*
- Oxley, Peter, Bristow, Williams, Woolfe, and Wilmshurst. 2,904,590.
- Oxley, Peter, Bristow, Woolfe, and Williams. 2,912,438.
- Williams, George L., to Hughes Aircraft Co. Multiple-rate compressible liquid spring. 2,904,328, 9-15-59, Cl. 267-1.
- Williams, George R., Jr.: *See—*
- Stovall, Elmo G., and Williams. 2,917,976.
- Williams, George W.: *See—*
- Ames, Robert G. 2,889,699.
- Ames, Robert G. 2,889,965.
- Williams, George W., III: *See—*
- Ames, Robert G. 2,889,857.
- Williams, Gerald L., to Sperry Rand Corp. Diode switching circuits. 2,877,451, 3-10-59, Cl. 340-174.
- Williams, Gerald J., to Ford Motor Co. Adjustable motion transmitting linkage. 2,906,140, 9-29-59, Cl. 74-473.
- Williams, Gilbert A., and A. Firth, to Imperial Chemical Industries Ltd. Crystallization apparatus. 2,897,061, 7-28-59, Cl. 23-273.
- Williams, Glenn S., to Bethlehem Steel Co. Pusher means for feeding articles relative to a threading spindle including motor control means responsive to failure of the pusher means to advance. 2,869,154, 1-20-59, Cl. 10-139.
- Williams, Gorman S., deceased; M. J. Williams, executrix, to herself individually. Hydraulic pumping jack for oil wells. 2,869,469, 1-20-59, Cl. 103-46.
- Williams, Gwyn E.: *See—*
- Davy, Geoffrey S. and Williams. 2,880,256.
- Williams, Harold E., 1/2 to B. P. Williams. Method of producing insulating pads for upholstery. 2,908,107, 10-13-59, Cl. 45-138.
- Williams, Harry, and W. A. Gey, to United States of America, Navy. Igniter for gas generator grains and propellants. 2,900,242, 8-18-59, Cl. 52-14.
- Williams, Harry, and W. C. Holliday, to Wheslco Ltd. Means for guiding a work head over a work piece. 2,900,486, 8-18-59, Cl. 219-125.
- Williams, Herald J., Jr. Heating device. 2,911,512, 11-3-59, Cl. 219-38.
- Williams, Herbert B., C. H. von Tesmar, and J. Renner, to National Distillers and Chemical Corp. Electrolysis cell. 2,913,387, 11-17-59, Cl. 204-247.
- Williams, Herbert H., Jr.: *See—*
- Lipes, Alvin W., and Williams. 2,898,600.
- Williams, Herschel A.: *See—*
- Gauthier, William D., and Williams. 2,878,058.
- Williams & Hill Ltd.: *See—*
- Hill, Richard F. H. 2,877,684.
- Williams, Hillman L.: *See—*
- Beck, Morris B., and Williams. 2,907,545.
- Williams, Hugh T.: *See—*
- Davidson, Samuel H., Love, and Williams. 2,869,462.
- Williams, Ira: *See—*
- Behre, Johannes, and Williams. 2,873,919.
- Williams, Jack L. R.: *See—*
- Davison, Joseph W., Williams, and Koble. 2,905,734.
- Van Allan, James A., and Williams. 2,882,150.



- Williams, Jack L. R., to Eastman Kodak Co. Photographic process using light-sensitive polymeric quaternary salts. 2,908,667, 10-13-59, Cl. 260—79.3.
- Williams, Jack L. R., and K. R. Dunham, to Eastman Kodak Co. Manufacture of polyesters under controlled varying agitation. 2,904,534, 9-15-59, Cl. 260—75.
- Williams, Jack R., and R. A. Koble, to Phillips Petroleum Co. Purification of gases. 2,909,038, 10-20-59, Cl. 62—17.
- Williams, James C., to Deering Milliken Research Corp. Tensioning means. 2,869,802, 1-20-59, Cl. 242—156.1.
- Williams, James R. Articulator conveyor chain. 2,884,118, 4-28-59, Cl. 198—189.
- Williams, James W., 3rd: *See*—  
Kinderman, Walter J., and Williams. 2,869,371.
- Williams, James W., III, to Yarnall-Waring Co. Linear movement remote control servosystem. 2,899,615, 8-11-59, Cl. 318—22.
- Williams, Jesse E., to Olin Mathieson Chemical Corp. Tool for driving powder-actuated fasteners. 2,869,127, 1-20-59, Cl. 1—106.
- Williams, John C., Jr.: *See*—  
Close, Charles D., Rossi, and Williams. 2,882,037.
- Williams, John E.: *See*—  
Keese, Beverly W., and Williams. 2,915,920.
- Williams, John G.: *See*—  
Boardman, Thaddeus J., and Williams. 2,913,989.
- Williams, John H.: *See*—  
Luoma, Aarne A., and Williams. 2,890,014.
- Williams, John H.: *See*—  
Mastney, Edward J., and Williams. 2,911,834.
- Williams, John J., Jr. Ice cream spoon dispenser. 2,887,247, 5-19-59, Cl. 221—25.
- Williams, John K.: *See*—  
Cripps, Harry N., and Williams. 2,917,499.
- Williams, John L. Bonnetless gate valve. Re. 24,735, 11-17-59, Cl. 251—326.
- Williams, John L. Stock valve having removable seat. 2,873,943, 2-17-59, Cl. 251—175.
- Williams, John L. Metering valve. 2,883,148, 4-21-59, Cl. 251—205.
- Williams, John L., and S. L. Kum. Corrosion resistant gate valve. 2,893,684, 7-7-59, Cl. 251—328.
- Williams, John N. Autopsy instrument. 2,876,776, 3-10-59, Cl. 128—303.
- Williams, John R., to Selas Corp. of America. Radiant heat fuel burner. 2,870,829, 1-27-59, Cl. 158—113.
- Williams, John R., to Selas Corp. of America. Fire check. 2,913,320, 11-17-59, Cl. 48—192.
- Williams, John R., and C. A. McFadden, to Selas Corp. of America. Burner. 2,888,980, 6-2-59, Cl. 158—116.
- Williams, John S. Golf putter apparatus. 2,898,109, 8-4-59, Cl. 273—163.
- Williams, Joseph H., and E. E. McDole, to Kaiser Aluminum & Chemical Corp. Method and apparatus for treating apparatus for rapid quenching of metals. 2,867,226, 1-6-59, Cl. 134—199.
- Williams, Katherine A.: *See*—  
Ames, Robert G. 2,889,857.
- Williams, Lawrence S., to Toledo Scale Corp. Ball bearing. Re. 24,686, 8-18-59, Cl. 308—193.
- Williams, Lawrence S., to Toledo Scale Corp. Ball bearing scale pivots. 2,895,726, 7-21-59, Cl. 265—27.
- Williams, Leo C., to Miehl-Goss-Dexter, Inc. Rotary valve structure. 2,898,937, 8-11-59, Cl. 137—633.
- Williams, Leslie A., to Eastman Kodak Co. Photographic silver halide emulsions containing thiol compounds. 2,887,378, 5-19-59, Cl. 96—67.
- Williams, Lewis C. Garland construction and method. 2,880,540, 4-7-59, Cl. 41—10.
- Williams, Lyle N., to General Motors Corp. Lamp assembly and lens securing means. 2,876,340, 3-3-59, Cl. 240—41.55.
- Williams, Lynn A., to Anocut Engineering Co. Coolant applicator. 2,899,781, 8-18-59, Cl. 51—267.
- Williams, Lynn A., Jr.: *See*—  
Keeler, George F., and Williams. 2,905,605.
- Williams, Mary Jo: *See*—  
Williams, Gorman S., and M. J. 2,869,469.
- Williams, Mason I. Haploscope. 2,890,620, 6-16-59, Cl. 88—20.
- Williams, Maurice W., to Combustion Engineering, Inc. Hot water heating system. 2,888,204, 5-26-59, Cl. 237—59.
- Williams, Melvin L. Target holder. 2,890,051, 6-9-59, Cl. 273—102.
- Williams, Merritt T.: *See*—  
Morrison, Stephen C., and Williams. 2,891,149.
- Politi, Edward Y., and Williams. 2,891,159.
- Williams, Mortimer P., and C. T. Kirchner, to E. I. du Pont de Nemours and Co. Process of molding dithiocarbamate slurries which contain guar gum. 2,870,059, 1-20-59, Cl. 167—42.
- Williams, Neal T.: *See*—  
Kompfner, Rudolf, and Williams. 2,916,657.
- Williams, Nigel A. F., to The British Tabulating Machine Co. Ltd. Electronic signal delay circuits. 2,875,336, 2-24-59, Cl. 250—27.
- Williams, Norman C., and R. W. Fishwood, to Power Brake Equipment Co. Air relay valve operable by both input and exhaust control means. 2,880,754, 4-7-59, Cl. 137—620.
- Williams, Norman D.: *See*—  
Ayers, George W., and Williams. 2,900,357.
- Williams, Norman H., and C. T. Hawkes, to Humphreys & Glasgow, Ltd. Apparatus incorporating a vibrating grate. 2,869,991, 1-20-59, Cl. 23—284.
- Williams, Ollie D. Self-adjusting cam bearing or bushing knocker and installer. Re. 24,626, 4-7-59, Cl. 29—275.
- Williams, Orville A., to United Conveyor Corp. Apparatus for and method of handling fine pulverulent material in a vacuum conveyor. 2,873,143, 2-10-59, Cl. 302—17.
- Williams, Orville A., to United Conveyor Corp. Method of and apparatus for feeding hot pulverulent material to a storage bin. 2,877,056, 3-10-59, Cl. 302—53.
- Williams, Oscar: *See*—  
Lockwood, Lawrence W. 2,907,106.
- Williams, Oscar S., and R. S. Tractor cabs. 2,908,531, 10-13-59, Cl. 296—78.
- Williams, Oscar S., and R. S. Windshield for tractor cab. 2,919,155, 12-29-59, Cl. 296—84.
- Williams Patent Crusher and Pulverizer Co., Inc.: *See*—  
Williams, Robert M. 2,913,109.
- Williams, Paul D.: *See*—  
McCullough, Jack A., and Williams. 2,910,607.
- Preist, Donald H., Williams, and Hall. 2,903,614.
- Williams, Paul D., to Eitel-McCullough, Inc. Electron tube. 2,879,428, 3-24-59, Cl. 313—247.
- Williams, Paul D., to Eitel-McCullough, Inc. Method of making electron tubes. 2,882,116, 4-14-59, Cl. 316—19.
- Williams, Paul E., to L. M. Gary. Skiving tool. 2,912,843, 11-17-59, Cl. 69—20.
- Williams, Paul R. Coordination training device for small children. 2,889,149, 6-2-59, Cl. 273—103.
- Williams, Philip B., to The Muter Co. Loud speaker diaphragm. 2,905,260, 9-22-59, Cl. 181—32.
- Williams, Philip S., to Jersey Production Research Co. Pellet impact drilling apparatus. 2,868,509, 1-13-59, Cl. 255—61.
- Williams, Philip S., to Jersey Production Research Co. Secondary recovery process. 2,876,838, 3-10-59, Cl. 166—11.
- Williams, Philip S., to Jersey Production Research Co. Apparatus for obtaining unaltered cores. 2,880,969, 4-7-59, Cl. 255—72.
- Williams, Philip S., to United States of America, Navy. Deferred action batteries. 2,898,394, 8-4-59, Cl. 136—90.
- Williams, Ralph E., to B. F. Gump Co. Conveyor construction. 2,869,714, 1-20-59, Cl. 198—213.
- Williams, Ralph E., to B. F. Gump Co. Continuous feeder apparatus. 2,869,715, 1-20-59, Cl. 198—213.
- Williams, Ralph E., to B. F. Gump Co. Improvement in continuous feeder. 2,869,743, 1-20-59, Cl. 214—152.
- Williams, Ray S., to Hagan Chemicals & Controls, Inc. Sequential ratio totalizers. 2,898,929, 8-11-59, Cl. 137—85.
- Williams, Ray S., to Hagan Chemicals & Controls, Inc. Pressure differential device embodying pressure deflectable bellows and means for adjusting the line of action of the bellows. 2,910,092, 10-27-59, Cl. 137—785.
- Williams, Reade, to General Electric Co. High input impedance transistor amplifier. 2,913,671, 11-17-59, Cl. 331—50.
- Williams, Richard A., and J. W. Tiley, to Philco Corp. Semiconductor device. 2,885,571, 5-5-59, Cl. 307—88.5.
- Williams, Richard A., and J. W. Tiley, to Philco Corp. Semiconductive device and method for the fabrication thereof. 2,885,609, 5-5-59, Cl. 317—235.
- Williams, Richard E., to Wilbespan Research Labs., Inc. Tone wheel manufacturing machine. 2,910,299, 10-27-59, Cl. 274—5.
- Williams, Robert A., to Standard Railway Equipment Mfg. Co. Centering device with height adjustment. 2,885,093, 5-5-59, Cl. 213—21.
- Williams, Robert D., to Bell Telephone Laboratories, Inc. Telephone system employing line hunting. 2,904,637, 9-15-59, Cl. 179—18.
- Williams, Robert E.: *See*—  
Klohs, Murl W., Keller, and Williams. 2,870,164.
- McGillem, Clare D., and Williams. 2,867,767.
- Williams, Robert E., to Olin Mathieson Chemical Corp. Manufacture of liquid alkylpentaborane-9. 2,917,547, 12-15-59, Cl. 260—606.5.
- Williams, Robert F., Jr., and C. S. Lowe, to Eastman Kodak Co. Stabilized cellulose ester compositions and process for preparing the same. 2,899,315, 8-11-59, Cl. 106—171.
- Williams, Robert J.: *See*—  
Anthony, Robert C., and Williams. 2,870,477.
- Gaddis, Arden H., Hogberg, and Williams. 2,918,659.
- Hogberg, George G., Lonergan, Thornley, Williams, and Stevens. 2,918,658.
- Williams, Robert J., to Hoover Products, Inc. Christmas tree ornament. 2,877,587, 3-17-59, Cl. 41—10.
- Williams, Robert M.: *See*—  
Gates, Thomas S., and Williams. 2,906,177.
- Jorgensen, Kristen, Williams, and Miller. 2,888,359.
- Williams, Robert M., to Williams Patent Crusher and Pulverizer Co., Inc. Air seal for separating devices. 2,913,109, 11-17-59, Cl. 209—138.
- Williams, Robert S.: *See*—  
Williams, Oscar S., and R. S. 2,908,531.
- Williams, Oscar S., and R. S. 2,919,155.
- Williams, Roger B., Jr., to Sperry Rand Corp. Pulse amplitude equalizing system. 2,871,369, 1-27-59, Cl. 250—214.
- Williams, Roger B., Jr., to Toledo Scale Corp. Integrating conveyor scale. 2,918,269, 12-22-59, Cl. 265—28.



- Williams, Roger F. Gauge. 2,889,708, 6-9-59, Cl. 73—317.
- Williams, Rollie B., to Esso Research and Engineering Co. Process for registering the relative degree of branching of a hydrocarbon material containing alkyl groups and for controlling a process in response to the registration. 2,871,443, 1-27-59, Cl. 324—5.
- Williams, Rollie B., and R. K. Saunders, to Esso Research and Engineering Co. Determination of asphaltic components of petroleum. 2,909,482, 10-20-59, Cl. 208—309.
- Williams, Rollie B., and R. K. Saunders, to Esso Research and Engineering Co. Determination of asphaltic components of petroleum hydrocarbons by measuring the electrical conductivity thereof. 2,909,483, 10-20-59, Cl. 208—309.
- Williams, Russell C., to General Motors Corp. Track roller. 2,877,059, 3-10-59, Cl. 305—1.
- Williams, Russell C., and E. J. Selyem, to General Motors Corp. Bulldozer. 2,875,535, 3-3-59, Cl. 37—144.
- Williams, Russell J., to Bemis Bro. Bag Co. Bag. 2,869,772, 1-20-59, Cl. 229—55.
- Williams, Russell J., to Bemis Bro. Bag Co. Bag. 2,892,580, 6-30-59, Cl. 229—55.
- Williams, Russell J., to Bemis Bro. Bag Co. Bag. 2,906,446, 9-29-59, Cl. 229—62.5.
- Williams, Samuel B., to Chrysler Corp. Rotary regenerator sealing structure. 2,880,972, 4-7-59, Cl. 257—6.
- Williams, Samuel B., to Chrysler Corp. Turbine blade. 2,888,242, 5-26-59, Cl. 253—39.15.
- Williams, Steele D. Apparatus for making fiber mat. 2,890,496, 6-16-59, Cl. 19—155.
- Williams, Steele D. Dilating massager. 2,915,058, 12-1-59, Cl. 128—64.
- Williams, Theo W., to Sylvania Electric Products Inc. Tuner and control. 2,873,610, 2-17-59, Cl. 74—10.45.
- Williams, Thurston V., to The O. K. Tool Co., Inc. Chip breaker for turning machines. 2,877,535, 3-17-59, Cl. 29—96.
- Williams, Thurston V., to The O. K. Tool Co., Inc. Headstock for lathes and the like. 2,909,955, 10-27-59, Cl. 82—40.
- Williams, Thurman V., Jr.: See—  
Levine, Arthur A., and Williams. 2,878,287.
- Williams, Trevor N.: See—  
Bruce, Charles R., and Williams. 2,886,471.
- Williams, Virgil C., and C. W. Ade, to Mississippi River Fuel Corp. Rectification apparatus. 2,918,265, 12-22-59, Cl. 261—9.
- Williams, Walter C., deceased; E. Williams, administratrix, to W. H. Nicholson and Co. Cubicle assembly. 2,881,876, 4-14-59, Cl. 189—34.
- Williams, Warren D., to Sperry Rand Corp. Binder for conductive metallic film. 2,880,181, 3-31-59, Cl. 252—514.
- Williams, William. Plumber's auger. 2,887,703, 5-26-59, Cl. 15—104.3.
- Williams, William A.: See—  
Nuernberger, Eldon L., and Williams. 2,909,343.
- Williams, William A., to T. B. Wood's Sons Co. Flexible couplings for shafts. 2,867,102, 1-6-59, Cl. 64—11.
- Williams, William A., to T. B. Wood's Sons Co. Gripping arrangements for flexible couplings for power transmission shafts. 2,867,103, 1-6-59, Cl. 64—11.
- Williams, William A., to The American Pulley Co. Speed change transmission devices and supports therefor. 2,882,739, 4-21-59, Cl. 74—421.
- Williams, William A., to T. B. Wood's Sons Co. Shaft connectors for power transmission elements. 2,907,597, 10-6-59, Cl. 287—52.04.
- Williams, William A. Chain lubricator and dust guard. 2,909,937, 10-27-59, Cl. 74—230.
- Williams, William H., and D. A. Baldwin, to United States of America, Navy. Submarine bottom scanner. 2,919,423, 12-29-59, Cl. 340—3.
- Williams, William J.: See—  
Rehberg, Richard A., and Williams. 2,912,949.
- Williams, William J. Adjustable differential switch actuator. 2,873,332, 2-10-59, Cl. 200—166.
- Williams, William J. Automatic remote control engine starting system. 2,887,588, 5-19-59, Cl. 290—37.
- Williams, William J. Speed and temperature controlled switching mechanism. 2,904,651, 9-15-59, Cl. 200—80.
- Williams, William T., to North American Aviation, Inc. Quick release fastener. 2,901,804, 9-1-59, Cl. 24—211.
- Williams, William W.: See—  
Freyermuth, Harlan B., and Williams. 2,911,415.  
Kartinos, Nicholas J., and Williams. 2,914,551.  
Strobel, Albert F., and Williams. 2,891,951.
- Williams & Wilson Ltd.: See—  
Lancaster, Arthur W. 2,893,189.  
Lancaster, Arthur W. 2,893,190.  
Lancaster, Arthur W. 2,893,191.
- Williams, Winston F.: See—  
Jacobson, Herbert P., and Williams. 2,886,707.
- Williams, Winston F., to Collins Radio Co. Differential mechanism. 2,896,476, 7-28-59, Cl. 74—724.
- Williamsburg Chair Factory, Inc.: See—  
White, James C. 2,913,739.
- Williamson, Audrey J.: See—  
Gow, Robert S., and Williamson. 2,867,647.
- Williamson, Charles E.: See—  
Dawson, Thomas P., Lovejoy, Williamson, and Witten. 2,913,367.
- Williamson, David T. N., A. T. Shepherd, and G. S. Walker, to Ferranti Ltd. Measuring apparatus. 2,886,717, 5-12-59, Cl. 250—220.
- Williamson, Donald E., to United States of America, Navy. Method and apparatus for aligning radiant energy detector cells with the horizon. 2,874,605, 2-24-59, Cl. 88—14.
- Williamson, Donald E., to Kalvar Corp. Continuous printing device. 2,917,985, 12-22-59, Cl. 95—75.
- Williamson, Donald E., to Kalvar Corp. Belt tensioning device. 2,917,986, 12-22-59, Cl. 95—77.5.
- Williamson, Floyd M. Mechanisms for hydraulically controlling movement of pads in dies. 2,890,669, 6-16-59, Cl. 113—46.
- Williamson, Floyd M. Circulating systems for hydraulic liquid between tanks and cylinders. 2,901,238, 8-25-59, Cl. 267—1.
- Williamson, Floyd M. Hydraulic system for controlling the return movement of pressure pads in air cushion presses. 2,918,272, 12-22-59, Cl. 267—1.
- Williamson, Frederick B., Jr., and E. V. Holland, Jr., to Goodall Rubber Co. Hose coupling having longitudinal locking means. 2,890,900, 6-16-59, Cl. 285—238.
- Williamson, George D., Jr. Portable adjustable drill press. 2,887,910, 5-26-59, Cl. 77—20.
- Williamson, Herbert J. Spray nozzle assembly. 2,899,138, 8-11-59, Cl. 239—77.
- Williamson, John F.: See—  
Gow, Robert S., and Williamson. 2,867,647.
- Williamson, John M. Boat bumper. 2,885,989, 5-12-59, Cl. 114—219.
- Williamson, John S., to Westinghouse Electric Corp. Rotor-periphery and adjacent shredder-ring structure for food waste disposer. 2,870,970, 1-27-59, Cl. 241—260.
- Williamson, John T.: See—  
Billue, Robert F., and Williamson. 2,905,643.
- Williamson, John W. Rotary chopper type hay breaker assembly. 2,889,862, 6-9-59, Cl. 146—119.
- Williamson Mfg. Co. Ltd.: See—  
Woodcock, Edward C. 2,916,979.
- Williamson, Marshall I. Hollow walled folding boxes. 2,893,620, 7-7-59, Cl. 229—34.
- Williamson, Marshall I., to Federal Paper Board Co., Inc. Multicellular carriers. 2,901,157, 8-25-59, Cl. 229—28.
- Williamson, Norman B., to Jarman-Williamson Co. Seat attachment for golf carts. 2,879,831, 3-31-59, Cl. 155—80.
- Williamson, Norman B., to Jarman-Williamson Co. Golf cart. 2,885,215, 5-5-59, Cl. 280—42.
- Williamson, Reginald M.: See—  
Storm, John F., and Williamson. 2,896,454.
- Williamson, Robert S., to Plywood Research Foundation. Automobile top load carrying device. 2,886,271, 5-12-59, Cl. 248—119.
- Williamson, T. D., Inc.: See—  
Ver Nooy, Burton. 2,886,068.  
Ver Nooy, Burton. 2,906,295.  
Ver Nooy, Burton. 2,909,796.
- Williamson, Tom., to The Texas Co. Fluid contact coking of hydrocarbon oils. 2,890,998, 6-16-59, Cl. 208—127.
- Williamson, William R., to Emhart Mfg. Co. Sea water evaporating and distilling plant. 2,885,328, 5-5-59, Cl. 202—167.
- Williford, Jacob V. Rotor for electric motor. 2,870,352, 1-20-59, Cl. 310—162.
- Williford, Oscar H.: See—  
Weinberg, Seymour B., and Williford. 2,911,474.
- Willingham, Herman P. Trawling gear for catching shrimp. 2,890,542, 6-16-59, Cl. 43—9.
- Willingham, John R. Blind hole drill. 2,898,786, 8-11-59, Cl. 77—68.
- Willis, Barry B.: See—  
De Cenzo, Herbert A., and Willis. 2,913,262.
- Willis, Cecil H., to Radio Corp. of America. Automatic soldering apparatus. 2,887,078, 5-19-59, Cl. 113—59.
- Willis, Delbert E., to Mack Trucks, Inc. Clutching mechanism for front axle drive for automotive vehicles. 2,887,201, 5-19-59, Cl. 192—67.
- Willis, Grant N., to Cinch Mfg. Corp. Machine for packaging lugs. 2,898,718, 8-11-59, Cl. 53—196.
- Willis, Grant N., to Arthur G. Russell Co., Inc. Vibratory orienting device. 2,918,163, 12-22-59, Cl. 198—33.
- Willis, Grant N., and L. H. Secombe, Jr., to Cinch Mfg. Corp. Lug inserting machine. 2,897,644, 8-4-59, Cl. 53—247.
- Willis, Henry W.: See—  
Marshburn, James P., and Willis. 2,870,731.
- Willis, Jack K., to General Motors Corp. Force applying lever and linkage system. 2,884,803, 5-5-59, Cl. 74—512.
- Willis, Merville E.: See—  
Hornsby, John W., Letherbury, and Willis. 2,892,314.
- Willis, Newton H., M. E. Erickson, and J. K. Armstrong, to Waukesha Motor Co. Air conditioning system for railway cars and unit-mounting means therefor. 2,902,837, 9-8-59, Cl. 62—239.
- Willis Oil Tool Co.: See—  
Willis, Robert S. 2,870,629.
- Willis, Robert S., 97½% to Willis Oil Tool Co., and 2½% to E. L. Decker. Apparatus for moving an element into and from a vessel containing fluid under pressure. 2,870,629, 1-27-59, Cl. 73—86.



- Willis, Theodore R.: *See*—  
Anderson, William G., and Willis. 2,875,965.
- Willis, Theodore R., to Collins Radio Co. Thyatron biasing circuit. 2,876,353, 3-3-59, Cl. 250-27.
- Willis, Victor M., to The Sherwin-Williams Co. Tinting bases for both oil and water reducible paints. 2,878,135, 3-17-59, Cl. 106-308.
- Willis, William J.: *See*—  
Kaiser, Herman F., Mayes, and Willis. 2,883,569.
- Willison, Donald, to National Malleable and Steel Castings Co. Cushioning device. 2,880,885, 4-7-59, Cl. 213-45.
- Willison, Donald, to National Malleable and Steel Castings Co. Coupler operating mechanism. 2,904,191, 9-15-59, Cl. 213-171.
- Willison, William J., 40% to J. H. Winebrenner. Vehicle emergency brake. 2,868,333, 1-13-59, Cl. 188-4.
- Willits, Charles O.: *See*—  
Naghschi, Joseph, and Willits. 2,880,094.
- Willits, Charles O., J. C. Underwood, and H. G. Lento, to United States of America, Agriculture. Process for making maple product of intensified maple flavor. 2,895,833, 7-21-59, Cl. 99-142.
- Willmott, Herbert J., to United Shoe Machinery Corp. Pressure applying machines. 2,883,685, 4-28-59, Cl. 12-18.5.
- Willmund, Wolf-Dieter: *See*—  
Kirstahler, Alfred, Willmund, and Strauss. 2,905,602.
- Willner, Ernst, to Telefunken G.m.b.H. Manufacture of delicate grids. 2,878,549, 3-24-59, Cl. 29-25.14.
- Wills, Ervin E., to Federal Electric Products Co. Enclosed panelboard mounting. 2,871,284, 1-27-59, Cl. 174-52.
- Wills, Ervin E., to Electric Products Co. Contact assembly. 2,872,659, 2-3-59, Cl. 339-255.
- Wills, Marion C., to Shawnee Mfg. Co., Inc. Bucket and bucket arm control for booms. 2,870,924, 1-27-59, Cl. 214-138.
- Wills, Marion C., to Shawnee Mfg. Co., Inc. Control mechanism for swingable booms. 2,903,142, 9-8-59, Cl. 212-66.
- Wills, Percy, to Wills Pressure Filled Joint Ring Ltd. Joint rings. 2,893,060, 7-7-59, Cl. 18-55.
- Wills Pressure Filled Joint Ring Ltd.: *See*—  
Wills, Percy. 2,893,060.
- Wills, Walter P., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 2,903,678, 9-8-59, Cl. 340-187.
- Willsea, Jasper. Apparatus for silencing the exhaust of internal combustion engines. 2,881,851, 4-14-59, Cl. 181-40.
- Willsey, Charles H. Egg cracking mechanism. 2,895,587, 7-21-59, Cl. 198-27.
- Willsey, Charles H. Mechanism for separating egg whites from egg yolks. 2,900,071, 8-18-59, Cl. 198-229.
- Willsher, Robert V.: *See*—  
Crook, William C. H., and Willsher. 2,883,905.
- Willson, Karl S.: *See*—  
Bence, Lynton, Pugh, and Willson. 2,876,272.
- Willutzky, Kurt: *See*—  
Altrogge, Wilhelm, Willutzky, and Früngel. 2,904,723.
- Willwacher, Erwin, and H. Weber, to Telefunken Gesellschaft fuer drahtlose Telegraphie G.m.b.H. Frequency selector of microwaves. 2,899,647, 8-11-59, Cl. 331-97.
- Willwerth, John H., to Sperry Rand Corp. Distributor cover. 2,902,185, 9-1-59, Cl. 220-31.
- Willyoung, David M., to General Electric Co. Ventilation of end turn portions of generator rotor winding. 2,904,708, 9-15-59, Cl. 310-64.
- Wilman, Sigismund. Tube bending machines. 2,901,930, 9-1-59, Cl. 80-11.
- Wilmarth, Robert W.: *See*—  
Bryant, John H., Peifer, and Wilmarth. 2,894,227.
- Marchese, Theodore J., and Wilmarth. 2,912,616.
- Wil-Mat Corp.: *See*—  
Matthews, John T. 2,895,770.
- Wilmer, Rudolph H.: *See*—  
Ruddell, Allison R., and Wilmer. 2,887,115.
- Ruddell, Allison R., and Wilmer. 2,887,352.
- Willmot-Breeden Ltd.: *See*—  
Harman, Julius. 2,892,653.
- Wilmut Castle Co.: *See*—  
Greppin, Ernest H. 2,880,372.
- Wilms, Carl A., and D. K. Jewell, to J. W. Leslie. Pitting tool. 2,908,305, 10-13-59, Cl. 146-17.
- Wilms, Henry F., and P. D. Golrick, to The Elwell-Parker Electric Co. Side operating die handling industrial truck. 2,880,897, 4-7-59, Cl. 214-514.
- Wilms, Hugo, O. Bayer, and W. Bunge, to Mobay Chemical Co. Lacquer including diisocyanate and polyhydroxy compounds. 2,904,532, 9-15-59, Cl. 260-63.
- Wilmshurst, Eric C.: *See*—  
Oxley, Peter, Bristow, Williams, Woolfe, and Wilmshurst. 2,904,590.
- Wilner, John T., to The Hearst Corp., WBAL Division. Camera tube burn-in prevention. 2,881,248, 4-7-59, Cl. 178-7.2.
- Wilsker, Oscar: *See*—  
Stevens, George H., and Wilsker. 2,890,401.
- Wilsmann, Wilhelm. Feed arrangement for centrifugal separators. 2,869,781, 1-20-59, Cl. 233-45.
- Wilsmann, Wilhelm, to Westfalia Separator A.G. Centrifuge drive arrangement. 2,913,169, 11-17-59, Cl. 233-23.
- Wilson, Albert: *See*—  
Bittner, Louis, and Wilson. 2,885,673.
- Wilson, Albert R., to Monsanto Chemical Co. Water-emulsion paints containing cyanoethylated starch. 2,881,143, 4-7-59, Cl. 260-17.4.
- Wilson, Alexander L.: *See*—  
Morris, Leo, and Wilson. 2,882,265.
- Wilson, Alexander L., to Corn Products Co. Dry stable feed supplement. 2,899,307, 8-11-59, Cl. 99-2.
- Wilson, Alexander T., and D. A. McCaulay, to Standard Oil Co. Conversion process. 2,872,396, 2-3-59, Cl. 204-162.
- Wilson, Allen B., to Acme Steel Co. Roof construction and tile therefor. 2,874,652, 2-24-59, Cl. 108-6.5.
- Wilson, Allen B., to Acme Steel Co. Metal slat folding door. 2,911,037, 11-3-59, Cl. 160-199.
- Wilson, Allen B., and B. P. Coleman, to Acme Steel Co. Sheet metal piling. 2,880,589, 4-7-59, Cl. 61-60.
- Wilson, Allen B., R. D. Keiser, and B. P. Coleman, to Acme Steel Co. Beach landing mat. 2,912,910, 11-17-59, Cl. 94-13.
- Wilson, Alva R.: *See*—  
Wigham, William E., Lane, and Wilson. 2,868,225.
- Wilson, Archibald: *See*—  
Coyle, John H., Wilson, and Vargonicisk. 2,871,899.
- Wilson, Archie S., to United States of America, Atomic Energy Commission. Nitric acid recovery from waste solutions. 2,882,129, 4-14-59, Cl. 23-161.
- Wilson, Arthur O., 1/2 to J. V. Karras. Method and means of securing machine work against a machine table. 2,873,653, 2-17-59, Cl. 90-59.
- Wilson, Arthur V. Automotive vehicle steering wheel. 2,913,923, 11-24-59, Cl. 74-55.2.
- Wilson Athletic Goods Mfg. Co., Inc.: *See*—  
Turner, Archibald J. 2,877,018.
- Wilson, Ben W.: *See*—  
Hunter, Herbert T., and Wilson. 2,867,162.
- Wilson, Benjamin S. Window construction with weather seal. 2,909,813, 10-27-59, Cl. 20-55.
- Wilson, Bernard, to The General Electric Co. Ltd. Frequency modulated series tube phase shift oscillator. 2,917,718, 12-15-59, Cl. 332-27.
- Wilson, Bert A. Roll neck cutting machine. 2,910,904, 11-3-59, Cl. 82-20.
- Wilson, Charles D.: *See*—  
Fleischmann, John J., and Wilson. 2,888,240.
- Wilson, Charles D., to Allis-Chalmers Mfg. Co. Inlet valve supporting and actuating mechanism for elastic fluid turbines. 2,895,491, 7-21-59, Cl. 137-35.
- Wilson, Charles O., Jr.: *See*—  
Haber, Charles P., and Wilson. 2,892,873.
- Wilson, Charles O., Jr., to Olin Mathieson Chemical Corp. Process for the preparation of lower alkyl borates. 2,880,227, 3-31-59, Cl. 260-462.
- Wilson, Charles P., to W. R. Grace & Co. Catalyst for hydrocarbon conversion reactions. 2,901,440, 8-25-59, Cl. 252-441.
- Wilson, Charles V.: *See*—  
Humphlett, Wilbert J., and Wilson. 2,875,195.
- Humphlett, Wilbert J., and Wilson. 2,875,214.
- Wilson, Chester E.: *See*—  
Wasley, William L., and Wilson. 2,883,340.
- Wilson, Clarence W.: *See*—  
Guth, Charles H., and Wilson. 2,911,551.
- Wilson, Clarence W., to Sunkist Growers, Inc. Method of purifying flavone derivatives. 2,916,500, 12-8-59, Cl. 260-345.2.
- Wilson, Clark R., to International Telephone and Telegraph Corp. Waveform generators. 2,907,026, 9-29-59, Cl. 343-17.1.
- Wilson & Co., Inc.: *See*—  
Czarnetzky, Edward J. 2,904,437.
- Dormitzer, Henry C. 2,875,222.
- Garapolo, Orlando. 2,911,857.
- Robertson, Edwin J., and Craine. 2,876,114.
- Tschentke, Herman L., and Streightif. 2,868,661.
- Wilson, Dominic. Dispensing conduit for a liquid dispenser. 2,876,937, 3-10-59, Cl. 222-529.
- Wilson, Donald G.: *See*—  
Thomson, Ian F., and Wilson. 2,878,357.
- Wilson, Earl E. Automobile drier unit. 2,874,485, 2-24-59, Cl. 34-230.
- Wilson, Earl L. Helicopter kite. 2,893,663, 7-7-59, Cl. 244-154.
- Wilson, Earl L. Flying saucer kite. 2,903,207, 9-8-59, Cl. 244-153.
- Wilson, Edward D. Electrical ignition gas torch. 2,888,066, 5-26-59, Cl. 158-27.4.
- Wilson, Edward S., and D. R. Young, to International Business Machines Corp. System for storing and releasing information. 2,885,656, 5-5-59, Cl. 340-173.
- Wilson Electrical Equipment Co., Inc.: *See*—  
Calmes, Dallas L. 2,907,870.
- Wilson, Elmo S. Venetian blind assembly device. 2,917,810, 12-22-59, Cl. 29-24.5.
- Wilson, Eric S. Animal holding means. 2,904,006, 9-15-59, Cl. 119-103.
- Wilson, Eugene. Stop motion for terry weave looms. 2,897,849, 8-4-59, Cl. 139-353.
- Wilson, Evelyn H., to Johnson & Johnson. 7-chloro coumarins. 2,887,495, 5-19-59, Cl. 260-343.2.
- Wilson, Evelyn H., to Johnson & Johnson. Process for producing oxy aromatic acid chlorides. 2,899,458, 8-11-59, Cl. 260-480.



- Wilson, Ford M. Pallet loading device. 2,880,558, 4-7-59, Cl. 53-35.
- Wilson, Frank C., to K. R. Wilson, Inc. Hydraulic presses. 2,877,705, 3-17-59, Cl. 100-214.
- Wilson, Frank R., to Q. E. Wilson. Flaring tool with automatic gauging means. 2,907,370, 10-6-59, Cl. 153-79.
- Wilson, Frank R., to Q. E. Wilson. Gauge for swaging tool. 2,915,107, 12-1-59, Cl. 153-79.
- Wilson, Fred B.: *See*—  
Madison, James J., and Wilson. 2,890,632.
- Wilson, Fred M., Sr., 25% to P. E. Petrie and 25% to B. Braverman. Hot-air liquid-fuel furnace. 2,893,374, 7-7-59, Cl. 126-110.
- Wilson, Gardner P., to Consolidated Electrodynamics Corp. Automatic control apparatus for mass spectrometers. 2,882,405, 4-14-59, Cl. 250-41.9.
- Wilson, George A., to I-T-E Circuit Breaker Co. Shutter operating mechanism. 2,894,085, 7-7-59, Cl. 200-50.
- Wilson, George D.: *See*—  
Niven, Charles F., Jr., Deibel, and Wilson. 2,907,661.
- Wilson, George D. Inside diameter comparator. 2,873,533, 2-17-59, Cl. 33-147.
- Wilson, George D., to General Precision Laboratory Inc. Lighting system for counters and the like. 2,909,857, 10-27-59, Cl. 40-77.
- Wilson, George H.: *See*—  
Barratt, Harold, Forrester, and Wilson. 2,896,946.
- Wilson, Glenn R., to Ford Motor Co. Perfluoroalkyl phosphite and phosphonate lubricants and lubricant additives. 2,888,481, 5-26-59, Cl. 260-461.
- Wilson, Gordon, Jr.: *See*—  
McBee, Earl T., Roberts, and Wilson. 2,908,710.
- Wilson, Gordon A., Jr., to McGraw-Edison Co. Manual tap changing switch. 2,903,530, 9-8-59, Cl. 200-66.
- Wilson, Harold F.: *See*—  
Craig, W. E., Shropshire, and Wilson. 2,881,111.
- Wilson, Harry Round chain saw sprocket. 2,884,798, 5-5-59, Cl. 74-243.
- Wilson, Harry C. Magnetic latch. 2,906,553, 9-29-59, Cl. 202-251.5.
- Wilson, Harry R., to Engineered Equipment Inc. Mobile power concrete saw device having an adjustable cutting disc. 2,889,141, 6-2-59, Cl. 262-20.
- Wilson, Harry W. Self-palletized package. 2,895,608, 7-21-59, Cl. 206-56.
- Wilson, Harry W. Method of packaging K.D.F. cartons. 2,896,207, 7-21-59, Cl. 53-3.
- Wilson, Helen M. Removable purse liner and method of fabrication. 2,893,457, 7-7-59, Cl. 150-30.
- Wilson, Herman I.: *See*—  
Muenger, James R., and Wilson. 2,885,865.
- Wilson, Homer T., to Johnston Testers, Inc. Safety device. 2,881,842, 4-14-59, Cl. 166-221.
- Wilson, Howard L.: *See*—  
Rader, William H., and Wilson. 2,906,733.
- Wilson, Hubert N., and F. M. Glass, to United States of America, Atomic Energy Commission. Radiation integrator. 2,874,305, 2-17-59, Cl. 250-83.6.
- Wilson, Hugh M., to The International Nickel Co. Die press. 2,884,822, 5-5-59, Cl. 78-18.
- Wilson, J. A., Lighting & Display Ltd.: *See*—  
McCormack, Donald C. 2,918,569.
- Wilson, J. G., Corp.: *See*—  
Zoll, Maurice B. 2,898,988.
- Wilson, Jack K., N. E., and R. S. Archer's bowstring jig. 2,906,086, 9-29-59, Cl. 57-1.
- Wilson, Jack L., to Temploc, Inc. Composite fabrication pipe. 2,894,538, 7-14-59, Cl. 138-64.
- Wilson, Jack M.: *See*—  
Scott, Thomas R., King, and Wilson. 2,910,394.
- Wilson, Jack M., to International Standard Electric Corp. Methods of producing silicon of high purity. 2,888,328, 5-26-59, Cl. 23-204.
- Wilson, Jack P.: *See*—  
Clelland, William M., Wilson, and Glassford. 2,915,892.
- Wilson, Jack P., to Proctor & Schwartz, Inc. Shearing and cutting apparatus for gelatinous material. 2,881,472, 4-14-59, Cl. 18-4.
- Wilson, James A.: *See*—  
Phelan, James M., and Wilson. 2,897,671.
- Wilson, James A., to Esso Research and Engineering Co. Static electricity detection and control system. 2,909,190, 10-20-59, Cl. 137-487.5.
- Wilson, James A., and S. B. Alter, to Equipment Engineers, Inc. Slip mounting for well tools. 2,879,851, 3-31-59, Cl. 166-216.
- Wilson, James C., to Owens-Illinois Glass Co. Corner construction for boxes. 2,875,942, 3-3-59, Cl. 229-35.
- Wilson, James C., to National Container Corp. Carton. 2,884,175, 4-28-59, Cl. 229-5.5.
- Wilson, James L., to Wilson Metal Products, Inc. Frying device. 2,899,889, 3-18-59, Cl. 99-408.
- Wilson, James R.: *See*—  
Bagdanovich, Michael P., and Wilson. 2,887,055.
- Wilson, James R., and R. Harbec. Individual container dispenser. 2,898,003, 8-4-59, Cl. 222-107.
- Wilson, Jardine C.: *See*—  
Yamada, Donald A., Katz, and Wilson. 2,883,308.
- Wilson, Jesse A., Jr., to C. A. Norgren Co. Liquid expulsion valve assembly. 2,918,075, 12-22-59, Cl. 137-204.
- Wilson, John B., to Reynolds Metals Co. Apparatus for heat-sealing metallic liners in containers. 2,898,974, 8-11-59, Cl. 154-1.
- Wilson, John F., Jr.: *See*—  
Beebe, Kenneth H., Carr, and Wilson. 2,874,474.
- Wilson, John H.: *See*—  
Mahon, William J., and Wilson. 2,879,740.
- Wilson, John H. Clamp-on tool bit. 2,883,737, 4-28-59, Cl. 29-96.
- Wilson, John H. Apparatus for molding concrete building slabs. 2,886,876, 5-19-59, Cl. 25-121.
- Wilson, John H. Fluid pressure actuated clutch mechanism. 2,887,202, 5-19-59, Cl. 192-85.
- Wilson, John H. Method of making a crank shaft assembly for reciprocating pumps. 2,899,742, 8-18-59, Cl. 29-447.
- Wilson, John H. Individual power drive unit for rotary tables. 2,911,193, 11-3-59, Cl. 255-19.
- Wilson, John H. Multi-speed transmission cases. 2,912,882, 11-17-59, Cl. 74-611.
- Wilson, John N.: *See*—  
De Keizer, Adrianus, and Wilson. 2,897,246.  
Van Dyke, Ross E., and Wilson. 2,886,511.
- Wilson, John R., to Hanlon & Wilson Co. Heat exchangers. 2,872,164, 2-3-59, Cl. 257-241.
- Wilson, John W.,  $\frac{1}{2}$  to R. Luikart, III, and  $\frac{1}{2}$  to S. Ayres, III. Skin treating apparatus. 2,867,214, 1-6-59, Cl. 128-355.
- Wilson Jones Co.: *See*—  
Marano, Herbert W. 2,883,792.  
Marano, Herbert W. 2,917,747.  
Potts, John. 2,876,021.  
Segal, Samuel. 2,871,863.  
Segal, Samuel. 2,888,934.
- Wilson, Joseph E., and R. K. Walton, to Union Carbide Corp. Phenolic resin and 3,9-dialkenylspirobi (M-dioxane) reaction products and process for hardening same. 2,915,492, 12-1-59, Cl. 260-43.
- Wilson, Joseph E., and R. K. Walton, to Union Carbide Corp. Copolymers of bisphenols and 3,9-dialkenylspirobi (M-dioxanes). 2,915,499, 12-1-59, Cl. 260-47.
- Wilson, Joseph E., and R. K. Walton, to Union Carbide Corp. Copolymers of mononuclear phenols, polyols and 3,9-dialkenylspirobi (M-dioxanes). 2,915,500, 12-1-59, Cl. 260-47.
- Wilson, Joseph F.: *See*—  
Hillyer, John C., and Wilson. 2,914,474.
- Wilson, Joseph F., to Phillips Petroleum Co. Manufacture of triple superphosphate. 2,913,330, 11-17-59, Cl. 71-41.
- Wilson, K. R., Inc.: *See*—  
Wilson, Frank C. 2,877,705.
- Wilson, Kermit H. Folding table. 2,873,157, 2-10-59, Cl. 311-92.
- Wilson, Lawrence A.: *See*—  
Luning, George A., and Wilson. 2,877,017.
- Wilson, Lawrence A., B. M. Durfee, and H. J. Tashjian, to International Business Machines Corp. Shock absorbing mechanism. 2,900,831, 8-25-59, Cl. 74-216.5.
- Wilson, Lee: *See*—  
Blackman, Calvin C. 2,875,997.  
Blackman, Calvin C. 2,903,051.
- Wilson, Leon E., and C. D. Pengelley, to United States of America, Air Force. Force sensitive load measuring system. 2,885,891, 5-12-59, Cl. 73-147.
- Wilson, Leonard B. Jig for standard pipe flanges. 2,887,079, 5-19-59, Cl. 113-104.
- Wilson, Lewis E. Multiple screen drive-in theater. 2,895,179, 7-21-59, Cl. 20-112.
- Wilson, Lewis P., and R. L. Turner, deceased, by D. H. Turner, executrix, to Olin Mathieson Chemical Corp. Process of making soft iron shot. 2,867,554, 1-6-59, Cl. 148-3.
- Wilson, Loren R., to The Magnavox Co. Card processing apparatus. 2,883,189, 4-21-59, Cl. 271-27.
- Wilson, Louis D.: *See*—  
Blain, Albert, Welsh, Wilson, and Reed. 2,914,264.  
Blain, Albert, Welsh, Wilson, Reed, Meyer, and Roggenstein. 2,874,369.
- Wilson, Louis D., S. M. Oster, and T. Ash, to Remington Rand Inc. Record feeding control means. 2,868,340, 1-13-59, Cl. 192-4.
- Wilson, Lucius H., W. M. Thomas, and J. J. Padbury, to American Cyanamid Co. Paper of improved dry strength and method of making same. 2,884,057, 4-28-59, Cl. 162-164.
- Wilson, Lucius H., and Y. Jen, to American Cyanamid Co. Modified urea-formaldehyde resins and paper containing the same. 2,901,391, 8-25-59, Cl. 162-167.
- Wilson, Lucius H., W. C. Hopkins, and S. F. Stafiej, to American Cyanamid Co. Manufacture of rosin and rosin size of decreased latent foaming tendency. 2,909,514, 10-20-59, Cl. 260-97.
- Wilson, Manne I.: *See*—  
Åberg, Lars D. and C. R., and Wilson. 2,918,235.
- Wilson, Marion E. Method of manufacturing pipes, conduits, and the like. 2,877,150, 3-10-59, Cl. 154-83.
- Wilson, Mathew R., to United States of America, Air Force. Dual retinoscope. 2,882,789, 4-21-59, Cl. 88-22.
- Wilson, Matthew W.: *See*—  
Formanek, Robert J., and Wilson. 2,912,355.  
Lessig, Edward T., and Wilson. 2,889,802.



- Wilson, Melvin L.: *See*—  
Stadelman, William J., and Wilson. 2,876,110.
- Wilson, Melvin G., to International Business Machines Corp. Mono-stable multivibrator. 2,894,128, 7-7-59, Cl. 250-27.
- Wilson, Merton C.: *See*—  
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- Wilson Metal Products, Inc.: *See*—  
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- Wilson, Newton R.: *See*—  
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- Wilson, Norman B. Centrifugal clutch. 2,892,525, 6-30-59, Cl. 192-105.
- Wilson, Norman E.: *See*—  
Wilson, Jack K., N. E., and R. S. 2,906,086.
- Wilson Plastic Container Corp.: *See*—  
Penman, Arthur W. 2,903,139.
- Wilson, Quinn E.: *See*—  
Wilson, Frank R. 2,907,370.
- Wilson, Frank R. 2,915,107.
- Wilson, Reagan T., to Phillips Petroleum Co. Improving color and color stability of kerosene by combined auto fining and hydrofining. 2,880,166, 3-31-59, Cl. 208-100.
- Wilson, Reid F. Auxiliary vehicle brake. 2,886,139, 5-12-59, Cl. 188-5.
- Wilson, Rex C. TV receiver circuit. 2,872,573, 2-3-59, Cl. 250-27.
- Wilson, Richard A., to Sperry Products, Inc. Method and means for detecting flaws in rails. 2,884,592, 4-28-59, Cl. 324-37.
- Wilson, Richard S. Golf caddy vehicle having spring supported golf club rack. 2,880,012, 3-31-59, Cl. 280-47.19.
- Wilson, Robert D., to Raytheon Mfg. Co. Electron tube. 2,883,575, 4-21-59, Cl. 313-247.
- Wilson, Robert F.: *See*—  
Evans, Lyle W., Rychlewski, and Wilson. 2,898,226.
- Rychlewski, Thaddeus V., and Wilson. 2,872,316.
- Rychlewski, Thaddeus V., and Wilson. 2,898,225.
- Wilson, Robert L. Apparatus for conditioning motors. 2,912,990, 11-17-59, Cl. 134-103.
- Wilson, Robert R., to United States of America, Atomic Energy Commission. Apparatus for producing shadowgraphs. 2,899,537, 8-11-59, Cl. 250-65.
- Wilson, Robert S.: *See*—  
Wilson, Jack K., N. E., and R. S. 2,906,086.
- Wilson, Robert W.: *See*—  
Hoyer, Wilmer A., and Wilson. 2,907,900.
- Wilson, Robert W., to R. H. Bouligny, Inc. Valve construction. 2,886,053, 5-12-59, Cl. 137-207.
- Wilson, Rosser L., to American Brake Shoe Co. Railroad brake shoes. 2,869,689, 1-20-59, Cl. 188-251.
- Wilson, Rosser L., to American Brake Shoe Co. Railroad brake shoes. 2,885,037, 5-5-59, Cl. 188-251.
- Wilson, Rosser L., to American Brake Shoe Co. Method of making brake shoes. 2,900,711, 8-25-59, Cl. 29-407.
- Wilson, Rosser L., to American Brake Shoe Co. Brake shoes. 2,904,138, 9-15-59, Cl. 188-251.
- Wilson, Rufus W.: *See*—  
Wald, John R., Jr., and Wilson. 2,878,034.
- Wald, John R., Jr., and Wilson. 2,895,647.
- Wilson, Rufus W., to Wald Industries, Inc. Magnetic conveyor. 2,873,843, 2-17-59, Cl. 198-41.
- Wilson, Rufus W., to Wald Industries, Inc. Highway marking apparatus. 2,878,025, 3-17-59, Cl. 275-2.
- Wilson, Samuel W., and S. J. Bodnar, to Esso Research and Engineering Co. Acetylene removal from diolefin streams. 2,870,232, 1-20-59, Cl. 260-681.5.
- Wilson, Samuel W., and W. H. Silver, to Esso Research and Engineering Co. Crude ethanol operations. 2,872,491, 2-3-59, Cl. 260-639.
- Wilson Supply Co.: *See*—  
Johnston, Rufus B. 2,914,036.
- Johnston, Rufus B. 2,914,037.
- Wilson, Sylvester V. Tethering device for grooming show animals. 2,902,976, 9-8-59, Cl. 119-19.
- Wilson, Theodore J., to Minneapolis-Honeywell Regulator Co. Aircraft attitude indicating apparatus. 2,889,710, 6-9-59, Cl. 74-534.
- Wilson, Thomas C., Inc.: *See*—  
Schott, Donald E. 2,884,814.
- Wilson, Verne H., to Monroe Calculating Machine Co. Selecting circuit. 2,872,114, 2-3-59, Cl. 235-61.
- Wilson, Volney C., and L. T. Piekarski. Replacement blood transfusion apparatus. 2,910,981, 11-3-59, Cl. 128-214.
- Wilson, W. F.: *See*—  
Calmes, Dallas L. 2,907,870.
- Wilson, Walter H. Adjustable tripod type gun mount. 2,870,683, 1-27-59, Cl. 89-40.
- Wilson, Walter R.: *See*—  
Streater, August L., and Wilson. 2,914,724.
- Swerdlow, Nathan, and Wilson. 2,892,012.
- Wilson, Walter R., Sr. Plate bending and seam sealing machine having work engaging roller pivoted to swing across portion of work to be bent. 2,907,366, 10-6-59, Cl. 153-16.
- Wilson, Warren B. Transcribing attachment. 2,877,741, 3-17-59, Cl. 120-31.
- Wilson, Wesley. Fluorescent lighting fixture. 2,907,872, 10-6-59, Cl. 240-51.11.
- Wilson, Wilbert M., and R. J. Martin, to Pluess-Stauffer (North American) Inc. Tobacco smoke filters. 2,909,182, 10-20-59, Cl. 131-208.
- Wilson, William A.: *See*—  
Archibald, Francis M., and Wilson. 2,885,357.
- Esmy, Donald L., Fotis, and Wilson. 2,881,234.
- Wilson, William B.: *See*—  
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- Wilson, William D., to Winters Mfg. Co. Mounting means for a removable grill. 2,896,526, 7-28-59, Cl. 98-108.
- Wilson, William G.: *See*—  
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- Wilson, William J.: *See*—  
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- Sommers, Donald J., and Wilson. 2,909,736.
- Wilson, William J., to Sanders Associates, Inc. High frequency transmission line tuning device. 2,896,177, 7-21-59, Cl. 333-33.
- Wilson's, William M., Sons, Inc.: *See*—  
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- Wilstead, Graham H., to Electronic Instruments Ltd. Devices comprising electrical condensers adapted to vary their capacity periodically. 2,867,758, 1-6-59, Cl. 317-250.
- Wilt, Myron H.: *See*—  
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- Wilt, Paul E., III, and A. A. Young, to Atlas Powder Co. Process for the manufacture of explosive nitric esters. 2,883,414, 4-21-59, Cl. 260-467.
- Wilt, Ted. Suitcase and tray. 2,873,830, 2-17-59, Cl. 190-41.
- Wilton, Robert, to American Gage & Machine Co. Sensitive meter-type relay. 2,888,534, 5-26-59, Cl. 200-110.
- Wiltse, Sumner D. Pressure actuated resilient sleeve type tube coupling. 2,871,034, 1-27-59, Cl. 285-109.
- Wiltse, Sumner D. Pipe joint with flexible internal sleeve. 2,896,973, 7-28-59, Cl. 285-81.
- Wiltse, Sumner D. Pipe coupling having means to provide for cold flow of a resilient sleeve. 2,896,976, 7-28-59, Cl. 285-230.
- Wiltse, Sumner D. Fluidized pressure system. 2,897,005, 7-28-59, Cl. 302-24.
- Wiltshire, William T. S., and C. S. Terez, to General Electric Co. Electric lamp making machine. 2,910,166, 10-27-59, Cl. 198-33.
- Wimmer, Ernest L., to Chas. A. Krause Milling Co. Adhesives and method of manufacturing the same. 2,881,086, 4-7-59, Cl. 106-213.
- Wimmer, Ernest L., to Chas. A. Krause Milling Co. Starch cross-linked with hexahydro-1,3,5-triacryloyl-s-triazine. 2,910,467, 10-27-59, Cl. 260-233.3.
- Wimmer, Ernest L., and F. Meindl, to Chas. A. Krause Milling Co. Art of manufacturing cold water dispersible adhesives. 2,894,859, 7-14-59, Cl. 127-33.
- Wimmer, Herman J.: *See*—  
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- Wimpress, Donald S., to The Garrett Corp. Turbine speed control. 2,889,117, 6-2-59, Cl. 239-124.
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- Winberg, Hilmer E.: *See*—  
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- Winberg, Hilmer E., to E. I. du Pont de Nemours and Co. Preparation of dimethylene heterocyclic compounds. 2,904,540, 9-15-59, Cl. 260-79.7.
- Winberg, Ragnar W. Work feeding mechanism for sewing machine. 2,892,427, 6-30-59, Cl. 112-211.
- Winberg, Ragnar W. Throat plate. 2,908,237, 10-13-59, Cl. 112-260.
- Wince, Vearl S., to Holophane Co., Inc. Outdoor lighting fixtures. 2,905,808, 9-22-59, Cl. 240-25.
- Winch, Allen R., to Personal Products Corp. Fiber abrasive. 2,889,568, 6-9-59, Cl. 15-209.
- Winch, Allen R., to Personal Products Corp. Cleaning and scouring pads. 2,896,242, 7-28-59, Cl. 15-209.
- Winchell, Clifford E.: *See*—  
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- Winchell Co., The: *See*—  
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- Winchell, Frank J.: *See*—  
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- Winchell, Frank J., to General Motors Corp. Transmission. 2,891,828, 6-23-59, Cl. 308-235.
- Winchell, Frank J., to General Motors Corp. Spring clutch. 2,895,578, 7-21-59, Cl. 192-41.
- Winchell, Frank J., to General Motors Corp. Transmission control systems. 2,896,478, 7-28-59, Cl. 74-754.
- Winchell, Frank J., to General Motors Corp. One way clutch. 2,902,126, 9-1-59, Cl. 192-45.1.
- Winchell, Wesley L. Automobile visor with rotatable light polarizers. 2,915,936, 12-8-59, Cl. 88-1.
- Winchell, Wesley L. Visor. 2,915,937, 12-8-59, Cl. 88-1.
- Winchester, Barbara. Bowl shaped play thing. 2,878,858, 3-24-59, Cl. 155-69.
- Winchester Electronics, Inc.: *See*—  
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- De Tar, Donald E. 2,897,471.
- Winckler, John R.: *See*—  
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- Windebank, Robert W.: *See*—  
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- Windemuth, Erwin, to Farbenfabriken Bayer Akt. Production of polyurethanes. 2,897,181, 7-28-59, Cl. 260—75.
- Winder, Clayton F.: *See*—  
Jones, Edward M., and Winder. 2,902,655.
- Winder, Erno, to Egyesult Izzolampa es Villamosagi Reszvenytarsasag. Supply cathode. 2,902,620, 9-1-59, Cl. 313—346.
- Winder, William C., and A. M. Swanson, to Wisconsin Alumni Research Foundation. Method for ripening cheese. 2,882,164, 4-14-59, Cl. 99—116.
- Winder, William C., and E. W. Kielsmeier, to Wisconsin Alumni Research Foundation. Process of drying milk. 2,911,301, 11-3-59, Cl. 99—56.
- Windham, Robert L.: *See*—  
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- Windheuser, John J.: *See*—  
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- Windl, Herman F. Bed chair. 2,905,953, 9-29-59, Cl. 5—327.
- Windman, Albert, and M. Amsterdamer. Severed piece dislodging mechanism for pear stem end cutters. 2,910,102, 10-27-59, Cl. 146—81.
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- Windman, Murray, to Windman Brothers. Slide tray for slide changers. 2,900,074, 8-18-59, Cl. 206—62.
- Windmüller & Hölscher: *See*—  
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- Windolph, Edmund W. Ore separating apparatus. 2,883,050, 4-21-59, Cl. 209—123.
- Winderover, Francis E.: *See*—  
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- Window Products, Inc.: *See*—  
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Haas, Glenn B. 2,877,515.
- Windsor, Alfred A., to United States of America, Atomic Energy Commission. Drift compensated direct coupled amplifier. 2,885,497, 5-5-59, Cl. 179—171.
- Windsor, Harold F., to General Electric Co. Method for increasing dry adhesion of luminescent screens. 2,907,673, 10-6-59, Cl. 117—33.5.
- Windsor, Harold F., to General Electric Co. Screen settling for cathode ray tubes. 2,913,352, 11-17-59, Cl. 117—33.5.
- Windsor, R. H., Ltd.: *See*—  
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- Windsor, Richard T., to Hays Mfg. Co. Pilot operated valve. 2,888,233, 5-26-59, Cl. 251—30.
- Windstrup, Robert F.: *See*—  
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- Windstrup, Robert F., to United States of America, Army. Prefabricated gun receiver. 2,868,083, 1-13-59, Cl. 89—199.
- Windust, Frank A. Camp stove. 2,907,316, 10-6-59, Cl. 126—9.
- Winebrenner, James H.: *See*—  
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- Winegard Co.: *See*—  
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- Winegard, John R., to Winegard Co. TV antenna supporting substructure for installation on the slope, ridge or end of a roof. 2,891,748, 6-23-59, Cl. 248—46.
- Winer, Ephraim, to The National Plastics Products Co. Spooling. 2,889,577, 6-9-59, Cl. 18—8.
- Winesett, Frank P. Bag stacking assembly for a bag making machine. 2,898,106, 8-4-59, Cl. 271—79.
- Winet, Hans, to Landis & Gyr, A.G. Valve unit for gas oven temperature regulator. 2,901,212, 8-25-59, Cl. 251—333.
- Winfield, Denis, and E. Start, to Cotton William Ltd. Straight bar knitting machine. 2,897,664, 8-4-59, Cl. 66—82.
- Wing, Arthur K., Jr., and J. H. Bryant, to International Telephone and Telegraph Corp. Directional power dividers. 2,894,168, 7-7-59, Cl. 315—3.6.
- Wing, Arthur K., Jr., and H. W. Cole, to International Telephone and Telegraph Corp. Electron discharge devices. 2,899,593, 8-11-59, Cl. 315—3.5.
- Wing, Charles E., to General Motors Corp. Idle vent valve. 2,867,423, 1-6-59, Cl. 261—43.
- Wing, George S., to Hi-Shear Rivet Tool Co. Bolt holding wrench. 2,882,773, 4-21-59, Cl. 81—56.
- Wingard, William F., and R. A. Gosselin, ½ to A. Wells & Co. Ltd., and ½ to United-Carr Fastener Corp. Vibration isolator and shock mount. 2,894,711, 7-14-59, Cl. 248—358.
- Wingate, Mary K. Poison bait mouse and rat exterminator. 2,896,362, 7-28-59, Cl. 43—131.
- Wingate, Sidney A.: *See*—  
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- Winger, Howard J. Heavy equipment moving device. 2,899,213, 8-11-59, Cl. 280—47.13.
- Winget, James L.: *See*—  
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- Winget, William A. Pusher cup attachment for tractors. 2,919,142, 12-29-59, Cl. 280—481.
- Wingfield, Raymond O. Bath installation, in particular for birds. 2,878,781, 3-24-59, Cl. 119—72.
- Wingfoot Corp.: *See*—  
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- Wingo, Henry L.: *See*—  
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Doyle, James A. 2,911,159.
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- Winiarczyk, Edward R., to Metal Hydrides Inc. Preparation of sodium borohydride. 2,900,240, 8-18-59, Cl. 23—312.
- Winick, Jack I., to Research Interests Ltd. Reclining chairs. 2,909,213, 10-20-59, Cl. 155—106.
- Winicov, Murray W.: *See*—  
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- Wink, Edward C. Apparatus for connecting plows or the like to a tractor. 2,899,002, 8-11-59, Cl. 172—319.
- Wink, Fredrick W., to Bucyrus-Erie Co. Lightweight portable diamond drill. 2,914,305, 11-24-59, Cl. 255—19.
- Winkel, Herbert C. Cell quantity selector for battery plates. 2,907,921, 1-27-59, Cl. 214—6.
- Winkel, Herbert C., C. H. McAlpine, and K. G. McGowan; said McAlpine and said McGowan assors. to said Winkel. Apparatus for forming battery components. 2,908,377, 10-13-59, Cl. 198—35.
- Winkelman, Clarence N. Automotive vehicle foot pedals. 2,878,908, 3-24-59, Cl. 192—3.
- Winkelmann, Otto J.: *See*—  
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- Winkelmann, Otto J., W. M. Swan, Jr., and A. G. Herreshoff, to Chrysler Corp. Mechanical power steering mechanism. 2,900,835, 8-25-59, Cl. 74—388.
- Winker, James A., to United States of America, Air Force. Balloon launching device. 2,917,254, 12-15-59, Cl. 244—2.
- Winkin, Justin P., to The Babcock & Wilcox Co. Method of and apparatus for generating vapor. 2,890,684, 6-16-59, Cl. 122—1.
- Winkle, Robert G.: *See*—  
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- Winkler, Albert H., to Bendix Aviation Corp. Automatic choke. 2,880,978, 4-7-59, Cl. 261—52.
- Winkler, Albert H., to Bendix Aviation Corp. Fuel supply system. 2,884,916, 5-5-59, Cl. 123—119.
- Winkler, Albert H., to Bendix Aviation Corp. Engine control mechanism. 2,885,194, 5-5-59, Cl. 261—52.
- Winkler, Albert H., to Bendix Aviation Corp. Fuel supply system. 2,888,000, 5-26-59, Cl. 123—119.
- Winkler, Albert H., to Bendix Aviation Corp. Fuel supply system. 2,893,370, 7-7-59, Cl. 123—179.
- Winkler, Albert H., to Bendix Aviation Corp. Dashpot. 2,915,303, 12-1-59, Cl. 261—34.
- Winkler, Alfred, and W. Kaden, to Agfa Akt. Roll-film photographic cameras. 2,879,704, 3-31-59, Cl. 95—31.
- Winkler, Alfred, and W. Kaden, to Agfa Aktiengesellschaft. Film spool bearing for photographic cameras or the like. 2,902,231, 9-1-59, Cl. 242—71.3.
- Winkler, Alfred, and W. Kaden, to Agfa Aktiengesellschaft. Focusing mechanism for photographic cameras. 2,910,925, 11-3-59, Cl. 95—45.
- Winkler, Alvin L., to Acme Steel Co. Lock flap carton folding and strapping machine. 2,905,066, 9-22-59, Cl. 93—55.1.
- Winkler, Alvin L., and J. L. Oldham, to Auto Stapler Corp. Apparatus for driving and clinching a two-prong fastener. 2,881,438, 4-14-59, Cl. 1—3.
- Winkler, Alvin L., R. E. Hager, and K. A. Falck-Pedersen, to Acme Steel Co. Box strapping machine. 2,882,814, 4-21-59, Cl. 100—25.
- Winkler, Edward D.: *See*—  
Cobbett, Leonard C., and Winkler. 2,917,722.
- Winkler, Frederic C.: *See*—  
Picha, George J., and Winkler. 2,883,519.
- Winkler, Frederic C., to Westinghouse Electric Corp. Lighting fixture. 2,912,568, 11-10-59, Cl. 240—147.
- Winkler, Frederic C., to Westinghouse Electric Corp. Luminaire. 2,914,661, 11-24-59, Cl. 240—78.
- Winkler, Harry W., J. W. Morfitt, and T. H. Little, to United States of America, Atomic Energy Commission. Method of cleaning metal surfaces. 2,887,373, 5-19-59, Cl. 75—97.
- Winkler, Otto, to Geraetebau-Anstalt. Rotatable current lead-in units for furnace crucible. 2,885,647, 5-5-59, Cl. 339—5.
- Winkler, Raymond W.: *See*—  
May, Walter G., Winkler, and Ogorzalzy. 2,902,441.
- Winkler, Richard, and K. Dunnebie, to Berkley Machine Co. Apparatus for counting and banding envelopes and the like. 2,917,884, 12-22-59, Cl. 53—198.
- Winkler, Richard H., to Monogram Precision Industries, Inc. Waveguide. 2,872,650, 2-3-59, Cl. 333—95.
- Winkler, Richard H., to Monogram Precision Industries, Inc. Resonant waveguide backward-wave oscillator. 2,899,595, 8-11-59, Cl. 315—3.5.



- Winkler, Theodore E. Incinerator construction. 2,910,020, 10-27-59, Cl. 110-18.
- Winkler, Warren D.: *See*—  
Gruber, David, and Winkler. 2,895,549.
- Winkler, Wynn G.: *See*—  
Swanson, Donald F., and Winkler. 2,916,891.
- Winn, James B., Jr. Monolithic wall forming apparatus. 2,877,530, 3-17-59, Cl. 25-1.
- Winn, John, to Wynnwood Corp. Systems for ordering and assembling articles. 2,888,197, 5-26-59, Cl. 235-92.
- Winn, Oliver H., to General Electric Co. Piezo-electric type frequency changer. 2,881,390, 4-7-59, Cl. 324-68.
- Winners, Leonhard H.: *See*—  
Muller, Franz, and Winners. 2,884,145.
- Winnick, Charles N., to E. I. du Pont de Nemours and Co. Fuel oil compositions. 2,888,340, 5-26-59, Cl. 52-5.
- Winona Tool Mfg. Co.: *See*—  
Fuglie, Elmer A., and Connett. 2,891,302.
- Winram, George R., to Telectro Industries Corp. Voltage-divider system. 2,876,417, 3-3-59, Cl. 324-76.
- Winsel, August: *See*—  
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Justi, Eduard, and Winsel. 2,901,523.
- Winship, Leonard T.: *See*—  
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- Winslow, Albert E.: *See*—  
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Andrews, Allen R., and Winslow. 2,914,905.  
Clark, Jared W., and Winslow. 2,897,163.
- Winslow, Albert E. Bobbin holder. 2,919,079, 12-29-59, Cl. 242-130.2.
- Winslow, Arnold A., to Robertshaw-Fulton Controls Co. Temperature responsive control device. 2,872,555, 2-3-59, Cl. 219-20.
- Winslow, Charles A. Folding anchor. 2,869,503, 1-20-59, Cl. 114-208.
- Winslow, Charles A. Anchor, hawse pipe, and hoist means. 2,903,989, 9-15-59, Cl. 114-179.
- Winslow Engineering and Mfg. Co.: *See*—  
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- Winslow, Field H.: *See*—  
Hawkins, Walter L., Lanza, and Winslow. 2,889,306.
- Winslow, James C. Drill countersink bit. 2,897,695, 8-4-59, Cl. 77-66.
- Winslow, James C. Power drill with work holding device and spacing means. 2,909,949, 10-27-59, Cl. 77-13.
- Winslow, James C. Power tool with suction foot. 2,910,895, 11-3-59, Cl. 77-13.
- Winslow, James C., and R. C. Schneider, to Winslow Product Engineering Corp. Collet foot for power tool. 2,911,860, 11-10-59, Cl. 77-55.
- Winslow, Nathaniel M.: *See*—  
Shapiro, Justin J., and Winslow. 2,886,964.
- Winslow Product Engineering Corp.: *See*—  
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- Winslow, Roger C.: *See*—  
Bloom, Albert S., and Winslow. 2,917,635.
- Winslow, Sibley F.: *See*—  
Roblinger, Merlin J., Hause, Winslow, and Stavoff. 2,886,254.
- Winslow, Willis M. to Wefco Inc. Field responsive fluid couplings. 2,886,151, 5-12-59, Cl. 192-215.
- Winson, Jonathan. Method of applying elastic to thermo-plastic sheeting. 2,884,643, 5-5-59, Cl. 2-158.
- Winsor & Jerauld Mfg. Co.: *See*—  
Waterman, John E. 2,898,661.
- Winsor, Paul, III: *See*—  
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Martin, Joseph M., Norwood, and Winsor. 2,903,502.
- Winstead, Wade T., to The Pure Oil Co. Fast-acting tubing clamp. 2,882,572, 4-21-59, Cl. 24-19.
- Winstel, Gunther: *See*—  
Heywang, Walter, Winstel, and Weis. 2,919,389.
- Winston, Edward T.: *See*—  
Meek, James M., Smith, and Winston. 2,913,984.
- Winston Electronics Ltd.: *See*—  
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- Winston, Joseph L.: *See*—  
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- Winstrom, Bertil G., to A. O. Smith Corp. Coil inserter. 2,873,515, 2-17-59, Cl. 29-205.
- Winstrom, Leon O., to Allied Chemical Corp. Hydrogenation catalyst. 2,875,158, 2-24-59, Cl. 252-439.
- Winter, Carl E. Improved multiple speed gear transmission. 2,870,644, 1-27-59, Cl. 74-351.
- Winter, Charles E.: *See*—  
Thompson, Ivan P., Allmang, Hartmann, Winter, and Blackburn. 2,873,224.
- Winter, Charles H., Jr., to E. I. du Pont de Nemours and Co. Method of producing titanium metal. 2,890,112, 6-9-59, Cl. 75-84.5.
- Winter, Charles L., and J. E. Euth, to Uarco, Inc. Line anchor. 2,907,438, 10-6-59, Cl. 197-114.
- Winter, Daniel F. Hydraulic metal shear. 2,868,289, 1-13-59, Cl. 164-46.
- Winter Dump Co. Ltd., The: *See*—  
Irwin, Leslie C. 2,877,908.
- Winter, Erno, to Egyesult Izzolampa es Villamossagi Reszvenytarsasag. Vacuum tube amplifier. 2,881,355, 4-7-59, Cl. 315-1.
- Winter, Erno, to Egyesult Izzolampa es Villamossagi Reszvenytarsasag. Supply cathode. 2,902,621, 9-1-59, Cl. 313-346.
- Winter, Eugene C.: *See*—  
Dye, Glen M., Sardeson, and Winter. 2,902,914.  
Winter, Frank J., Jr. Merchandise display apparatus. 2,887,232, 5-19-59, Cl. 211-78.
- Winter, Lester L., and T. Edstrom, to Union Carbide Corp. Thermosetting cement comprising a pitch, a furfuryl compound, carbonaceous particles and acid catalyst. 2,884,391, 4-28-59, Cl. 260-28.5.
- Winter, Louis, to Mabs, Inc. Collar construction for shirts. 2,905,945, 9-29-59, Cl. 2-132.
- Winter, Marvin, to The Pelton & Crane Co. Power-operated dental aspirator. Re. 24,755, 12-15-59, Cl. 32-33.
- Winter, Paul H., to Pass & Seymour, Inc. Waterproof wall plate with hinged lids. 2,870,933, 1-27-59, Cl. 220-24.3.
- Winter, Paul H., to Pass & Seymour, Inc. Receptacle grounding device. 2,872,503, 2-3-59, Cl. 174-51.
- Winter, Paul H., and M. N. Russell, to Pass & Seymour, Inc. Tool trigger switch. 2,881,292, 4-7-59, Cl. 200-157.
- Winter, Paul H., to Pass & Seymour, Inc. Unitary electrical contact arrangement. 2,881,407, 4-7-59, Cl. 339-258.
- Winter, Paul H., to Pass & Seymour, Inc. Alternating current switch. 2,903,531, 9-8-59, Cl. 200-67.
- Winter, William R., to Westinghouse Electric Corp. Safety circuits for electric motors driving refrigerant compressors. 2,891,386, 6-23-59, Cl. 62-161.
- Winterbottom, Robert: *See*—  
Fox, Sidney M., Blicharz, and Winterbottom. 2,875,247.  
Reed, Charles C., and Winterbottom. 2,871,265.
- Winterbottom, Robert, H. Mendelsohn, S. A. Muller, and J. R. D. McCormick, to American Cyanamid Co. Purification of chlortetracycline. 2,899,422, 8-11-59, Cl. 260-207.
- Wintermute, Harry A., to Research Corp. Gas cleaning apparatus. 2,867,285, 1-6-59, Cl. 183-7.
- Wintermute, Harry A., to Research Corp. Production of oxidizing liquids. 2,867,573, 1-6-59, Cl. 204-164.
- Wintermute, Harry A., to Research Corp. Electrical precipitator. 2,895,563, 7-21-59, Cl. 183-7.
- Wintermute, Harry A., to Research Corp. Voltage control system for electrostatic precipitators. 2,896,741, 7-28-59, Cl. 183-7.
- Wintermute, Harry A., to Research Corp. Electromagnetic rapping device. 2,898,532, 8-4-59, Cl. 318-125.
- Wintermute, Harry A., to Research Corp. Apparatus for collecting magnetic susceptible material. 2,904,178, 9-15-59, Cl. 209-216.
- Wintermute, Harry A., to Research Corp. Gas and liquid contact apparatus. 2,907,707, 10-6-59, Cl. 204-312.
- Winternitz, Paul F., to Thiokol Chemical Corp. Process and apparatus for the fixation of products of irreversible thermochemical reactions. 2,875,028, 2-24-59, Cl. 23-288.
- Winters, Alva B., and D. K. Holst, to Revere Electric Mfg. Light pole construction. 2,869,690, 1-20-59, Cl. 189-28.
- Winters, Berl C., to Sperry Rand Corp. Indicator mechanisms. 2,888,832, 6-2-59, Cl. 74-424.8.
- Winters, Donald F.: *See*—  
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Thorpe, Robert J., and Winters. 2,870,826.
- Winters, Donald F., and H. A. Smith, to Westinghouse Electric Corp. Control apparatus. 2,875,734, 3-3-59, Cl. 121-41.
- Winters, Everett: *See*—  
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- Winters, John B., and L. R. Westbrook, to Incar, Inc. Nickel plating compositions and method. 2,893,933, 7-7-59, Cl. 204-49.
- Winters, Kauno W., and G. E. Oja. Log handling arm attachment for trucks. 2,869,741, 1-20-59, Cl. 214-92.
- Winters Mfg. Co.: *See*—  
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- Winters, Mel E.: *See*—  
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- Winters, Paul N., to General Motors Corp. Stabilized inverter stage. 2,914,623, 11-24-59, Cl. 179-171.
- Winters, Thomas F. Machine for assembling bed springs. 2,888,959, 6-2-59, Cl. 140-3.
- Winterstein, Hans-Ludwig: *See*—  
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- Winther, Anthony, to Eaton Mfg. Co. Magnetic clutch. Re. 24,608, 2-24-59, Cl. 192-21.5.
- Winther, Howard, to The Symington-Gould Corp. Draft rigging. 2,876,911, 3-10-59, Cl. 213-66.
- Winther, Martin P., to Eaton Mfg. Co. Seal for relatively rotatable parts. 2,874,982, 2-24-59, Cl. 286-10.
- Winther, Martin P., to Eaton Mfg. Co. Four speed planetary transmission. 2,892,365, 6-30-59, Cl. 74-759.
- Winther, Martin P., to Eaton Mfg. Co. Clutch pulsator mechanism. 2,900,847, 8-25-59, Cl. 74-752.
- Winther, Martin P., to Eaton Mfg. Co. Centrifugally-actuated magnetic particle clutch or brake. 2,905,293, 9-22-59, Cl. 192-21.5.
- Winther, Robert O., to King-Seeley Corp. Electric space heater. 2,883,512, 4-21-59, Cl. 219-39.
- Winther, Simon P. Cleat. 2,870,733, 1-27-59, Cl. 114-218.
- Winther, Simon P., 40% to L. Krueger. Electric shaver with oscillating blade. 2,917,825, 12-22-59, Cl. 30-43.



- Winthrop-Atkins Co., Inc.: *See*—  
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- Winthrop, Stanley O.: *See*—  
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- Winthrop, Stanley O., to American Home Products Corp. S-substituted-N-benzhydryl pseudothiouras and their pseudothiuronium salts. 2,894,029, 7-7-59, Cl. 260—564.
- Winthrop, Stanley O., to American Home Products Corp. N-benzhydryl-S-( $\omega$ -dilower alkylaminoalkyl) pseudothiouras and their pseudothiuronium salts. 2,894,030, 7-7-59, Cl. 260—564.
- Winthrop, Stanley O., to American Home Products Corp. S-substituted N-benzhydryl pseudothiouras and their pseudothiuronium salts. 2,910,505, 10-27-59, Cl. 260—564.
- Winthrop, Stanley O., and M. A. Davis, to American Home Products Corp. Sulfonium compounds. 2,914,527, 11-24-59, Cl. 260—243.
- Wintle, Harry D., Jr.: *See*—  
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- Wintriss, George, to Wintriss Inc. Whistle with integral attaching means. 2,867,942, 1-13-59, Cl. 46—175.
- Wintriss Inc.: *See*—  
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- Wintrose, Warner C.: *See*—  
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- Wintzer, Rudolph C., to The Babcock & Wilcox Co. Heating system. 2,912,167, 11-10-59, Cl. 237—58.
- Winyall, Milton E., to W. R. Grace & Co. Process for preparing a silica-alumina gel catalyst and a hydrocarbon cracking process using said catalyst. 2,886,512, 5-12-59, Cl. 208—120.
- Winz, Karl: *See*—  
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- Winz, Karl, to G. M. Pfaff A.-G. Sewing machines. 2,868,149, 1-13-59, Cl. 112—125.
- Winz, Karl, to G. M. Pfaff A.-G. Thread controlled automatic stop device for sewing machines. 2,868,151, 1-13-59, Cl. 112—219.
- Winz, Karl, to G. M. Pfaff, A.-G. Arrangements for stopping electrically operated sewing or other machines. 2,876,407, 3-3-59, Cl. 318—269.
- Winz, Karl, to G. M. Pfaff, Akt. Sewing machines. 2,878,764, 3-24-59, Cl. 112—219.
- Winz, Karl, to G. M. Pfaff, A.G. Multiple control device for sewing and the like machines. 2,882,847, 4-21-59, Cl. 112—219.
- Winz, Karl, to G. M. Pfaff, A.G. Electromagnetic clutch for sewing machines and the like. 2,883,018, 4-21-59, Cl. 192—12.
- Winz, Karl, to G. M. Pfaff A.G. Thread-controlled contact device for power driven sewing machines. 2,895,440, 7-21-59, Cl. 112—219.
- Winz, Karl, to G. M. Pfaff, A.-G. Time delayed switching device for sewing and the like machines. 2,906,221, 9-29-59, Cl. 112—219.
- Winz, Karl, to G. M. Pfaff A.G. Material-controlled contact device for power driven sewing machines. 2,910,027, 10-27-59, Cl. 112—219.
- Winzen, Otto C.: *See*—  
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- Winzen, Otto C., V. E. Baumgartner, and J. T. Beck; said Winzen and said Baumgartner assors. to Winzen Research, Inc. Electromagnetically controlled ballast dispensing means. 2,900,149, 8-18-59, Cl. 244—94.
- Winzen, Otto C. and V. H., to Winzen Research, Inc. Balloon having reinforcing structure. 2,919,082, 12-29-59, Cl. 244—31.
- Winzen Research, Inc.: *See*—  
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Winzen, Otto C. and V. H. 2,919,082.
- Winzen, Vera H.: *See*—  
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- Wipac Development Ltd.: *See*—  
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- Wire Belt Co. of America: *See*—  
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- Wire-O-Corp.: *See*—  
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- Wire-Tex Corp.: *See*—  
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- Wirkkala, Albert R. Mechanical means for extending the operating radius of a log loading boom. 2,878,946, 3-24-59, Cl. 212—7.
- Wirkkala, Albert R. Grapple for handling logs or the like. 2,916,322, 12-8-59, Cl. 294—112.
- Wirsching, Robert E., to Bell Telephone Laboratories, Inc. Locking push button mechanism. 2,873,334, 2-10-59, Cl. 200—169.
- Wirsching, Robert E., to Bell Telephone Laboratories, Inc. Solderless connector. 2,908,884, 10-13-59, Cl. 339—99.
- Wirsing, Erwin. Fastening device for fastening railroad rails or the like. 2,890,833, 6-16-59, Cl. 238—349.
- Wirt, Harrison L., to General Electric Co. Air-directing vane structure for fluid fuel combustor. 2,916,878, 12-15-59, Cl. 60—39.65.
- Wirt, John R., to General Motors Corp. Laminated article and method of manufacture. 2,878,552, 3-24-59, Cl. 29—180.
- Wirta, Elmer R., to Fairchild Engine and Airplane Corp. Resistance welding. 2,902,589, 9-1-59, Cl. 219—107.
- Wirtel, Arthur F., and C. M. Blair, Jr., to Petrolite Corp. Process for inhibiting corrosion in oil and gas wells. 2,888,399, 5-26-59, Cl. 252—8.55.
- Wirth, Edward C., W. B. Pierce, and A. R. Vogel, to Northrop Aircraft, Inc. Variable authority servo. 2,871,830, 2-3-59, Cl. 12—41.
- Wirth, Friedrich: *See*—  
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- Wirth, Leo J., to The Martin Co. Expansion-permitting hanger. 2,918,239, 12-22-59, Cl. 248—55.
- Wirth, Pierre, to F. E. Jonas. Therapeutic mellitic acid compositions. 2,906,666, 9-29-59, Cl. 167—65.
- Wirth, Raymond E., to Rilco Laminated Products. Scarfing machine. 2,894,545, 7-14-59, Cl. 144—125.
- Wirth, Thomas, K.-H. Nebbuth, and K. Wenger. Oscillating centrifuge. 2,872,045, 2-3-59, Cl. 210—370.
- Wirth, Wolfgang: *See*—  
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- Wirtz Co.: *See*—  
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Wirtz, Robert W., Ratcliff, and Turner. 2,898,828.  
Wirtz, Robert W., Ratcliff, and Turner. 2,898,829.  
Wirtz, Robert W., Ratcliff, and Turner. 2,898,830.
- Wirtz, Robert W., H. B. Ratcliff, and J. S. Turner, Jr., to Wirtz Co. Proportional spacing and justifying mechanism. 2,898,827, 8-11-59, Cl. 95—4.5.
- Wirtz, Robert W., H. B. Ratcliff, and J. S. Turner, Jr., to Wirtz Co. Mechanical indexing apparatus for photocomposing machine. 2,898,828, 8-11-59, Cl. 95—4.5.
- Wirtz, Robert W., H. B. Ratcliff, and J. S. Turner, Jr., to Wirtz Co. Electrical indexing apparatus for photocomposing machine. 2,898,829, 8-11-59, Cl. 95—4.5.
- Wirtz, Robert W., H. B. Ratcliff, and J. S. Turner, Jr., to Wirtz Co. Photocomposing apparatus. 2,898,830, 8-11-59, Cl. 95—4.5.
- Wirtz, Rudolf: *See*—  
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- Wirz, A. H., Inc.: *See*—  
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- Wisby, Warren J.: *See*—  
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- Wischmeyer, Carl R., to Jersey Production Research Co. Electronic gate circuit. 2,868,971, 1-13-59, Cl. 250—27.
- Wisconsin Alumni Research Foundation: *See*—  
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- Wisconsin Laboratories, Inc.: *See*—  
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- Wisdom, Lacy: *See*—  
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- Wisdom, Pollard V.,  $\frac{1}{4}$  each to L. Wisdom, N. K. Savage, and T. Lancer. Sheet folding and pleating machine. 2,890,044, 6-9-59, Cl. 270—79.
- Wise, Charles W. Invalid's bed. 2,913,738, 11-24-59, Cl. 5—67.
- Wise, Clarence L. Mixing device. 2,905,453, 9-22-59, Cl. 259—134.
- Wise, David S.: *See*—  
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- Wise, George. Attachments to cabinets. 2,911,275, 11-3-59, Cl. 312—242.
- Wise, Harold F.: *See*—  
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Ratcliffe, Charles B., and Wise. 2,888,369.
- Wise, Harry L., and R. R. Braun. Compensator device. 2,890,708, 6-16-59, Cl. 137—87.
- Wise, Homer L. Dash board picture frame. 2,887,804, 5-26-59, Cl. 40—152.1.
- Wise, Joseph L. Vertically arranged threshing cylinder assembly for combines. 2,905,182, 9-22-59, Cl. 130—27.
- Wise, Lester V., A. Mann, and G. Buerger, to Bulova Research and Development Laboratories, Inc. Automatic crystal measuring and sorting apparatus. 2,895,612, 7-21-59, Cl. 209—111.
- Wise, Paul H. Arithmetic tutoring device. 2,899,756, 8-18-59, Cl. 35—31.
- Wise Potato Chip Co.: *See*—  
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- Wise, Raleigh J.: *See*—  
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- Wise, Raleigh J., to The Western Union Telegraph Co. Photoconductive facsimile transmitting apparatus. 2,884,486, 4-28-59, Cl. 178—7.1.



- Wise, Raleigh J., and D. M. Zabriskie, to The Western Union Telegraph Co. Facsimile apparatus for use in producing tickets, messages and the like. 2,872,275, 2-3-59, Cl. 346-74.
- Wise, Raleigh J., J. H. Hackenberg, and G. H. Ridings, to The Western Union Telegraph Co. Facsimile optical scanning system. 2,894,065, 7-7-59, Cl. 178-71.
- Wise, Ralph H., to The Anderson Co. Window regulator mechanism. 2,872,184, 2-3-59, Cl. 268-124.
- Wise, Ralph H., to The Anderson Co. Actuator for compound motion vehicular windows. 2,907,564, 10-6-59, Cl. 268-124.
- Wise, Ralph H., to The Anderson Co. Bearing structure. 2,907,610, 10-6-59, Cl. 308-6.
- Wise, Ralph H., to The Anderson Co. Window lift assembly. 2,913,920, 11-24-59, Cl. 74-424.8.
- Wise, Ralph H., to The Anderson Co. Window lift assembly. 2,914,315, 11-24-59, Cl. 268-124.
- Wise, Robert H., to Standard Oil Co. Purification of alcohols and production of esters in the presence of borohydrides. 2,867,651, 1-6-59, Cl. 260-475.
- Wiseley, William E.: See—  
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- Wiseman, Alex D. Variable pitch V-pulley. 2,900,833, 8-25-59, Cl. 74-230.17.
- Wiseman, Arthur W., to The Sheffield Corp. Electric cabinet. 2,885,600, 5-5-59, Cl. 317-99.
- Wiseman, George, to Ciba Co., Inc. Dyeing process. 2,872,279, 2-3-59, Cl. 8-55.
- Wiseman, Joseph. Combined table and chair assembly for children. 2,910,113, 10-27-59, Cl. 155-123.
- Wiseman, Robert M., and J. Troeger. Combined paint and caking compound applicator. 2,913,151, 11-17-59, Cl. 222-323.
- Wiseman, Russell M., to Diamond Alkali Co. Coupling means for screw conveyor. 2,899,042, 8-11-59, Cl. 198-213.
- Wiseman, Thomas A. Disk attachment for a plow. 2,880,813, 4-7-59, Cl. 172-583.
- Wiseman, Walter S.: See—  
Moore, Thomas W., and Wiseman. 2,872,605.
- Wiseman, William, to Continental Motors Corp. Anti-backlash device. 2,896,466, 7-28-59, Cl. 74-440.
- Wisembaker, Lorenzer D. V. Key-seat reamer. 2,904,313, 9-15-59, Cl. 255-73.
- Wisenburg, Ralph D., to Edmont Mfg. Co. Perforated glove. 2,913,729, 11-24-59, Cl. 2-167.
- Wish, Frank W.: See—  
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- Wiskott, Detmar, G. Bartz, and G. Weissenberg, to Ernst Leitz, G.m.b.H. Method of and apparatus for the electronic magnification of objects. 2,901,627, 8-25-59, Cl. 250-49.5.
- Wisman, Franklin O., to Bendix Aviation Corp. Hydro-pneumatic energy storage device. 2,880,759, 4-7-59, Cl. 138-30.
- Wisner, Eli F., Jr. Pipe pick and tamper. 2,894,515, 7-14-59, Cl. 131-243.
- Wisner, Isle R., W. S. Corbin, and H. Walden, to The Black-Clawson Co. Fourdrinier paper making machine. 2,870,691, 1-27-59, Cl. 92-44.
- Wisner, Isle R., W. S. Corbin, and H. Walden, to The Black-Clawson Co. Fourdrinier paper making machine. 2,870,692, 1-27-59, Cl. 92-44.
- Wisnicki, Julian: See—  
Zajac, Michael, and Wisnicki. 2,905,015.
- Wisnieski, John C., to Lyon, Inc. Buffing wheel structure. 2,882,653, 4-21-59, Cl. 51-193.
- Wisotsky, Serge S.: See—  
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Huff, Joseph F., and Wisotsky. 2,882,503.
- Wissinger, Kenneth C. Precast concrete construction. 2,912,849, 11-17-59, Cl. 72-61.
- Wissmann, Joseph T., to Warner Bros. Pictures, Inc. Magnetic record control method and circuits. 2,876,294, 3-3-59, Cl. 179-100.2.
- Wistoft, Soren. Weighing scales. 2,896,934, 7-28-59, Cl. 265-62.
- Wistrich, Harry A., and R. B. Olney, to Shell Development Co. Fluid mixer with rotating baffles. 2,893,846, 7-7-59, Cl. 23-270.5.
- Wistuba, Theo: See—  
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- Wiswall, Richard W.: See—  
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- Wiswell, Grant A. Liquid dispensing apparatus. 2,867,736, 1-6-59, Cl. 307-141.
- Witco Chemical Co., Inc.: See—  
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Hilfer, Harry. 2,890,987.  
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- Withall, William E., to W. H. Miner, Inc. Draft gears for railway draft rigging. 2,914,196, 11-24-59, Cl. 213-45.
- Witherell, Robert R., to Textron Inc. Hydraulic amplifier valve with feedback. 2,904,055, 9-15-59, Cl. 137-623.
- Witherspoon, Jack, Jr., to Robertshaw-Fulton Controls Co. Control device. 2,906,846, 9-29-59, Cl. 219-20.
- Witkowski, Victor, to Eastman Kodak Co. Film gate. 2,874,607, 2-24-59, Cl. 88-17.
- Witman, Eugene D., to Columbia-Southern Chemical Corp. Benzene hexachloride packaging. 2,884,128, 4-28-59, Cl. 206-84.
- Witmer, John M. Rotary dry shaver with waste collecting means. 2,916,821, 12-15-59, Cl. 30-41.5.
- Witt, Elwin O.: See—  
Christoff, Chris A., and Witt. 2,910,936.
- Witt, Elwin O., and C. A. Christoff, to Clary Corp. Printer. 2,915,968, 12-8-59, Cl. 101-93.
- Witt, Frank A., to United States Steel Corp. Apparatus for measuring the length of strip. 2,869,241, 1-20-59, Cl. 33-136.
- Witt, Kenneth F., to Goodspeed Machine Co. Lubricating device. 2,902,064, 9-1-59, Cl. 142-48.
- Witt, Paul R., Jr., and R. G. Shaler,  $\frac{1}{2}$  to The Merto Co. and  $\frac{1}{2}$  to Northwestern Malt & Grain Co. Treatment of grains. 2,898,270, 8-4-59, Cl. 195-70.
- Witt, Richard A.: See—  
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- Witt, Richard P., to United States of America, Commerce. Sine wave collector modulation memory. 2,910,616, 10-27-59, Cl. 315-12.
- Witt, Robert H., and D. S. Lock, to Ford Motor Co. Cutter bar drive. 2,912,814, 11-17-59, Cl. 56-296.
- Wittbecker, Emerson L., to E. I. du Pont de Nemours and Co. Polyamides from hydrocarbon substituted piperazines and carbocyclic dicarboxylic acid. 2,913,433, 11-17-59, Cl. 260-47.
- Wittcoff, Harold: See—  
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- Witte, Roy, to General Time Corp. D-C timing device. 2,909,029, 10-20-59, Cl. 58-41.
- Witte, Waldemar. Electrical appliances. 2,880,306, 3-31-59, Cl. 240-10.65.
- Wittek, Leslie, to Tung-Sol Electric Inc. Filament wire feed means for winding mechanisms. 2,890,736, 6-16-59, Cl. 153-67.
- Wittek Mfg. Co.: See—  
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- Wittel, Frederick H.: See—  
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- Wittel, Otto, to Eastman Kodak Co. Continuous projector having means for eliminating flicker. 2,881,657, 4-14-59, Cl. 88-16.8.
- Wittel, Otto, to Eastman Kodak Co. Film pitch compensating mechanism for photographic apparatus. 2,895,375, 7-21-59, Cl. 88-17.
- Wittelschofer, Ira S., to Central States Paper & Bag Co. Bag-like protective wrapping for automobile bumpers and the like. 2,875,945, 3-3-59, Cl. 229-87.
- Wittmann Co., Inc.: See—  
Ploegert, Anatol T. 2,880,927.
- Witten, Arthur L., Jr., J. F. Marion, and R. E. Henning, to Sperry Rand Corp. Radar system evaluator. 2,876,447, 3-3-59, Cl. 343-17.7.
- Witten, Benjamin: See—  
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- Fischer, Valentine J., Miller, Sass, and Witten. 2,867,509.
- Witten, Leslie B.: See—  
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- Witten, Leslie B., and E. C. Housam, to The British Petroleum Co. Ltd. Desulfurization with fluorine-containing catalyst and regeneration of catalyst. 2,910,432, 10-27-59, Cl. 208-216.
- Wittenberg, Jonah: See—  
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Herrmann, John A., Messing, and Wittenberg. 2,894,080.
- Wittenberg, Kenneth J. Collar attachments. 2,867,815, 1-13-59, Cl. 2-132.
- Wittenberg, Wilford M.: See—  
Snyder, Leonard S., and Wittenberg. 2,872,110.
- Wittenberg, Wilford M., to International Business Machines Corp. Magnetic core memory. 2,910,674, 10-27-59, Cl. 340-174.
- Wittenberger, Wallace W.: See—  
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- Wittenberger, Wallace W., to Baker Perkins, Inc. Conveyor belt. 2,877,888, 3-17-59, Cl. 198-195.
- Witter, Melvin L., 10% to W. R. Struble, and 12 $\frac{1}{2}$ % each to T. B. Akins and M. E. Saunders. Fluid pressure operated air injector. 2,884,000, 4-28-59, Cl. 137-209.
- Witterson, Charles, to Kemlite Laboratories Inc. Photographic flash apparatus. 2,917,668, 12-15-59, Cl. 315-171.
- Wittick, Joseph R. Christmas card stands. 2,913,843, 11-24-59, Cl. 40-124.
- Wittig, Georg: See—  
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Pommer, Horst, and Wittig. 2,917,524.
- Wittke, Ernest C., to Combustion Engineering, Inc. Apparatus for burning fuel. 2,873,099, 2-10-59, Cl. 158-73.
- Wittke, John M.: See—  
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- Wittl, Casimir T., to United States of America, Air Force. Lacing for radome panelling. 2,867,021, 1-6-59, Cl. 24-140.
- Wittlake, Karl H., to Orenda Enginnes Ltd. Variable-resistance device. 2,902,662, 9-1-59, Cl. 338-51.



- Wittler, Fritz, to Zimmermann and Jansen G.m.b.H. Valve arrangement for regeneratively heated furnace. 2,910,284, 10-27-59, Cl. 263-15.
- Wittmann, Georg: *See*—  
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- Wittmoser, Adalbert, to Firma Eisenwerke Gelsenkirchen Akt. Continuous casting apparatus. 2,895,188, 7-21-59, Cl. 22-57.2.
- Wittnebert, Frederick R., to Dupli-Color Products Co., Inc. Fountain brush with orifice guided brush retractor and closure cap. 2,875,462, 3-3-59, Cl. 15-139.
- Wittren, Richard A.: *See*—  
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- Wittren, Richard A., to Deere & Co. Selective brake system. 2,894,608, 7-14-59, Cl. 188-152.
- Wittren, Richard A., to Deere & Co. Selector means. 2,917,941, 12-22-59, Cl. 74-473.
- Wittren, Richard A., to Deere & Co. Hydraulic system, especially for steering. 2,918,135, 12-22-59, Cl. 180-79.2.
- Wittrock, Harold R. Combination printing and die scoring and cutting presses for paper box blanks and the like. 2,892,390, 6-30-59, Cl. 93-58.
- Wittry, David B., to California Institute Research Foundation. Electron probe microanalyzer. 2,916,621, 12-8-59, Cl. 250-49.5.
- Wittwer, Bernard W., to International Business Machines Corp. Clutch and pawl control for carriage return mechanisms. 2,872,013, 2-3-59, Cl. 197-66.
- Wittwer, Norman C., Jr., to Bell Telephone Laboratories, Inc. Electrode support and spacing structure for electron discharge devices. 2,886,734, 5-12-59, Cl. 313-270.
- Witty, Ralph P. D., and J. A. Drum, to Canada Packers Ltd. Stabilized vasoconstrictor-enzyme preparation. 2,887,435, 5-10-59, Cl. 167-58.
- Witz, Henry W., to Nursmatic Corp. Nursing bottle nipple with control valve. 2,876,772, 3-10-59, Cl. 128-252.
- Witz, Henry W., to Nursmatic Corp. Valve-controlled nursing bottle nipple. 2,876,773, 3-10-59, Cl. 128-252.
- Witz, Samuel, to Aerojet-General Corp. Method of preparing boron trialkyl. 2,891,997, 6-23-59, Cl. 260-606.5.
- Witzel, Homer D., to Deere & Co. Power transmission mechanism and control therefor. 2,888,840, 6-2-59, Cl. 74-710.5.
- Witzig, Emil K. Radial drilling machine. 2,874,596, 2-24-59, Cl. 77-28.
- Witzke, Ernest C., to Combustion Engineering, Inc. Insulated boiler wall. 2,900,965, 8-25-59, Cl. 122-6.
- Witzky, Julius E.: *See*—  
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- Witzky, Julius E. Stratified spark ignition internal combustion engine. 2,882,873, 4-21-59, Cl. 123-32.
- Witzky, Julius E. Variable compression ratio type engine. 2,910,973, 11-3-59, Cl. 123-48.
- Witzky, Julius E., and R. R. Johnston, to Studebaker-Packard Corp. Relief valve. 2,914,295, 11-24-59, Cl. 251-216.
- Wix Corp.: *See*—  
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Humbert, Kingsley E., Jr. 2,897,966.  
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- Wixson, Homer C.: *See*—  
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- Wlasuk, Steven, to Radio Corp. of America. Modulator circuit. 2,875,414, 2-24-59, Cl. 332-52.
- Wlengel, Johan, to Elektrokemisk A/S. Arrangement of the vertical contact rods of self-baking anodes in furnace for electrolytic recovery of aluminum. 2,880,157, 3-31-59, Cl. 204-243.
- Wlodek, Tadeusz W. Physical properties of metal and other plastic materials in structural members. 2,901,926, 9-1-59, Cl. 76-108.
- Wodal, Francis A. Electric switch. 2,912,548, 11-10-59, Cl. 200-168.
- Wode, Nils, and U. Holm, to Margarinbolaget Aktiebolag. Process for improving the taste and flavor of margarine and other foods and edible substances. 2,903,364, 9-8-59, Cl. 99-123.
- Wodetzky, Elmer: *See*—  
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- Woebecke, Herman N.: *See*—  
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- Woebecke, Herman N., to Hydrocarbon Research, Inc. Gasification process. 2,868,631, 1-13-59, Cl. 48-206.
- Woebecke, Herman N., to Hydrocarbon Research, Inc. Conversion of hydrocarbons. 2,885,343, 5-5-59, Cl. 208-59.
- Woebecke, Herman N., to Mobay Chemical Co. Apparatus for controlling temperatures. 2,915,299, 12-1-59, Cl. 259-8.
- Woerber, Carl E. and R. V., to The Forsum Co. Shipping and display cartons. 2,881,914, 4-14-59, Cl. 206-65.
- Woerber, Raymond V.: *See*—  
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- Woehling, John G., and R. Friedli, Jr., to Radio Corp. of America. Sleeve for indirectly heated cathode. 2,900,554, 8-18-59, Cl. 313-337.
- Woehr, William A.: *See*—  
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- Woehrl, Harry G., Jr.: *See*—  
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- Woelfel, Donald G. Housing and interchangeable magazine for endless film. 2,917,308, 12-15-59, Cl. 271-218.
- Woelfer, Robert O. Machine for handling cartons to be filled. 2,896,520, 7-28-59, Cl. 93-53.
- Woerner, Rudolph C.: *See*—  
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- Woerner, William. Coded drill bushing. 2,915,926, 12-8-59, Cl. 77-62.
- Woerther, Clarence, to International Minerals & Chemicals Corp. Deenameling process. 2,870,048, 1-20-59, Cl. 134-29.
- Woertz, Byron B., to The Pure Oil Co. Catalytic cracking process. 2,890,164, 6-9-59, Cl. 208-74.
- Woessner, Harry N.: *See*—  
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- Woestmeyer, Henry J. Automatic transmission. 2,880,627, 4-7-59, Cl. 74-688.
- Woestman, John W., and D. E. Felts, to United States of America, Navy. Pulse amplitude responsive circuit. 2,892,941, 6-30-59, Cl. 250-27.
- Wognum, James N.: *See*—  
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- Wognum, James N., M. J. Teibel, and W. S. Wognum, to Twin Martin Corp. Chain link removing tool. 2,895,289, 7-21-59, Cl. 59-7.
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- Wohl, Robert J. Radiation-to-current transducer-amplifier and recorder. 2,883,543, 4-21-59, Cl. 250-49.5.
- Wohler, Friedrich A. Binocular telescope with built-in rangefinder. 2,910,912, 11-3-59, Cl. 88-34.
- Wohler, Guido, to Ciba Ltd. Apparatus for determining rates of change in weight. 2,879,054, 3-24-59, Cl. 265-27.
- Wohler, Leonard A. Compression tester. 2,913,899, 11-24-59, Cl. 73-94.
- Wohler, Viktor, to Ciba Ltd. Controlling means for rotary machines. 2,899,131, 8-11-59, Cl. 233-1.
- Wohlens, Herbert C., to Allied Chemical Corp. Process for removing meta-xylene from mixtures of xylene isomers including the para isomer by means of chlorination. 2,889,382, 6-2-59, Cl. 260-674.
- Wohlfeil, Leonard H. Rolling type dough cutting device. 2,915,823, 12-8-59, Cl. 30-306.
- Wohlferth, Harry C., and R. J. Martin, to General Electric Co. Commutator cone. 2,880,336, 3-31-59, Cl. 310-236.
- Wohlman, Fred: *See*—  
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- Wohlman, Fred, to Hughes Aircraft Co. Mounting device for semiconductor bodies. 2,877,533, 3-17-59, Cl. 29-25.3.
- Wohlman, Fred, to Hughes Aircraft Co. Object joining and sealing device. 2,877,603, 3-17-59, Cl. 49-1.
- Wohlman, Fred, to Hughes Aircraft Co. Diode taping machine. 2,915,212, 12-1-59, Cl. 216-9.
- Wohlman, Fred, Jr., to Hughes Aircraft Co. Semiconductor taping apparatus. 2,885,849, 5-12-59, Cl. 53-198.
- Wohnseidler, Henry P., to American Cyanamid Co. Quaternary ammonium hydroxide stabilized cationic aminoformaldehyde solution and process for making same. 2,884,395, 4-28-59, Cl. 260-29.4.
- Wohr, Thomas E., to International Business Machines Corp. Ring circuit. 2,882,424, 4-14-59, Cl. 307-88.5.
- Wojciak, Thaddeus J.: *See*—  
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- Wojciak, Thaddeus J., J. S. Kane, and F. T. Stanchus, to Union Carbide Corp. Gas shielded metal arc welding torch. 2,876,334, 3-3-59, Cl. 219-130.
- Wojciak, Thaddeus J., and P. R. Schaefer, to Union Carbide Corp. Gas shielded arc torch. 2,881,305, 4-7-59, Cl. 219-130.
- Wojciechowski, Bogumil M., to Western Electric Co., Inc. Three electrode capacitor. 2,897,422, 7-28-59, Cl. 317-249.
- Wojcik, Joseph W. Circular scriber. 2,894,328, 7-14-59, Cl. 33-27.
- Wolar, Isidore. Stem hangers for lighting fixtures. 2,902,245, 9-1-59, Cl. 248-317.
- Wolar, Isidore. Lighting fixture supports. 2,906,488, 9-29-59, Cl. 248-339.
- Wolar, Isidore. Lighting fixture hanger. 2,916,249, 12-8-59, Cl. 248-327.
- Wolar, Isidore. Hangers for cord supported fixtures. 2,916,250, 12-8-59, Cl. 248-345.
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- Wolcott, Frank E. Reusable pressurized dispenser. 2,888,173, 5-26-59, Cl. 222-183.
- Wolcott, Henry O., to International Telephone and Telegraph Corp. Variable frequency oscillators. 2,904,757, 9-15-59, Cl. 331-180.
- Wold, Rebecca J. Surgical mask. 2,905,173, 9-22-59, Cl. 128-146.
- Wolf, Alfred, to Geophysical Research Corp. Seismic reflection prospecting technique. 2,872,995, 2-10-59, Cl. 181-5.



- Wolf, Alfred A., to Fidelity Instrument Corp. Blasting cap electric firing system. 2,892,128, 6-23-59, Cl. 317-80.
- Wolf, Alfred A. Polypulse generator. 2,906,963, 9-29-59, Cl. 331-144.
- Wolf, Alfred A. Electronic expander circuit. 2,915,629, 12-1-59, Cl. 250-27.
- Wolf, Bertram H., to Stavid Engineering, Inc. Automatic range search-range integrator circuit for automatic tracking radar range units and other applications. 2,887,578, 5-19-59, Cl. 250-27.
- Wolf Brothers, Inc.: *See*—  
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- Wolf, Calvin N.: *See*—  
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- Wolf, Carl W. Mobile unit and track system therefor. 2,913,997, 11-24-59, Cl. 104-148.
- Wolf, Dale E.: *See*—  
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- Wolf, Donald E.: *See*—  
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- Wolf, Donald E., and C. H. Hoffman, to Merck & Co., Inc. Preparation of 3-methyl-3,5-dihydroxypentanoic acid and the delta-lactone thereof. 2,915,531, 12-1-59, Cl. 260-343.5.
- Wolf, Donald E., and C. H. Hoffman, to Merck & Co., Inc. Esters of 3-methyl-3,5-dihydroxy pentanoic acid. 2,915,551, 12-1-59, Cl. 260-484.
- Wolf, Edward. Mechanic's jack. 2,906,497, 9-29-59, Cl. 254-10.
- Wolf, Edward L., to General Dynamics Corp. Three-state electronic circuit. 2,901,641, 8-25-59, Cl. 307-88.5.
- Wolf, Edward L., to General Dynamics Corp. Rate selector circuit. 2,916,552, 12-8-59, Cl. 179-9.
- Wolf, Emanuel.: *See*—  
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- Wolf, Forrest R., and F. E. Cerveney, to The Dole Valve Co. Solenoid construction. 2,889,497, 6-2-59, Cl. 317-158.
- Wolf, Gerhard, to Kienzle Apparate G.m.b.H. Method and apparatus for translating multi-order signals from a magnetic record of print. 2,882,817, 4-21-59, Cl. 101-93.
- Wolf, Herbert.: *See*—  
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- Wolf, Herman B. Electrically heated mat. 2,889,445, 6-2-59, Cl. 219-46.
- Wolf, Jacques, & Co.: *See*—  
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- Wolf, Joseph E.: *See*—  
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- Wolf, Leo.: *See*—  
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- Wolf, Martin.: *See*—  
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- Wolf, Maurice.: *See*—  
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- Wolf, Maurizio, to Fiat Societa per Azioni. Variable transmission. 2,878,692, 3-24-59, Cl. 74-796.
- Wolf, Michael J.: *See*—  
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- Wolf, Paul. Method of making closed filled wafer strips. 2,888,887, 6-2-59, Cl. 107-54.
- Wolf, Perry, M., S., and E. Oil storage tank vent spill-preventing device. 2,904,081, 9-15-59, Cl. 141-290.
- Wolf, Ralph F., to Columbia-Southern Chemical Corp. Synthetic rubbers reinforced with siliceous pigments. 2,903,439, 9-8-59, Cl. 260-23.7.
- Wolf, Richard S.: *See*—  
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- Wolf, Robert A., to General Electric Co. Electric heating unit. 2,874,261, 2-17-59, Cl. 219-37.
- Wolf, Robert C., and J. C. Bowen, to Pressure Products Industries, Inc. Seals for pressure vessels. 2,873,878, 2-17-59, Cl. 220-46.
- Wolf, Roland.: *See*—  
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- Wolf, Walter A., to Switches, Inc. Electromagnetic stepping switch. 2,912,537, 11-10-59, Cl. 200-87.
- Wolf, Walter E., and J. Ulsamer, to Westwaggon, Vereinigte Westdeutsche Waggonfabriken Akt. Adjustable axle guide for rail vehicles. 2,875,705, 3-3-59, Cl. 105-224.
- Wolf, Walther.: *See*—  
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- Wolf, Willy.: *See*—  
Krzikalla, Hans, Engel, Wolf, and Pohlemann. 2,905,639.
- Wolfe, Bernard J.: *See*—  
Mayo, Clyde R., and Wolfe. 2,878,732.  
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- Wolfe, Charles M.: *See*—  
Fairbanks, Avard F., and Wolfe. 2,877,354.  
Gailliot, Joseph M., Jr., Wolfe, and Baker. 2,878,349.
- Wolfe, Duane M., to American Iron & Machine Works Co., Inc. Trepanning head. 2,869,405, 1-20-59, Cl. 77-69.
- Wolfe, Fred C. Carburetor idler jet control means. 2,886,020, 5-12-59, Cl. 123-124.
- Wolfe, Harry H., to The Buckeye Steel Castings Co. Railway coupler. 2,869,736, 1-20-59, Cl. 213-72.
- Wolfe, James D., to Kerr-McGee Oil Industries, Inc. Treatment of organic materials. 2,919,245, 12-29-59, Cl. 208-252.
- Wolfe, John A.: *See*—  
Forte, Donald J., and Wolfe. 2,899,655.
- Wolfe, John D.: *See*—  
Hamilton, Francis E., Wolfe, and Jackowski. 2,902,213.
- Wolfe, John K., to General Electric Co. Octafluorocyclobutane as a dielectric material. 2,886,625, 5-12-59, Cl. 174-15.
- Wolfe, John S., to General Motors Corp. Method of soldering. 2,875,091, 2-24-59, Cl. 117-52.
- Wolfe, Homer L., to L-O-F Glass Fibers Co. Tube-holding mechanism. 2,891,739, 6-23-59, Cl. 242-110.
- Wolfe, Lewis H.: *See*—  
Ritz, Kenneth E., Schulke, and Wolfe. 2,885,156.
- Wolfe, Morton B., to Berger Bros. Co. Gutter hanger clip. 2,899,157, 8-11-59, Cl. 248-48.1.
- Wolfe, Paul G., and A. Hopengarten, to Philco Corp. Line detection system for cathode ray tubes. 2,898,512, 8-4-59, Cl. 315-27.
- Wolfe, Robert M., to Bell Telephone Laboratories, Inc. Electrical circuits. 2,910,670, 10-27-59, Cl. 340-174.
- Wolfe, Roger W., to Burroughs Corp. Transfer storage counters. 2,906,915, 9-29-59, Cl. 315-8.5.
- Wolfe, Roger W., and W. I. de Versterre, to Burroughs Corp. Beam clearing and resetting circuit. 2,877,378, 3-10-59, Cl. 315-21.
- Wolfe, William E., and R. A. Horn. Solderless electrical connector. 2,887,667, 5-19-59, Cl. 339-100.
- Wolfe, William G., to E. Long, Ltd. Bottom dump skip. 2,889,947, 6-9-59, Cl. 214-103.
- Wolfsendale, Eric, to North American Philips Co., Inc. Voltage stabilizing circuit. 2,897,431, 7-28-59, Cl. 323-22.
- Wolfsendale, Eric, to North American Philips Co., Inc. Shock-excited circuit employing transistors. 2,912,655, 11-10-59, Cl. 331-117.
- Wolfsendale, Frederick C., to Electric & Musical Industries Ltd. Servosystem with proportionality factor change provision. 2,912,630, 11-10-59, Cl. 318-19.
- Wolferd, Leon C.: *See*—  
Tewksbury, Robert A., and Wolferd. 2,885,639.
- Wolff, Carl K.: *See*—  
Wurtz, John W., and Wolff. 2,880,019.
- Wolff, Eberhard.: *See*—  
Jucker, Ernst, Rissi, Suess, Vogel, and Wolff. 2,871,241.  
Jucker, Ernst, Rissi, Suess, Vogel, and Wolff. 2,883,389.
- Wolff, Edwin H.: *See*—  
Thomas, Jesse B., and Wolff. 2,908,070.
- Wolff, Ernst A., to The Kendall Co. Pressure sensitive adhesive sheet material. 2,884,342, 4-28-59, Cl. 117-122.
- Wolff, Ernst A., to The Kendall Co. Adhesive sheet material. 2,887,403, 5-19-59, Cl. 117-68.5.
- Wolff, Ernst R.: *See*—  
Wenzel, Lyle J., and Wolff. 2,874,252.
- Wolff, Ernst R., to General Electric Co. Electric switch. 2,897,319, 7-28-59, Cl. 200-122.
- Wolff, Franz-Toni, 50% to J. F. Cassel. Carpet and method of producing same. 2,904,871, 9-22-59, Cl. 28-15.
- Wolff, George M., and C. D. Richardson, to General Electric Co. Composite mica paper, mica flake electrical insulating material. 2,917,570, 12-15-59, Cl. 174-120.
- Wolff, Guenter A. Method of purification of silicon compounds. 2,877,097, 3-10-59, Cl. 23-205.
- Wolff, Hans.: *See*—  
Hayes, Lester P., and Wolff. 2,881,195.
- Wolff, Harry O. Attaching device. 2,869,201, 1-20-59, Cl. 24-81.
- Wolff, Irving, to Radio Corp. of America. Pulse echo recognition systems. 2,885,665, 5-5-59, Cl. 343-6.5.
- Wolff, Ivan A.: *See*—  
Hofreiter, Bernard T., Wolff, and Mehlretter. 2,894,945.
- Wolff, John A., to Baso Inc. Burner control system having opposing thermoelectric generators. 2,891,610, 6-23-59, Cl. 158-131.
- Wolff, Nikolaus E., to E. I. du Pont de Nemours and Co. Co-telomers and process for making them. 2,907,795, 10-6-59, Cl. 260-614.
- Wolff, Otto E.: *See*—  
Bing, Herbert A., Wareham, and Wolff. 2,873,659.
- Wolff, Otto E., to Polaroid Corp. Process and apparatus for forming liquid-filled containers. 2,903,829, 9-15-59, Cl. 53-28.
- Wolff, Richard H.: *See*—  
Johnson, Thomas W., and Wolff. 2,878,827.
- Wolff, Walter M.: *See*—  
Baker, Paul W., and Wolff. 2,917,163.
- Wolff, William F., and P. Hill, to Standard Oil Co. Process for removing sulfur and aromatics from hydrocarbons with an alkali metal oxide impregnated active carbon adsorbent. 2,877,176, 3-10-59, Cl. 208-208.
- Wolfe, Leonard I.: *See*—  
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- Wolfgang, Rodger C.: *See*—  
Werr, John F., and Wolfgang. 2,877,835.
- Wolfgang, Rodger C., to Minneapolis-Honeywell Regulator Co. Control apparatus for burners. 2,877,836, 3-17-59, Cl. 158-28.



- Wolford, L. W., Sr.: *See*—  
Peck, George R. 2,899,336.
- Wolford, Wallace W., to Owens-Illinois Glass Co. Container handling apparatus. 2,879,883, 3-31-59, Cl. 198—33.
- Wolford, Wallace W., to Owens-Illinois Glass Co. Glass container inspecting apparatus. 2,890,786, 6-16-59, Cl. 198—33.
- Wolfram, George, and A. Manteuffel, to The Pure Oil Co. Extreme pressure lubricants. 2,873,254, 2-10-59, Cl. 252—46.6.
- Wolfram, George, and J. B. Stucker, to The Pure Oil Co. Extreme pressure lubricant. 2,885,363, 5-5-59, Cl. 252—46.6.
- Wolfram, Norman E. Method and apparatus for removal of tree stumps. 2,874,655, 2-24-59, Cl. 110—21.
- Wolfram, Norman E. Rock drill bit. 2,879,037, 3-24-59, Cl. 255—64.
- Wolfram, Norman E. Rock drilling apparatus. 2,913,225, 11-17-59, Cl. 255—49.
- Wolfram, William S.: *See*—  
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- Wolfram, William S., to General Motors Corp. Stabilizer controlled leveling valve for air suspended vehicle. 2,888,270, 5-26-59, Cl. 280—124.
- Wolfram, William S., to General Motors Corp. Wheel assembly. 2,903,036, 9-8-59, Cl. 152—49.
- Wolfrom, Robert E., to Rohm & Haas Co. Non-woven fibrous products. 2,915,418, 12-1-59, Cl. 117—140.
- Wolfrom, Robert E., to Rohm & Haas Co. Stabilization of protein-fiber-containing textiles. 2,915,419, 12-1-59, Cl. 117—141.
- Wolfrum, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Pyrazolone-1-carboxylic acid amidine monoazo dyestuffs. 2,906,747, 9-29-59, Cl. 260—163.
- Wolfson, Anthony S.: *See*—  
Levin, Martin E., Wolfson, and Young. 2,909,690.
- Wolfson, Byron L. Automatic jump rope. 2,911,063, 11-3-59, Cl. 185—37.
- Wolfson, William B., P. J. King, C. A. Baer, and P. J. Clough, said Baer and said Clough assors. to National Research Corp., and said Wolfson and said King assors. to Consolidated Paper Bag Co. Method of producing aluminized paper. 2,897,095, 7-28-59, Cl. 117—70.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Printable polyethylene film. 2,870,043, 1-20-59, Cl. 117—138.8.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Chlorination of polyester structure. 2,876,185, 3-3-59, Cl. 204—158.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Treatment of polyester structure. 2,876,186, 3-3-59, Cl. 204—158.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Treatment of polyester structure. 2,876,187, 3-3-59, Cl. 204—158.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Surface treatment of polyethylene structures. 2,878,519, 3-24-59, Cl. 18—48.
- Wolinski, Leon E., to E. I. du Pont de Nemours and Co. Process of making polyethylene film receptive to organic coating. 2,909,443, 10-20-59, Cl. 117—16.
- Wolke, Raymond W. Ticket holding apparatus. 2,915,178, 12-1-59, Cl. 206—73.
- Wolke, Raymond W. Ticket container and adjustable ticket divider and indicator therefor. 2,915,189, 12-1-59, Cl. 211—10.
- Wolke, Roy K., J. A. Chase, and F. J. Pilas, to Radio Corp. of America. Apparatus for automatically assembling electron tube parts to form an electrode cage. 2,884,684, 5-5-59, Cl. 29—25.19.
- Wolke, Roy K., J. A. Chase, and F. J. Pilas, to Radio Corp. of America. Apparatus for and method of assembling an electrode cage for electron discharge devices. 2,917,812, 12-22-59, Cl. 29—25.19.
- Wollenberg, Joseph. Can opener. 2,899,100, 8-11-59, Cl. 220—48.
- Woll, Edward, to General Electric Co. Combustion system for thermal powerplant. 2,914,912, 12-1-59, Cl. 60—35.6.
- Woll, Harry J., to Radio Corp. of America. Semi-conductor filter circuits. 2,892,164, 6-23-59, Cl. 333—80.
- Woll, Harry J., to Radio Corp. of America. Semi-conductor multivibrator circuit. 2,901,639, 8-25-59, Cl. 307—88.5.
- Woll, Harry J., to Radio Corp. of America. Wide band signal amplifier circuit. 2,913,539, 11-17-59, Cl. 179—171.
- Wollenhaupt, Jakob, to Gebrüder Honsberg. Boring unit. 2,902,891, 9-8-59, Cl. 77—34.6.
- Wollenhaupt, Louis C.: *See*—  
Sternner, Frank W., W. J. Wollenhaupt, Jr., and L. C. Wollenhaupt. Re. 2,4722.
- Wollenhaupt, William J., Jr.: *See*—  
Sternner, Frank W., W. J. Wollenhaupt, Jr., and L. C. Wollenhaupt. Re. 2,4722.
- Wollentin, Alvin O., and A. Hanek, to Westinghouse Electric Corp. Contact assembly for welding apparatus. 2,885,528, 5-5-59, Cl. 219—57.
- Wollentin, Otto R.: *See*—  
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- Wollentin, Robert W.: *See*—  
Greiner, Arno, and Wollentin. 2,877,804.
- Wöllner, Johannes: *See*—  
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- Wollthan, Heinz: *See*—  
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- Wolnak, Bernard: *See*—  
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Cantor, Sidney M., Faller, and Wolnak. 2,890,118.  
Wolnak, Stanley C. to The Illinois Lock Co. Lock. 2,883,848, 4-28-59, Cl. 70—367.
- Wolock, Sydney: *See*—  
Kushynski, Leon, and Wolock. 2,914,105.
- Wolpin, Martin P.: *See*—  
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- Wolshin, Louis, 50% to S. Axelrod. Swimming and diving aid. 2,906,263, 9-29-59, Cl. 128—142.
- Wolske, Lawrence E., to Whirlpool Corp. Rotisserie with automatic basting mechanism. 2,885,951, 5-12-59, Cl. 99—346.
- Wolsky, Sumner P., to Raytheon Mfg. Co. Ohmic semiconductor contact. 2,879,457, 3-24-59, Cl. 317—235.
- Wolston, Clinton M., Jr., and G. W. Jack, to The American Oil Co. Laboratory distillation testing apparatus. 2,894,881, 7-14-59, Cl. 202—172.
- Wolter, Harry A., and G. L. Vaughan, to Diamond Gardner Corp. Spring clothespin packaging. 2,902,750, 9-8-59, Cl. 29—211.
- Wolter, Herbert R.: *See*—  
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- Wolverine Equipment Co.: *See*—  
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- Wolverine Porcelain Enameling Co.: *See*—  
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- Wolverton, Marcine P., to United Mfg. Co. Ball retarding device. 2,879,064, 3-24-59, Cl. 273—47.
- Womack, Jack M.: *See*—  
Hsu, John P. T., and Womack. 2,875,922.
- Womack, Sherman E.: *See*—  
Lawhorn, Roger W., Woodcock, and Womack. 2,893,252.  
Womble, Sherman C., Jr. Follower latch for cartridge magazines. 2,885,811, 5-12-59, Cl. 42—50.
- Womersley, John R., and R. Townsend, to International Computers and Tabulators Ltd. Electronic adding devices. 2,898,042, 8-4-59, Cl. 235—170.
- Wommack, Sidney J., H. A. Kahn, and J. F. Keating, to Olin Mathieson Chemical Corp. Method and apparatus for roll coating webs. 2,918,393, 12-22-59, Cl. 117—111.
- Wonder Products Co.: *See*—  
Thoeming, George R. 2,888,775.  
Thoeming, George R. 2,891,792.
- Wondisford, Floyd E., to Youngstown Mfg., Inc. Vinyl insert-type threshold plate. 2,877,518, 3-17-59, Cl. 20—64.
- Wondra, Raymond O., to Western Electric Co., Inc. Machine for assembling screw eyes and porcelain insulators. 2,884,689, 5-5-59, Cl. 29—203.
- Wondrack, Edward R. Camping pack. 2,896,754, 7-28-59, Cl. 190—43.
- Wong, Lan J. Evacuation valve cup. 2,916,059, 12-8-59, Cl. 141—65.
- Wong, Lem: *See*—  
Sensiper, Samuel, and Wong. 2,911,555.
- Woo, Way D., to Raytheon Co. Pulse shaping circuits. 2,909,659, 10-20-59, Cl. 250—27.
- Woo, Wenfoo G., to Raytheon Mfg. Co. Electron discharge devices. 2,875,377, 2-24-59, Cl. 315—52.
- Woo, Wenfoo G., to Raytheon Co. Grid support wedges. 2,910,608, 10-27-59, Cl. 313—260.
- Wood Brothers Mfg. Co.: *See*—  
Wood, Leonard W. 2,889,677.  
Wood, Mervel E. 2,872,831.
- Wood, Byron A. Method of and means for steam treating and vibrating garments. 2,911,729, 11-10-59, Cl. 34—37.
- Wood, Charles J., to Superior Rubber Mfg. Co. Link mat structure. 2,885,748, 5-12-59, Cl. 20—78.3.
- Wood, Charles J., to Superior Rubber Mfg. Co. Splash attachment. 2,910,098, 10-27-59, Cl. 141—285.
- Wood, Charles W., and C. W. Bondurant, to Standard Thomson Corp. Calibration apparatus. 2,889,700, 6-9-59, Cl. 73—1.
- Wood, Charles W., and C. W. Bondurant, to Standard-Thomson Corp. Thermostatic valve with safety lock. 2,891,730, 6-23-59, Cl. 236—34.
- Wood, Claude O., to Goodman Mfg. Co. Ground protection device. 2,881,361, 4-7-59, Cl. 317—18.
- Wood Conversion Co.: *See*—  
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Videen, Otis R., and Bergstrom. 2,912,350.  
Videen, Otis R., and Johnson. 2,912,349.
- Wood, David D.: *See*—  
Wood, George B. 2,888,158.
- Wood, Donald, to Hill Cross Co., Inc. Reticular structure. 2,869,693, 1-20-59, Cl. 189—34.
- Wood, Donald W.: *See*—  
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Hunt, John C., Maisel, and Wood. 2,906,787.
- Wood, Edward L., to Gar Wood Industries, Inc. Tire trim. 2,901,292, 8-25-59, Cl. 301—37.
- Wood, Edward L., to Gar Wood Industries, Inc. Tire trim-wheel trim structure. 2,909,390, 10-20-59, Cl. 301—37.



- Wood, Edward L., to Gar Wood Industries, Inc. Tire trim. 2,918,329, 12-22-59, Cl. 301-37.
- Wood, Elwood S., Jr. Illuminated surgical and dental instruments. 2,885,537, 5-5-59, Cl. 240-646.
- Wood, Elwood S., Jr. Convertible baby crib and playpen. 2,901,755, 9-1-59, Cl. 5-99.
- Wood, Elwood S., Jr. Convertible bassinet and child's vehicle. 2,902,286, 9-1-59, Cl. 280-31.
- Wood, Fenton M.: *See*—  
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Price, Berry G., Unger, and Wood. 2,878,447.  
Price, Berry G., Wood, and Unger. 2,881,386.  
Price, Berry G., Wood, and Unger. 2,882,488.  
Price, Berry G., Wood, and Unger. 2,908,085.  
Price, Berry G., Wood, and Unger. 2,909,393.
- Wood, Fenton M., to Tuboscope Co. Pipe inspection. 2,881,387, 4-7-59, Cl. 324-37.
- Wood, Floyd W., to United States of America, Interior. Electrode for melting and arc welding zirconium metal. 2,892,924, 6-30-59, Cl. 219-118.
- Wood, Frank A., to Zenith Radio Corp. High frequency transformer assembly. 2,892,985, 6-30-59, Cl. 333-78.
- Wood, Frederic E.: *See*—  
Gienger, Fred, and Wood. 2,890,316.  
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- Wood, Frederick. Self mastering device for precision setting of tool bits. 2,891,317, 6-23-59, Cl. 33-185.
- Wood, Frederick B.: *See*—  
Quade, Edward A., and Wood. 2,899,657.
- Wood, Frederick C., to Union Oil Co. of California. Hydrocarbon conversion process including removal of elemental sulfur by water washing. 2,891,905, 6-23-59, Cl. 208-136.
- Wood, Frederick C., to Union Oil Co. of California. Process for the simultaneous desulfurization and conversion of hydrocarbons. 2,891,906, 6-23-59, Cl. 208-136.
- Wood, Fredric E., to General Telephone Laboratories, Inc. Sensitive relay. 2,896,048, 7-21-59, Cl. 200-104.
- Wood, Gar, Industries: *See*—  
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- Wood, Gar, Industries, Inc.: *See*—  
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Spisak, Edward G. 2,910,323.  
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Wood, Edward L. 2,909,390.  
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Wreford, John S., and Harris. 2,906,807.
- Wood, George: *See*—  
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- Wood, George, to Vickers-Armstrongs Ltd. Regulating means for boiler feed pumps. 2,870,775, 1-27-59, Cl. 137-98.
- Wood, George. Hydraulic lash adjusters. 2,887,996, 5-26-59, Cl. 123-90.
- Wood, George B., 1/2 to D. D. Wood. Refuse vehicle loading devices. 2,888,158, 5-26-59, Cl. 214-508.
- Wood, George H., Jr., C. E. Neale, and R. E. Hawes, to The Apponaug Co. Method of printing on web material. 2,878,096, 3-17-59, Cl. 8-62.
- Wood, George R., Sr. Compass visualizer. 2,904,885, 9-22-59, Cl. 33-1.
- Wood, George W., to Westinghouse Electric Corp. Air conditioning apparatus. 2,905,454, 9-22-59, Cl. 261-30.
- Wood, Herbert H., to Thomas Walker, Ltd. Means for attaching prong-carrying fasteners to a garment. 2,916,740, 12-15-59, Cl. 1-4.
- Wood, Hugh, and Co. Ltd.: *See*—  
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- Wood, James L., to Manufacturers and Marketers, Inc. Evaporative cooler. 2,910,279, 10-27-59, Cl. 261-24.
- Wood, James M., Jr., to Ethyl Corp. Production of sodium. 2,876,181, 3-3-59, Cl. 204-68.
- Wood, James Q.: *See*—  
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- Wood, James Q., to Phillips Petroleum Co. Carbon black plant emergency shutdown system. 2,886,567, 5-12-59, Cl. 23-259.5.
- Wood, James Q., to Phillips Petroleum Co. Process and apparatus for carbon black handling and pelleting. 2,917,374, 12-15-59, Cl. 23-314.
- Wood, James Q., and L. W. Pollock, to Phillips Petroleum Co. Process for producing carbon black. 2,867,508, 1-6-59, Cl. 23-209.4.
- Wood, James Q., and A. J. Andrews, to Phillips Petroleum Co. Controlling feedstock temperature in combustion process. 2,895,805, 7-21-59, Cl. 23-209.6.
- Wood, John A.: *See*—  
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- Wood, John G., S. B. Hainsworth, and B. Tebb, to Mastabar Mining Equipment Co. Ltd. Slip coupling for belt fastening machines. 2,870,886, 1-27-59, Cl. 192-3.5.
- Wood, Joseph D.: *See*—  
Caswell, Arthur S., and Wood. 2,905,793.
- Wood, Joseph D., to I-T-E Circuit Breaker Co. Solenoid interrupter. 2,868,927, 1-13-59, Cl. 200-144.
- Wood, Joseph D., to I-T-E Circuit Breaker Co. Recirculating gas blast interrupter. 2,911,507, 11-3-59, Cl. 200-148.
- Wood, Joseph D., to I-T-E Circuit Breaker Co. Multiple break air magnetic breaker. 2,916,588, 12-8-59, Cl. 200-145.
- Wood, Joseph D., and G. E. Heberlein, to I-T-E Circuit Breaker Co. Fused drawout switchgear. 2,885,501, 5-5-59, Cl. 200-50.
- Wood, Joseph E., deceased, by F. M. Ovens, administratrix, 1/2 to R. C. Ovens. Ironing boards. 2,885,803, 5-12-59, Cl. 38-117.
- Wood, Joseph F., and C. H. Hopkins, to Skelly Oil Co. Liquid fuel composition. 2,878,109, 3-17-59, Cl. 44-58.
- Wood, Joseph K., to General Spring Corp. Spring support. 2,896,888, 7-28-59, Cl. 248-54.
- Wood, Judson A.: *See*—  
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- Wood, Leonard W., to Wood Brothers Mfg. Co. Cutter assembly. 2,889,677, 6-9-59, Cl. 56-295.
- Wood, Loren E.: *See*—  
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Leusler, Wayne E., Wood, and Teal. 2,868,314.
- Wood, Louvan E.: *See*—  
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- Wood, Mervel E., to Wood Brothers Mfg. Co. Belt drive for multiple spindle tractor attachments. 2,872,831, 2-10-59, Cl. 74-665.
- Wood, Robert I. Denture impression tray. 2,891,311, 6-23-59, Cl. 32-17.
- Wood, Robert J., to Woodmack Products, Inc. Post support. 2,909,816, 10-27-59, Cl. 20-98.
- Wood, Robert S.: *See*—  
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- Wood, Robert T., to Aluminum Co. of America. Hollow cores for making castings. 2,907,084, 10-6-59, Cl. 22-165.
- Wood, Ronald M. Dispensing device. 2,877,812, 3-17-59, Cl. 141-113.
- Wood, Samuel R. Internal combustion engine starter. 2,897,677, 8-4-59, Cl. 74-8.
- Wood, Shovel and Tool Co. The: *See*—  
Olvey, Charles L. 2,901,261.
- Wood, Sidney E., to Jahill Co. Looper attachment and method. 2,868,147, 1-13-59, Cl. 112-25.
- Wood, Thomas F.: *See*—  
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Carpenter, Marion S., Easter, and Wood. 2,915,561.
- Wood, Thomas F., to The Givaudan Corp. Perfume oils containing 3-methyl-1-nonyl-3-ol. 2,918,412, 12-22-59, Cl. 167-94.
- Wood, Walter H. Freeze-proof fountain with cooling unit. 2,888,812, 6-2-59, Cl. 62-263.
- Wood, Wayne L. Fluid line coupling device. 2,868,563, 1-13-59, Cl. 284-1.
- Wood, William M.: *See*—  
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- Wood, William S.: *See*—  
Holmes, William R., Le Feuvre, Lait, and Wood. 2,914,382.
- Wood, William S., to United States of America, Army. Phase shift compensating network. 2,919,410, 12-29-59, Cl. 330-117.
- Wood, William W., to Link Aviation, Inc. Interferometric micrometer. 2,880,514, 4-7-59, Cl. 33-164.
- Wood, Winchester R., to General Electric Co. Generator automatic field forcing circuit. 2,879,465, 3-24-59, Cl. 322-27.
- Woodall Industries, Inc.: *See*—  
Greig, James W. 2,901,036.  
Stahl, Lloyd E. 2,879,105.  
Stahl, Lloyd E. 2,894,298.  
Stahl, Lloyd E. 2,903,298.
- Woodall, William R., to The Firestone Tire & Rubber Co. Tire construction. 2,874,747, 2-24-59, Cl. 152-354.
- Woodard, George W., and C. L. Lunsford, to The Dow Chemical Co. Well cementing compositions and method of preparing the same. 2,880,102, 3-31-59, Cl. 106-90.
- Woodberry, Norman T., S. T. Moore, and Y. Jen, to American Cyanamid Co. Paper of high dry strength and low wet strength. 2,890,978, 6-16-59, Cl. 162-168.
- Woodbury, Frank A.: *See*—  
Dauberman, William H., and Woodbury. 2,871,434.
- Woodbury, William W., L. T. Wheelock, and G. J. Toben, to International Business Machines Corp. Information storage system. 2,884,619, 4-28-59, Cl. 340-174.
- Woodcock, Charles A.: *See*—  
Lawhorn, Roger W., Woodcock, and Womack. 2,894,252.
- Woodcock, Edward C., to Williamson Mfg. Co. Ltd. Photographic shutters. 2,916,979, 12-15-59, Cl. 95-63.
- Woodcock, Francis H. Fluid cylinder surrounding a stationary barrel. 2,894,347, 7-14-59, Cl. 42-75.
- Woodcock, Francis H. Vane pumps. 2,918,877, 12-29-59, Cl. 103-136.
- Woodcock, John W., to T. I. (Group Services) Ltd. Packing containers. 2,868,407, 1-13-59, Cl. 220-7.
- Woodcock, Robert R., to J. W. Greer Co. Pallet loading apparatus. 2,875,908, 3-3-59, Cl. 214-6.
- Woodford Mfg. Co.: *See*—  
Noland, Wayne B. 2,880,431.
- Woodhead, Frank. Means for controlling the main springs of a vehicle suspension. 2,896,939, 7-28-59, Cl. 267-16.



- Woodhead, Jonas, & Sons Ltd.: *See*—  
Harbottle, John R. 2,901,092.  
Harbottle, John R. 2,901,093.
- Woodhead-Monroe Ltd.: *See*—  
Duckett, William A., and Lloyd. 2,916,106.
- Wooding, Edwin R., to International Business Machines Corp. Chain printer timer. 2,918,863, 12-29-59, Cl. 101-93.
- Wooding, William M., to American Cyanamid Co. Treatment of keratinous material. 2,887,116, 5-19-59, Cl. 132-73.
- Wooding, William M., to American Cyanamid Co. Pheral coating with nitrogen resin primer. 2,887,405, 5-19-59, Cl. 117-81.
- Wooding, William M., to American Cyanamid Co. Non-fibrous regenerated cellulose film containing co-resin as anchor agent. 2,918,386, 12-22-59, Cl. 117-38.
- Wooding, William M., to American Cyanamid Co. Bonding of perhalogen polymers to metallic substrates. 2,918,387, 12-22-59, Cl. 117-49.
- Woodie, Robert A.: *See*—  
Cooper, Thomas A., and Woodie. 2,886,522.  
Howell, Robert H., Jr., and Woodie. 2,884,384.
- Woodie, Robert A., to Texaco Inc. Manufacture of alkylated aromatic hydrocarbons. 2,909,574, 10-20-59, Cl. 260-671.
- Woodley, James M. Wriggling spinner with unbalanced rotors. 2,902,791, 9-8-59, Cl. 43-42.17.
- Woodlin Metal Products: *See*—  
Singleton, Benoit M. 2,889,900.  
Singleton, Benoit M. 2,894,293.  
Singleton, Benoit M. 2,894,295.
- Woodling, George V. Fluid conduit swivel adapter coupling assembly. 2,871,032, 1-27-59, Cl. 285-31.
- Woodling, George V. Method of making an offset connector body. 2,913,258, 11-17-59, Cl. 285-31.
- Woodnack Products, Inc.: *See*—  
Wood, Robert J. 2,909,816.
- Wood-Mallock, James C., and F. Hughes, to Manchester Oil Refinery (Holdings) Ltd. Insulating oils. 2,868,730, 1-13-59, Cl. 252-63.7.
- Woodman, Charles K.: *See*—  
Stolecki, William, Romeo, Cardani, and Woodman. 2,903,698.  
Stolecki, William E., Romeo, Cardani, and Woodman. 2,908,909.
- Woodman, Charles K., to United Shoe Machinery Corp. Machines for shaping uppers over lasts. 2,894,272, 7-14-59, Cl. 12-10.2.
- Woodman Co., Inc., The: *See*—  
Henry, Nelson R. 2,891,776.
- Woodmark, Glenn E., and D. L. Bollefer. Ice cube making machine. 2,892,323, 6-30-59, Cl. 62-347.
- Woodring, Otto. Electric outlet box. 2,872,504, 2-3-59, Cl. 174-65.
- Woodring, William B.: *See*—  
Miller, Charles E., Robinson, and Woodring. 2,897,758.
- Woodruff, Almon C. and D. D.: said D. D. Woodruff assor. to said A. C. Woodruff. Storage shelf construction for vending machines. 2,913,141, 11-17-59, Cl. 221-104.
- Woodruff, Alvin. Single sash gang sawmill. 2,875,795, 3-3-59, Cl. 142-60.
- Woodruff, Charles E., to Television Mat Service Corp. Slide mount. 2,871,600, 2-3-59, Cl. 40-152.
- Woodruff, David D.: *See*—  
Woodruff, Almon C. and D. D. 2,913,141.
- Woodruff, Howard C., to General Electric Co. Water-soluble polyethylene glycol polyesters curable to insoluble polymers. 2,914,509, 11-24-59, Cl. 260-75.
- Woodruff, James E. Roll paper storage receptacle and dispensing holder. 2,896,871, 7-28-59, Cl. 242-55.3.
- Woodruff, Walter M. Electrical switch. 2,903,527, 9-8-59, Cl. 200-6.
- Woodrum, William W., to Assembly Products, Inc. Method of calibrating an electrical instrument. 2,890,412, 6-9-59, Cl. 324-74.
- Woods, Charles W.: *See*—  
Lord, John G., and Woods. 2,908,010.
- Woods, Charles W., to Philco Corp. Tools. 2,907,040, 10-6-59, Cl. 1-210.
- Woods, Charles W., and A. R. Harmon, to Philco Corp. Tools. 2,891,661, 6-23-59, Cl. 203-125.
- Woods, Eric R., to General Dynamics Corp. Pulse generator. 2,871,355, 1-27-59, Cl. 250-36.
- Woods, George E., to Atlas Powder Co. Monoglyceride preparation. 2,909,540, 10-20-59, Cl. 260-410.7.
- Woods, Gilbert F.: *See*—  
Jones, Ewart R. H., Henbest, Woods, Hathway, and Thomas. 2,897,213.
- Woods, Harold A.: *See*—  
Armstrong, Jack W., and Woods. 2,915,470.  
Trowbridge, Harvey M., and Woods. 2,901,431.
- Woods, James A. Floor cleaning and waxing device. 2,876,476, 3-10-59, Cl. 15-139.
- Woods, James A. Temperature control valve. 2,884,198, 4-28-59, Cl. 236-34.
- Woods, John E., to Standard-Thomson Corp. System for controlling flow of circulating fluid. 2,883,143, 4-21-59, Cl. 251-57.
- Woods, John E., to Standard-Thomson Corp. Secondary refrigerant and apparatus for circulating the same. 2,901-892, 9-1-59, Cl. 62-86.
- Woods, Joseph, and H. Schofield, to John Bright & Brothers Ltd. Machines for the manufacture of cords or the like. 2,897,647, 8-4-59, Cl. 57-60.
- Woods, Joseph J., to Technicon International Ltd. Automatic immersion apparatus. 2,869,509, 1-20-59, Cl. 118-10.
- Woods, Leroy R., to International Electronic Research Corp. Tube shield attachment. 2,899,670, 8-11-59, Cl. 339-143.
- Woods, Leroy R., to International Electronic Research Corp. Shield for electronic components. 2,905,742, 9-22-59, Cl. 174-35.
- Woods, Marquis A. Baseboard air duct assembly. 2,876,691, 3-10-59, Cl. 98-40.
- Woods, Robert G. Predetermined torque release, ratchet-type wrench. 2,897,704, 8-4-59, Cl. 81-52.4.
- Woods, Stephen E., and L. J. Derham, to Metallurgical Processes Ltd., and The National Smelting Co. Ltd. Transfer of zinc vapour from a furnace to condenser. 2,912,322, 11-10-59, Cl. 75-88.
- Woods, T. B., Sons Co.: *See*—  
Nuernberger, Eldon L., and Williams. 2,909,343.  
Williams, William A. 2,867,102.  
Williams, William A. 2,867,103.  
Williams, William A. 2,907,597.
- Woods, Warren W.: *See*—  
Sias, Roy C., and Woods. 2,899,460.
- Woods, William C., to Sylvania Electric Products Inc. Small enclosed electrical device. 2,892,135, 6-23-59, Cl. 317-234.
- Woods, William E., to Radio Corp. of America. Digital-to-analogue converter. 2,907,021, 9-29-59, Cl. 340-347.
- Woods-Hill, William, to The British Tabulating Machine Co. Ltd. Electronic adder apparatus with sum radix correction means. 2,890,830, 6-16-59, Cl. 235-169.
- Woodson, Hughes W., Sr. Cigarette dispensing pocket case. 2,887,248, 5-19-59, Cl. 221-67.
- Woodsum, Sidney P.: *See*—  
Fuller, Harrison W., Woodsum, and Darou. 2,913,536.
- Wooduse, Inc.: *See*—  
Boomer, Daryl R., Clapperton, and Phillips. 2,901,339.
- Woodward, Alva W., to The Goodyear Tire & Rubber Co. Method of forming a rim. 2,878,551, 3-24-59, Cl. 29-159.1.
- Woodward, Alva W., to The Goodyear Tire & Rubber Co. Rim flange supported tire removing tool. 2,900,016, 8-18-59, Cl. 157-1.17.
- Woodward, Arthur C. Throttle valve control. 2,902,870, 9-8-59, Cl. 74-126.
- Woodward, Bernard, Jr., to F. B. Pease Co. Potato slicing machine. 2,884,974, 5-5-59, Cl. 146-78.
- Woodward, Donald E., to Raymond Bag Corp. Sleeve structure for bag valve. 2,884,182, 4-28-59, Cl. 229-62.5.
- Woodward, Edith E. Expandable contour diaper. 2,910,982, 11-3-59, Cl. 128-284.
- Woodward Governor Co.: *See*—  
Avery, Clarence L. 2,898,925.  
Gillespie, Sidney L. 2,878,880.  
Oldenburger, Rufus. 2,908,826.
- Woodward, Hobart, to Minnesota and Ontario Paper Co. Walls. 2,899,716, 8-18-59, Cl. 20-4.
- Woodward, James S., to United States of America, Navy. Engine control coordinator. 2,881,632, 4-14-59, Cl. 74-471.
- Woodward, Oakley M., Jr., to Radio Corp. of America. Corner reflector antenna. 2,897,496, 7-28-59, Cl. 343-818.
- Woodward, Richard H., and L. P. Horwitz, to Pickard & Burns, Inc. Automatic mapping device. 2,912,761, 11-17-59, Cl. 33-20.
- Woodward, Robert B., to Research Corp. Production of reserpine and analogs thereof. 2,883,384, 4-21-59, Cl. 260-287.
- Woodward, Robert M., to Owens-Corning Fiberglas Corp. Apparatus for contacting molten glass. 2,900,252, 8-8-59, Cl. 75-171.
- Woodward, Roy E., and E. T. Owada. Breast developer. 2,911,969, 11-10-59, Cl. 128-66.
- Woodward, Stephen G., and C. A. Hartman, to Bendix Aviation Corp. Method of adjusting fuel injector valves. 2,883,976, 4-28-59, Cl. 123-119.
- Woodward, William W., to Alton Box Board Co. Multiple article packages. 2,874,834, 2-24-59, Cl. 206-65.
- Woodward, William W., to Alton Box Board Co. Clothes package. 2,887,221, 5-19-59, Cl. 206-65.
- Woodworth, Victor C.: *See*—  
Faulkner, William H., Jr., Shearer, and Woodworth. 2,883,552.
- Woody, Fred C., to National Malleable and Steel Castings Co. Iron alloy having anti-warping characteristics. 2,890,140, 6-9-59, Cl. 148-3.
- Woofter, Cecil B., to U. O. Colson Co. Drop pocket calendar. 2,877,581, 3-17-59, Cl. 40-119.
- Woofter, Cecil B., to Brown & Bigelow. Interchangeable calendar. 2,892,275, 6-30-59, Cl. 40-122.
- Woofter, Robert C., to General Motors Corp. Connector. 2,874,365, 2-17-59, Cl. 339-125.
- Woofter, Robert C., to General Motors Corp. Electric switch. 2,919,315, 12-29-59, Cl. 200-16.
- Woog, Philippe G.: *See*—  
Held, Serge S., Mieville, and Woog. 2,917,758.
- Wool Industries Research Assn.: *See*—  
Wilks, Ralph. 2,886,939.



- Woolard, Thomas L., to The Air Preheater Corp. Heat exchanger walls with coupled sinuous fin elements. 2,870,998, 1-27-59, Cl. 257-245.
- Woolard, Thomas L. Copper base brazing alloy. 2,891,860, 6-23-59, Cl. 75-159.
- Woolard, Thomas L., to The Air Preheater Corp. Copper base brazing alloy. 2,911,298, 11-3-59, Cl. 75-159.
- Woolard, Thomas L., and D. G. Peterson, to The Air Preheater Corp. Brazed extended surface heat exchanger. 2,874,941, 2-24-59, Cl. 257-245.
- Woolcock, James W., to Imperial Chemical Industries Ltd. Production of olefinic gases from hydrocarbon oils. 2,889,384, 6-2-59, Cl. 260-683.
- Woolcott, Roger M.: See—
- Dailey, William H., Jr., and Woolcott. 2,883,175.
- Wooldridge, Cecil A. Minnow bucket. 2,873,550, 2-17-59, Cl. 43-57.
- Wooldridge, William A.: See—
- Johnston, Donald L., Derr, and Wooldridge. 2,912,480.
- Wooler, Alan Metcalf: See—
- Lowe, Arthur, Moyses, and Wooler. 2,897,162.
- WoOLF, Cyril: See—
- Cunningham, William J., and Woolf. 2,917,558.
- Gordon, Joseph, and Woolf. 2,870,222.
- Gordon, Joseph, and Woolf. 2,917,546.
- Miller, Charles B., and Woolf. 2,870,211.
- Stahl, Richard F., and Woolf. 2,885,449.
- Stahl, Richard F., and Woolf. 2,900,422.
- Sweeney, Richard F., and Woolf. 2,917,559.
- Woolf, Cyril, to Allied Chemical Corp. Difluoroacetaldehyde and process. 2,870,213, 1-20-59, Cl. 260-601.
- Woolf, Cyril, to Allied Chemical Corp. Difluorovinyl methyl ether. 2,870,219, 1-20-59, Cl. 260-614.
- Woolf, Cyril, to Allied Chemical Corp. Manufacture of fluorohalomethanes. 2,885,450, 5-5-59, Cl. 260-653.8.
- Woolf, George P. and R. G. Crab meat extractor. 2,915,781, 12-8-59, Cl. 17-2.
- Woolf, Robert G.: See—
- Woolf, George P. and R. G. 2,915,781.
- Woolfe, Gerald: See—
- Oxley, Peter, Bristow, Williams, Woolfe, and Wilmshurst. 2,904,590.
- Oxley, Peter, Bristow, Woolfe, and Williams. 2,912,438.
- Woolfolk—Eldon W. Disposable paint can extension. 2,904,208, 9-15-59, Cl. 220-4.
- Woolfolk, Eldon W., and H. M. Boll, to Beaman Plastics. Holder for tear strip can openers. 2,915,215, 12-1-59, Cl. 220-52.
- Woolfolk, Louis W. Dispensing machine. 2,912,143, 11-10-59, Cl. 222-129.4.
- Woolfson, Martin G.: See—
- Castruccio, Peter A., and Woolfson. 2,896,093.
- Woolley, Alfred B.: See—
- Hinchliffe, Ernest D., and Woolley. 2,901,785.
- Woolley, Charles H.: See—
- Smith, Charles S., and Woolley. 2,872,907.
- Woolley, Dilworth, and E. N. Shaw, to Research Corp. 1-benzyl, 2-methyl, 5-methoxy tryptamine. 2,890,223, 6-9-59, Cl. 260-319.
- Woolley, George C. Portable cooler, gasser and dispenser for keg beer and the like. 2,917,906, 12-22-59, Cl. 62-306.
- Woolley, Jack E.: See—
- Chin, Allan, Woolley, and Warren. 2,916,397.
- Woolley, John M., to Imperial Chemical Industries Ltd. Colour photographic images produced from indazolone color couplers. 2,872,817, 2-3-59, Cl. 96-55.
- Woolley, John M., to Imperial Chemical Industries Ltd. 5-sulfamyl indazolone-2-carboxylic acid esters. 2,881,167, 4-7-59, Cl. 260-239.9.
- Woolslayer, Homer J., C. Jenkins, and C. D. Iddings, to Lee C. Moore Corp. Combination oil well derrick and tilting construction boom. 2,889,898, 6-9-59, Cl. 189-15.
- Woolslayer, Homer J., C. D. Iddings, C. Jenkins, and E. A. Campbell, to Lee C. Moore Corp. Portable well drilling structure. 2,903,102, 9-8-59, Cl. 189-11.
- Woolsley, William P.: See—
- Babcock, Gordon M., Rethwisch, and Woolsley. 2,904,525.
- Wooster Brush Co., The: See—
- Conklin, Robert M. 2,891,301.
- Wooster, Philip A., to West Chemical Products, Inc. Dispensing devices for fan-fold sheet material. 2,869,951, 1-20-59, Cl. 312-39.
- Wooster Sealkote Co., The: See—
- Braun, Alfred E., and English. 2,874,677.
- Wooten, Cora S.: See—
- Wooten, Spencer D., Jr. 2,912,082.
- Wooten, Jurden, Jr. Eye actuating device for a doll. 2,889,661, 6-9-59, Cl. 46-169.
- Wooten, Spencer D., Jr., to Home Music Systems, Inc. Intercommunication system. 2,896,022, 7-21-59, Cl. 179-1.
- Wooten, Spencer D., Jr., deceased; C. S. Wooten, executrix. Accelerator control device. 2,912,082, 11-10-59, Cl. 192-3.
- Wooten, Willis C., Jr.: See—
- Coover, Harry W., Jr., and Wooten. 2,887,464.
- Coover, Harry W., Jr., and Wooten. 2,917,398.
- Wooten, Willis C., Jr., and D. J. Shields, to Eastman Kodak Co. Continuous process for preparing vinyl or vinylidene chloride graft polymers of improved solubility. 2,879,256, 3-24-59, Cl. 260-45.5.
- Wootton, Douglas J.: See—
- Pearce, Albert F., and Wootton. 2,901,660.
- Wootton, Gerald V., and H. M. Hoxie, to The B. F. Goodrich Co. Acetone-water solution of vinylidene cyanide-vinyl acetate copolymer and method for preparing same. 2,871,214, 1-27-59, Cl. 260-29.6.
- Wootton, William C., to United-Carr Fastener Corp. Resiliently retained separable fastener. 2,888,971, 6-2-59, Cl. 151-41.75.
- Worbla A.G.: See—
- Gewis, Max, Maeder, and Teher. 2,887,750.
- Worcester, Joseph A., Jr., to General Electric Co. Scan tuning receiver. 2,915,625, 12-1-59, Cl. 250-20.
- Worcester Valve Co., Inc.: See—
- Sanctuary, Robert E. 2,895,496.
- Sanctuary, Robert E. 2,895,710.
- Worden, Donald P., R. Young, and W. H. Janneck, to General Motors Corp. Process of coating steel tubing. 2,876,132, 3-3-59, Cl. 117-50.
- Worden, Edgar C., to United States of America, Interior. Dynamic resistance recorder. 2,879,472, 3-24-59, Cl. 324-62.
- Worden, Edgar C., to United States of America, Interior. Controller for regulating the resistance of a melt. 2,882-328, 4-14-59, Cl. 13-24.
- Worden, Norbert P., to C. M. Hall Lamp Co. Sealed beam headlight mounting. 2,868,961, 1-13-59, Cl. 240-41.5.
- Worden, Norbert P., to C. M. Hall Lamp Co. Lamp assembly. 2,903,570, 9-8-59, Cl. 240-7.1.
- Work, Erich W., to Beaton & Cadwell Mfg. Co. Pressure relief valve. 2,871,877, 2-3-59, Cl. 137-469.
- Work, Erich W., to Union Mfg. Co. Combination power and hand operated chuck. 2,890,889, 6-16-59, Cl. 279-114.
- Work, Ervan H.: See—
- Work, John S. and E. H. 2,878,770.
- Work, John S.: See—
- Coody, John L., Work, and Bell. 2,888,895.
- Work, John S. and E. H. Internal expanding line-up pipe clamp. 2,878,770, 3-24-59, Cl. 113-103.
- Workman, Everly J.: See—
- Bleakney, Robert M., and Workman. 2,903,534.
- Kempton, Marvin L., and Workman. 2,900,907.
- Workman, James F.: See—
- Johnson, Robert E., Levit, and Workman. 2,881,780.
- Workman, Woodrow I., to International Packings, Inc. Fluid seal. 2,915,345, 12-1-59, Cl. 308-187.2.
- Works, Madden T.: See—
- Allen, Herbert, Works, and Oliver. 2,912,214.
- Works, Madden T., and J. P. Slough, to Pioneers Specialties, Inc. Piston. 2,918,336, 12-22-59, Cl. 309-4.
- Wormell, Robert L., to Courtaulds Ltd. Production of artificial protein threads, fibres, filaments and the like. 2,897,044, 7-28-59, Cl. 18-54.
- Wormley, James D., and D. J. Mihal, to Deere & Co. Forward-reverse transmission. 2,885,900, 5-12-59, Cl. 74-377.
- Wormser, Arthur, to Inflico Inc. Apparatus for screening and comminuting. 2,885,079, 5-5-59, Cl. 210-154.
- Wormser, Arthur. Geometrical puzzle game. 2,885,207, 5-5-59, Cl. 273-157.
- Wormser, Arthur, to Inflico Inc. Distributor seal. 2,903,278, 9-8-59, Cl. 285-11.
- Wormser, Eric M.: See—
- Ascheimer, Robert W., and Wormser. 2,895,049.
- Wormser, Hans H., to Universal Winding Co. Textile machine. 2,918,778, 12-29-59, Cl. 57-35.
- Worn David K.: See—
- Evans, Howard, and Worn. 2,889,224.
- Worn, George A., and G. W. Evans, Jr., to The Lummus Co. Condenser deaerator. 2,916,260, 12-8-59, Cl. 257-43.
- Worobel, John, to United Aircraft Corp. Engine construction. 2,916,874, 12-15-59, Cl. 60-39.16.
- Worobey, Raymond G.: See—
- Madland, Glen R., and Worobey. 2,915,624.
- Worrall, Roy R.: See—
- Boehl, Wilhelm, Worrall, and Alvey. 2,883,074.
- Worrall, Walter L., to Federal Products Corp. Gauging apparatus. 2,889,681, 6-9-59, Cl. 33-147.
- Worrall, William H. Storage equipment and the like. 2,907,617, 10-6-59, Cl. 312-201.
- Worrel, John W. Finger guide for musical instruments. 2,918,838, 12-29-59, Cl. 84-465.
- Worrell, Robert L., to Allis-Chalmers Mfg. Co. Valve and outlet spout for grain bin. 2,885,129, 5-5-59, Cl. 222-519.
- Worsham, Charles H., and C. W. Skarstrom, to Esso Research and Engineering Co. Hydroforming process using alumina supported shock-cooled catalyst. 2,900,328, 8-18-59, Cl. 208-136.
- Worsham, Joe B. Rotating traffic signal light. 2,883,646, 4-21-59, Cl. 340-43.
- Worst, Joseph C.: See—
- Raczynski, Walter J., and Worst. 2,873,598.
- Raczynski, Walter J., and Worst. 2,900,080.
- Worst, Joseph C., to General Electric Co. Spring clutch mechanism. 2,878,914, 3-24-59, Cl. 192-81.
- Worst, Joseph C., to General Electric Co. Combination circuit breaker and dynamic unbalance switch for clothes washing machines. 2,878,937, 3-24-59, Cl. 210-144.
- Worth, Charles J.: See—
- Ruhl, Charles A. L., and Worth. 2,916,049.



- Worth, Elmer R., Sr.: *See—*  
Elworthy, Bernard C. T. 2,893,448.
- Worth, Elmer R., Sr., and E. A. Petre, said Petre assor. to said Worth. Remote control of sawmill networks by electromechanical means. 2,888,047, 5-26-59, Cl. 143-120.
- Worth, Henry H. Coffee dispenser. 2,904,230, 9-15-59, Cl. 222-452.
- Worthen, Eugene P., and F. S. Barbour, to Bethlehem Steel Co. Combined flash type distilling plant and back-pressure turbo-generator. 2,893,926, 7-7-59, Cl. 202-92.
- Worthen, John H.: *See—*  
Walter, John M., and Worthen. 2,881,527.
- Worthen, Leonard P.: *See—*  
Barnes, John A., and Worthen. 2,912,338.
- Worthington Corp.: *See—*  
Alma, Herbert F. 2,873,010.  
Aronson, David, and Melick. 2,869,833.  
Bennett, Andrew E. 2,887,427.  
Bennett, Andrew E. 2,909,239.  
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Heteji, Paul S. 2,869,900.  
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Hilkemeier, Louis G. 2,899,197.  
Hilkemeier, Louis G. 2,900,115.  
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Keir, Alexander J., and Harvey. 2,911,224.  
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Luoma, Aarne A., and Williams. 2,890,014.  
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Pratt, Ward E., and Farr. 2,873,127.  
Roeder, Rolf H. 2,873,105.  
Spining, Warren F. 2,872,999.  
Steven, George, and Kaufmann. 2,889,682.  
Walter, Hellmuth. 2,910,827.  
Walter, Hellmuth. 2,916,877.  
Wright, Elliott F., Watson, and Larrecq. 2,907,609.
- Worthington, Emory W.: *See—*  
Polglase, Burton C., Jr., Worthington, and Ringe. 2,909,999.
- Worthington, Emory W. Rotary letterpress ink fountain. 2,869,460, 1-20-59, Cl. 101-366.
- Worthington Mower Co.: *See—*  
Lewis, Evan T. 2,909,882.  
Lewis, Evan T., and Sanborn. 2,902,814.
- Wortman, Donald E., to General Motors Corp. Adjustable fuel nozzle. 2,893,647, 7-7-59, Cl. 239-464.
- Wortmann, Herbert, to Carl von der Crone & Co. Electric flashlights or torches. 2,911,637, 11-3-59, Cl. 340-321.
- Wortz, James M.: *See—*  
Hogan, Eric E., and Malloch. 2,908,959.
- Wosmek, Raymond. Portable grinding and mixing device for stock feed. 2,894,733, 7-14-59, Cl. 259-23.
- Wotring, John A.: *See—*  
Murray, John F., and Wotring. 2,870,719.
- Wotring, John A., and J. G. Mainland, to Thompson Ramo Wooldridge Inc. Gear pump having means to maintain center to center gear alignment. 2,898,863, 8-11-59, Cl. 103-126.
- Woughter, Earl R., and W. J. Knochel, to Westinghouse Electric Corp. Cathode ray tube. 2,906,904, 9-29-59, Cl. 313-85.
- Woughter, John M., to Minnesota Mining and Mfg. Co. Mixing and dispensing system. 2,895,648, 7-21-59, Cl. 222-235.
- Wouters, Louis F., to United States of America, Atomic Energy Commission. Vapor valve. 2,901,623, 8-25-59, Cl. 250-419.
- Wowk, Anatole: *See—*  
Randall, David I., and Wowk. 2,914,537.  
Randall, David I., Wowk, and Taras. 2,914,538.
- Woxman, Robert J., to General Motors Corp. Electric range. 2,882,382, 4-14-59, Cl. 219-37.
- Woydt, Eduard. Pivoted cam follower. 2,877,662, 3-17-59, Cl. 74-569.
- Woydt, Eduard. Pump or motor having four cylinders arranged in one plane. 2,889,783, 6-9-59, Cl. 103-169.
- Woydt, Eduard. Infinitely variable hydrostatic gears. 2,901,921, 9-1-59, Cl. 74-677.
- Woytych, Raymond M., to Giddings & Lewis Machine Tool Co. Automatic positioning device. 2,884,801, 5-5-59, Cl. 74-472.
- Wozencraft, John L. Swimming fin. 2,903,719, 9-15-59, Cl. 9-21.
- Wozencraft, John M., to United States of America, Army. Active filters. 2,880,316, 3-31-59, Cl. 250-27.
- Wozencraft, John M., to United States of America, Army. Method of and system for detecting signals. 2,882,338, 4-14-59, Cl. 178-69.
- Wozniak, Adolph J., to Thompson Products, Inc. Coaxial line switch. 2,876,422, 3-3-59, Cl. 333-97.
- Wrage, Ehlert. Paint roller cleaner and dryer. 2,881,776, 4-14-59, Cl. 134-156.
- Wraight, Robert A. Work holding attachment for circular saws. 2,918,953, 12-29-59, Cl. 144-253.
- Wrase, Erich: *See—*  
Benink, Christian J. M., and Wrase. 2,885,983.
- Wray, Edward J., to Canadian General Electric Co., Ltd. Pipe coupling having a hand operated spring biased catch means. 2,912,260, 11-10-59, Cl. 285-7.
- Wray, Lem: *See—*  
Shiplet, Francis P. 2,882,889.
- Wray, Phillip G.: *See—*  
Reek, Robert J., and Wray. 2,879,332.
- Wray, Phillip G., to Teletype Corp. Transistor relay and signal shaping device. 2,905,835, 9-22-59, Cl. 307-88.5.
- Wreford, John S. Liquid-cooled obstruction-bypassing welding cable. 2,879,317, 3-24-59, Cl. 174-15.
- Wreford, John S., and F. L. Harris, to Gar Wood Industries, Inc. Sealed welding cable terminals. 2,906,807, 9-29-59, Cl. 174-15.
- Wren, John B.: *See—*  
Penney, James H., and Wren. 2,878,911.
- Wren Products Corp.: *See—*  
Gergely, John V. 2,911,643.
- Wretling, Karl A. J. Preparation of mixtures of amino acids. 2,872,319, 2-3-59, Cl. 99-14.
- Wretling, Karl A. J. Preparation of mixtures of amino acids. 2,872,320, 2-3-59, Cl. 99-14.
- Wrhen, Wilmer C.: *See—*  
Olson, Alfred E., and Wrhen. 2,905,291.
- Wrigglesworth, Norman A., to American Optical Co. Illuminators. 2,914,660, 11-24-59, Cl. 240-41.
- Wright, Albert L. H.: *See—*  
Bartlett, Philip D., Bishop, Whittier, and Wright. 2,873,657.
- Wright, Alexander M., to Chandler-Evans Corp. Liquid flow regulating system. 2,882,918, 4-21-59, Cl. 137-108.
- Wright, Arthur. Apparatus for manufacturing candles. 2,885,727, 5-12-59, Cl. 18-1.
- Wright, Arthur A., to E. I. du Pont de Nemours and Co. Spinnet pack. 2,869,176, 1-20-59, Cl. 18-8.
- Wright-Batchelder Corp.: *See—*  
Rubico, Jerome A. 2,876,469.
- Wright, Byron T., to United States of America, Atomic Energy Commission. High voltage regulator. 2,890,338, 6-9-59, Cl. 250-419.
- Wright, Charles S. Discharge tube flashing circuit. 2,902,624, 9-1-59, Cl. 315-100.
- Wright, Charles S., to The Pure Oil Co. Process for isomerizing hydrocarbons. 2,913,508, 11-17-59, Cl. 260-683.65.
- Wright Chemical Corp.: *See—*  
Bailey, Nathaniel A. Pasowicz, and Reynolds. 2,901,437.
- Wright, Clifford B.: *See—*  
Barish, Thomas, Irwin, Line, and Wright. 2,886,112.
- Wright, Clyde E.: *See—*  
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- Wright, Daniel M. Lubricating device. 2,911,068, 11-3-59, Cl. 184-1.
- Wright, David J.: *See—*  
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- Wright, Duane H., to R. L. Crain, Ltd. Strip printer and burster. 2,875,689, 3-3-59, Cl. 101-227.
- Wright, Edward J.: *See—*  
Klein, Norman E., and Wright. 2,914,903.
- Wright, Edward J., and N. E. Klein, to Deering Milliken Research Corp. Apex guide arrangement. 2,890,565, 6-16-59, Cl. 57-106.
- Wright, Edward P., to Turco Products, Inc. Railway journal box lid seal. 2,871,068, 1-27-59, Cl. 308-44.
- Wright, Edwin C., to Pennsylvania Engineering Corp. Method of making Bessemer or converter steel. 2,875,037, 2-24-59, Cl. 75-46.
- Wright, Elliott F., R. M. Watson, and A. J. Larrecq, to Worthington Corp. Crosshead guide assembly. 2,907,609, 10-6-59, Cl. 308-3.
- Wright, Ernest A., and G. E. Duffin, to Kalamazoo Ltd. Rod brake for vertically adjustable post member. 2,918,989, 12-29-59, Cl. 188-67.
- Wright, Esmond P. G., to International Standard Electric Corp. Electric telegraph systems. 2,918,526, 12-22-59, Cl. 178-23.
- Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Electric register and control circuit therefor. 2,868,447, 1-13-59, Cl. 235-61.
- Wright, Esmond P. G., J. Rice, and D. G. N. Hunter, to International Standard Electric Corp. Methods of recording intelligence. 2,871,464, 1-27-59, Cl. 340-174.
- Wright, Esmond P. G., D. A. Weir, and J. Rice, to International Standard Electric Corp. Telecommunication equipment. 2,896,019, 7-21-59, Cl. 178-17.5.
- Wright, Esmond P. G., and J. Rice, to International Standard Electric Corp. Telecommunication exchange systems. 2,913,527, 11-17-59, Cl. 179-7.
- Wright, Floyd H., to General Electric Co. Voltage stabilizer and reference circuit therefor. 2,869,069, 1-13-59, Cl. 323-66.
- Wright, George C.: *See—*  
Stoner, George G., and Wright. 2,901,457.
- Wright, George W., to Tokheim Corp. Separable motor-pump connector. 2,897,763, 8-4-59, Cl. 103-87.
- Wright, George W., to Tokheim Corp. Valve assembly. 2,901,000, 8-25-59, Cl. 137-527.
- Wright, George W., and J. C. Kerr, to Tokheim Corp. Impact responsive valve. 2,910,080, 10-27-59, Cl. 137-39.
- Wright, Gilbert M., to Kett Engineering Corp. Noiseless device for generating audible voice frequencies including harmonics. 2,895,126, 7-14-59, Cl. 340-392.



- Wright, Harry D., and E. G. Laue; said Laue assor. to said Wright. Pressure-responsive transducer. 2,917,642, 12-15-59, Cl. 310—8.3.
- Wright, Howard B., and M. B. Moore, to Abbott Laboratories. Morpholine ethers. 2,870,147, 1-20-59, Cl. 260—247.5.
- Wright, Howard B., and M. B. Moore, to Abbott Laboratories. Morpholine ethers IV. 2,870,149, 1-20-59, Cl. 260—247.7.
- Wright, Howard B., and M. B. Moore, to Abbott Laboratories. Morpholine ethers. 2,870,150, 1-20-59, Cl. 260—247.7.
- Wright, Howard B., and M. B. Moore, to Abbott Laboratories. Morpholine ethers. 2,870,151, 1-20-59, Cl. 260—247.7.
- Wright, Howard N., Jr., and H. J. Hagemeyer, Jr., to Eastman Kodak Co. Purification of neopentylglycol by steam sublimation. 2,895,996, 7-21-59, Cl. 260—637.
- Wright, Ivan E., to Stone Container Corp. End pad and corrugated container. 2,887,263, 5-19-59, Cl. 229—23.
- Wright, James A.: *See*—  
Kohner, Melvin, and Wright. 2,900,719.
- Wright, James C.: *See*—  
Bruniche-Olsen, Henning A., Wright, Price, Steele, and Silver. 2,885,311.
- Wright, James H.: *See*—  
Capell, Robert G., Wright, and Gruse. 2,897,065.
- Wright, James H., W. E. Briggs, S. M. Billings, and H. A. Harriman, to General Electric Co. Magnetic thickness gauge. 2,903,645, 9-8-59, Cl. 324—34.
- Wright, James R.: *See*—  
Bolt, Robert O., Fontana, and Wright. 2,883,331.
- Wright, James R., to California Research Corp. Process for making poly 2-ethylbutoxysiloxanes. 2,870,184, 1-20-59, Cl. 260—448.8.
- Wright, James R., and R. O. Bolt, to United States of America, Atomic Energy Commission. Reactor coolant and method of use. 2,915,567, 12-1-59, Cl. 260—666.5.
- Wright, James W.: *See*—  
Settellmayer, Joseph J., and Wright. 2,884,950.
- Wright, Jerauld G., to The Minister of National Defence of Her Majesty's Canadian Government. Means for polar coordinate navigation. 2,911,143, 11-3-59, Cl. 235—61.
- Wright, John B., to The Upjohn Co. 1.1 bis (p-aminophenyl) alkanols. 2,881,174, 4-7-59, Cl. 260—294.7.
- Wright, John B., to The Upjohn Co. 1.1 bis (p-aminophenyl) alkanones. 2,881,175, 4-7-59, Cl. 260—294.7.
- Wright, John B., to The Upjohn Co. 1(p-aminophenyl) 1-phenyl alkanols and alkanones. 2,881,216, 4-7-59, Cl. 260—570.
- Wright, John B., and E. H. Lincoln, to The Upjohn Co. Alpha-hydroxy, beta-amino-propionaldehyde. 2,875,248, 2-24-59, Cl. 260—584.
- Wright, John E.: *See*—  
Baker, George T., and Wright. 2,907,007.
- Wright, John G., G. M. Wynn, and R. H. Hutcheson, to The Auto-Soler Co. Fastener forming and inserting machine. 2,871,479, 2-3-59, Cl. 1—29.
- Wright, John G., G. M. Wynn, and R. H. Hutcheson, to The Auto-Soler Co. Fastener forming and inserting machine. 2,890,453, 6-16-59, Cl. 1—15.
- Wright, John R., to American Optical Co. Lens retaining ring. 2,874,610, 2-24-59, Cl. 88—57.
- Wright, John R., to Radio Condenser Co. Trimmer construction for variable condensers. 2,876,403, 3-3-59, Cl. 317—253.
- Wright, John S.: *See*—  
Austin, Robert B., Pierce, and Wright. 2,873,866.
- Wright, John W.: *See*—  
Drummond, Ralph E., and Wright. 2,901,577.
- Wright, John W. Cutting saw chain. 2,891,586, 6-23-59, Cl. 143—135.
- Wright, John W. Portable reciprocating power saw. 2,895,514, 7-21-59, Cl. 143—68.
- Wright, Joseph W., to Owens-Illinois Glass Co. Method and apparatus for controlling convection currents of molten glass. 2,890,548, 6-16-59, Cl. 49—54.
- Wright, Kenneth A., and J. R. Solum, to B and W, Inc. Stop collar for a well pipe. 2,872,226, 2-3-59, Cl. 287—114.
- Wright, Kenneth A., J. R. Solum, and W. C. Hempel, to B and W, Inc. Well scratcher. 2,881,839, 4-14-59, Cl. 166—173.
- Wright, Kenneth A., and J. R. Solum, to B and W, Inc. Tool for use in cementing well casing. 2,881,840, 4-14-59, Cl. 166—173.
- Wright, Kenneth E. Ramp for seaplane. 2,896,564, 7-28-59, Cl. 114—43.5.
- Wright, Kenneth N.: *See*—  
Turner, Willard, and Wright. 2,912,331.
- Wright, Lawrence T., to Standard Oil Co. Valve control mechanism. 2,902,885, 9-8-59, Cl. 74—625.
- Wright, Lawrence W. P.: *See*—  
Thomas, Paul M., and Wright. 2,896,800.
- Wright, Lawson W. Water shock absorber. 2,875,789, 3-3-59, Cl. 138—31.
- Wright, Lee A., to General Motors Corp. Refrigerating apparatus. 2,886,296, 5-12-59, Cl. 257—262.11.
- Wright, Lemuel D., H. R. Skeggs, D. E. Wolf, and C. H. Hoffman, to Merck & Co., Inc.  $\beta,\delta$ -dihydroxy- $\beta$ -methylvaleric and derivatives thereof as growth promoters. 2,915,398, 12-1-59, Cl. 99—2.
- Wright, Leonard: *See*—  
Polleck, Vincent A., and Wright. 2,902,924.
- Wright Line, Inc., The: *See*—  
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- Wright, Manfred G.: *See*—  
Gaskill, George M., and Wright. 2,898,464.
- Wright Mfg. Co.: *See*—  
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- Petrie, Gordon D. 2,891,462.
- Wright, Michael A., to National Research Development Corp. Electrical signal storage systems. 2,906,999, 9-29-59, Cl. 340—173.
- Wright, Norman: *See*—  
Thiegs, Bernard J., and Wright. 2,875,555.
- Wright, Oswald A. Mechanical compensator. 2,895,758, 7-21-59, Cl. 288—7.
- Wright, Palmer W.: *See*—  
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- Wright, Peter M.: *See*—  
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- Brandon, Percy S., and Wright. 2,913,717.
- Wright, Peter M., and N. M. Rust, to Marconi's Wireless Telegraph Co. Ltd. Moving target radar systems. 2,896,203, 7-21-59, Cl. 343—7.7.
- Wright, Peter M., and P. S. Brandon, to Marconi's Wireless Telegraph Co. Ltd. Frequency spectrum analyzers. 2,897,442, 7-28-59, Cl. 324—77.
- Wright, Peter M., and A. E. Sale, to Marconi's Wireless Telegraph Co. Ltd. Electronic switches. 2,914,669, 11-24-59, Cl. 250—27.
- Wright, Peter M., and E. M. Wells, to Marconi's Wireless Telegraph Co. Ltd. Frequency and phase shifters and modulators for very high frequency electro-magnetic waves. 2,915,714, 12-1-59, Cl. 333—31.
- Wright Products, Inc.: *See*—  
Falk, Harold W. 2,915,329.
- Wright, Richard C., to Iron Fireman Mfg. Co. Pilot burner and igniter. 2,905,236, 9-22-59, Cl. 158—115.
- Wright, Robert A., and A. R. McFadden, to Eastman Kodak Co. Apparatus for measuring moisture in web coatings. 2,870,405, 1-20-59, Cl. 324—65.
- Wright, Robert D.: *See*—  
Ayres, Herbert F., and Wright. 2,886,803.
- Wright, Robert J.: *See*—  
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- Metcalf, Kenneth A., and Wright. 2,900,320.
- Metcalf, Kenneth A., and Wright. 2,907,674.
- Wright, Robert L., Jr., to Westinghouse Electric Corp. Turbine eccentricity meter. 2,879,470, 3-24-59, Cl. 324—34.
- Wright, Robert M., and T. J. Anderson, to The American Oil Co. Portable scaffolding. 2,903,282, 9-8-59, Cl. 287—53.5.
- Wright, Roy E.,  $\frac{1}{2}$  to H. J. Boetel, and  $\frac{1}{2}$  to L. P. Bowman. Combination sail and paddle boat. 2,891,260, 6-23-59, Cl. 9—2.
- Wright, Roy E., to Philadelphia Quartz Co. of Calif. Water-resistant adhesive compositions. 2,894,847, 7-14-59, Cl. 106—79.
- Wright, Stanley R.,  $\frac{1}{2}$  to M. W. Haines. Deflection tool for rotary directional drilling. 2,915,286, 12-1-59, Cl. 255—1.6.
- Wright, Sylvan L. and W. L., and R. R. Dansie. Investing chamber. 2,877,494, 3-17-59, Cl. 18—5.7.
- Wright, Theodore M. Wire staple handling apparatus. 2,896,214, 7-28-59, Cl. 1—203.
- Wright, Theodore M., to Radio Corp. of America. Automatic punching machine. 2,911,045, 11-3-59, Cl. 164—115.
- Wright, Theodore M., to Radio Corp. of America. Apparatus for soldering printed circuits. 2,918,028, 12-22-59, Cl. 113—59.
- Wright, Thomas O., and I. V. Rigby, to International Computers and Tabulators Ltd. Printing mechanisms. 2,893,311, 7-7-59, Cl. 101—93.
- Wright, Warren L.: *See*—  
Wright, Sylvan L. and W. L., and Dansie. 2,877,494.
- Wright, Wayne E., W. A. Fitz Gibbons, and S. C. Major, to Sprague Electric Co. Molded resistors. 2,885,523, 5-5-59, Cl. 201—67.
- Wright, Zelma H., Jr. Automatic marker buoy. 2,903,718, 9-15-59, Cl. 9—9.
- Wrighton, Robert J.: *See*—  
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- Wrigley, Clifford C.: *See*—  
Kelley, Oliver K., Hause, and Wrigley. 2,882,545.
- Kelley, Oliver K., Hause, and Wrigley. 2,898,644.
- Wrigley, Wm., Jr., Co.: *See*—  
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- Schlesinger, Walter. 2,912,759.
- Wrobbel, Ray J.: *See*—  
Thompson, William B., and Wrobbel. 2,905,489.
- Wrobel, Kurt, to Etablissements Colson. Ring clips and clamps produced by moulding. 2,884,214, 4-28-59, Cl. 248—74.
- Wrobel, Kurt, to Societe Parisienne de Constructions Electromecaniques (S.O.P.A.C.E.M.) Ring clamp. 2,915,268, 12-1-59, Cl. 248—74.
- Wroblewski, Theodore: *See*—  
Zack, Albert, Wroblewski, and De Merritt. 2,915,811.
- Wroby, John S., to General Motors Corp. Drive shaft vibration isolation mount. 2,906,572, 9-29-59, Cl. 308—184.



- Wronka, Bodo, to Demag-Elektrometallurgie G.m.b.H. Cover lifting device for an electric furnace. 2,886,313, 5-12-59, Cl. 268—10.
- Wroughton, Donald M.: *See—*  
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- Wu, William I. L., to Panoramic Radio Products, Inc. Signal generator. 2,892,944, 6-30-59, Cl. 250—36.
- Wubbe, Henry J.: *See—*  
Leslie, James D., and Wubbe. 2,873,794.  
Leslie, James D., and Wubbe. 2,887,866.
- Wucher, Roland. Apparatus for moulding plastic materials. 2,885,734, 5-12-59, Cl. 18—30.
- Wucher, Roland. Apparatus for moulding plastic materials. 2,903,747, 9-15-59, Cl. 18—30.
- Wucherer, Johannes, H. Linde, and F. Jakob, to Gesellschaft Fur Linde's Eismaschinen Akt. Process and apparatus for gas purification. 2,895,304, 7-21-59, Cl. 62—13.
- Wuck, Karl, and A. Kresse. Washing machines. 2,896,437, 7-28-59, Cl. 68—133.
- Wuerfel, Donald F.: *See—*  
Hans, Edmund E., and Wuerfel. 2,906,349.
- Wuerfel, Richard K.: *See—*  
Redmond, John A., Peach, Wuerfel, and Weight. 2,900,479.
- Wuerker, Charles A., Jr., to Jacobsen Mfg. Co. Lawn mower handle. 2,900,660, 8-25-59, Cl. 16—111.
- Wuerth, John M., to North American Aviation, Inc. Accelerometer and integrator. 2,882,034, 4-14-59, Cl. 264—1.
- Wuerth, Robert C. System and device for prolonging the life of current energized filamentary elements. 2,914,637, 11-24-59, Cl. 200—122.
- Wuerthner, John P.: *See—*  
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- Wuest, Elmer T. Spring assembly. 2,885,693, 5-12-59, Cl. 5—260.
- Wuesthoff, Paul P., to Pandjiris Weldment Co. Crosshead assembly. 2,909,394, 10-20-59, Cl. 308—6.
- Wukasch, Eugene. Outdoor projection screen or the like. 2,911,686, 11-10-59, Cl. 20—112.
- Wulf, Carl-Adolf, to Deutsche Edelstahlwerke Akt. Apparatus and method for cooling or quenching. 2,893,409, 7-7-59, Cl. 134—22.
- Wulfert, Adolph C.: *See—*  
Kelly, John T., and Wulfert. 2,898,991.
- Wulff, Bernhard, to Daimler-Benz Akt. Closure for trunk compartments. 2,894,276, 7-14-59, Cl. 16—139.
- Wulff, Cal W., to Holland Co. Bolster damping arrangement for railway car trucks. 2,873,690, 2-17-59, Cl. 105—197.
- Wulff, Cal W., to Holland Co. Bolster damping arrangement for railway car trucks. 2,896,550, 7-28-59, Cl. 105—197.
- Wulff Process Co.: *See—*  
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- Wulle, William A., to The Pyle-National Co. Foraminous ceiling ventilating apparatus. Re. 24,637, 4-21-59, Cl. 98—40.
- Wulpi, Donald J., to International Harvester Co. Tool for cold rolling crankshaft fillets. 2,876,528, 3-10-59, Cl. 29—90.
- Wunder, Heinrich: *See—*  
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- Wunderlich, Clarence B.: *See—*  
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- Wunderlich, Donald K., to Sinclair Refining Co. Process for conducting high temperature conversions using fluidized solids as heat exchange media. 2,867,676, 1-6-59, Cl. 260—673.
- Wunderlich, George F.: *See—*  
Eitel, William W., McCullough, and Wunderlich. 2,918,597.
- Wunderman, Irwin, to Hewlett-Packard Co. Attenuator network. 2,896,086, 7-21-59, Cl. 250—211.
- Wunsch, Guido, to Askania-Werke A. G. Measuring apparatus, mainly for thermo-electric measurements. 2,878,449, 3-17-59, Cl. 324—99.
- Wunstorf, Hans. Oil heater. 2,899,530, 8-11-59, Cl. 219—38.
- Wurbs, Alfred. Amalgam producing apparatus. 2,876,192, 3-3-59, Cl. 204—220.
- Wurker, Carl H. Zigzag stitch attachment for sewing machines. 2,896,563, 7-28-59, Cl. 112—160.
- Wurlitzer, Rudolph, Co., The: *See—*  
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Andersen, Clifford W. 2,888,851.  
Andersen, Clifford W. 2,909,093.  
Andersen, Clifford W. 2,909,727.  
Bauer, Howard G. 2,892,372.  
Bauer, Howard G. 2,892,373.  
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Hull, Charles J., and Osborne. 2,891,797.  
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Schneeberger, Richard F., and Schwartz. 2,895,366.  
Schneeberger, Richard F., and Schwartz. 2,913,947.
- Wurm, Stanley C. Audible signal device. 2,896,952, 7-28-59, Cl. 274—1.
- Wursch, Walter, 50% to Emanuel S. Klausner, Inc. Magnetic holding device. 2,884,698, 5-5-59, Cl. 33—75.
- Wurttembergische Spinnelfabrik G. m. b. H.: *See—*  
Schurr, Hans, and Stahlecker. 2,869,317.
- Wurtz, Clifford H., to General Motors Corp. Refrigerating apparatus. 2,894,731, 7-14-59, Cl. 257—256.
- Wurtz, Clifford H., and L. J. Mann, to General Motors Corp. Self-defrosting two-temperature refrigerator. 2,900,806, 8-25-59, Cl. 62—186.
- Wurtz, John W., and C. K. Wolff, to Federal-Mogul-Bower Bearings, Inc. Pipe joint having a reinforced extrusion-resistant gasket. 2,880,019, 3-31-59, Cl. 285—95.
- Wurtz, John W., and W. C. Bowker, to Federal-Mogul-Bower Bearings, Inc. Seal ring. 2,893,058, 7-7-59, Cl. 18—42.
- Wurzberg, Otto B.: *See—*  
Caldwell, Carlyle G., and Wurzberg. 2,917,506.
- Wurzburger, Paul D. Coupling nut with cam operated pin means for releasably engaging a nut locking means. 2,884,981, 5-5-59, Cl. 151—39.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Tools for assembling retaining rings. 2,885,770, 5-12-59, Cl. 29—229.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Coupled assemblies and coupling ring for use therein. 2,886,355, 5-12-59, Cl. 287—52.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Connectors. 2,895,754, 7-21-59, Cl. 287—53.
- Wurzel, Hugo, to Walde Kohinoor, Inc. Means for locking internal retaining rings. 2,898,135, 8-4-59, Cl. 287—52.
- Wust, Hans, to Manufacture de Machines du Haut-Rhin. Ordnance. 2,900,873, 8-25-59, Cl. 89—1.
- Wustney, Herbert, and H. Richter, to Siemens & Halske Akt. Typewriter carriage return. 2,891,651, 6-23-59, Cl. 197—68.
- Wustney, Herbert, and F. Hennig, to Siemens & Halske Aktiengesellschaft. Start-stop teleprinter. 2,907,823, 10-6-59, Cl. 178—17.5.
- Wuth, Donald E.: *See—*  
Stavenger, Paul L., and Wuth. 2,913,112.
- Wuyts, Joseph M. B., A., to International Standard Electric Corp. Device having vibrating reeds. 2,876,445, 3-3-59, Cl. 340—359.
- Wyandotte Chemicals Corp.: *See—*  
Bacon, Leslie R., Smith, and Vaughn. 2,886,533.  
Fletcher, Frederick L., Hindley, and Nichols. 2,890,840.  
Hall, George E., Jr. 2,919,222.  
Hannah, Alexander. 2,898,246.  
Hoff, Jean M. 2,886,072.  
Jackson, Donald R. 2,874,138.  
Langdon, William K., and Lewis. 2,911,407.  
Lewis, William W., Jr., and Langdon. 2,875,206.  
Seltzer, Robert E., and Hoff. 2,918,863.  
Vander Cook, Raymond E. 2,919,091.
- Wyant, Gerald W. Fire retarding device. 2,917,116, 12-15-59, Cl. 169—2.
- Wyatt, John W. Slot-lock for cuff links and the like. 2,901,797, 9-1-59, Cl. 24—109.
- Wyatt Mfg. Co., Inc., The: *See—*  
Westberg, Harold A. 2,869,887.
- Wyatt, William K.: *See—*  
Matthews, Howard W., and Wyatt. 2,875,502.
- Wyatt, William K., Jr., and J. R. Brownell, to F. J. Stokes Corp. Tablet coating machine. 2,879,724, 3-31-59, Cl. 107—1.
- Wyckoff, Ralph D., to Gulf Research & Development Co. Temperature compensated permanent magnet. 2,906,929, 9-29-59, Cl. 317—201.
- Wyczesany, Mitchell C. Tire pressure indicating device. 2,868,907, 1-13-59, Cl. 200—61.25.
- Wygant, James C.: *See—*  
Johnson, William K., and Wygant. 2,904,587.
- Wygant, James C., to Monsanto Chemical Co. Hexachlorobicycloheptene sulfonic acids and derivatives as insecticides. 2,875,123, 2-24-59, Cl. 167—30.
- Wygant, James C., to Monsanto Chemical Co. Fungicidal composition and method for its preparation. 2,900,297, 8-18-59, Cl. 167—30.
- Wygant, James F.: *See—*  
Watts, George W., and Wygant. 2,892,512.
- Wygant, James F., to Standard Oil Co. High temperature gas and solids filter. 2,892,510, 6-30-59, Cl. 183—41.
- Wyld, Arthur H.: *See—*  
Alsberg, Frederick R., and Wyld. 2,895,783.
- Wylde, Joseph R.: *See—*  
Ewing, Henry, and Wylde. 2,915,787.
- Wylde, Ronald J. System for producing amplitude-modulated signals. 2,906,970, 9-29-59, Cl. 332—31.
- Wylezik, Curt, to Telefunken G.m.b.H. Loudspeaker arrangement. 2,888,090, 5-26-59, Cl. 181—31.
- Wylie, Jean, W. E. Osborne, and C. R. Amsler, to Hycon Mfg. Co. Camera system for image motion compensation. 2,899,882, 8-18-59, Cl. 95—12.5.
- Wylie, Leonard M.: *See—*  
Little, William S., and Wylie. 2,878,271.
- Wylie, Russell G., to Commonwealth Scientific and Industrial Research Organization. Hygrometers. 2,897,673, 8-4-59, Cl. 73—336.5.
- Wyllie, Malcolm R. J., to Gulf Research & Development Co. Sampling drilling fluid. 2,902,637, 9-1-59, Cl. 324—10.
- Wyman, Charles G., to The Dayton Rubber Co. Apparatus for winding tire beads. 2,917,087, 12-15-59, Cl. 140—92.2.
- Wyman, John H.: *See—*  
Geissinger, Elton L., and Wyman. 2,891,202.  
Kuhnappel, Robert H., and Wyman. 2,880,982.
- Wyman, Leonard J.: *See—*  
Long, Alan G., and Wyman. 2,908,695.



- Wyndham, Paul I., to Telephone Mfg. Co. Ltd. Signal detectors. 2,907,930, 10-6-59, Cl. 317-142.
- Wynn, Edward W. Valves of the diaphragm type. 2,880,961, 4-7-59, Cl. 251-331.
- Wynn, George M.: *See*—  
Wright, John G., Wynn, and Hutcheson. 2,871,479.  
Wright, John G., Wynn, and Hutcheson. 2,890,453
- Wynn, Harold S.: *See*—  
Vande Sande, George, and Wynn. 2,914,749.
- Wynn, John S., to Pan American Petroleum Corp. Well apparatus brake. 2,897,898, 8-4-59, Cl. 166-212.
- Wynn Pharmacal Corp.: *See*—  
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- Wynn, Robert O., to ACF Industries, Inc. Lubricated gate valve. 2,904,059, 9-15-59, Cl. 137-246.12.
- Wynn, Robert O., and G. F. Hyde. Fuze for special shaped charge bomb. 2,911,914, 11-10-59, Cl. 102-70.2.
- Wynn, Robert W., to General Aniline & Film Corp. Manufacture of 2,2,3,3-tetrachloro-1,4-butanediol. 2,901,516, 8-25-59, Cl. 260-633.
- Wynn, Robert W., and P. E. Hoch, to General Aniline & Film Corp. 2,2'-dihydroxy-4,4'-substituted benzophenones as ultraviolet absorbers for Gr-A rubber. 2,876,210, 3-3-59, Cl. 260-45.95.
- Wynn, Ted R. Sugar dispenser. 2,903,164, 9-8-59, Cl. 222-189.
- Wynne, Hubert C., and F. Cousen, to Pilkington Brothers Ltd. Manufacture of opaque glass in ribbon form. 2,883,799, 4-28-59, Cl. 49-87.
- Wynne, Ira H., to Reserve Mining Co. Pulp splitter. 2,870,909, 1-27-59, Cl. 209-284.
- Wynne, William J., Jr. Crimping tool. 2,875,656, 3-3-59, Cl. 81-15.
- Wynnwood Corp.: *See*—  
Winn, John. 2,888,197.
- Wynstra, John: *See*—  
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- Wysocki, Kazmier, to Chas. Pfizer & Co., Inc. Container sealing machine. 2,902,809, 9-8-59, Cl. 53-329.
- Wysoczanski, Alfred: *See*—  
Roffman, Eugene, Cinaglia, Wysoczanski, and Brand. 2,885,075.
- Wysong, Donald G., to Price Brothers Co. Mechanical vibrator. 2,875,988, 3-3-59, Cl. 259-1.
- Wysong, Paul V., Jr., A. F. Bohnhoff, and W. H. West, to General Motors Corp. Alternator valve assembly for reversible fluid pressure systems. 2,878,788, 3-24-59, Cl. 121-150.
- Wyssmont Co., Inc.: *See*—  
Weisselberg, Arnold. 2,913,780.
- Xander, Paul A., and E. F. Hoover, to Wise Potato Chip Co. Method of producing protein and protein hydrolysate from potatoes and potato waste. 2,879,264, 3-24-59, Cl. 260-112.
- Xanten, Elmer F., to Adjustable Stair & Mfg. Co. Adjustable stair. 2,867,855, 1-13-59, Cl. 20-10.
- Xenis, Constantine P., to Consolidated Edison Co. of New York, Inc. Apparatus for traveling through pipes. 2,917,762, 12-22-59, Cl. 15-104.05.
- Yackel, Otto. Truck box dumping devices. 2,894,785, 7-14-59, Cl. 298-22.
- Yacoe, Jesse C.: *See*—  
Griffin, Samuel E. C., Railing, and Yacoe. 2,889,257.
- Yacoe, Jesse C., to E. I. du Pont de Nemours and Co. Process for preparing free-flowing pellets of polychloroprene and the resulting product. 2,879,173, 3-24-59, Cl. 117-16.
- Yacowitz, Harold: *See*—  
Lampen, J. Oliver, Langlykke, and Yacowitz. 2,903,356.
- Yaeger, Joseph C., to McGraw-Edison Co. Ballast construction. 2,910,623, 10-27-59, Cl. 315-241.
- Yaeger, Luther L.: *See*—  
Cox, Robert P., and Yaeger. 2,877,207.
- Yaffee, Philip, to United States of America, Navy. Control apparatus for radio monitoring station. 2,900,635, 8-18-59, Cl. 343-205.
- Yaffack, John J. Lawn scarifier. 2,902,099, 9-1-59, Cl. 172-554.
- Yager, Joseph S. Cotton and corn chopper. 2,873,807, 2-17-59, Cl. 172-88.
- Yagi, Takashi, to N. Kawataki. Loader. 2,913,133, 11-17-59, Cl. 214-512.
- Yahn, William J. Method of increasing production of oil, gas and other wells. 2,911,046, 11-3-59, Cl. 166-36.
- Yahnka, Otto P. Method of and means for screen venting a core box. 2,914,821, 12-1-59, Cl. 22-13.
- Yakel, Frederick O. and J. H. Conservation fishhooks. 2,897,624, 8-4-59, Cl. 43-36.
- Yakel, John H.: *See*—  
Yakel, Frederick O. and J. H. 2,897,624.
- Yale, James D., to White-Rodgers Co. Visual training projector. 2,887,006, 5-19-59, Cl. 88-27.
- Yale, John W.: *See*—  
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Webb, Irving D., and Yale. 2,877,153.
- Yale, John W., Jr.: *See*—  
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- Yale & Towne Mfg. Co., The: *See*—  
Check, Mathias M. 2,872,236.  
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Check, Mathias M. 2,896,992.  
Imhoff, William B., Jr. 2,869,353.  
Quayle, George F. 2,870,929.  
Quayle, George F. 2,904,957.  
Quayle, George F. 2,905,223.  
Quayle, George F. 2,909,299.  
Quayle, George F. 2,916,294.  
Rolph, Henry D. 2,869,351.  
Rolph, Henry D. 2,899,819.  
Schroeder, Charles S. 2,883,015.  
Schroeder, Charles S. 2,899,701.  
Schroeder, Charles S. 2,903,733.  
Schwarz, Joseph H. 2,916,171.  
Smith, Robert D. 2,894,387.  
Uliński, Bronislaus I. 2,899,223.  
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- Yalen, Abraham: *See*—  
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- Yalen, Rhoda: *See*—  
McAfee, Ernest. 2,887,002.
- Yalich, Michael, and J. M. Berill, to Westinghouse Air Brake Co. Car retarder speed control systems. 2,891,144, 6-16-59, Cl. 246-182.
- Yamada, Donald A., I. Katz, and J. C. Wilson, to North American Aviation, Inc. Ethoxylate-cyanurate-acrylate resinous composition and copper conductor coated therewith. 2,883,808, 4-21-59, Cl. 117-232.
- Yamamoto, Tamechika: *See*—  
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- Yamartino, Raymond L., to National Research Corp. Method of producing refractory metals. 2,915,383, 12-1-59, Cl. 75-84.5.
- Yamasaki, James N.: *See*—  
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- Yamauchi, Saburo: *See*—  
Eguchi, Takashi, Yamamoto, and Yamauchi. 2,908,715.
- Yamen, Irving A.: *See*—  
Smith, William W., and Yamen. 2,901,759.
- Yamett, Irving: *See*—  
Samuels, Arnold J., and Yamett. 2,915,651.
- Yamin, Robert H.: *See*—  
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- Yan, Maxwell M.: *See*—  
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Dorland, Rodger M., Yan, and Heslop. 2,918,898.
- Yanagisawa, Samuel T., to Machlett Laboratories, Inc. X-ray tubes. 2,886,725, 5-12-59, Cl. 313-57.
- Yancey, John R., and E. J. Robishaw, deceased; S. Robishaw, executrix. Side wall tester. 2,886,109, 5-12-59, Cl. 166-100.
- Yandell, Ronald P. B., to Powers-Samas Accounting Machines Ltd. Digital computing machines. 2,892,997, 6-30-59, Cl. 340-174.
- Yando, Stephen, to Sylvania Electric Products Inc. Electronic system utilizing time modulation. 2,872,523, 2-3-59, Cl. 179-15.6.
- Yando, Stephen, to Sylvania Electric Products Inc. Control signal generator. 2,878,383, 3-17-59, Cl. 250-27.
- Yando, Stephen, to Sylvania Electric Products Inc. Electroluminescent device. 2,917,669, 12-15-59, Cl. 315-174.
- Yando, Steve, Jr., to Libbey-Owens-Ford Glass Co. Method and apparatus for bending glass sheets or plates. 2,886,922, 5-19-59, Cl. 49-67.
- Yang, Chang-Tsing, to Shell Development Co. Expoxidation process. 2,873,283, 2-10-59, Cl. 260-348.5.
- Yang, Christen H. C., to Crown Zellerbach Corp. Creped paper with improved softness and process of making the same. 2,874,618, 2-24-59, Cl. 92-70.
- Yankee Engineering Co., Inc.: *See*—  
McCrone, Harold W. 2,868,390.
- Yankee, Richard B.: *See*—  
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- Yann, Carl C.: *See*—  
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- Yant, William P., and J. P. Strange, to Mine Safety Appliances Co. Prevention of catalyst poisoning. 2,876,064, 3-3-59, Cl. 23-1.
- Yantis, Fordyce M. Casting plug. 2,886,322, 5-12-59, Cl. 273-106.5.
- Yarber, Gordon W. Multiple-position valve. 2,910,089, 10-27-59, Cl. 137-623.
- Yarber, Gordon W. Anti-skid brake control system. 2,914,359, 11-24-59, Cl. 303-24.
- Yarbrough, Stanton L., to Philco Corp. Mounting apparatus. 2,881,405, 4-7-59, Cl. 339-17.
- Yard, Edward M.: *See*—  
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- Yard-Man, Inc.: *See*—  
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- Yardney International Corp.: *See*—  
 André, Henri G. 2,890,261.  
 André, Henri G. 2,906,802.  
 André, Henri G. 2,916,686.  
 Brown, Kenneth N. 2,906,803.  
 Chapman, Christopher L. C. 2,908,740.  
 Comanor, Milton. 2,903,497.  
 Di Pasquale, Renato, and Gold. 2,905,738.  
 Doyen, Jean. 2,867,678.  
 Yardney, Michel N. 2,899,635.
- Yardney, Michel N., to Yardney International Corp. Electric battery with charge testing means. 2,899,635, 8-11-59, Cl. 324-29.5.
- Yarnall, David R., to Yarnall-Waring Co. Liquid level gauge. 2,882,730, 4-21-59, Cl. 73-331.
- Yarnall-Waring Co.: *See*—  
 Kinderman, Walter J., and Williams. 2,869,371.  
 Williams, James W., III. 2,899,615.  
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- Yarne, John L., to Rockwell-Standard Corp. Gear quenching apparatus and method. 2,914,311, 11-24-59, Cl. 266-6.
- Yarotsky, Eugene: *See*—  
 Major, Stephen C., and Yarotsky. 2,885,522.
- Yarotsky, Michael F., to United States Steel Corp. Method of protecting refractory lining of a high temperature furnace. 2,893,888, 7-7-59, Cl. 117-6.
- Yarrick, Charles J., to I-T-E Circuit Breaker Co. Temperature compensated time delay means. 2,881,869, 4-14-59, Cl. 188-94.
- Yarrick, Charles J., to I-T-E Circuit Breaker Co. Control for electrical closing of circuit breaker. 2,884,568, 4-28-59, Cl. 317-36.
- Yarrison, Walter W., V. H. Meyer, and D. A. Lane, to United Shoe Machinery Corp. Mold structures and mold conveying means. 2,912,717, 11-17-59, Cl. 18-4.
- Yarrow and Co. Ltd.: *See*—  
 Hobson, Eric D. 2,895,883.  
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- Yaru, Nicholas, to Hughes Aircraft Co. Antenna array. 2,894,261, 7-7-59, Cl. 343-771.
- Yarze, Joseph C.: *See*—  
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- Yasuda, Susumu: *See*—  
 Nishio, Hidehiko, and Yasuda. 2,882,439.
- Yasuda, Susumu, to International Standard Electric Corp. Traveling wave tube. 2,895,066, 7-14-59, Cl. 313-84.
- Yasumura, Jobu, to Collins Radio Co. Welding device to attach transducer wires to mechanical filters. 2,870,321, 1-20-59, Cl. 219-97.
- Yates-American Machine Co.: *See*—  
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 Eschenburg, William A. 2,894,546.  
 Morgan, Jack L. 2,873,098.  
 Richards, Archer W. 2,913,025.
- Yates, Clifton J. Soap container. 2,886,917, 5-19-59, Cl. 45-28.
- Yates, Paul C.: *See*—  
 Rusher, Robert L., and Yates. 2,877,142.
- Yates, Torbin F. Conveyor system. 2,875,704, 3-3-59, Cl. 104-96.
- Yavitch, Morris. Device for testing bath cabinet shower pans for leakage. Re. 24,690, 8-25-59, Cl. 4-288.
- Yavne, Raphael O. Method for determining angles of attack and skid of an aircraft. 2,872,809, 2-10-59, Cl. 73-180.
- Yavorsky, Paul M., to Consolidation Coal Co. Process of coking solid carbonizable material. 2,885,327, 5-5-59, Cl. 202-29.
- Yawata Seitetsu K.K. (Stock Co.): *See*—  
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- Yawman and Erbe Mfg. Co., Inc.: *See*—  
 Higberg, Arthur L. 2,875,011.  
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- Yeadon, Donald J., L. W. Hooker, and H. Garland, to Board of Control of the Michigan College of Mining & Technology. Apparatus for stripping bark. 2,899,994, 8-18-59, Cl. 144-208.
- Yeakey, Forrest I., and A. I. Sheldon, to S. H. Camp & Co. Garment with back supporting panel. 2,910,984, 11-3-59, Cl. 128-520.
- Yeater, Max L.: *See*—  
 Baldwin, George C., Gaertner, and Yeater. 2,902,613.
- Yeazel, Gilbert A., to Frigid Fluid Co. Casket carriage. 2,870,519, 1-27-59, Cl. 27-32.
- Yegliniski, Joseph. Safety pin. 2,869,206, 1-20-59, Cl. 24-156.
- Yeiser, John O.: *See*—  
 Simonton, Marvin E., and Yeiser. 2,913,581.
- Yelinek, Gustav H., to De Luxe Products Corp. Oil filter cartridge. 2,891,674, 6-23-59, Cl. 210-457.
- Yelinek, Gustav H., to Delux Products Corp. Method of manufacture of filter mechanism. 2,910,814, 11-3-59, Cl. 53-13.
- Yelinek, Gustav H., L. F. Niebergall, and L. V. R. Tietz, to Walker Mfg. Co. of Wisconsin. Filter demonstrator. 2,907,121, 10-6-59, Cl. 35-13.
- Yellott, John I., to Bituminous Coal Research, Inc. Pressurized pneumatic mechanical unit pulverizer. 2,916,217, 12-8-59, Cl. 241-101.
- Yellott, John I., and P. R. Broadley, to Bituminous Coal Research, Inc. Dunlap tube separators and coolant means therefor. 2,869,677, 1-20-59, Cl. 183-5.
- Yellott, John I., and P. R. Broadley, to Bituminous Coal Research, Inc. Louvered coolant fluid ash quenching systems for pressurized combustors utilizing powdered coal. 2,888,804, 6-2-59, Cl. 60-39.46.
- Yellott, John I., and P. R. Broadley, to Bituminous Coal Research, Inc. Ash separator for powdered coal burning pressurized combustion system. 2,911,065, 11-3-59, Cl. 183-80.
- Yendall, Edward F.: *See*—  
 First, Vincent E., Potts, Rice, and Yendall. 2,908,144.  
 Potts, Lawrence D., and Yendall. 2,873,583.
- Yenni, Donald M., to Union Carbide Corp. Electric arc welding of steel. 2,907,866, 10-6-59, Cl. 219-74.
- Yeo, Ernest E., and H. B. Maloney, to Sylvania Electric Products Inc. Lamp mount loader. 2,906,416, 9-29-59, Cl. 214-1.
- Yeo, Ernest F.: *See*—  
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 O'Brien, James P., Stacey, and Yeo. 2,916,056.  
 Terry, Roger M., O'Brien, and Yeo. 2,906,580.
- Yeoman, Ray C., to Texas Foundries, Inc. Load transfer device. 2,882,804, 4-21-59, Cl. 94-8.
- Yeou, Ta: *See*—  
 Bernier, Jean, and Yeou. 2,881,351.
- Yerian, Harold W. Master pin for an endless track. 2,893,788, 7-7-59, Cl. 305-10.
- Yerkes, William M. Diesel injection nozzle puller. 2,883,741, 4-28-59, Cl. 29-252.
- Yerkovich, Simon, to L. J. Leishman. Compression locks for X-ray spot film devices. 2,892,088, 6-23-59, Cl. 250-58.
- Yermish, Israel J., to Fenway Machine Co., Inc. Sheet metal nibbling tool (for corrugated sheet metal). 2,888,744, 6-2-59, Cl. 30-228.
- Yeske, Laurel R., to J. I. Case Co. Jack. 2,918,256, 12-22-59, Cl. 254-86.
- Yessel, Frederick W. Flashlight bulb contact cleaner. 2,887,861, 5-26-59, Cl. 67-31.
- Yetter, George K., to Georgia-Pacific Plywood Co. Board securing means. 2,900,677, 8-25-59, Cl. 20-8.
- Yetter, Harry G. Joiner device mounting bracket. 2,915,131, 12-1-59, Cl. 172-736.
- Yetter, Lloyd E. Electric cooking appliance. 2,889,765, 6-9-59, Cl. 99-337.
- Yetter, Lloyd E. Mechanical hobby horse. 2,908,500, 10-13-59, Cl. 272-53.1.
- Yeutter, Clyde S.: *See*—  
 Cronberg, Claude I. L., Jr., and Yeutter. 2,870,271.
- Yezek, Milton, and W. C. Utschig, to General Foods Corp. Process of producing glossy wax-coated paper. 2,912,347, 11-10-59, Cl. 117-64.
- Yii, Roland, to Burroughs Corp. Pulse generating circuit. 2,907,896, 10-6-59, Cl. 307-88.5.
- Yii, Roland H. C.: *See*—  
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- Yingst, Cyrus S., to The Heald Machine Co. Control for machine tool. 2,904,010, 9-15-59, Cl. 121-45.
- Ylinen, Klaus J., to Aktiebolaget Wicanders Korkfabriker. Game apparatus. 2,881,892, 4-14-59, Cl. 194-17.
- Ylinen, Klaus J. Apparatus for establishing the capability of a person to distinguish between tones separated by a small interval. 2,908,981, 10-20-59, Cl. 35-8.
- Yntema, Leonard F.: *See*—  
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- Yntema, Leonard F., and R. J. Runck, to Fansteel Metallurgical Corp. Refractory metal bodies and method of making same. 2,870,527, 1-27-59, Cl. 29-198.
- Yoakley, William R., Jr. Extension arm. 2,869,914, 1-20-59, Cl. 294-22.
- Yoblin, Jack A.: *See*—  
 Goetzel, Claus G., Grant, Skolnick, and Yoblin. 2,899,338.
- Yoblin, Jack A., to Titanium Metals Corp. of America. Dehydrogenating titanium metal powder. 2,905,547, 9-22-59, Cl. 75-5.
- Yoch, John J. Tamping tool. 2,870,696, 1-27-59, Cl. 94-49.
- Yochum, Paul G., to Bendix Aviation Corp. Hermetically sealed unit such as an electrical relay and the like, and method. 2,889,423, 6-2-59, Cl. 200-87.
- Yockey, Hubert P.: *See*—  
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- Yocom, Kenneth H.: *See*—  
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- Yocom, Willis H.: *See*—  
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- Yoder, Joe B., and J. Cappello, to General Electric Co. Electric oven core block. 2,901,521, 8-25-59, Cl. 13-25.
- Yoder, John H.: *See*—  
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- Yoder, Lewis A., to General Electric Co. Method of fabricating electron discharge devices. 2,910,338, 10-27-59, Cl. 316-19.
- Yoder, Richard J.: *See*—  
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- Yodis, Anthony W.: *See*—  
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- Yohe, Charles H., to General Electric Co. Electric heating units. 2,880,297, 3-31-59, Cl. 201-67.
- Yohe, Charles H., to General Electric Co. Electric heating units. 2,880,298, 3-31-59, Cl. 201-67.
- Yohe, Richard H. Colostomy irrigator. 2,869,547, 1-20-59, Cl. 128-283.
- Yohner, William B. and J. J. Miksak, said Yohner assignor to said Miksak. Apparatus for hanging draperies. 2,901,037, 8-25-59, Cl. 160-346.
- Yokel, Edward C., to Twin Disc Clutch Co. Oil pressure actuated clutch. 2,869,701, 1-20-59, Cl. 192-85.
- Yokose, Kyohei, and M. Sugi, to Sumitomo Electric Industries, Ltd. Insulated conductor for communication cables and the manufacturing method of the same. 2,907,815, 10-6-59, Cl. 174-121.
- Yonemitsu, Eiichi: *See*—  
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- Yonkers, Edward H. Differential pressure cleaning apparatus. 2,875,846, 3-3-59, Cl. 183-37.
- Yonkers, Edward H., and R. F. Huber, to Joslyn Mfg. & Supply Co. Aircraft lightning arrester. 2,906,925, 9-29-59, Cl. 317-61.
- Yonkers, Robert A.: *See*—  
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- Yoo, Hyungduk, to American Viscose Corp. Production of bulky colorspun rayon yarn. 2,895,288, 7-21-59, Cl. 57-164.
- Yorba, Robert P. Cap-removing tool. 2,913,938, 11-24-59, Cl. 81-344.
- York, Edward R.: *See*—  
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- York Food Machinery Co.: *See*—  
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- York, Herbert F., to United States of America, Atomic Energy Commission. Calutron receiver. 2,894,137, 7-7-59, Cl. 250-41.9.
- York, Jesse L.: *See*—  
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- York, Ruth M.: *See*—  
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- Yoshida, Minazo: *See*—  
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- Yost, Arnold G.: *See*—  
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- Yost, De Witte M., J. C. Schmitt, and H. E. Bouis, to The Sorg Paper Co. Pleating paper and method. 2,874,754, 2-24-59, Cl. 154-33.05.
- Yost, Earl W.: *See*—  
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- Yost, Oscar A. Liquid pipe line pressure compensator. 2,884,955, 5-5-59, Cl. 138-31.
- Yost, Paul E., to General Mills, Inc. Dropping mechanism. 2,871,597, 2-3-59, Cl. 40-127.
- Yost, Robert S., to Rohm & Haas Co. Preparation of unsaturated cyclic urea derivatives. 2,880,208, 3-31-59, Cl. 260-251.
- Yost, Robert S., to Rohm & Haas Co. New cyclic urea derivatives. 2,887,485, 5-19-59, Cl. 260-251.
- Yost, Russell R., Jr.: *See*—  
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- Young Berg, Carl E. Photographic printing machine. 2,869,447, 1-20-59, Cl. 95-73.
- Young Brothers Co.: *See*—  
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- Young, Charles A., and F. R. Kerns, to The Electric Storage Battery Co. Battery pasting machine. 2,873,770, 2-17-59, Cl. 141-32.
- Young, Charles E., to Weyerhaeuser Timber Co. Glue applicator. 2,905,141, 9-22-59, Cl. 118-244.
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- Young, Charles J.: *See*—  
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- Young, Charles J., to Radio Corp. of America. Electrostatic printer. 2,887,023, 5-19-59, Cl. 95-17.
- Young, Charles J., to Radio Corp. of America. Code translator. 2,888,672, 5-26-59, Cl. 340-347.
- Young, Charles J., and G. A. Morton, to Radio Corp. of America. Image tube. 2,875,370, 2-24-59, Cl. 315-10.
- Young, Charles L., to Powers Wire Products Co. Clip applying gun. 2,886,815, 5-19-59, Cl. 1-44.4.
- Young, David H., to Specialties Development Corp. Pressure regulating equipment. 2,906,288, 9-29-59, Cl. 137-495.
- Young, David W.: *See*—  
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- Young, David W., and W. F. Fischer, to Esso Research and Engineering Co. Chlorinated resins stabilized with bisphenol compounds. 2,881,151, 4-7-59, Cl. 260-45.95.
- Young, David W., and H. J. Rose, to Esso Research and Engineering Co. Acetyl-amino phenol stabilizing GR-A rubber latex. 2,901,502, 8-25-59, Cl. 260-45.9.
- Young, David W., Jr., to Bendix Aviation Corp. Phase saturable transducer. 2,897,491, 7-28-59, Cl. 343-100.
- Young, Dean A.: *See*—  
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- Young, De Walt S., and G. F. Rodgers, to Eastman Kodak Co. Preparation of tertiary butyl-4-methoxyphenol. 2,887,515, 5-19-59, Cl. 260-613.
- Young, Don H.: *See*—  
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- Young, Donald C., to Collier Carbon and Chemical Corp. Preventing corrosion of ferrous metals by ammonia free ammonium nitrate. 2,874,105, 2-17-59, Cl. 204-148.
- Young, Donald H., to Waterman Pen Co., Inc. Fountain pen feed construction. 2,881,737, 4-14-59, Cl. 120-50.
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- Young, Donald R.: *See*—  
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- Young, Donald R., to International Business Machines Corp. Electron beam switch tube operation of a ferroelectric matrix. 2,869,111, 1-13-59, Cl. 340-173.
- Young, Donald R., to International Business Machines Corp. Bistable phototube. 2,877,355, 3-10-59, Cl. 250-211.
- Young, Donald R., to International Business Machines Corp. Superconductor modulator circuitry. 2,914,735, 11-24-59, Cl. 332-51.
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- Young, Donald R., to International Business Machines Corp. Ferroelectric condenser transfer circuit and accumulator. 2,919,063, 12-29-59, Cl. 235-92.
- Young, Donald R., and H. L. Funk, to International Business Machines Corp. Ferroelectric counter. 2,872,661, 2-3-59, Cl. 340-173.
- Young, Douglass A., to Westinghouse Electric Corp. Electrical resistor assemblies. 2,909,746, 10-20-59, Cl. 338-57.
- Young, Edison. Rotary brushes. 2,869,163, 1-20-59, Cl. 15-179.



- Young, Einar T.: *See*—  
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- Young, Einar T., to Sun Oil Co. Apparatus for dispensing and pricing selected blends of two liquids. 2,880,908, 4-7-59, Cl. 222-26.
- Young, Einar T., to Sun Oil Co. Engraving apparatus. 2,885,785, 5-12-59, Cl. 33-21.
- Young, Elbert W. Supporting rack. 2,899,162, 8-11-59, Cl. 248-140.
- Young, Elmer. Identifying device for documents. 2,912,259, 11-10-59, Cl. 283-8.
- Young, Elmer L., to General Motors Corp. Rotor with heat radiating means. 2,910,600, 10-27-59, Cl. 310-72.
- Young, Francis R., to Eric Resistor Corp. Method of soldering a plurality closely spaced electrical connections. 2,870,532, 1-27-59, Cl. 29-471.1.
- Young, Frank G., to Union Carbide Corp. Unsaturated ethers. 2,898,378, 8-4-59, Cl. 260-611.
- Young, Franklin A., and A. J. Haselden, to F. A. Young. Top roll supporting and weighting apparatus for textile drafting machines. 2,896,270, 7-28-59, Cl. 19-131.
- Young, Fred M., to Young Radiator Co. Adjustable oversize blueprint support. 2,882,641, 4-21-59, Cl. 45-60.
- Young, Fred W.: *See*—  
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- Young, Fred W., to S. N. Goldman. Tray structure for telescoping carts. 2,871,024, 1-27-59, Cl. 280-33.99.
- Young, Fred W., to S. N. Goldman. Wheel mounting for nesting type store service truck. 2,916,291, 12-8-59, Cl. 280-33.99.
- Young, Fred W., and C. L. McNeil, to S. N. Goldman. Collapsing baby seat for nesting carriers. 2,896,959, 7-28-59, Cl. 280-33.99.
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- Young, Frink M., and T. K. Naylor, to Research Corp. Electronic interpolator. 2,907,873, 10-6-59, Cl. 250-27.
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- Young, Gale J., to United States of America, Atomic Energy Commission. Neutron density control in a neutronic reactor. 2,892,765, 6-30-59, Cl. 204-154.2.
- Young, George A., Jr., N. R. Underdahl, R. W. Hinz, and C. L. Silbernack, to Regents of the University of Minnesota. Brooder for quadrupeds. 2,881,733, 4-14-59, Cl. 119-15.
- Young, George V., to Video Instruments Co., Inc. Integral transducer amplifier system. 2,887,591, 5-19-59, Cl. 307-88.5.
- Young, Gerald V. Spreader mechanism. 2,904,224, 9-15-59, Cl. 222-177.
- Young, Glenn S. Apparatus for controlling an electric power supply system. 2,874,310, 2-17-59, Cl. 307-34.
- Young, Grayson S., to Esso Research and Engineering Co. Process of producing cycloolene monomers from polymer-containing streams. 2,884,468, 4-28-59, Cl. 260-666.
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- Young, Guy B., to American Cyanamid Co. Electric blasting initiator. 2,882,820, 4-21-59, Cl. 102-28.
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- Young, Harland H., J. L. Ohlson, and G. Barshefsky, to Swift & Co. Manufacture of structural board from rumen. 2,899,352, 8-11-59, Cl. 162-148.
- Young, Harland H., and W. F. Ramseyer, Jr., to Swift & Co. Stabilized thiamine composition and method of enriching food products. 2,912,332, 11-10-59, Cl. 99-11.
- Young, Harold S. Method of making reinforced honeycomb structures. 2,900,713, 8-25-59, Cl. 29-475.
- Young, Harry E. B.: *See*—  
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- Young, Henry N., Jr., and H. H. Ries. Door latching device. 2,885,239, 5-5-59, Cl. 292-201.
- Young, Jack R. Manually operated latching device for a truck rear door. 2,890,478, 6-16-59, Cl. 16-144.
- Young, James A. Furring hanger. 2,905,986, 9-29-59, Cl. 20-94.
- Young, James A., Jr., to Bell Telephone Laboratories, Inc. Helical wave guides. 2,915,715, 12-1-59, Cl. 333-73.
- Young, James C., to Armco Steel Corp. Working roll supporting structure for four-high rolling mills. 2,894,423, 7-14-59, Cl. 80-55.
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- Young, John D. Planter indicator. 2,907,015, 9-29-59, Cl. 340-239.
- Young, John L., to Young & Greenwalt Co. Apparatus for fabricating arch-type culverts. 2,916,076, 12-8-59, Cl. 153-35.
- Young, John R. Automatic material handling mechanism. 2,894,616, 7-14-59, Cl. 198-218.
- Young, John R. Automatic material handling devices. 2,899,043, 8-11-59, Cl. 198-219.
- Young, L. A., Spring & Wire Corp.: *See*—  
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- Young, Fred M. 2,882,641.
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- Humbert, Kingsley E., Jr., Young, and Hough. 2,902,162.
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- Young, Robert, to The Martin Co. Machine for machining air-foil or similar shapes. 2,911,886, 11-10-59, Cl. 90-15.
- Young, Robert R.: *See*—  
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- Young, Sidney G. Electric socket connectors. 2,875,422, 2-24-59, Cl. 339-64.
- Young, Sidney G. Knee kicker. 2,876,583, 3-10-59, Cl. 45-89.
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- Young, Stephan A.: *See*—  
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- Young, Stephen M., and R. A. Christie, to International Harvester Co. Reel lifting and lowering device. 2,895,281, 7-21-59, Cl. 56-221.
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- Young, W. J., Machinery Co., Inc.: *See*—  
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- Young, William M. Subsoil injector. 2,902,953, 9-8-59, Cl. 111-71.
- Young, William R., Jr., to Bell Telephone Laboratories, Inc. Time bias detector. 2,918,623, 12-22-59, Cl. 324-57.
- Youngberg, Charles H.: *See*—  
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- Oehler, William P., and Youngberg. 2,881,578.
- Youngberg, Charles H., and W. P. Oehler, to Deere & Co. Automatic lubrication for disk harrows. 2,870,849, 1-27-59, Cl. 172-413.
- Youngblood, Ulysses H. Exterminating device and system. 2,906,056, 9-29-59, Cl. 43-124.
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- Youngquist, Robert J., to Minnesota Mining & Mfg. Co. Coupling circuit. 2,876,296, 3-3-59, Cl. 179-100.2.
- Youngren, Milton D. Animated card device. 2,895,244, 7-21-59, Cl. 40-126.
- Youngson, Charles R., to The Dow Chemical Co. Method and composition for improving the plant growing properties of soil. 2,889,244, 6-2-59, Cl. 167-22.
- Youngson, Charles R., to The Dow Chemical Co. Method and composition for destroying nematodes. 2,898,261, 8-4-59, Cl. 167-22.
- Youngson, Charles R., to The Dow Chemical Co. Growing and protection of crops and compositions therefor containing an ethynyl ketone. 2,905,588, 9-22-59, Cl. 167-39.



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- Yunker, Elmer L., to Bell Telephone Laboratories, Inc. Multivibrator circuits. 2,913,578, 11-17-59, Cl. 250-27.
- Younkin, Charles R. Tool for straightening muffler outlets. 2,888,847, 6-2-59, Cl. 81-3.
- Younkin, James R., to Phillips Petroleum Co. Mass spectrometry. 2,905,821, 9-22-59, Cl. 250-41.9.
- Yousoufan, Hrant H. Air diffuser. 2,909,112, 10-20-59, Cl. 98-40.
- Youtz, Philip N. Apparatus for erecting buildings. 2,867,111, 1-6-59, Cl. 72-1.
- Youtz, Philip N. Method of erecting buildings. 2,871,544, 2-3-59, Cl. 25-155.
- Yovanovich, John M., and J. F. Dryer, Jr. Bast fiber plant harvesting machine. 2,891,368, 6-23-59, Cl. 56-15.
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- Yovich, Frederick,  $\frac{1}{2}$  to F. Ciotti. Rain visor for automobiles. 2,897,002, 7-28-59, Cl. 296-95.
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- Yuhaniak, Joseph G. Compound cylinder press mechanism. 2,876,744, 3-10-59, Cl. 121-38.
- Yushasz, Eugene V., to Union Carbide Corp. Welding dissimilar metal members. 2,914,641, 11-24-59, Cl. 219-9.5.
- Yule, John A. C., to Eastman Kodak Co. Black printer for electro-optical reproduction. 2,879,326, 3-24-59, Cl. 178-5.4.
- Yule, William H. D., to International Standard Electric Corp. Electrical relays. 2,874,246, 2-17-59, Cl. 200-104.
- Yule, William H. D., and J. C. Kingdom, to International Standard Electric Corp. Electrical relays. 2,889,425, 6-2-59, Cl. 200-104.
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- Yundt, Albert P., and K. E. Bradway, to Union Bag-Camp Paper Corp. Method of preparing starch and urea-formaldehyde adhesive and product obtained. 2,879,236, 3-24-59, Cl. 260-17.3.
- Yundt, Albert P., and K. E. Bradway, to Union Bag-Camp Paper Corp. Polyvinyl alcohol containing urea-formaldehyde adhesive and method of preparing same. 2,916,468, 12-8-59, Cl. 260-29.6.
- Yuni, William: *See*—  
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- Yurek, George J.: *See*—  
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- Yurka, August, Jr.: *See*—  
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- Yurka, August, Jr., to The Cyril Bath Co. Yieldably urged wipe forming and holding shoe adapted for curved surfaces. 2,888,973, 6-2-59, Cl. 153-40.
- Yurka, August, Jr., to The Cyril Bath Co. Wipe forming shoe and die combination. 2,911,031, 11-3-59, Cl. 153-40.
- Yurkut, Michael C. Rope game. 2,917,311, 12-15-59, Cl. 273-100.
- Yurtz, Joseph G. Automobile theft alarm. 2,885,504, 5-5-59, Cl. 200-61.49.
- Yusem, Milton, to United States of America, Navy. Production of vinyl siloxane potting compounds. 2,870,120, 1-20-59, Cl. 260-46.5.
- Yusem, Milton, to Bradley & Vrooman Co. Polymerizable epoxide group containing modified alkyd resins. 2,895,929, 7-21-59, Cl. 260-21.
- Yusem, Milton, to Bradley & Vrooman Co. Water emulsion of polymerizable epoxide group containing oil modified alkyd and formaldehyde condensation resins. 2,895,930, 7-21-59, Cl. 260-21.
- Yuska, Henry: *See*—  
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- Yust, Venard E., and J. L. Bame, to Shell Development Co. Lead scavenger compositions. 2,889,212, 6-2-59, Cl. 44-69.
- Yutz, Richard W.: *See*—  
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- Yutzy, Henry C., and L. W. Tregillus, to Eastman Kodak Co. Photographic roll film transfer process. 2,882,151, 4-14-59, Cl. 96-29.
- Z & W Machine Products, Inc.: *See*—  
Ziherl, Frank A. 2,878,943.
- Z & W Mfg. Corp.: *See*—  
Ziherl, Frank A. 2,907,517.
- Zabb, Norman J.: *See*—  
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- Zabel, Harry E. Garment applying device. 2,888,177, 5-26-59, Cl. 223-111.
- Zabel, Robert L. Outlet trap for septic tanks. 2,900,084, 8-18-59, Cl. 210-460.
- Zabielski, Raymond F. Folding furniture. 2,870,459, 1-27-59, Cl. 5-2.
- Zabka, Franz, and K. Schulze, to Siemens & Halske Akt. Method of welding a copper wire to an aluminum body. 2,883,518, 4-21-59, Cl. 219-118.
- Zablocki, Henry S.: *See*—  
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- Zablocki, Henry S. Battery component. 2,918,518, 12-22-59, Cl. 136-145.
- Zabor, Robert C.: *See*—  
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- Zabrasky, Franz. X-ray unit. 2,912,590, 11-10-59, Cl. 250-90.
- Zabriskie, Douglas M.: *See*—  
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- Zaccone, Frank P. Scribing implement. 2,870,539, 1-27-59, Cl. 33-41.
- Zach, Julius J., to General Steel Castings Corp. Railway vehicle truck. 2,888,880, 6-2-59, Cl. 105-132.1.
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- Zach, Wilhelm,  $\frac{1}{2}$  to A. Harter, K. G. Electric dry shaving apparatus. 2,867,039, 1-6-59, Cl. 30-43.
- Zachar, John: *See*—  
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- Zacharia, Tewfic, to PROTO, International Hygienic Food Co. Wheat food. 2,895,831, 7-21-59, Cl. 99-90.
- Zacharias, Ellis M., Jr. Cultivator attachments. 2,871,957, 2-3-59, Cl. 172-96.
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- Zachariasen, William H., to United States of America, Atomic Energy Commission. Production of thorium fluoride. 2,899,270, 8-11-59, Cl. 23-14.5.
- Zacher, Irving C.: *See*—  
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- Zacher, Norman E., to Elob Mfg. Co. Antenna mounting structure. 2,878,303, 3-17-59, Cl. 174-153.
- Zachow, Henry E., to American Mfg. Co., Inc. Bag bundling press. 2,917,881, 12-22-59, Cl. 53-124.
- Zachowski, Walter A.: *See*—  
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- Zack, Albert, T. Wroblewski, and R. F. De Merritt, to Sylvania Electric Products Inc. Method of manufacturing electromagnetics coils. 2,915,811, 12-8-59, Cl. 29-155.57.
- Zack, Oscar S. Awning. 2,875,827, 3-3-59, Cl. 160-165.
- Zackheim, Eli A., to Johnson & Johnson. Dispensing liquid containers. 2,877,810, 3-17-59, Cl. 141-24.
- Zackheim, Eli A., to Johnson & Johnson. Sterile packaging. 2,897,962, 8-4-59, Cl. 206-63.5.
- Zademach, Erich R., C. J. Auger, and I. L. Lans, to Metal-wash Machinery Co. Degreaser. 2,867,225, 1-6-59, Cl. 134-109.
- Zadnik, Otto E. F., to C. A. Parsons & Co. Ltd. Combined gas turbine and steam generator. 2,907,170, 10-6-59, Cl. 60-39.14.
- Zaerr, Basil J., to Bendix Aviation Corp. Coupling of magnetostriuctive stack to diaphragm. 2,885,577, 5-5-59, Cl. 310-26.
- Zafrann, Ralph D.: *See*—  
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- Zagray, Harold F., to Precision Building System, Inc. Interlocking building block. 2,882,715, 4-21-59, Cl. 72-29.
- Zaharakis, George B. Projectile for simulating firing of automatic weapons. 2,892,400, 6-30-59, Cl. 102-7.6.
- Zahlten, August E. Anti-skid tire. 2,888,056, 5-26-59, Cl. 152-208.
- Zahn, Harold E., to Gould-National Batteries, Inc. Electric battery. 2,906,805, 9-29-59, Cl. 136-170.



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- Zahodiak, Victor F. Fastening devices. 2,879,574, 3-31-59, Cl. 24—221.
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- Zahodiak, Victor F. Locking sleeve contractable by wedging threads to engage a stud. 2,896,684, 7-28-59, Cl. 151—19.
- Zahradnik, George J., to A. B. Dick Co. Mechanism for adjusting head registration in a printing machine. 2,905,086, 9-22-59, Cl. 101—248.
- Zahradnik, George J., to A. B. Dick Co. Receiving tray for duplicators. 2,905,467, 9-22-59, Cl. 271—86.
- Zaic, Frank. Flying devices. 2,876,585, 3-10-59, Cl. 46—79.
- Zaiger, Max: *See*—  
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- Zajac, Michael, and J. Wisnicki, to Buhr Machine Tool Co. Lead screw unit. 2,905,015, 9-22-59, Cl. 74—472.
- Zajac, Stephen J., and R. A. Svenson, to Standard Oil Co. High temperature grease containing free metal base and silicone polymer oil. 2,911,369, 11-3-59, Cl. 252—40.
- Zajac, Theodore S., to Zalo Mfg. Co. Nozzle device. 2,874,996, 2-24-59, Cl. 299—150.
- Zajac, Theodore S., to Zalo Mfg. Co. Valved coupling. 2,905,485, 9-22-59, Cl. 284—18.
- Zajac, Theodore S., to Zalo Mfg. Co. Pin detent pipe or tube coupling with manipulator. 2,913,263, 11-17-59, Cl. 285—277.
- Zakariás, Imre, to Egyesült Izzólampa és Villamossági Reszvénytársaság. Interstage coupling circuits for high frequency multigrid voltage amplifiers. 2,872,534, 2-8-59, Cl. 179—171.
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- Zakheim, Murray, to Pennsalt Chemicals Corp. Method and composition for pest control. 2,914,441, 11-24-59, Cl. 167—42.
- Zakin, Paul P., to Spectralum Corp. Ophthalmic mounting. 2,914,986, 12-1-59, Cl. 88—47.
- Zakrzewski, Andrew S., G. Ashby, Z. Daskiewicz, and E. S. Moore, to Taymouth Industries Ltd. Head for power operated screw driver. 2,870,805, 1-27-59, Cl. 144—32.
- Zakrzewski, Andrew S., and G. S. Ashby, to Pneuma-Serve Ltd. Power operated nut runner. 2,872,836, 2-10-59, Cl. 81—54.
- Zale, Thad F., to Genco, Inc. Moving target with simulated projector. 2,899,205, 8-11-59, Cl. 273—101.2.
- Zaleski, John F., to General Precision Laboratory Inc. Microwave phasing system. 2,867,800, 1-6-59, Cl. 343—13.
- Zaleski, John F., to General Precision Laboratory Inc. Microwave duplex switch. 2,885,677, 5-5-59, Cl. 343—777.
- Zalkind, Albert M. Novelty and amusement device. 2,887,818, 5-26-59, Cl. 46—1.
- Zalkind, Joseph. Device for separating and sorting manifold sets. 2,915,234, 12-1-59, Cl. 225—101.
- Zaller, Raymond C.: *See*—  
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- Zalm, Pieter: *See*—  
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- Zalo Mfg. Co.: *See*—  
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- Zalonis, John A. Trigger actuated fish hook. 2,889,656, 6-9-59, Cl. 43—37.
- Zalozecky, Bogdan, to Fa. Gassarek. Press attachment. 2,867,002, 1-6-59, Cl. 18—16.
- Zaltman, Simon. Bank holdup deterrent systems. 2,909,767, 10-20-59, Cl. 340—276.
- Zandberg, Paul I.: *See*—  
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- Zander, Delmond C. Pork fat trimming knife. 2,880,507, 4-7-59, Cl. 30—317.
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- Zander, Werner: *See*—  
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- Zanger, Nathan. Micro-hole locator. 2,914,970, 12-1-59, Cl. 77—63.
- Zankl, Robert H. Nylon lock bushing. 2,913,284, 11-17-59, Cl. 308—15.
- Zanni, Guido R., A. E. Tortolani, and P. D. Jamieson, to Dorin Enterprises Corp. Automatic bead looping machine. 2,909,030, 10-20-59, Cl. 59—2.
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- Zapf, Donald C.: *See*—  
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- Zapf, Richard S.: *See*—  
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- Zapf, Richard S., to Western Electric Co., Inc. Apparatus for forming wires. 2,877,809, 3-17-59, Cl. 140—102.
- Zapp, Franz J., to Will Corp. Manometric apparatus. 2,867,510, 1-6-59, Cl. 23—253.
- Zapp, Robert L.: *See*—  
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- Zappacosta, John A. Electronic display apparatus. 2,886,731, 5-12-59, Cl. 313—108.
- Zarate, Raul. Flag stand. 2,883,133, 4-21-59, Cl. 248—44.
- Zareko, Walter. Frame mounting. 2,872,140, 2-3-59, Cl. 248—28.
- Zarel, Frank: *See*—  
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- Zaremski, Donald R., to Allegheny Ludlum Steel Corp. Electropolishing metal. 2,871,175, 1-27-59, Cl. 204—140.5.
- Zaremski, Donald R., and J. M. Beigay, to Allegheny Ludlum Steel Corp. Method of descaling nickel alloys. 2,913,360, 11-17-59, Cl. 134—4.
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- Zargarpur, Rouhollah, to Stewart-Warner Corp. Speedometers. 2,907,297, 10-6-59, Cl. 116—116.
- Zarn, Adolphe E. Hydraulic check device for looms. Hydraulic check device for looms. 2,894,540, 7-14-59, Cl. 139—161.
- Zarnack, Werner. Fluid pressure operated actuating device. 2,902,004, 9-1-59, Cl. 121—38.
- Zarnowski, Frank J., to Orchard Brothers Inc. Awnings. Re. 24,675, 7-28-59, Cl. 160—235.
- Zarrolli, Camillo A., to American Viscose Corp. Knot slippage tester. 2,881,615, 4-11-59, Cl. 73—95.
- Zartler, Herbert P., to Wittek Mfg. Co. Quick acting hose clamp. 2,900,698, 8-25-59, Cl. 24—279.
- Zarwell, Cedric E.: *See*—  
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- Zasada, Steven K. Automatic mooring device for buoys. 2,903,716, 9-15-59, Cl. 9—8.
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- Zauderer, Benjamin: *See*—  
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- Zauderer, Hersch: *See*—  
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- Zaugg, Harold E.: *See*—  
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- Zaugg, Harold E., and B. W. Horrom, to Abbott Laboratories. Process of preparing p-aminomethylphenylacetic acid. 2,881,210, 4-7-59, Cl. 260—518.
- Zaugg, Samuel, to Motha Treuinstitut. Electric ignition devices for projectiles. 2,913,007, 12-22-59, Cl. 102—70.2.
- Zava, Thomas E.: *See*—  
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- Zavertnik, Marshall G., to Killark Electric Mfg. Co. Fixture hangers. 2,896,972, 7-28-59, Cl. 285—50.
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- Závody Jiřího Dimitrova, národní podnik: *See*—  
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- Zavolner, Leo. Adjustable plate holders and the like. 2,899,154, 8-11-59, Cl. 248—30.
- Zawacki, Edmund F.: *See*—  
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- Zawaski, Felix F., to Michigan Tool Co. Basket loader. 2,876,603, 3-10-59, Cl. 53—59.
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- Zazzara, Joseph R. Jar cap detector. 2,913,547, 11-17-59, Cl. 200—61.41.
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- Zboril, Frederic R., to Lockheed Aircraft Corp. Beam deflecting cage for antennas. 2,900,636, 8-18-59, Cl. 343—767.
- Zbornik, Thomas W.: *See*—  
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- Zeamer, Aaron C., to Smith-Corona Marchant Inc. Type-writer case shift control of type impact. 2,901,080, 8-25-59, Cl. 197—183.
- Zeafross, Elmer W., Jr. Evaporator feed control means in refrigerating apparatus. 2,871,679, 2-3-59, Cl. 62—504.
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- Zebarth, Ralph S., to Gordon Johnson Equipment Co. Automatic auger-type scalding for scalding poultry. 2,882,550, 4-21-59, Cl. 17—11.2.
- Zebarth, Ralph S., to Gordon Johnson Equipment Co. Circulator for liquid tanks. 2,884,233, 4-28-59, Cl. 259—95.
- Zebarth, Ralph S., to Gordon Johnson Equipment Co. Combined conveyor and cleaner for small articles. 2,891,276, 6-23-59, Cl. 17—11.
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- Zebley, Donald D.,  $\frac{1}{2}$  to H. A. Sperlich. Conveyor construction. 2,869,709, 1-20-59, Cl. 198—177.
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- Zebree, David T., to Hercules Powder Co. Detonator compositions. 2,867,517, 1-6-59, Cl. 52—2.
- Zebree, David T., to Hercules Powder Co. Detonator compositions. 2,867,518, 1-6-59, Cl. 52—2.
- Zebree, David T., to Hercules Powder Co. Delay fuse. 2,892,695, 6-30-59, Cl. 52—2.
- Zebree, David T., to Hercules Powder Co. Ignition mixtures and electric initiators. 2,908,559, 10-13-59, Cl. 52—2.
- Zebriek, Andrew J., to Union Carbide Corp. Blowpipe nozzle and method of manufacture. 2,896,698, 7-28-59, Cl. 158—27.4.
- Zecchini, Pierre Y. Liquid-product dispenser for the direct application on surfaces. 2,911,664, 11-10-59, Cl. 15—13.4.
- Zech, John D., to Atlas Powder Co. Sequestering process. 2,868,724, 1-13-59, Cl. 210—58.
- Zech, John D., to Atlas Powder Co. Diamides of heterocyclic hydroxy amines and esters thereof. 2,913,452, 11-17-59, Cl. 260—211.
- Zechlin, Leo G.: See—  
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- Zechmeister, Laszlo K.: See—  
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- Zedi, Frederic: See—  
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- Zega, Frank. Golf club guide. 2,868,543, 1-13-59, Cl. 273—191.
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- Zegler, Sylvester T., to United States of America, Atomic Energy Commission. Method of heat-treating uranium-silicon alloys. 2,898,252, 8-4-59, Cl. 148—13.
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- Zeidler, Howard M., to General Electric Co. Trigger circuit. 2,882,400, 4-14-59, Cl. 250—27.
- Zeidler, Kurt E., to Standard Railway Equipment Mfg. Co. Wall structure for refrigerator cars. 2,899,913, 8-18-59, Cl. 105—409.
- Zeidler, Reinhold C.: See—  
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- Zeidler, Reinhold C., and W. A. Barnes, to Borg-Warner Corp. Clutch devices. 2,914,158, 11-24-59, Cl. 192—89.
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- Zeigle, Kenneth C., to Electric Vendors, Inc. Feed roll for stamp vending machines. 2,892,628, 6-30-59, Cl. 271—2.3.
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- Zeigler, John M., to Divco-Wayne Corp. Non-skid braking system using pre-set pulsing action. 2,906,376, 9-29-59, Cl. 188—85.
- Zeigler, Philip B.: See—  
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- Zeile, Karl: See—  
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- Sehring, Richard, and Zeile. 2,898,341.
- Zeile, Karl, F. Adickes, and H. Wick, to C. H. Boehringer Sohn. N-carbocyclohexoxy- and certain N-carboalkoxy-methyl derivatives in quaternary tropeines. 2,872,452, 2-3-59, Cl. 260—292.
- Zeile, Karl, and R. Sehring, to C. H. Boehringer Sohn. O-lower alkyl-O-(phenyl-mercapto-alkyl)-O-( $\beta,\beta$ -dichlorovinyl)-phosphates. 2,890,237, 6-9-59, Cl. 260—461.
- Zeiman, Roy H., to The Thew Shovel Co. Ball bearing. 2,897,021, 7-28-59, Cl. 308—199.
- Zeiss, Carl: See—  
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- Drodofsky, Martin. 2,911,877.
- Erbe, Otto A. K., Hartwig, and Rakebrandt. 2,869,373.
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- Hansen, Gerhard. 2,909,099.
- Michel, Kurt. 2,910,913.
- Rantsch, Kurt. 2,911,880.
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- Sonnberger, Heinrich. 2,889,630.
- Steigerwald, Karl H. 2,902,583.
- Zeiss Ikon A.G.: See—  
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- Rohloff, Gunter, and Schwister. 2,914,998.
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- Sauer, Edgar, and Zink. 2,891,454.
- Serwahn, Josef. 2,891,457.
- Zeiss Ikon A.G., Stuttgart: See—  
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- Zeitler, Richard J.: See—  
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- Maslow, John F., and Zeitler. 2,913,001.
- Zeitler, Charles R., to American Box Board Co. Tamper proof box. 2,918,205, 12-22-59, Cl. 229—45.
- Zeilepis, John: See—  
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- Zeletzky, Franz A., and R. M. G. Phillips, to The Bullard Co. Transmission. 2,900,843, 8-25-59, Cl. 74—665.
- Zelina, William B.: See—  
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- Zelina, William B., to General Electric Co. Unidirectional voltage multiplier and divider. 2,886,764, 5-12-59, Cl. 322—25.
- Zelina, William B., to General Electric Co. Electric control signal deriving system. 2,911,586, 11-3-59, Cl. 323—65.
- Zelinka, Richard J.: See—  
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- Zelinka, Richard J., to Minneapolis-Honeywell Regulator Co. Semiconductor apparatus. 2,896,151, 7-21-59, Cl. 323—22.
- Zelinka, Richard J., to Minneapolis-Honeywell Regulator Co. Cascaded tetrode transistor amplifier. 2,897,295, 7-28-59, Cl. 179—171.
- Zeller Corp.: See—  
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- Zeller, Robert C. 2,915,344.
- Zeller, Edward B., to Western Electric Co., Inc. Wire straightening blocks. 2,888,974, 6-2-59, Cl. 153—96.
- Zeller, Paul: See—  
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- Inhoffen, Hans H., Isler, Montavon, Ruegg, and Zeller. 2,890,249.
- Isler, Otto, Lindlar, Montavon, Ruegg, and Zeller. 2,870,197.
- Isler, Otto, Lindlar, Montavon, Ruegg, and Zeller. 2,898,385.
- Isler, Otto, Montavon, Ruegg, and Zeller. 2,867,627.
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- Zeller, Robert C., to The Zeller Corp. Universal joint. 2,912,838, 11-17-59, Cl. 64—17.
- Zeller, Robert C., to The Zeller Corp. Sealing means for trunnion bearings. 2,915,344, 12-1-59, Cl. 308—187.1.
- Zellers, James T., Jr., and G. F. Ritter, Jr., to Libbey-Owens-Ford Glass Co. Apparatus for supporting sheet material. 2,878,621, 3-24-59, Cl. 49—33.
- Zellers, Mabel W. Electric heater. 2,882,381, 4-14-59, Cl. 219—34.
- Zellinsky, Robert V., and G. L. Jorn, to Western Gear Corp. Core-loader for winding machine. 2,913,098, 11-17-59, Cl. 198—21.
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- Altenweger, Alois. 2,907,092.
- Zellweger, Conrad, to La Nationale S.A. Filling valves for liquefied gas lighters. 2,882,940, 4-21-59, Cl. 141—293.



- Zellweger, Conrad, to La Nationale S.A. Lighters comprising a device for adjusting the delivery of fuel feeding the flame. 2,895,318, 7-21-59, Cl. 67-87.
- Zellweger, Conrad, to La Nationale S.A. Receptacles of light metal for liquefied gas, particularly adapted for recharging liquefied gas lighters. 2,895,633, 7-21-59, Cl. 220-3.
- Zellwolle Lenzing Akt.: See—  
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- Zelnick, Charles, to Lufkin Rule Co. Machinist's gauges. 2,876,552, 3-10-59, Cl. 33-162.
- Zelnick, Charles, to Lufkin Rule Co. Apparatus for measuring the size and symmetry of an opening formed in a work piece. 2,883,758, 4-28-59, Cl. 33-178.
- Zelnick, Charles, to Lufkin Rule Co. Apparatus for extending the length of a measuring tape winding crank handle. 2,899,839, 8-18-59, Cl. 74-545.
- Zelnick, Charles, to The Lufkin Rule Co. Indicators with resilient means for reversing the bias of the operating spindle. 2,900,733, 8-25-59, Cl. 33-172.
- Zelnick, Charles, to Lufkin Rule Co. Spring reel measuring tape. 2,904,282, 9-15-59, Cl. 242-107.
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- Zemany, Paul D.: See—  
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- Zemany, Paul D., to General Electric Co. Mass spectrometry. 2,901,616, 8-25-59, Cl. 250-41.9.
- Zemke, Kenneth M., to General Motors Corp. Combined control for carburetor and transmission. 2,870,649, 1-27-59, Cl. 74-472.
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- Zemp, René R., to E. I. du Pont de Nemours and Co. Leuco phthalocyanine and diazo compound in photographic element. 2,884,326, 4-28-59, Cl. 96-49.
- Zenchenko, William. Signaling device and attachment therefor. 2,874,670, 2-24-59, Cl. 116-67.
- Zenczak, Piotr: See—  
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- Zenczak, Piotr, to Evans Products Co. Battery separator and process of making the same. 2,882,331, 4-14-59, Cl. 126-146.
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- Zenel, Joseph A., and A. R. Morgan, to Radio Corp. of America. Magnetic record transducer. 2,895,015, 7-14-59, Cl. 179-100.2.
- Zenith Plastics Co.: See—  
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- Zenitz, Bernard L., to Sterling Drug Inc. N-monoalkyl- and N,N-dialkyl-N-[iris (hydroxymethyl)methyl] amines and preparation thereof. 2,885,441, 5-5-59, Cl. 260-584.
- Zenk, Martin J., Jr.: See—  
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- Zenner, Raymond E., and R. M. Bergslien, to The Leece-Neville Co. Generator control system. 2,877,404, 3-10-59, Cl. 322-25.
- Zenner, Walter J.: See—  
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- Zenner, Walter J., to Teletype Corp. Two-tape cipher system. 2,874,215, 2-17-59, Cl. 178-22.
- Zenner, Walter J., to Teletype Corp. Line feed for page printer. 2,909,602, 10-20-59, Cl. 178-25.
- Zenner, Walter J., to Teletype Corp. System and apparatus for transmitting and phasing telegraph signals. 2,915,585, 12-1-59, Cl. 178-26.
- Zenor, Hughes M., to McEvoy Co. Actuating device. 2,904,956, 9-22-59, Cl. 60-7.
- Zeus, Pierre M. F., and M. A. J. Honnoré. Change speed mechanism in gear boxes. 2,908,365, 10-13-59, Cl. 192-4.
- Zenz, Frederick A. Snowfall simulating apparatus. 2,897,619, 8-4-59, Cl. 40-106.25.
- Zepelovitch, Nathan, to N. A. Bernstein. Fountain pen construction. 2,874,679, 2-24-59, Cl. 120-42.16.
- Zepelovitch, Nathan, to N. A. Bernstein. Writing instrument filling device. 2,874,732, 2-24-59, Cl. 141-30.
- Zepelovitch, Nathan, to Columbia Pen & Pencil Co., Inc. Writing instrument construction. 2,881,736, 4-14-59, Cl. 120-42.3.
- Zepelovitch, Nathan. Writing instrument. 2,882,860, 4-21-59, Cl. 120-46.
- Zephyr Mfg. Co.: See—  
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- Zerbe, Richard O.: See—  
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- Zerby, George A.: See—  
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- Zerlin, Hans, to Jagenberg-Werke Akt.-Ges. Mechanism for dispensing liquid. 2,894,665, 7-14-59, Cl. 222-378.
- Zerlin, Hans, and H. Michaelis, to Jagen-Werke Akt.-Ges. Method of and apparatus for making polygonal containers of paper cardboard or the like. 2,869,440, 1-20-59, Cl. 93-55.1.
- Zern, Warren B. Plural jamb construction with metal dowel. 2,886,860, 5-19-59, Cl. 20-11.
- Zern, Warren B. Apparatus for routing hinge seats in doors and jambs having an integral stop. 2,894,333, 7-14-59, Cl. 33-197.
- Zern, Warren B. Brake for electric hand tool. 2,898,956, 8-11-59, Cl. 144-134.
- Zerneke, Funn, and L. S. Asmann. Bread slicer. 2,916,068, 12-8-59, Cl. 146-150.
- Zernov, Peter, to Mercury Engineering Corp. Blank counting mechanism. Re. 24,615, 3-3-59, Cl. 93-93.
- Zernov, Peter, to Mercury Engineering Corp. Apparatus for decurling a web. 2,918,897, 12-29-59, Cl. 118-124.
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Duncan, Lloyd P., L. L., and G. R., Sr. 2,873,723.
- Zeruneith, Rudolph E. Take-up mechanism. 2,870,618, 1-27-59, Cl. 66-152.
- Zeruneith, Rudolph E. Yarn changer. 2,887,859, 5-26-59, Cl. 66-138.
- Zeserson, Hyman M., and E. J. McFarland. Spring loaded shoe tree for children's shoes. 2,903,725, 9-15-59, Cl. 12-115.6.
- Zetetic Inc.: See—  
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- Zetour, Russell: See—  
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- Zettel, Joseph E.: See—  
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- Zetterström, Karl-Axel, to Svenska Flygmotor Aktiebolaget. Diffuser for sub-critical flow. 2,873,142, 2-10-59, Cl. 299-141.
- Zetzsche, Rolf, to VEB Carl Zeiss Jena. Apparatus for the microscopic observation of electrolytic or chemical etching or polishing operations. 2,891,897, 6-23-59, Cl. 204-273.
- Zennert, Fritz, and H. Buchholz, to Mannesmann-Meer Akt. Mandrel-protective device for cold-pilger rolling mills. 2,887,914, 5-26-59, Cl. 80-11.
- Zeuthen, Albert W.: See—  
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- Zeuthen, Leon H. Garment hangers. 2,914,228, 11-24-59, Cl. 223-95.
- Zevely, Thomas K., to The Washington Brick Co. Mold box stripping mechanism. 2,887,755, 5-26-59, Cl. 25-41.
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- Zick, William J., to B. Heller & Co. Method of preparing ground meat products. 2,899,311, 8-11-59, Cl. 99-108.
- Zickefoose, Ellis J., to Griffin Wheel Co. Pouring spout assembly and mounting arrangement. 2,874,424, 2-24-59, Cl. 22-69.
- Zickendraht, Christian, and E. J. Koller, to Ciba Ltd. New phthalocyanine dyestuffs. 2,897,207, 7-28-59, Cl. 260-314.5.



- Zickler, Gottfried: *See*—  
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- Ziebell, Theodore R., to The Cottrell Co. Printing plate tension lockups. 2,893,319, 7-7-59, Cl. 101—378.
- Ziebolz, Herbert, to GPE Controls, Inc. Compensation of back pressure variation in discharge type regulators. 2,903,007, 9-8-59, Cl. 137—83.
- Zieg, Clifford V. Automatic shut-off valve. 2,869,593, 10-20-59, Cl. 141—208.
- Zieg, Clifford V., J. C. Lee, and R. D. Lambert, to Symington-Wayne Corp. Double-acting diaphragm pump. 2,918,878, 12-29-59, Cl. 103—150.
- Ziege, Norman E., to Phillips Petroleum Co. Excess flow check valve. 2,917,077, 12-15-59, Cl. 137—514.7.
- Ziegenbein, Paul W. Self-sharpening safety pin. 2,904,865, 9-22-59, Cl. 24—156.
- Zieger, Albert: *See*—  
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- Ziegler, Eugene R., to General Motors Corp. Windshield cleaning system. 2,878,505, 3-24-59, Cl. 15—250.4.
- Ziegler, Eugene R., to General Motors Corp. Windshield cleaning system. 2,905,962, 9-29-59, Cl. 15—250.4.
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- Ziegler, Fritz: *See*—  
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- Ziegler, George N.: *See*—  
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- Ziegler, Hans W. G.: *See*—  
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- Ziegler, John C., to Bendix Aviation Corp. Anti-backlash gear train. 2,868,028, 1-13-59, Cl. 74—409.
- Ziegler, Karl. Production of alcohols. 2,892,858, 6-30-59, Cl. 260—448.
- Ziegler, Karl, and K. Hafner; said Hafner assor. to said Ziegler. Process for the preparation of azulenes. 2,900,426, 8-18-59, Cl. 260—666.
- Ziegler, Karl, and R. Koester; said Koester assor. to said Ziegler. Organo aluminum compounds, especially fluorides. 2,909,547, 10-20-59, Cl. 260—448.
- Ziegler, Karl, H.-G. Gellert, and K. Nagel; said Gellert and Nagel assors. to said Ziegler. Production of alkyl aluminum hydrides and their complex compounds with alkali hydrides. 2,915,541, 12-1-59, Cl. 260—448.
- Ziegler, Robert M., Jr., to Hughes Aircraft Co. Magnetostriction switch. 2,897,312, 7-28-59, Cl. 200—87.
- Ziegler, Walter: *See*—  
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- Ziegler, William M.: *See*—  
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- Ziegler, William M., to American Cyanamid Co. Refining process for vitamin B. 2,914,524, 11-24-59, Cl. 260—211.5.
- Ziehm, Günter: *See*—  
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- Ziehmer, George P., Jr., to American Can Co. Locking clip. 2,876,896, 3-10-59, Cl. 206—65.
- Ziel, Max G. Baseball control developer and tester. 2,873,969, 2-17-59, Cl. 273—26.
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- Zielinski, Max I.: *See*—  
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- Ziemer, Waldemar: *See*—  
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- Zienty, Ferdinand B., to Monsanto Chemical Co. Preparation of substituted amines. 2,885,439, 5-5-59, Cl. 260—563.
- Zierden, Frank P. Hose reel mounting. 2,872,246, 2-3-59, Cl. 299—78.
- Zierden, Frank P. Hose reel. 2,888,217, 5-26-59, Cl. 242—86.
- Zierden, Frank P. Christmas tree stand. 2,905,414, 9-22-59, Cl. 248—44.
- Zierdt, Conrad H., Jr., to General Electric Co. Semiconductor device. 2,882,462, 4-14-59, Cl. 317—235.
- Zierdt, Conrad H., Jr., to General Electric Co. Semiconductor device construction. 2,887,628, 5-19-59, Cl. 317—234.
- Zierick, Ambrose E. Hydraulic clutch and turbine drive. 2,887,847, 5-26-59, Cl. 60—54.
- Zierick, Ambrose E. Hydraulic clutch and turbine drive. 2,894,369, 7-14-59, Cl. 60—54.
- Zies, Carl W., to International Basic Economy Corp. Press for dewatering slurries. 2,903,960, 9-15-59, Cl. 100—148.
- Ziesche, Kurt, A. Kobus, and O. May, to Klockner-Humboldt-Deutz Akt. Device for use in connection with fuel injection pumps for adjusting the delivery thereof. 2,905,020, 9-22-59, Cl. 74—526.
- Ziese, Walter, to Badische Anilin- & Soda-Fabrik Akt. Process for the continuous production of hydrogels containing silicic acid. 2,871,099, 1-27-59, Cl. 23—182.
- Ziese, Walter, W. Chorbacher, and A. Steinhof, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of colloidal soluble aluminum hydroxide. 2,907,634, 10-6-59, Cl. 23—143.
- Zievers, James F., to Industrial Filter & Pump Mfg. Co. Filtering apparatus. 2,891,673, 6-23-59, Cl. 210—323.
- Ziff, Henry. Insulated bag. Re. 24,600, 2-17-59, Cl. 150—52.
- Ziffer, Jack: *See*—  
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- Ziffer, Walter: *See*—  
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- Ziffer, Walter, to W. S. Weddell. Method of and apparatus for torque transmission. 2,909,942, 10-27-59, Cl. 74—677.
- Zifferer, Lothar R. Apparatus for curing a moldable object with carbon dioxide. 2,876,510, 3-10-59, Cl. 22—89.
- Zig Zag Spring Co.: *See*—  
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- Ziherl, Frank A., to Z & W Machine Products, Inc. Oil and chip separator. 2,878,943, 3-24-59, Cl. 210—374.
- Ziherl, Frank A., to Z & W Mfg. Corp. Liquid from metal scrap separator. 2,907,517, 10-6-59, Cl. 233—7.
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- Zilem, Adam C., and E. E. Varner. Tooth brush holder. 2,868,361, 1-13-59, Cl. 206—15.1.
- Zilk, Carl S. Dispensing apparatus. 2,887,250, 5-19-59, Cl. 222—76.
- Zill, Edwin O.: *See*—  
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- Ziller, Hans J., and H. Sikora, said Sikora assor. to said Ziller. Elastic seal for anti-friction bearings. 2,916,313, 12-8-59, Cl. 286—11.
- Zilliken, Friedrich: *See*—  
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- Zilm, Dwight M., to Canadian Forest Products Ltd. Bracing apparatus for logs in veneer lathes. 2,884,966, 5-5-59, Cl. 144—209.
- Zima, Otto, and G. Seitz, to E. Merck Aktiengesellschaft. N-(beta-methyl-mercapto-ethyl) derivatives of certain tropane alkaloids. 2,915,522, 12-1-59, Cl. 260—292.
- Zimar, Frank: *See*—  
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- Zimet, Mack M.: *See*—  
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- Zimiles, Paul: *See*—  
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- Zimmer, Frederick O.: *See*—  
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- Zimmer, Hans W., to The Chattanooga Medicine Co. Substituted benzenesulfonylhydrazones (H). 2,912,445, 11-10-59, Cl. 260—397.7.
- Zimmer, Harold C., to The Homer Mfg. Co., Inc. Magnetic conveyor. 2,881,901, 4-14-59, Cl. 198—41.
- Zimmer, Thomas R., Jr.: *See*—  
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- Zimmerley, Stuart R., and J. D. Prater, to Kennecott Copper Corp. Process for producing pure ammonium perchlorate and other rhenium compounds. 2,876,065, 3-3-59, Cl. 23—51.
- Zimmerli, Adolf. Container closure. 2,885,128, 5-5-59, Cl. 222—541.
- Zimmerli, Frederick H., to Minneapolis-Honeywell Regulator Co. Flapper-nozzle couple with perforated flapper. 2,914,076, 11-24-59, Cl. 137—82.
- Zimmerli, Frederick H., to Minneapolis-Honeywell Regulator Co. Electric signal transducer. 2,915,695, 12-1-59, Cl. 323—66.
- Zimmerli, Kurt, to B. F. Perkins & Son, Inc. Calendar apparatus. 2,900,747, 8-25-59, Cl. 38—52.
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- Zimmerman, Charles H., deceased; by R. C. Zimmerman, administrator, to The Zimmerman Packing Co. Cutting implement. 2,880,506, 4-7-59, Cl. 30—293.
- Zimmerman, Charles L.: *See*—  
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- Zimmerman, Elizabeth M., to Philco Corp. Method of jet plating. 2,873,232, 2-10-59, Cl. 204—15.
- Zimmerman, Franklin E.: *See*—  
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- Zimmerman, George, to Owens-Illinois Glass Co. Electric welding glass parts. 2,867,948, 1-13-59, Cl. 49—82.
- Zimmerman, Hale G., and J. W. Welsh. Thermodynamic container. 2,876,634, 3-10-59, Cl. 62—457.
- Zimmerman, Harvey. Hinge type drop-leaf support. 2,902,326, 9-1-59, Cl. 311—64.
- Zimmerman, Herman M., and R. A. Powers, to Union Carbide Corp. Corrosion inhibitors. 2,900,434, 8-18-59, Cl. 136—161.
- Zimmerman, Jack J., to Die-Form Circuits of Delaware, Inc. Electrical component placing device. 2,878,475, 3-24-59, Cl. 1—82.



- Zimmerman, John, to General Motors Corp. Pump. 2,871,846, 2-3-59, Cl. 123-140.
- Zimmerman, Joseph E. House trailer awning. 2,909,220, 10-20-59, Cl. 160-213.
- Zimmerman Packing Co., The: *See*—  
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Zimmerman, Ralph C. 2,869,882.
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- Zimmerman, William P.: *See*—  
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- Zimmermann, Albert. Noting device, in particular for telephone numbers. 2,894,343, 7-14-59, Cl. 40-86.
- Zimmermann, Carl T.: *See*—  
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- Zimmermann, Ehrenfried, and W. Hennings. Closures for bottles and like containers. 2,884,149, 4-28-59, Cl. 215-37.
- Zimmermann, Ernest E. H., Jr.: *See*—  
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- Zimmermann, Francis J.: *See*—  
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- Zimmermann, Francis J., to Arthur D. Little, Inc. Liquefaction of low-boiling gases. 2,909,903, 10-27-59, Cl. 62-8.
- Zimmermann, Frederick J. Oxidation regulation. 2,903,425, 9-8-59, Cl. 210-63.
- Zimmermann, Herbert, to Hoesch Werk Akt. Multiple shell grab. 2,867,047, 1-6-59, Cl. 37-182.
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- Zimmermann, Joseph J., to Electronic Secretary Industries, Inc. Automatic telephone answering apparatus. 2,881,252, 4-7-59, Cl. 179-6.
- Zimmermann, Joseph J., to Electronic Secretary Industries, Inc. Message recording and reproducing device for a mobile radio-telephone receiver. 2,909,618, 10-20-59, Cl. 179-100.11.
- Zimmermann, Markus: *See*—  
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- Zimmermann, Michael W.: *See*—  
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- Zimmermann, Richard, to W. Bauermann & Sohne G. m. b. H. Self-opening umbrella. 2,877,782, 3-17-59, Cl. 135-23.
- Zimmermann, Wilhelm, and H. Wendeborn, to Metallgesellschaft Akt. Cooling of hot materials. 2,892,265, 6-30-59, Cl. 34-187.
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- Koepke, John F., Zimsky, and Mocker. 2,904,616.
- Zindler, Roger R.: *See*—  
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- Zingone, Anthony E., to Zylro Corp. Latch mechanism. 2,868,577, 1-13-59, Cl. 292-99.
- Zink, George A., J. P. Child, J. Servi, and R. J. Gorsky, to General Motors Corp. Core making apparatus. 2,899,725, 8-18-59, Cl. 22-10.
- Zink, John, Co.: *See*—  
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- Zink, John S., to John Zink Co. Gas burner assembly. 2,869,631, 1-20-59, Cl. 158-115.
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- Zink, William W., Jr., to Lennox Industries, Inc. Blower construction and method of assembly. 2,895,668, 7-21-59, Cl. 230-134.
- Zinke-Allmang, Helmut, O. Leichte, G. von Bank, and R. Keller, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of acrylic acid esters. 2,905,598, 9-22-59, Cl. 202-57.
- Zinke, Erwin M. Suction cup. 2,871,054, 1-27-59, Cl. 294-64.
- Zinke, Otto, P. Thilo, and W. Krueger, to Siemens & Halske Aktiengesellschaft. Transition from coaxial cable to a ground-symmetric device supplied thereby. 2,908,876, 10-13-59, Cl. 333-26.
- Zinkil, Roy H., to Crane Co. Diaphragm valve. 2,885,180, 5-5-59, Cl. 251-331.
- Zinkowski, Charles N., to Republic Aviation Corp. Device for packaging machines. 2,914,896, 12-1-59, Cl. 53-78.
- Zinn, Eli, and J. J. Lukes, to Diamond Alkali Co. Chemical product and process. 2,914,574, 11-24-59, Cl. 260-650.
- Zinn, Manvel K., to Bell Telephone Laboratories, Inc. Delay network. 2,890,333, 6-9-59, Cl. 250-27.
- Zinn, Walter H., to United States of America, Atomic Energy Commission. Neutronic reactor charging and discharging. 2,894,892, 7-14-59, Cl. 204-193.2.
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- Zinn, Werner G., Jr.: *See*—  
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- Zinnert, Friedrich: *See*—  
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- Zinsco Electrical Products: *See*—  
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- Zintel, Clarence C. Coat-hanger cover. 2,873,054, 2-10-59, Cl. 223-98.
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- Zipper, Donald H.: *See*—  
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- Zipper, Walter J. Solenoid construction. 2,887,883, 5-26-59, Cl. 74-2.
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- Zirbel, Irving E., to J. M. Nash Co., Inc. Flat bed finishing machine. 2,901,870, 9-1-59, Cl. 51-137.
- Zirm, Konrad L., and A. Pongratz, to Lannacher Heilmittel Ges. m. b. H. Nicotinic acid ester of 7-oxyethyl theophylline. 2,878,251, 3-17-59, Cl. 260-256.
- Zirm, Konrad L., and A. Pongratz. Nicotinic acid ester of morphine. 2,878,253, 3-17-59, Cl. 260-285.
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- Zirngibl, Hans: *See*—  
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- Zirnite, Richard N.: *See*—  
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- Ziserman, Martin, to United Aircraft Corp. Analogue to binary coded system converter. 2,873,442, 2-10-59, Cl. 340-347.
- Ziskal, Joseph F.: *See*—  
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- Ziskal, Joseph F., to International Harvester Co. Pressure responsive limited movement valve mechanism for hydraulic system. 2,894,492, 7-14-59, Cl. 121-41.
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- Zisler, Siegfried, and G. Dubost, to Societe francaise Sadir-Carpentier. Arrangement for controlling radar systems. 2,871,472, 1-27-59, Cl. 343-17.7.
- Zitell, Louis T., to Varian Associates. Klystron amplifier. 2,915,670, 12-1-59, Cl. 315-5.35.
- Zitke, Ernest J., to Bird & Son, Inc. Method of applying particles to a surface in predetermined patterns and apparatus therefor. 2,905,569, 9-22-59, Cl. 117-25.
- Zito, George V., to Bendix Aviation Corp. Liquid oxygen depth indicating system. 2,882,728, 4-21-59, Cl. 73-304.
- Zito, George V., to United States of America, Atomic Energy Commission. High voltage generator. 2,883,551, 4-21-59, Cl. 250-83.6.
- Zito, Ralph, to American Machine & Foundry Co. Impact indicating system. 2,916,289, 12-8-59, Cl. 273-102.2.
- Zitomir, Abe, to Alumac Corp. of America. Porch or garden house enclosure. 2,905,231, 9-22-59, Cl. 189-34.
- Zitomir, Joseph H. Illuminated electric ceiling fixture construction. 2,873,828, 2-17-59, Cl. 189-82.
- Zittle, John H., to Quaker State Metals Division of Howe Sound Co. Sandwich wall units. 2,913,075, 11-17-59, Cl. 189-34.
- Zittrell, Anton: *See*—  
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- Zittrell, Anton, and A. Maier, to Zahnradfabrik Friedrichshafen. Synchronizing device. 2,900,059, 8-18-59, Cl. 192-53.
- Zitzewitz, Barbara O.: *See*—  
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- Zitzewitz, Elmer K.: *See*—  
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- Zivi, Edwin L. Collapsible overbed table. 2,893,803, 7-7-59, Cl. 311-28.
- Zletz, Alex: *See*—  
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- Zletz, Alex, and D. R. Carmody, to Standard Oil Co. Rocket propulsion method. 2,893,202, 7-7-59, Cl. 60-35.4.
- Zletz, Alex, and D. R. Carmody, to Standard Oil Co. Rocket propulsion method. 2,896,400, 7-28-59, Cl. 60-35.4.
- Zletz, Alex, and D. R. Carmody, to Standard Oil Co. Rocket propulsion method. 2,896,401, 7-28-59, Cl. 60-35.4.
- Zletz, Alex, and D. R. Carmody, to Standard Oil Co. Rocket propulsion method. 2,896,402, 7-28-59, Cl. 60-35.4.
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- Zlotek, Thaddeus F., to Formsprag Co. Sprag retainer for one-way clutches. 2,892,523, 6-30-59, Cl. 192—45.1.
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- Zobac, Frank J. Foldable table structure. 2,916,339, 12-8-59, Cl. 311—19.
- Zoccolillo, Ralph: *See*—
- Musser, David M., and Zoccolillo. 2,867,563.
- Zoeller, Herman J., to Esso Research and Engineering Co. Lubricating oil containing a wax pour point and cloud point suppresser. 2,900,322, 8-18-59, Cl. 208—19.
- Zoellner, William G.: *See*—
- Bohrbaugh, John H., Pine, and Zoellner. 2,912,643.
- Zoetemelk, Jacobus J. Plural cut lawn edge trimmer. 2,903,838, 9-15-59, Cl. 56—246.
- Zoellmann, Paul. Emergency warning signal marker. 2,887,930, 5-26-59, Cl. 88—79.
- Zogg, Frederick E., to Burroughs Corp. Beam tube switching circuits. 2,877,377, 3-10-59, Cl. 315—21.
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- Zoldak, John, to The Anaconda Co. Longitudinally-divided pipe coupling sleeve with fluid pressure seal. 2,901,271, 8-25-59, Cl. 285—108.
- Zoll, Maurice B., to J. G. Wilson Corp. Rolling metal grille to serve as a closure device for a building. 2,898,988, 8-11-59, Cl. 160—229.
- Zoller, Hans. Device for swinging the front plate on dust bin emptying arrangements. 2,873,872, 2-17-59, Cl. 214—303.
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- Zoller, Ronald E., to The Babcock & Wilcox Co. Vapor generators for mixed power plants. 2,886,012, 5-12-59, Cl. 122—240.
- Zoller, Willis M.: *See*—
- Mertz, Clyde W., and Zoller. 2,893,327.
- Zollinger, Alfred, to Grinnell Corp. Pipe hanger. 2,918,238, 12-22-59, Cl. 248—54.
- Zollinger, Alfred, to Grinnell Corp. Motor-driven constant support hangers. 2,919,088, 12-29-59, Cl. 248—58.
- Zollinger, Ezra J. Chaffer screen feed for agricultural combine harvester. 2,893,558, 7-7-59, Cl. 209—254.
- Zollinger, Heinrich: *See*—
- Heckendorf, Alphonse, Fasciati, Zollinger. 2,889,316.
- Zollinger, Joseph L.: *See*—
- Barnhart, William S., and Zollinger. 2,914,500.
- Zolyn, Kazimir S., to White Industries, Inc. Tote box. 2,868,405, 1-13-59, Cl. 217—15.
- Zondlo, Henry E.: *See*—
- Loeper, Robert P., and Zondlo. 2,910,851.
- Zonealarm Corp.: *See*—
- Zedlar, Milan, and Lepley. 2,877,454.
- Zones, Jerry J.: *See*—
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- Goff, David C. 2,901,775.
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- Zorn, Hermann: *See*—
- Kern, Rudolf, Scheurer, Zorn, and Kruppke. 2,895,914.
- Zorn, Ralph A., to Grain Processing Corp. Bacitracin product and processes utilizing nickel compounds. 2,903,357, 9-8-59, Cl. 99—2.
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- Zottola, Frank R., to Empire Brushes, Inc. Mop with cam wringer. 2,916,754, 12-15-59, Cl. 15—116.
- Zouck, Peter G., and H. Y. Rienhoff, to Alloy Cladding Co., Inc. Method and apparatus for cladding. 2,902,588, 9-1-59, Cl. 219—76.
- Zozulin, Igor V., to Tormag Transmissions Ltd. Variable magnetic drive for agitators. 2,873,394, 2-10-59, Cl. 310—105.
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- Möller, Rolf, and Zschau. 2,916,285.
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- Zubal, Anthony, and A. Bouvier, to General Electric Co. Lead loading arrangement. 2,879,918, 3-31-59, Cl. 221—236.
- Zubaty, Joseph, to General Motors Corp. Fuel injection control valve. 2,873,956, 2-17-59, Cl. 261—69.
- Zubaty, Joseph, to General Motors Corp. Fuel supply system. 2,904,027, 9-15-59, Cl. 123—179.
- Zubkoff, Maurice J.: *See*—
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- Zublin, Julius. Rolling mill. 2,868,047, 1-13-59, Cl. 80—38.
- Zubris, Stanley. Shoe fastener. 2,870,508, 1-27-59, Cl. 24—207.
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- Zucker, Helen D.: *See*—
- Rowland, Charles S., and Zucker. 2,897,165.
- Zucker, Milton: *See*—
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- Zuckerman, Adolph M., to R. Hoe & Co., Inc. Rotary web printing machine. 2,887,312, 5-19-59, Cl. 270—5.
- Zuckerman, Jack, to Einson-Freeman Co., Inc. Display device. 2,894,344, 7-14-59, Cl. 40—130.
- Zuckschwerdt, Fritz: *See*—
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- Zuercher, Anthony J., to T. W. & C. B. Sheridan Co. Wrapper applying machine for newspapers. 2,879,636, 3-31-59, Cl. 53—53.
- Zuercher, Anthony J., and P. Schweizer, to T. W. & C. B. Sheridan Co. Error control mechanism for stuffing machine. 2,911,213, 11-3-59, Cl. 270—57.
- Zuercher, John, to American Machine & Foundry Co. Bowling pin handling mechanism. 2,874,823, 2-24-59, Cl. 198—119.
- Zuercher, John, to American Machine & Foundry Co. Bowling alley sweep mechanism. 2,878,019, 3-17-59, Cl. 273—54.
- Zuerker, Siegfried J., and B. J. Saggese, to General Electric Co. Electro-acoustic transducer. 2,894,182, 7-7-59, Cl. 317—201.
- Zug, Morris W., to Luward Corp. Portable foldable cabin. 2,883,713, 4-28-59, Cl. 20—2.
- Zugel, Victor A.: *See*—
- Heigl, Carl H., and Zugel. 2,869,870.
- Zuidema, Bert, to American Enka Corp. Apparatus for forming transfer tails. 2,881,533, 4-14-59, Cl. 57—34.
- Zuiderweg, Frederik J., to Shell Development Co. Contacting column with spray-catching device. 2,882,030, 4-14-59, Cl. 261—110.
- Zuiderweg, Frederik J., to Shell Development Co. Process for the distillation of a multi-component mixture. 2,909,484, 10-20-59, Cl. 208—347.
- Zuk, Gerald H. Braille book reader. 2,891,324, 6-23-59, Cl. 35—35.
- Zukor, Raymond. Adjustable headrest for train seats and the like. 2,869,621, 1-20-59, Cl. 155—177.
- Zuleeg, Charles C.: *See*—
- Brown, Edgar A., and Zuleeg. 2,872,257.
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- Hall, Carroll B., Perry, and Zullig. 2,870,132.
- Zullo, Michael J. Finger guard for knives. 2,901,824, 9-1-59, Cl. 30—295.
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- Zumbiel, C. W., Co., The: *See*—
- Stroheim, Milretta R. 2,878,931.
- Zumstein, Heinz: *See*—
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- Zunick, Michael J., and H. R. Cummings, to General Electric Co. Rotating structure. 2,885,583, 5-5-59, Cl. 313—60.
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- Zunick, Michael J., and L. S. Bell, to General Electric Co. X-ray apparatus. 2,909,664, 10-20-59, Cl. 250—90.
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- Grass, Joseph C., and Zupansic. 2,903,384.
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- Zurbruggen, Hugo: *See*—  
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- Zurbuchen, Louis E.: *See*—  
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- Zürcher, Alfred, to Sulzer Freres Societe Anonyme. Upright piston compressor. 2,878,990, 3-24-59, Cl. 230-172.
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- Ayala, Carl, to M. I. Glass. Combined toy rocket and launcher. 185,694, 7-21-59, Cl. D34-15.
- Aye, John D. Ash tray. 185,527, 6-23-59, Cl. D85-2.
- B-T Co., Inc.: See—  
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- B W Molded Plastics: See—  
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- Baber, Ernest M., Jr. Puzzle plaque. 184,596, 3-17-59, Cl. D34-15.
- Bacco, Stephen V., to Coats & Clark Inc. Sewing machine bobbin. 186,250, 9-29-59, Cl. D70-2.
- Bacevius, Joseph, and H. Ruskin, to Swingline, Inc. Pencil sharpener stand or similar article. 184,974, 4-28-59, Cl. D74-21.
- Bachmann Bros., Inc.: See—  
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McNeill, Albert G. 184,237.
- Baer, Jerome W. Self adjustable ramp. 184,655, 3-24-59, Cl. D15-8.
- Baird, Richard F.: See—  
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- Baird, William H., to Continental Can Co., Inc. Bottle. 184,207, 1-6-59, Cl. D58-8.
- Baker & Co., Inc.: See—  
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- Baker, Walter F., to Owens-Illinois Glass Co. Bottle. 185,880, 8-11-59, Cl. D58-8.
- Baker, Walter F., to Owens-Illinois Glass Co. Decanter. 185,926, 8-18-59, Cl. D58-8.
- Baldanza, Nicholas T., to E. I. du Pont de Nemours and Co. Comb or similar article. 186,970, 12-29-59, Cl. D86-3.
- Baldwin, Paul, and S. Couvreur, to Interindustrie. Colorimetric analyzer for chemical determinations. 186,661, 11-17-59, Cl. D16-2.
- Baldwin Piano Co., The: See—  
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- Balfour, Beatty & Co. Ltd.: See—  
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- Bail, Glenn F., to The Mason Ball-Corp. Utility cart. 185,058, 5-5-59, Cl. D14-3.
- Balmer, James G., Jr., N. T. Kuypers, and R. G. Smith, to United States Rubber Co. Tire. 186,095, 9-8-59, Cl. D90-20.
- Baltimore Paint and Chemical Corp.: See—  
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- Bamberger, Julien G., to B-T Co., Inc. Stabilizer fin for boats. 185,888, 8-11-59, Cl. D71-1.
- Bamburg, Robert A., to Olin Mathieson Chemical Corp. Produce carton. 185,882, 8-11-59, Cl. D58-12.
- Banks, Louis A., to The Waddell Co. Composite store counter and storage cabinet or the like. 185,936, 8-18-59, Cl. D80-11.
- Bantam-Lite, Inc.: See—  
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- Barba, Angelo J., and R. Borruso. Shoeshine box. 186,014, 9-1-59, Cl. D9-2.
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- Barber, Richard E. Precast outdoor fireplace. 184,794, 4-7-59, Cl. D81-7.
- Barczak, Virgil J. Record lifting tool. 185,655, 7-14-59, Cl. D54-13.
- Barecki, Chester J., to American Seating Co. Vehicle seat. 185,903, 8-18-59, Cl. D15-8.
- Barg, Herbert, to True Form Foundations, Inc. Brassiere. 186,766, 12-1-59, Cl. D20-4.
- Barg, Herbert, to True Form Foundations, Inc. Brassiere or the like. 186,885, 12-22-59, Cl. D20-4.
- Barger, James E., to Athens Hosiery Mills, Inc. Sock. 184,298, 1-27-59, Cl. D47-7.
- Barger, James E., to Athens Hosiery Mills, Inc. Sock. 184,299, 1-27-59, Cl. D47-7.
- Barnes, Clifford R. Combined card holder, ash tray and receptacle for smoking article. 186,808, 12-1-59, Cl. D85-2.
- Barnes, Jack V., to B W Molded Plastics. Wheel. 186,592, 11-10-59, Cl. D14-30.
- Barnes, Kenneth W. Illuminable sign. 185,832, 8-11-59, Cl. D1-12.
- Barnes, Robert F. Frame for a microscope or similar article. 186,911, 12-22-59, Cl. D57-1.
- Barnett, Raymond R., and H. G. Roth. Automobile top carrier. 184,847, 4-14-59, Cl. D14-27.
- Barrett, Alfred L. Game board. 184,652, 3-24-59, Cl. D34-5.
- Barron, Michael. Combination ruler, pad and pen holder desk set. 185,934, 8-18-59, Cl. D74-1.
- Barsumian, Garabed, to Dictaphone Corp. Hand microphone for a dictating machine. 185,964, 8-25-59, Cl. D26-14.
- Barthelemy, Roland A., and A. J. Brioschi, to Granit-Bronz, Inc. Cemetery plaque or the like. 185,113, 5-12-59, Cl. D79-2.
- Bartolotta, Palma S. Spectacle temple. 185,816, 8-4-59, Cl. D57-1.
- Barton, Glenn I., to Totem Wood Industries. Combination display package for table legs and appurtenant hardware or the like. 185,890, 8-11-59, Cl. D80-5.
- Bassett, W. E., Co., The: See—  
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- Bassett, William E. (incapable), by E. L. Lyon, Jr. (conservator). Nail clipper. 185,590, 6-30-59, Cl. D86-10.
- Bauerle, Emil O. Trivet or similar article. 184,503, 3-3-59, Cl. D44-10.
- Bauman, Merritt R., R. E. Downham, C. Jones, Jr., and R. Paus, to Ansul Chemical Co. Portable hand fire extinguisher. 185,957, 8-25-59, Cl. D16-2.
- Bausch & Lomb Optical Co.: See—  
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- Baxter, William C. Luggage carrier. 185,846, 8-11-59, Cl. D14-27.
- Bayberry Products Corp.: See—  
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- Bayer, Herbert. Space divider. 186,502, 11-3-59, Cl. D13-1.
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- Baynes, Leslie E., to Baynes Aircraft Interiors Ltd. Aircraft seat. 184,656, 3-24-59, Cl. D15-8.
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Overholser, John S., Bean, and Wilcox. 184,533.
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- Beauvais, Ramona P., to Foster Grant Co., Inc. Pair of novelty spectacles or the like. 184,702, 3-31-59, Cl. D57-1.
- Beauvais, Ramona P., to Foster Grant Co., Inc. Pair of novelty spectacles or the like. 184,703, 3-31-59, Cl. D57-1.
- Becker, Lyle M. Vending machine. 184,906, 4-21-59, Cl. D52-3.
- Becker, Wayne M., to Burroughs Mfg. Corp. Pastry mat or similar article. 185,114, 5-12-59, Cl. D92-26.
- Beckman Instruments, Inc.: See—  
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- Beckwith, Edwin L. Self-clamping shelf edging. 186,695, 11-17-59, Cl. D59-2.
- Bedack, Joseph, and C. Carotenuto, Jr. Building block. 186,372, 10-20-59, Cl. D18-2.
- Bedack, Joseph, and C. Carotenuto, Jr. Building block for forming ornamental walls or similar articles. 186,373, 10-20-59, Cl. D18-2.
- Bedack, Joseph, and C. Carotenuto, Jr. Building block. 186,374, 10-20-59, Cl. D18-2.
- Beebe, Lawrence R. Game board. 186,609, 11-10-59, Cl. D34-5.
- Beebe, Lawrence R. Game board. 186,673, 11-17-59, Cl. D34-5.



- Beerman, Jack. Combined funnel and frame therefor. 185,115, 5-12-59, Cl. D44-10.
- Beger, Richard E., to The Lionel Corp. Enclosed spool fishing reel. 185,730, 7-28-59, Cl. D31-4.
- Beggy, Charles J., to Hughes Aircraft Co. Audio-visual apparatus. 186,697, 11-17-59, Cl. D61-1.
- Begun, Paul A. Concrete burial vault cover. 186,272, 10-6-59, Cl. D19-1.
- Begun, Paul A. Concrete burial vault cover. 186,273, 10-6-59, Cl. D19-1.
- Behnk, Donald J., to Attwood Brass Works, Inc. Marine flagstaff. 185,656, 7-14-59, Cl. D71-1.
- Behnk, Donald J., to Attwood Brass Works, Inc. Cleat for a boat or the like. 186,799, 12-1-59, Cl. D71-1.
- Behnk, Donald J., to Attwood Brass Works, Inc. Chock for a boat cleat or the like. 186,800, 12-1-59, Cl. D71-1.
- Behnk, Donald J., and G. W. Monigle, to Attwood Brass Works, Inc. Marine light. 185,621, 7-7-59, Cl. D48-32.
- Behnk, Donald J., and G. W. Monigle, to Attwood Brass Works, Inc. Combined marine light and flagstaff. 186,906, 12-22-59, Cl. D48-32.
- Behnke, Edward R.: *See*—
- Devonshire, William H., and Behnke. 185,537.
- Behr, Siegfried. Combined hair band and sunglasses. 185,059, 5-5-59, Cl. D57-1.
- Behr, Siegfried. Combined hair band and sunglasses. 185,341, 6-2-59, Cl. D57-1.
- Beiersdorf, P., & Co., A.G.: *See*—
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- Beinert, John D., to Melnor Industries, Inc. Hose nozzle. 185,186, 5-19-59, Cl. D91-1.
- Beinert, John D., to Melnor Industries, Inc. Hose nozzle. 185,187, 5-19-59, Cl. D91-1.
- Belau, Kenneth E., to Spincraft, Inc. Electric light fixture. 186,400, 10-20-59, Cl. D48-23.
- Belicka, Michael E., A. P. Cawl, L. V. A. Guild, and R. C. Lampe, to Electrolux Corp. Cord reel for a vacuum cleaner or similar article. 186,873, 12-22-59, Cl. D9-2.
- Bell Aircraft Corp.: *See*—
- Kux, Frank. 186,962.
- Bell, Alfred J., C. W. Besserer, and E. A. Bonney, to the United States of America, as represented by the Secretary of the Navy. Guided missile. 184,208, 1-6-59, Cl. D71-1.
- Bell, Alfred J., C. W. Besserer, and E. A. Bonney, to the United States of America, as represented by the Secretary of the Navy. Ram-jet missile. 184,209, 1-6-59, Cl. D71-1.
- Bell & Howell Co.: *See*—
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- Smith, Robert L. 184,541.
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- Smith, Robert L., and Macomber. 185,469.
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- Dreyfuss, Henry, Hose, and Burlin. 184,307.
- Dreyfuss, Henry, and Pford. 185,799.
- Bellg, Albert J. Garment hanger. 186,253, 9-29-59, Cl. D80-8.
- Belvedere Products Inc.: *See*—
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- Benjamin, E Burton, to General Telephone Laboratories, Inc. Wall mounting for telephone handset. 185,259, 5-26-59, Cl. D26-14.
- Benjamin, E Burton, to W. D. Allen Mfg. Co. Lawn sprinkler. 186,011, 8-25-59, Cl. D91-1.
- Benjamin, E Burton, to W. D. Allen Mfg. Co. Hose nozzle. 186,645, 11-10-59, Cl. D91-1.
- Benjamin, Warren O., to Corning Glass Works. Overhead lighting ware lens. 184,657, 3-24-59, Cl. D48-16.
- Benjamin, Warren O., to Corning Glass Works. Overhead lighting ware lens. 186,185, 9-22-59, Cl. D48-16.
- Bennett-Ireland, Inc.: *See*—
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- Bensen Aircraft Corp.: *See*—
- Bensen, Igor B. 186,743.
- Bensen, Igor B., to Bensen Aircraft Corp. Glider. 186,743, 11-24-59, Cl. D71-1.
- Bentsen, Arthur R., to General Electric Co. Wall plate for electrical switches and outlets or similar article. 185,409, 6-9-59, Cl. D26-13.
- Bentsen, Arthur R., to General Electric Co. Feed-through switch. 186,074, 9-8-59, Cl. D26-13.
- Berchak, Jack. Cigarette lighter. 184,795, 4-7-59, Cl. D48-27.
- Berg, Burton C., to The Mead Corp. Safety paper or similar article. 185,622, 7-7-59, Cl. D59-6.
- Berg, Burton C., to The Mead Corp. Safety paper or similar article. 185,623, 7-7-59, Cl. D59-6.
- Berg, Max W.: *See*—
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- Berger, Arthur M. Dress. 184,975, 4-28-59, Cl. D3-26.
- Berger, Howard R., to Transvox Corp. Portable acoustical horn. 184,658, 3-24-59, Cl. D26-14.
- Berger, Irene. Baggage shelf or the like. 185,060, 5-5-59, Cl. D33-3.
- Berger, Jacob: *See*—
- Gottfried, Louis, and Berger. 186,164.
- Bergeron, Victor J. Drink stirrer. 184,333, 2-3-59, Cl. D44-1.
- Bergeron, Victor J. Cocktail pick. 184,335, 2-3-59, Cl. D44-29.
- Bergeron, Victor J. Plate. 185,873, 8-11-59, Cl. D44-15.
- Berman, Morton R. Palette-like receptacle. 184,597, 3-17-59, Cl. D74-1.
- Bernabo, Joseph. Coaster for milk cartons or the like. 184,210, 1-6-59, Cl. D44-10.
- Bernard, George R., to Lazy Boy Lawn Mower Co., Inc. Sully. 184,704, 3-31-59, Cl. D14-3.
- Bernhardt, Rudolph, to Federal Tool Corp. Combination basin for washing and rinsing dishes. 185,899, 8-18-59, Cl. D4-2.
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- Beseler, Charles, Co.: *See*—
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- Besler, William J. Power-blower unit for sprayers. 186,816, 12-8-59, Cl. D31-3.
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- Best, Leon H. 185,342.
- Best, Leon H. 185,528.
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- Best, Leon H., to John H. Best & Sons, Inc. Rug display stand. 185,528, 6-23-59, Cl. D80-9.
- Beverlin, Robert S., to Globe-Wernicke Industries, Inc. Waste basket. 186,194, 9-22-59, Cl. D58-4.
- Beverly Vogue Co.: *See*—
- Darcey, Joy S. 185,853.
- Beyer, Louis E., to Master Photo Equipment Co. Portable support for a camera and light bar or similar article. 185,260, 5-26-59, Cl. D61-1.
- Beyerstedt, Ralph L., to The Frank G. Hough Co. Tractor loader. 184,598, 3-17-59, Cl. D14-3.
- Bianchini, Louis P., to Commonwealth Shoe & Leather Co. Shoe or the like. 186,155, 9-22-59, Cl. D7-7.
- Bieger, Walter I., to The Parker Pen Co. Desk base for a writing instrument. 185,933, 8-18-59, Cl. D74-1.
- Bienen, Mitchell R. Handbag or similar article. 185,343, 6-2-59, Cl. D87-3.
- Bingham, George H., Jr., and C. E. Phillips, to Cambridge Rubber Co. Sole. 185,116, 5-12-59, Cl. D7-5.
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- Blackburn, Luther A. Flashlight-illuminable slide projector. 186,729, 11-24-59, Cl. D61-1.
- Blackinton, V. H., & Co., Inc.: *See*—
- Lyons, Walter F. 185,092.
- Blalack, Orville A. Shoeshine stand. 186,580, 11-10-59, Cl. D9-2.
- Blickman, Bruce B., to S. Blickman, Inc. Powered food cart. 186,657, 11-17-59, Cl. D14-3.
- Blickman, Newton A., to S. Blickman, Inc. Milk reconstituting unit. 186,377, 10-20-59, Cl. D23-1.
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- Bliss, Charles O. Dust pan or similar article. 184,504, 3-3-59, Cl. D44-18.
- Bliss, Charles O. Laundry basket or similar article. 184,796, 4-7-59, Cl. D58-4.
- Bliss, Charles O. Combined bowl and cover therefor or similar article. 184,907, 4-21-59, Cl. D44-15.
- Bliss, Charles O. Combined sink divider mat and soap holder. 185,118, 5-12-59, Cl. D9-6.
- Bliss, Charles O. Sink mat or similar article. 186,708, 11-24-59, Cl. D9-6.
- Bliss, George, Jr. Scarf. 184,908, 4-21-59, Cl. D3-16.
- Bloch, Jack, to Foster Grant Co., Inc. Flexible sunglass frame or the like. 184,554, 3-10-59, Cl. D57-1.
- Bloch, Jack, to Foster Grant Co., Inc. Flexible sunglass frame or the like. 184,555, 3-10-59, Cl. D57-1.
- Bloch, Jack, to Foster Grant Co., Inc. Sunglass frame front or the like. 184,705, 3-31-59, Cl. D57-1.
- Bloch, Jack, to Foster Grant Co., Inc. Drinking tumbler or the like. 184,976, 4-28-59, Cl. D36-8.
- Bloch, Jack, to Foster Grant Co., Inc. Pitcher. 185,810, 8-4-59, Cl. D44-21.
- Block, Edwin B. Marine distress signalling unit. 185,188, 5-19-59, Cl. D72-1.



- Blount, Beverly M., and L. J. Grills, to Washington Technological Associates, Inc. Hair dryer. 184,706, 3-31-59, Cl. D34-10.
- Blowers, Inc.: *See*—  
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- Blum, Louis. Combined stairway post and bracket. 184,659, 3-24-59, Cl. D13-7.
- Blum, Louis. Combined stairway railing, posts and brackets. 184,848, 4-14-59, Cl. D13-7.
- Blum, Louis. Combined gate post and gate. 186,275, 10-6-59, Cl. D28-1.
- Blumberg, Norman. Can punch. 185,695, 7-21-59, Cl. D44-29.
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- Blumenshine, Raymond B. Candle holder for cakes and the like. 186,545, 11-3-59, Cl. D48-2.
- Blumenthal Print Works, Inc.: *See*—  
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- Blumenthal, Sidney E., to Blumenthal Print Works, Inc. Textile fabric. 185,624, 7-7-59, Cl. D92-1.
- Boblett, Preston P., to Pan-M-Bob Mfg. Corp. Tray for drill press or the like. 185,486, 6-16-59, Cl. D55-1.
- Bobley, Joseph A. Bracelet. 184,505, 3-3-59, Cl. D45-4.
- Bodian, Marcus, and W. B. Rosenfield, to Sunbeam Lighting Co. Fluorescent light fixture. 185,410, 6-9-59, Cl. D48-23.
- Boepple, Hans. Sweater. 184,336, 2-3-59, Cl. D3-4.
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- Boldt, Melvin H., to National Presto Industries, Inc. Pressure cooker. 184,909, 4-21-59, Cl. D44-1.
- Boldt, Melvin H., to Zenith Radio Corp. Radio control panel. 185,731, 7-28-59, Cl. D26-14.
- Boldt, Melvin H., to Zenith Radio Corp. Combined clock and radio. 185,732, 7-28-59, Cl. D56-4.
- Boldt, Melvin H., to Zenith Radio Corp. Combined escutcheon and face plate for a television receiver cabinet. 185,986, 8-25-59, Cl. D56-4.
- Boldt, Melvin H., to Zenith Radio Corp. Combined radio front panel and escutcheon. 186,689, 11-17-59, Cl. D56-4.
- Boldt, Melvin H., to Zenith Radio Corp. Portable radio cabinet. 186,690, 11-17-59, Cl. D56-4.
- Boldt, Melvin H., to Zenith Radio Corp. Portable radio cabinet. 186,691, 11-17-59, Cl. D56-4.
- Boldt, Melvin H., to Zenith Radio Corp. Remote control transmitter. 186,815, 12-8-59, Cl. D26-14.
- Bolen, Waldo E., Jr., and L. A. Roehlke. Vending machine. 186,466, 10-27-59, Cl. D52-3.
- Bonanno, Joseph L., to The Lionel Corp. Combined adjustable circuit breaker and warning light. 184,417, 2-17-59, Cl. D26-13.
- Bonanno, Joseph L., to The Lionel Corp. Toy train transformer. 186,510, 11-3-59, Cl. D26-15.
- Bonney, Everard A.: *See*—  
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- Bono, Luigi, to Necchi Società per Azioni. Sewing machine. 184,556, 3-10-59, Cl. D70-1.
- Bono, Luigi, to Necchi Società per Azioni. Sewing machine. 185,657, 1-14-59, Cl. D70-1.
- Boohar, Leo Y. Rocket head. 186,798, 12-1-59, Cl. D71-1.
- Borenstein, Jake, to Jaybee Mfg. Corp. Door pull or similar article. 184,506, 3-3-59, Cl. D50-6.
- Borg-Warner Corp.: *See*—  
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- Borin, Harlan F. Plant identification marker. 186,779, 12-1-59, Cl. D35-1.
- Borkin, George, to Bulova Watch Co., Inc. Christmas gift box. 185,261, 5-26-59, Cl. D58-11.
- Borkoski, Leon P., J. T. Ferraris, L. V. A. Guild, and J. J. Moughly, to Electrolux Corp. Head for an electric floor polisher or similar article. 184,910, 4-21-59, Cl. D9-2.
- Borowitz, David, to Bradley Mfg. Co. Electric lamp. 185,591, 6-30-59, Cl. D48-20.
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- Bourke, Robert E., to Mack Trucks, Inc. Bus. 184,388, 2-10-59, Cl. D14-4.4.
- Bowden, Benjamin G. Gasoline pump. 184,250, 1-13-59, Cl. D52-2.
- Bowden, Benjamin G., to John Wood Co. Gasoline pump. 184,557, 3-10-59, Cl. D52-2.
- Bowden, Benjamin G., to John Wood Co. Gasoline pump service station unit. 186,824, 12-8-59, Cl. D52-2.
- Bowden, Benjamin G., to John Wood Co. Gasoline pump service station unit. 186,825, 12-8-59, Cl. D52-2.
- Bowden, Stanley, to Rogers Inc. Decorative panel for cigarette lighters or the like. 186,720, 11-24-59, Cl. D48-27.
- Bowers, Paul L. Amusement ride. 186,524, 11-3-59, Cl. D34-5.
- Bowes, Robert M.: *See*—  
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- Bowlby, James F. G. Coffee percolator. 184,507, 3-3-59, Cl. D44-26.
- Bowman, Philip I. Gun. Re. 24,635, 4-21-59, Cl. D30-1.
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- Boye Needle Co., The: *See*—  
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- Boyer, William P., and A. A. Lipsitz, to Ventrola Mfg. Co. Grille for ventilating fan. 185,487, 6-16-59, Cl. D26-7.
- Boys, Arthur H., to Ottavia Inc. Key holder. 186,941, 12-29-59, Cl. D17-14.
- Boys, Arthur H., to Ottavia Inc. Key holder. 186,942, 12-29-59, Cl. D17-14.
- Bradd, Sidney H., Jr., E. R. Brandt, and R. H. Ensign, to Polaroid Corp. Photographic flash lamp or similar article. 184,849, 4-14-59, Cl. D61-1.
- Bradd, Sidney H., Jr., and A. G. Jackson, to Scripto, Inc. Desk set. 185,119, 5-12-59, Cl. D74-1.
- Bradd, Sidney H., Jr., and A. G. Jackson, to Scripto, Inc. Desk set. 185,120, 5-12-59, Cl. D74-1.
- Bradford Novelty Co., Inc.: *See*—  
Burnbaum, Jack. 184,251.  
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- Bradley Mfg. Co.: *See*—  
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- Bradley Washfountain Co.: *See*—  
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- Brandimarte, Alfred P., and J. E. Herweg, to A. R. A. Mfg. Co. Exerciser. 185,658, 7-14-59, Cl. D83-1.
- Brandon, Thomas O., to A. G. Spalding & Bros., Inc. Putter. 186,123, 9-15-59, Cl. D34-5.
- Brandt, Edison R.: *See*—  
Bradd, Sidney H., Jr., Brandt, and Ensign. 184,849.
- Brandt, William E., to Lord Chemical Corp. Machine for precision finishing of parts by controlled vibration. 184,798, 4-7-59, Cl. D55-1.
- Braun, Jacob G. Treillage. 184,707, 3-31-59, Cl. D54-2.
- Braun, Jacob G. Treillage. 185,121, 5-12-59, Cl. D54-2.
- Braun, Jacob G. Treillage. 185,122, 5-12-59, Cl. D54-2.
- Braun, Jacob G. Treillage. 185,123, 5-12-59, Cl. D54-2.
- Braun, Jacob G. Treillage. 185,124, 5-12-59, Cl. D54-2.
- Braun, Jacob G. Treillage. 185,125, 5-12-59, Cl. D54-2.
- Braun, Samuel. Composite display and packaging box for watches or the like. 185,825, 8-4-59, Cl. D80-5.
- Braunsberg, Heinz. Egg vending machine. 184,389, 2-10-59, Cl. D52-3.
- Braunschweig, Georges: *See*—  
Marti, Frederic, and Braunschweig. 186,530.
- Breakfast Club Coffee, Inc.: *See*—  
Ashdown, Robert F. 186,260.
- Breckenridge, Frank, and T. D. Tweedie, to O'Keefe & Merritt Co. Combined guard rail and control panel for a cooking range, or the like. 185,940, 8-18-59, Cl. D81-25.
- Breckenridge, Frank, and T. D. Tweedie, to O'Keefe & Merritt Co. Combined guard rail and control panel for a cook stove. 186,061, 9-1-59, Cl. D81-25.
- Breckenridge, Frank, and T. D. Tweedie, to O'Keefe & Merritt Co. Combined top guard rail and control panel for a cooking range, or the like. 186,062, 9-1-59, Cl. D81-25.
- Breeze Industries, Inc.: *See*—  
Van Tubergen, Richard F., and Mueller. 186,785.
- Breeze Corporations Inc.: *See*—  
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- Brehaut, Wilfred H., Jr.: *See*—  
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- Brennan, Frederick S. Bow fitting for motor boat. 184,911, 4-21-59, Cl. D71-1.
- Brennan, Frederick S. Stern fitting for motor boat. 184,977, 4-28-59, Cl. D71-1.
- Brennan, Frederick S., to Rockwell Mfg. Co. Band saw. 185,061, 5-5-59, Cl. D93-3.
- Brennan, Frederick S., to Rockwell Mfg. Co. Wood lathe. 185,922, 8-18-59, Cl. D54-6.
- Brenner, Howard T., to Samuel Kirk & Son, Inc. Alphabet for forming monograms and the like. 185,126, 5-12-59, Cl. D64-17.
- Bridgett, Chas. D., Inc.: *See*—  
Harper, Irving. 185,362.
- Bridgeport Brass Co.: *See*—  
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- Bright, Thomas J. R. Clip for securing draft excluding or sealing strips. 185,411, 6-9-59, Cl. D54-11.
- Brioschi, Amerigo J.: *See*—  
Barthelemy, Roland A., and Brioschi. 185,113.
- Briskin, Theodore S., and S. L. Pastor, to Revere Camera Co. Combined magnetic tape recorder and reproducer. 185,262, 5-26-59, Cl. D26-14.



- Briskin, Theodore S., J. E. Davis, and R. L. Moore, to Revere Camera Co. Motion picture camera. 186,830, 12-8-59, Cl. D61—1.
- Britton, Edwin R., and N. H. McKernan. Combined table and aquarium. 184,978, 4-28-59, Cl. D33—14.
- Bromo Mint Co.: *See—*  
Kuhn, James O. 184,570.
- Brooks, Albert N. Dresser caddy. 185,800, 8-4-59, Cl. D29—23.
- Brooks, Ralph E. Portable grill. 186,487, 10-27-59, Cl. D81—10.
- Broun, Morrison J., to Otis Elevator Co. Elevator landing button fixture. 186,890, 12-22-59, Cl. D26—13.
- Brouwer, Rodger D. Two faced golf club head. 184,979, 4-28-59, Cl. D34—5.
- Brown, Adolph M. Combined ear piercing and earring structure. 184,980, 4-28-59, Cl. D45—9.
- Brown & Bigelow: *See—*  
Monson, Wallace A. 186,595.  
Passolt, Robert A. 185,774.  
Reichow, James R. 185,313.  
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Schwartz, John J. 186,088.  
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Wistrand, John C. 184,468.
- Brown, Charles G., and J. C. Buckwalter, to Douglas Aircraft Co., Inc. Airplane. 186,087, 9-8-59, Cl. D71—1.
- Brown, Frank E., to Unette Corp. Collapsible tube-like container. 184,558, 3-10-59, Cl. D58—23.
- Brown, Smith H., to Curtiss-Wright Corp. Warning signal light unit. 186,919, 12-22-59, Cl. D72—1.
- Brown, Walter. Combination tray and container for automobiles. 186,368, 10-20-59, Cl. D14—6.
- Browner, William J. Bobbin for miniaturized radio cords. 185,412, 6-9-59, Cl. D3—20.
- Browner, William J. Housing for miniaturized radio. 185,413, 6-9-59, Cl. D26—14.
- Brownlie, William M., to Chrysler Corp. Combined bumper, grille and lamp unit for an automobile. 184,471, 2-24-59, Cl. D14—18.
- Browlie, William M., to Chrysler Corp. Combined bumper and lamp unit for an automobile. 186,875, 12-22-59, Cl. D14—6.
- Brownstein, Henry J., to Hysan Products Co. Hand mop. 184,418, 2-17-59, Cl. D9—2.
- Brownstein, Henry J., to Hysan Products Co. Combined hand mop and drip tray. 184,419, 2-17-59, Cl. D9—2.
- Bruce, John, to Waterman Pen Co., Inc. Clip for a writing instrument. 185,263, 5-26-59, Cl. D74—1.
- Bruce, Leo L., Jr., to General Time Corp. Wrist watch display case. 186,802, 12-1-59, Cl. D80—5.
- Bruening, Joseph M. Combination storage and display container for retaining rings or the like. 186,560, 11-3-59, Cl. D80—5.
- Bruening, Joseph M., and R. C. Vanlew, 1/2 to E. F. Houghton & Co., and 1/2 to Bearings, Inc. Box for storing and displaying gasket rings or the like. 185,937, 8-18-59, Cl. D80—5.
- Brunhoff Mfg. Co., The: *See—*  
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- Bruning, Charles, Co., Inc.: *See—*  
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- Brunswick-Balke-Collender Co., The: *See—*  
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Anderson, Robert L., and Chapman. 186,520.  
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Anderson, Robert L., Reineman, and Schaefer. 184,329.  
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- Brunten, Hans W. Soft drink dispenser. 185,833, 8-11-59, Cl. D2—3.
- Brush, Birchard M., to I. I. Monaghan Co., Inc. Anesthesia respirator. 186,295, 10-6-59, Cl. D83—1.
- Bryce Brothers Co.: *See—*  
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- Buckwalter, John C.: *See—*  
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- Bulman Corp., The: *See—*  
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- Bulova Watch Co., Inc.: *See—*  
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- Bunday, Glenn W., to Ceratite Corp. Tile unit. 184,337, 2-3-59, Cl. D18—2.
- Bunn, William E. L., to W. A. Sheaffer Pen Co. Desk base for writing instruments. 186,701, 11-17-59, Cl. D74—1.
- Bunn, William E. L., to W. A. Sheaffer Pen Co. Desk base for a writing instrument. 186,702, 11-17-59, Cl. D74—1.
- Burek, Michael, and L. E. Zagrodny. Refuse receptacle or similar article. 185,488, 6-16-59, Cl. D58—17.
- Burford, Lyle V., to Royal Pacific Co., Inc. Spoon. 186,126, 9-15-59, Cl. D44—29.
- Burg, Klaus, A. G. Drummond, and W. D. Teague, to The F. & M. Schaefer Brewing Co. Sheet metal for metal containers or the like. 184,599, 3-17-59, Cl. D54—2.
- Burgess Vibrocrafters, Inc.: *See—*  
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- Burke, Horace M. Ventilator for vehicles. 184,708, 3-31-59, Cl. D14—6.
- Burlin, James N.: *See—*  
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- Burnbaum, Jack, to Bradford Novelty Co., Inc. Christmas ornament, or similar article. 184,251, 1-13-59, Cl. D29—1.
- Burnbaum, Jack, to Bradford Novelty Co., Inc. Christmas ornament, or similar article. 184,850, 4-14-59, Cl. D29—1.
- Burnbaum, Jack, to Bradford Novelty Co., Inc. Christmas ornament, or similar article. 184,981, 4-28-59, Cl. D29—1.
- Burnbaum, Jack, to Bradford Novelty Co., Inc. Christmas tree ornament, or similar article. 185,127, 5-12-59, Cl. D29—1.
- Burnbaum, Jack. Hanging ornament or similar article. 185,906, 8-18-59, Cl. D29—1.
- Burnbaum, Jack. Christmas ornament, or similar article. 186,023, 9-1-59, Cl. D29—1.
- Burnbaum, Jack. Christmas tree ornament or similar article. 186,443, 10-27-59, Cl. D29—1.
- Burnham, Harold F., to Personal Products Corp. Buckle. 185,345, 6-2-59, Cl. D17—1.
- Burroughs Mfg. Corp.: *See—*  
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- Burt, Charles M. Hanger for tools and the like. 184,508, 3-3-59, Cl. D80—8.
- Burton, Edward F., to Douglas Aircraft Co., Inc. Airplane. 186,199, 9-22-59, Cl. D71—1.
- Burton, Edward F., to Douglas Aircraft Co., Inc. Airplane. 186,418, 10-20-59, Cl. D71—1.
- Burton, Robert O. Combined street lighting standard and fixture or similar article. 186,547, 11-3-59, Cl. D48—31.
- Burwood Products Co.: *See—*  
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- Busch, Robert F.: *See—*  
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- Bushnell, David P.: *See—*  
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- Butts, Willis E., Sr. Television antenna. 186,228, 9-29-59, Cl. D26—14.
- Byers, Whitman, Jr. Mat. 186,585, 11-10-59, Cl. D9—6.
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- C & P Phonoproductions, Inc.: *See—*  
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- Cabell, Douglas N., to Chrysler Corp. Automobile tail lamp. 184,509, 3-3-59, Cl. D48—32.
- Cacpal, Earle R. Fish lure. 185,062, 5-5-59, Cl. D31—4.
- Cagan, Bernard J., and A. E. Zirol, to Eldon Mfg. Co. Sand plane. 185,733, 7-28-59, Cl. D34—15.
- Cahan, Alvin M. Fireplace tongs. 185,128, 5-12-59, Cl. D81—24.
- Cahn, Bernard, Co., Inc.: *See—*  
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- Cahn, Miles, to Gail Mfg. Co. Sandal slipper or similar article. 185,129, 5-12-59, Cl. D7—7.
- Cain, Robert M.: *See—*  
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- Cal-Dak Co., The: *See—*  
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- Caldora, Armand. Curl clip. 185,529, 6-23-59, Cl. D86—10.
- Caldwell, Edward B. Automobile radio antenna ornament. 186,387, 10-20-59, Cl. D14—6.
- Cambridge Rubber Co.: *See—*  
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- Camilli, John B. Desk tray. 185,130, 5-12-59, Cl. D74—1.
- Caminker, Bernard: *See—*  
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- Camp, Fred M. Toothbrush holder. 184,709, 3-31-59, Cl. D4—3.
- Campana, Alfred A. Candleholder. 185,812, 8-4-59, Cl. D48—2.
- Campbell, James K., to Food Machinery and Chemical Corp. Irrigation pipe coupling. 185,659, 7-14-59, Cl. D91—3.
- Capitol Projector Corp.: *See—*  
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- Cardinal Products Co., Inc.: *See—*  
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- Carlin, Louis H. Slipper or similar article. 186,427, 10-27-59, Cl. D7—7.
- Carlisle, Lawrence G. Combined drawer handle and card holder or similar article. 184,420, 2-17-59, Cl. D10—8.
- Carlson, Albert M. Stake fence. 184,982, 4-28-59, Cl. D28—1.
- Carlson, Bruce L. Desk or similar article. 186,321, 10-13-59, Cl. D33—11.
- Carlson, Bruce L. Combined desk and chair. 186,322, 10-13-59, Cl. D33—11.
- Carlson, Ernest R., to Harvey Hubbell, Inc. Remote control press switch. 185,530, 6-23-59, Cl. D26—13.
- Carlson, Ernest R., to Harvey Hubbell, Inc. Weatherproof wall plate for a press switch or similar article. 185,531, 6-23-59, Cl. D26—13.



- Carlson, Lynn P. Jug support or the like. 184,600, 3-17-59, Cl. D38-26.
- Carlson, Roland W., and C. E. Lemmermann, to Picker X-Ray Corp., Waite Mfg. Div., Inc. Scintillation scanning apparatus. 186,960, 12-29-59, Cl. D61-1.
- Carnell, Harrison C. Barber shop sign. 184,710, 3-31-59, Cl. D1-12.
- Carotenuto, Charles, Jr.: *See*—
- Bedack, Joseph, and Carotenuto. 186,372.
- Bedack, Joseph, and Carotenuto. 186,373.
- Bedack, Joseph, and Carotenuto. 186,374.
- Carpenter, L. E., & Co., Inc.: *See*—
- Scheiding, Arno H. 184,266.
- Scheiding, Arno H. 184,493.
- Sylvester, Arthur D., and Scheiding. 185,245.
- Sylvester, Arthur D., and Scheiding. 185,723.
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- Carpenter, Mark. Educational tool toy. 184,912, 4-21-59, Cl. D34-15.
- Carpenter, William J. Table lamp or similar article. 185,917, 8-18-59, Cl. D48-20.
- Carpenter, William P., to The Superior Electric Co. Electrical induction unit. 186,511, 11-3-59, Cl. D26-15.
- Carr, John W. X-ray processing tank. 184,421, 2-17-59, Cl. D61-1.
- Carrier Corp.: *See*—
- Federico, Joseph. 184,863.
- Carrigan, Richard M.: *See*—
- Mapes, Carl H., and Carrigan. 184,882.
- Carter, Roland, and J. P. Giacomini, to Thonett Industries, Inc. Combined headboard and chest unit. 184,711, 3-31-59, Cl. D5-4.
- Carter's Ink Company, The: *See*—
- Fleming, Jack F. 184,720.
- Cartier, Inc.: *See*—
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- Caruso, Anthony M., to The Seeburg Corp. Vending machine cabinet. 186,788, 12-1-59, Cl. D52-3.
- Carvel, Thomas. Top unit for vending motor vehicles. 184,983, 4-28-59, Cl. D14-27.
- Carvel, Thomas. Superstructure unit for vending motor vehicles. 185,131, 5-12-59, Cl. D14-27.
- Cassinelli, Francesco, to Messrs Fratelli Pagani. Antifog headlight for vehicles. 185,696, 7-21-59, Cl. D48-32.
- Cassini, Oleg. Dress. 184,211, 1-6-59, Cl. D3-26.
- Cassini, Oleg. Dress. 184,272, 1-20-59, Cl. D3-26.
- Cassini, Oleg. Dress. 184,301, 1-27-59, Cl. D3-26.
- Cassini, Oleg. Dress. 185,189, 5-19-59, Cl. D3-26.
- Castellano, Carmin A.: *See*—
- Dickman, Carl H., and Castellano. 185,990.
- Cataldo, John B., to I-T-E Circuit Breaker Co. Electrical duct fitting. 184,913, 4-21-59, Cl. D26-5.
- Cauldon Potteries Ltd.: *See*—
- Harrison, Thomas S. 185,147.
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- Cawl, Allen P.: *See*—
- Belicka, Michael E., Cawl, Guild, and Lampe. 186,873.
- Cayton, William D. Beanbag. 184,273, 1-20-59, Cl. D34-15.
- Cena, Albino, to Pietro Ferrero & C. Alba. Chocolate cake. 185,532, 6-23-59, Cl. D82-2.
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- Ceratile Corp.: *See*—
- Bunday, Glenn W. 184,337.
- Cerrito, John A. Jewelry finding. 184,660, 3-24-59, Cl. D45-1.
- Chadbourne, Gilbert R., to Keyes Fibre Co. Divided plate. 185,911, 8-18-59, Cl. D44-15.
- Chaikin, Herbert. Combined locket, compact and lipstick holder. 186,543, 11-3-59, Cl. D45-15.
- Chaille, Everett W. Power line support or the like. 186,768, 12-1-59, Cl. D26-9.
- Chakine, Alexander. Cap and stopper combination for hose or the like. 186,971, 12-29-59, Cl. D91-1.
- Chalmers, Robert S. Toy horse and wagon. 185,489, 6-16-59, Cl. D34-15.
- Chamberlain Aviation, Inc.: *See*—
- Hale, Jack W. 186,652.
- Chambers, Worthy L., to Sunbeam Corp. Hair dryer cap or the like. 184,601, 3-17-59, Cl. D3-13.
- Chamness, Abe. Portable stool. 184,602, 3-17-59, Cl. D15-8.
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- Cooper, William M. 184,800.
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- Chapman, Ceil. Dress or the like. 186,571, 11-10-59, Cl. D3-26.
- Chapman, Ceil. Dress or the like. 186,572, 11-10-59, Cl. D3-26.
- Chapman, Ceil. Dress or the like. 186,573, 11-10-59, Cl. D3-26.
- Chapman, Ceil. Dress or the like. 186,574, 11-10-59, Cl. D3-26.
- Chapman, Ceil. Dress or the like. 186,575, 11-10-59, Cl. D3-26.
- Chapman, Ceil. Dress or the like. 186,576, 11-10-59, Cl. D3-26.
- Chapman, Ceil. Dress or similar article. 186,869, 12-22-59, Cl. D3-26.
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- Anderson, Robert I., and Chapman. 186,520.
- Chapman, David, to The Brunswick-Balke-Collender Co. Desk or the like. 186,384, 10-20-59, Cl. D33-11.
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- Anderson, Douglas W., Chapman, and Rudolph. 185,255.
- Chapman, Frederick D., to Scovill Mfg. Co. Lawn sprinkler head. 184,510, 3-3-59, Cl. D91-1.
- Chapman, Frederick D., to Scovill Mfg. Co. Lawn sprinkler head. 184,511, 3-3-59, Cl. D91-1.
- Chapman, Frederick D., to Scovill Mfg. Co. Lawn sprinkler base. 184,661, 3-24-59, Cl. D91-1.
- Chapman, Frederick D., to Scovill Mfg. Co. Lawn sprinkler base. 184,662, 3-24-59, Cl. D91-1.
- Chapman, Frederick D., to Scovill Mfg. Co. Hose coupling. 184,984, 4-28-59, Cl. D91-3.
- Chapman, Frederick D., and K. Yamasaki, to Hussmann Refrigerator Co. Checkout counter. 184,851, 4-14-59, Cl. D80-2.
- Chappaz, Gaston, and J. Boës. Vaginal medicator. 185,734, 7-28-59, Cl. D83-1.
- Charles, Ellis E., and W. B. Connell, to W. E. Anderson, Inc. Mobile rack for gas containers. 186,931, 12-22-59, Cl. D83-1.
- Chase, Herbert S., to Bernard Cahn Co., Inc. Billfold. 184,712, 3-31-59, Cl. D87-3.
- Chase, Herbert S., to Bernard Cahn Co., Inc. Wallet. 184,713, 3-31-59, Cl. D87-3.
- Chase, Herbert S., to Bernard Cahn Co., Inc. Photographic and address wallet. 185,346, 6-2-59, Cl. D87-3.
- Chase, Herbert S., to Bernard Cahn Co., Inc. Compartmented jacket for books or the like. 186,101, 9-15-59, Cl. D6-2.
- Chase, Herbert S., to Bernard Cahn Co., Inc. Portable receptacle for phonograph records. 186,258, 9-29-59, Cl. D87-3.
- Chase, Herbert S., to Bernard Cahn Co., Inc. Automobile visor attachment for toys or the like. 186,504, 11-3-59, Cl. D14-6.
- Chasques, Albert: *See*—
- Czaczkas, Albert. 184,305.
- Chastain, Philip J., to Gilbert-Philip Products, Inc. Nasal aspirator. 184,914, 4-21-59, Cl. D83-1.
- Chedister, Conkling, to American Design & Development Co. Visual recorder. 186,476, 10-27-59, Cl. D64-11.
- Cheifetz, William: *See*—
- Schwartz, Joseph G., and Cheifetz. 186,482.
- Cherry-Burrell Corp.: *See*—
- Walsh, John C., and Arganbright. 184,325.
- Cherry, Peter W., and A. W. Wakeman, to The A. C. Gilbert Co. Kitchen power unit or similar article. 184,915, 4-21-59, Cl. D26-5.
- Cherry, Peter W., and A. W. Wakeman; said Wakeman assor. to said Cherry. Hair dryer. 184,985, 4-28-59, Cl. D86-10.
- Chervenka, George R., to Champagne Co. Caddy cart. 186,161, 9-22-59, Cl. D14-3.
- Cheshire, Frank E., to International Steel Co. Freight car. 184,338, 2-3-59, Cl. D66-1.
- Chiandussi, Elti, and H. L. Miller. Combined floodlight bracket and outlet box. 185,857, 8-11-59, Cl. D26-5.
- Chiariello, Joseph L. Combined hair curler and comb. 186,643, 11-10-59, Cl. D86-10.
- Chicago Dynamics Industries, Inc.: *See*—
- Koci, Jerry C. 185,502.
- Chicago Hardware Foundry Co., The: *See*—
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- Children's Dental Foundation: *See*—
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- Christelman, Edna. Maternity dress. 184,339, 2-3-59, Cl. D3-26.
- Christensen, Carl B., to Ready Tool Co. Box for a machine tool center. 184,916, 4-21-59, Cl. D58-13.
- Christensen, John R., to Christy Vault Co. Burial vault. 184,663, 3-24-59, Cl. D19-1.
- Christenson, Trace, and W. W. Good, to Harter Corp. Chair. 185,849, 8-11-59, Cl. D15-1.
- Christenson, Trace, and W. W. Good, to Harter Corp. Chair. 185,850, 8-11-59, Cl. D15-1.
- Christenson, Trace, and W. W. Good, to Harter Corp. Chair. 185,851, 8-11-59, Cl. D15-1.
- Christenson, Trace, and W. W. Good, to Harter Corp. Chair. 186,270, 10-6-59, Cl. D15-1.
- Christenson, Trace, Jr., to C. J. Major-J. F. Thornburg Enterprises. Computing device. 184,212, 1-6-59, Cl. D52-1.
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- Church, Warren C., to The Lane Co., Inc. Headboard for a bed. 186,100, 9-15-59, Cl. D5-4.
- Church, Warren C., to The Lane Co., Inc. Chest or the like. 186,112, 9-15-59, Cl. D33-6.
- Church, Warren C., to The Lane Co., Inc. Dresser or the like. 186,113, 9-15-59, Cl. D33-6.
- Church, Warren C., to The Lane Co., Inc. Mirror. 186,114, 9-15-59, Cl. D33-9.
- Church, Warren C., to The Lane Co., Inc. Buffet or the like. 186,115, 9-15-59, Cl. D33-13.
- Church, Warren C., to The Lane Co., Inc. Cabinet or the like. 186,116, 9-15-59, Cl. D33-19.
- Church, Warren C., to The Lane Co., Inc. Cabinet or the like. 186,117, 9-15-59, Cl. D33-19.
- Church, Warren C., to The Lane Co., Inc. Cabinet or the like. 186,118, 9-15-59, Cl. D33-19.
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- Clanton, Raymond W. Wall block. 185,592, 6-30-59, Cl. D18-2.
- Clark, Alexander. Wind-driven rotary bubble blower. 185,805, 8-4-59, Cl. D34-15.
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- Clark, Joseph C. Fishing reel. 186,515, 11-3-59, Cl. D31-4.
- Clark, Lancaster P., Jr., to Clark Metal Products, Inc. Creamer. 185,063, 5-5-59, Cl. D44-21.
- Clark, Lancaster P., Jr., to Clark Metal Products, Inc. Covered sugar bowl. 185,064, 5-5-59, Cl. D44-15.
- Clark, Lancaster P., Jr., to Clark Metal Products, Inc. Platter. 185,065, 5-5-59, Cl. D44-15.
- Clark, Lancaster P., Jr., to Clark Metal Products, Inc. Vegetable dish. 185,066, 5-5-59, Cl. D44-15.
- Clark, Lancaster P., Jr., to Clark Metal Products, Inc. Divided vegetable dish. 185,067, 5-5-59, Cl. D44-15.
- Clark Metal Products, Inc.: *See—*  
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- Clark, Truman B., to The Tappan Co. Range. 185,533, 6-23-59, Cl. D81-4.
- Clark, William E. Hoop roller. 186,177, 9-22-59, Cl. D34-5.
- Clarke, Frank W. Religious flag. 184,340, 2-3-59, Cl. D29-17.
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- Clay, Eugene O. Car top container. 186,591, 11-10-59, Cl. D14-27.
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- Clayton, La Verne E., to Amerock Corp. Pull. 184,666, 3-24-59, Cl. D10-8.
- Clayton, La Verne E., to Amerock Corp. Escutcheon plate. 185,190, 5-19-59, Cl. D50-6.
- Clayton, La Verne E., to Amerock Corp. Knob. 186,053, 9-1-59, Cl. D50-3.
- Clayton, La Verne E., to Amerock Corp. Knob. 186,787, 12-1-59, Cl. D50-3.
- Clayton, Morris. Composite minnow trap and bait bucket or the like. 185,347, 6-2-59, Cl. D31-4.
- Clayton, Richard L. Hand puppet. 185,803, 8-4-59, Cl. D34-2.
- Clemens, Charles W. Molding for a table or similar article. 184,799, 4-7-59, Cl. D54-2.
- Clement, Richard T., to General Motors Corp. Air conditioner cabinet or similar article. 185,191, 5-19-59, Cl. D62-4.
- Clemons, Roger A., and F. F. Humbarger, to Union Carbide Corp. Compressed gas cylinder handle or similar article. 185,593, 6-30-59, Cl. D78-1.
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- Clive, Robert B., and B. Waber. Book. 185,068, 5-5-59, Cl. D6-2.
- Close, Egbert B., and J. A. Patenaude, to C & P Phonoproductions, Inc. Hand operated viewer or similar article. 186,916, 12-22-59, Cl. D61-1.
- Club Aluminum Products Co.: *See—*  
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- Cockerham, Indie S.,  $\frac{1}{2}$  to N. Bogatin and  $\frac{1}{2}$  to M. H. Embree. Game board. 184,714, 3-31-59, Cl. D34-5.
- Cogdell, Neldie S. Stringed musical instrument body. 186,688, 11-17-59, Cl. D56-1.
- Cohen, Hilda L. Hand puppet. 185,802, 8-4-59, Cl. D34-2.
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- Cohen, Maurice. Garment hanger for a display rack. 185,534, 6-23-59, Cl. D80-10.
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- Cohen, Morton R. Table. 186,776, 12-1-59, Cl. D33-14.
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- Cole, James D., to United Pressed Products Co. Electric vibrator. 185,192, 5-19-59, Cl. D55-1.
- Cole, James D. Paint pail. 186,195, 9-22-59, Cl. D58-17.
- Cole, Richard C., and J. A. Woodson. Boat. 186,480, 10-27-59, Cl. D71-1.
- Cole, William E., to Crafords Ltd. Combined containers and rack therefor. 185,625, 7-7-59, Cl. D44-1.
- Cole, William E., to Crafords Ltd. Canister or similar article. 185,736, 7-28-59, Cl. D44-6.
- Coleman, Howard,  $\frac{2}{100}$  to E. E. Hatton, and  $\frac{1}{100}$  to D. T. Dougherty. Airplane. 185,535, 6-23-59, Cl. D71-1.
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- Conroy, Edward J., to The International Silver Co. Spoon or similar article of flatware. 185,133, 5-12-59, Cl. D54-12.
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- Cook, Herbert A., Jr. Combined flag mast and light. 186,862, 12-15-59, Cl. D71-1.



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- Cooper, Benjamin. Face mask. 184,303, 1-27-59, Cl. D34-15.
- Cooper, Benjamin. Face mask. 184,560, 3-10-59, Cl. D34-15.
- Cooper, Donald E. Expanded metal sheet or the like. 186,288, 10-6-59, Cl. D54-2.
- Cooper, Donald E. Expanded metal sheet or the like. 186,289, 10-6-59, Cl. D54-2.
- Cooper, Donald E. Expanded metal sheet or the like. 186,467, 10-27-59, Cl. D54-2.
- Cooper, Julius. Radio. 184,604, 3-17-59, Cl. D56-4.
- Cooper, Malcolm E., to The Kiwi Polish Co. Proprietary Ltd. Portable shoe shine box. 184,605, 3-17-59, Cl. D9-2.
- Cooper, Orin N. Dirt tamper or the like. 184,987, 4-28-59, Cl. D55-1.
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- Cothern, Myron R., to The Texas Co. Combined advertising sign and standard. 185,594, 6-30-59, Cl. D1-12.
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- Cowan, Murray L., to Speidel Corp. Bracelet link or similar article. 186,782, 12-1-59, Cl. D45-4.
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- Davis, Thomas H., to Davis Products Corp. Hostelry hamper. 186,692, 11-17-59, Cl. D58-4.
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- Dawson, Collins T., to The W. E. Bassett Co. Combined tool case and key chain. 185,894, 8-11-59, Cl. D87-3.
- Day, Wilbur M.: *See*—  
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- Deak, George G., to S. Maximovich and R. A. Surplus. Combined television antenna and figurine. 184,607, 3-17-59, Cl. D29-23.
- Dean, Arthur F., and A. J. Panzica, to Stewart-Warner Corp. Stroboscopic lamp. 185,596, 6-30-59, Cl. D52-1.
- Dean, Arthur F., and A. J. Panzica, to Stewart-Warner Corp. Wheel unbalance detecting unit. 186,084, 9-8-59, Cl. D52-1.
- Dean, John D. Callous remover or the like. 186,752, 11-24-59, Cl. D86-10.
- De Angelis, Albert F.: *See*—  
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- De Angelis, Angelo C., and G. Stahl, to Standard Electronics Corp. Portable blender or similar article. 184,306, 1-27-59, Cl. D89-1.
- De Augustine, John. Food pack or similar article. 185,628, 7-7-59, Cl. D58-13.
- Deere & Co.: *See*—  
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- Deesen, Paul H., and R. Dustan, Jr., to General Motors Corp. Wheel cover. 185,847, 8-11-59, Cl. D14-30.
- De Fano, Dominic J., and R. I. Kallman, to J. Cohen. Sideburn gauge or similar article. 184,608, 3-17-59, Cl. D52-1.
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- De Gennaro, John E.: *See*—  
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- De Gennaro, Steve J., S. P., and J. E. Coach for pick-up trucks. 184,472, 2-24-59, Cl. D14-3.
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- De Grazia, Joseph, to United States of America, Army. Cap. 186,868, 12-22-59, Cl. D3-13.
- De Hart, Richard A., to Attwood Brass Works, Inc. Combined stern light and socket therefor. 184,988, 4-28-59, Cl. D48-20.
- De Jager, Bruce D. Television remote control handset. 185,741, 7-28-59, Cl. D26-14.
- De Jur Amsco Corp.: *See*—  
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- De Kolb, Eric, to Coty, Inc. Box for perfume bottles or similar articles. 184,276, 1-20-59, Cl. D58-13.
- De Laboud, Corina R. Box for a cake of soap. 184,473, 2-24-59, Cl. D58-12.
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- De Leon, Sharon, to United States Rubber Co. Embossed plastic sheet material. 186,093, 9-8-59, Cl. D87-3.
- Del Francia, Joel A. Broiler. 184,424, 2-17-59, Cl. D81-10.
- Del Francia, Joel A. Wall broiler or the like. 184,425, 2-17-59, Cl. D81-10.
- Della Valle, Hugo J. Candle lamp. 186,717, 11-24-59, Cl. D48-2.
- Delta Electric Co.: *See*—  
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- De Luxe Premium Corp.: *See*—  
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- Demaree, John E., and C. H. Lewis, II, to Borg-Warner Corp. Hook. 185,070, 5-5-59, Cl. D41-1.
- De Melle, Clarence E. Stand for potted plants. 185,137, 5-12-59, Cl. D35-3.
- Demler, Henry W., to AMP Inc. Crimping tool. 185,629, 7-7-59, Cl. D54-13.
- Denison, Nan D. Pencil clip. 184,253, 1-13-59, Cl. D74-1.
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- De Sakhnofsky, Alexis, to The Hadley Mfg. Co. Fluid pressure actuated horn unit. 186,965, 12-29-59, Cl. D72-1.
- Descarries, Raymond, to Aktiebolaget Electrolux. End cover for a suction cleaner. 184,277, 1-20-59, Cl. D9-2.
- Descarries, Raymond, to Aktiebolaget Electrolux. Latch plate for a suction cleaner. 184,278, 1-20-59, Cl. D9-2.
- Descarries, Raymond, to Aktiebolaget Electrolux. Shell for a suction cleaner. 185,697, 7-21-59, Cl. D9-2.
- Descarries, Raymond, to Aktiebolaget Electrolux. Combined handle and trim strip for suction cleaner. 185,698, 7-21-59, Cl. D9-2.
- Descarries, Raymond, to Aktiebolaget Electrolux. End cover for vacuum cleaner. 185,836, 8-11-59, Cl. D9-2.
- Descarries, Raymond, to Aktiebolaget Electrolux. End cover for tank-type suction cleaner. 185,837, 8-11-59, Cl. D9-2.
- Descarries, Raymond, to Aktiebolaget Electrolux. Stabilizing prop for an elongated tank-type suction cleaner. 186,015, 9-1-59, Cl. D9-2.



- Despres, Urban H., to Keyes Fibre Co. Packing tray. 184,213, 1-6-59, Cl. D58—13.
- Devonshire, William H., and E. R. Behnke, to Columbus McKinnon Chain Corp. Chain link. 185,537, 6-23-59, Cl. D54—3.
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- Diamond, Jack, to Helbros Watch Co., Inc. Watch. 186,180, 9-22-59, Cl. D42—8.
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- Dickinson, Ronald S., to Armstrong Patents Co., Ltd. Master unit for a master and slave hydraulic remote control system. 185,071, 5-5-59, Cl. D41—1.
- Dickinson, William, to Harvey Aluminum. Shipping container. 185,138, 5-12-59, Cl. D58—12.
- Dickman, Carl H., and C. A. Castellano, to Consolidated Molded Products Corp. Beverage case. 185,990, 8-25-59, Cl. D58—5.
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- Dietz, Clifford E., and W. H. Brehaut, Jr., to General Dynamics Corp. Aircraft passenger seat. 186,105, 9-15-59, Cl. D15—8.
- Dietz, R. E., Co.: *See—*  
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- Dike, Roy W., to Continental Can Co., Inc. Bottle. 185,538, 6-23-59, Cl. D58—6.
- Dike, Roy W., to Continental Can Co., Inc. Bottle. 186,913, 12-22-59, Cl. D58—6.
- Dill, Philip A. Combined display, food warmer and self-service stand. 185,193, 5-19-59, Cl. D81—10.
- Dillon, Chadbourne L., to Bohemian Distributing Co. Bottle. 184,474, 2-24-59, Cl. D58—8.
- Dine, Lester A., and E. S. Lemmey. Photographic flash light. 184,214, 1-6-59, Cl. D61—1.
- Dine, Lester A., and E. S. Lemmey. Photographic light unit. 184,215, 1-6-59, Cl. D61—1.
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- Ditto, Hugo M., to Marine Optical Mfg. Co. Spectacle frame or the like. 185,139, 5-12-59, Cl. D57—1.
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- Dodge, Ray E., to Dodge, Inc. Trophy base. 185,597, 6-30-59, Cl. D29—23.
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- Dodson, Adrain M., to Rich Industries, Inc. Hobby horse stand. 186,388, 10-20-59, Cl. D34—15.
- Doe, Walter P., and R. W. Crawford, to Fisher Price Toys, Inc. Action toy. 185,415, 6-9-59, Cl. D34—15.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 184,609, 3-17-59, Cl. D54—12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 184,858, 4-14-59, Cl. D54—12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 184,859, 4-14-59, Cl. D54—12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 184,918, 4-21-59, Cl. D54—12.
- Doerfler, Robert L., to The International Silver Co. Spoon or similar article of flatware. 186,625, 11-10-59, Cl. D54—12.
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- Doman, Donald W., to The Parker Pen Co. Writing instrument desk set base. 184,610, 3-17-59, Cl. D74—1.
- Doman, Donald W., to The Parker Pen Co. Writing instrument desk set base. 186,484, 10-27-59, Cl. D74—1.
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- Dowdle, Walter F., to Essex Wire Corp. Electromagnetic relay with cover. 185,418, 6-9-59, Cl. D26—13.
- Dowdle, Walter F., to Essex Wire Corp. Electromagnetic relay. 185,699, 7-21-59, Cl. D26—13.
- Downham, Roy E.: *See—*  
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- Dreyfuss, Henry, to Crane Co. Faucet unit or similar article. 185,353, 6-2-59, Cl. D91—3.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Space condition responsive instrument. 185,419, 6-9-59, Cl. D52—7.
- Dreyfuss, Henry, to American Machine & Foundry Co. Combined cleaner and polisher for bowling balls or the like. 185,492, 6-16-59, Cl. D9—2.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Control instrument. 185,598, 6-30-59, Cl. D52—7.
- Dreyfuss, Henry, to Minneapolis-Honeywell Regulator Co. Wall switch. 185,631, 7-7-59, Cl. D26—13.
- Dreyfuss, Henry, to Crane Co. Swiveling bathtub or similar article. 186,153, 9-22-59, Cl. D4—4.
- Dreyfuss, Henry, to Crane Co. Faucet or similar article. 186,565, 11-3-59, Cl. D91—3.
- Dreyfuss, Henry, R. H. Hose, and J. N. Burlin, to Bell Telephone Laboratories, Inc. Telephone set. 184,307, 1-27-59, Cl. D26—14.
- Dreyfuss, Henry, and R. H. Hose, to Bell Telephone Laboratories, Inc. Telephone mounting. 185,742, 7-28-59, Cl. D26—14.
- Dreyfuss, Henry, and W. Pferrd, to Bell Telephone Laboratories, Inc. Coin telephone set. 185,799, 8-4-59, Cl. D26—14.
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- Duncan, Thomas P., Jr. Candlestick. 185,422, 6-9-59, Cl. D48-2.
- Duncan, Thomas P., Jr. Candlestick. 185,423, 6-9-59, Cl. D48-2.
- Duncan, Thomas P., Jr. Candlestick. 185,424, 6-9-59, Cl. D48-2.
- Duncan, Thomas P., Jr. Candlestick. 185,425, 6-9-59, Cl. D48-2.
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- Duncan, Wiley C. Post cap. 186,444, 10-27-59, Cl. D29-23.
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- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 184,611, 3-17-59, Cl. D58-6.
- Du Pree, Ernest L., to Schenley Industries, Inc. Decanter. 184,989, 4-28-59, Cl. D58-8.
- Du Pree, Ernest L., to Schenley Industries, Inc. Bottle. 186,245, 9-29-59, Cl. D58-8.
- Durbin, George C., and V. N. Kitchen. Transportable hoist. 184,343, 2-3-59, Cl. D41-1.
- Durbin, Howard M., to Electro-Voice, Inc. Microphone. 185,797, 8-4-59, Cl. D26-14.
- Durbin, Howard M. Loudspeaker. 186,670, 11-17-59, Cl. D26-14.
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- Edeess, Beatrice, to American Biltrite Rubber Co., Inc. Composition floor covering or the like. 186,300, 10-6-59, Cl. D92-17.
- Edgar, Harold W. Combination barricade and warner. 184,718, 3-31-59, Cl. D72-3.
- Edgar, Harold W. Warning signal. 185,428, 6-9-59, Cl. D72-1.
- Edwards, John J., to The Thomas & Betts Co. Terminal connector lug. 185,743, 7-28-59, Cl. D26-1.
- Edwards, Robert L., to National Seating Co. Vehicle seat. 186,310, 10-13-59, Cl. D15-8.
- Egan, Philip S., to Sears, Roebuck and Co. Combined portable vacuum cleaner and accessory cart. 184,801, 4-7-59, Cl. D9-2.
- Egan, Philip S., to Sears, Roebuck and Co. Front panel for a room air conditioner. 185,700, 7-21-59, Cl. D62-4.
- Egan, Philip S., to Sears, Roebuck and Co. Front grille for room air conditioner. 185,886, 8-11-59, Cl. D62-4.
- Egan, Philip S., to Sears, Roebuck and Co. Sewing machine. 186,795, 12-1-59, Cl. D70-1.
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- Eidson, Dennis L., to Hills-McCanna Co. Metering pump unit. 186,961, 12-29-59, Cl. D65-1.
- Eisenberg, Irwin W., C. H. Dibble, L. B. Armstrong, K. T. A. Love, and C. R. Rhodes. Front panel of time-controlled apparatus. 184,920, 4-21-59, Cl. D52-1.
- Eisendrath, David C., to Cory Corp. Air conditioner or similar article. 184,308, 1-27-59, Cl. D62-4.
- Eisendrath, David C., to Cory Corp. Indicating control panel or similar article. 184,803, 4-7-59, Cl. D26-1.
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- Elgeet Optical Co., Inc.: *See*—  
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- Ellefson, John R., to E. I. du Pont de Nemours and Co. Plastic sheet material. 185,268, 5-26-59, Cl. D87-3.
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- Ellies, Alan D., to The O. M. Scott & Sons Co. Rotary mower housing. 184,804, 4-7-59, Cl. D40-1.
- Ellies, Alan D., to The O. M. Scott & Sons Co. Power lawn mower. 184,861, 4-14-59, Cl. D40-1.
- Elliott, Arthur G. Set of chessmen. 186,233, 9-29-59, Cl. D34-5.
- Elliott, B., & Co. Ltd.: *See*—  
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- Ellis, Don V., to Rodeo Cowboys' Association, Inc. Belt buckle. 184,922, 4-21-59, Cl. D17-1.
- Ellis, Don V., to Rodeo Cowboys' Association, Inc. Belt buckle. 184,923, 4-21-59, Cl. D17-1.
- Ellman, Julius. Gameboard. 185,701, 7-21-59, Cl. D34-5.
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- Erlacher, Bernard E., and D. L. Painter, to LeTourneau-Westinghouse Co. Tractor. 184,216, 1-6-59, Cl. D14-3.
- Erlacher, Bernard E., R. H. Kress, and E. W. Spannhake, to LeTourneau-Westinghouse Co. Truck. 184,217, 1-6-59, Cl. D14-3.
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- Ernest, Robert O., to Sunbeam Corp. Control for an electric blanket. 186,667, 11-17-59, Cl. D26-13.
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- Eslinger, John. Fishing lure. 184,427, 2-17-59, Cl. D31-4.
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- Everett, Julian G., to Crane Co. Prefabricated bathroom unit. 185,662, 7-14-59, Cl. D4-4.
- Everett, Julian G., to Crane Co. Prefabricated bathroom unit. 186,209, 9-29-59, Cl. D4-4.
- Everett, Julian G., to Crane Co. Combined bathtub and shower unit or the like. 186,303, 10-13-59, Cl. D4-4.
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- Everett, Julian G., to Crane Co. Push-button unit. 186,944, 12-29-59, Cl. D26-13.
- Everhard, Homer E. Flowerpot holder or similar article. 186,454, 10-27-59, Cl. D35-3.
- Everly, Robert E., to Game-Time, Inc. Park bench. 185,540, 6-23-59, Cl. D15-11.
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- Farrand, Cecile. Chapel altar rail unit. 184,807, 4-7-59, Cl. D13-7.
- Farrington Mfg. Co.: *See*—  
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- Faul, Thomas L., to Nautalloy Products, Inc. Bow handle. 186,339, 10-13-59, Cl. D71-1.
- Faulhaber, Frank J. Combined vehicle grille and head lamp guard. 185,142, 5-12-59, Cl. D14-18.
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- Feffer, Ralph B., Jr. Shelter support. 184,475, 2-24-59, Cl. D13-4.
- Fegan, Frank J., and W. H. Smith, to O. E. M. Corp. Combined oxygen tent support and air conditioning unit. 185,634, 7-7-59, Cl. D83-1.
- Fender, Clarence L. Pedal guitar. 186,190, 9-22-59, Cl. D56-1.
- Fender, Clarence L. Electric guitar. 186,826, 12-8-59, Cl. D56-1.
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- Ferar, Montgomery, to Whirlpool Corp. Chest freezer control panel. 185,272, 5-26-59, Cl. D67-3.
- Ferar, Montgomery, to Atlas Sewing Centers, Inc. Sewing machine. 186,293, 10-6-59, Cl. D70-1.
- Fercana, James E. Adjustable wrench. 184,280, 1-20-59, Cl. D54-16.
- Ferman, Bert A., to Minneapolis-Honeywell Regulator Co. Photographic flash unit. 184,563, 3-10-59, Cl. D61-1.
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- Finkelhor, Lawrence. Baseball safety helmet. 184,428, 2-17-59, Cl. D3-13.
- Finkelstein, Joseph, to Philadelphia Brief Case Co. Luggage handle. 185,744, 7-28-59, Cl. D87-2.
- Finkelstein, Sab, to Philadelphia Brief Case Co. Luggage handle. 185,541, 6-23-59, Cl. D87-2.
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- Fiori, Anthony J., E. J. Dziedziula, and R. R. Pecoraro, to Ref Mfg. Corp. Galley for aircraft. 185,077, 5-5-59, Cl. D81-10.  
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 Florian, Gordon, to Sunbeam Corp. Clock. 186,613, 11-10-59, Cl. D42-7.  
 Florian, Gordon, to Sunbeam Corp. Clock. 186,614, 11-10-59, Cl. D42-7.  
 Florian, Gordon, to Sunbeam Corp. Clock. 186,615, 11-10-59, Cl. D42-7.  
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 Foulkes, Margaret M. Sofa. 184,993, 4-28-59, Cl. D15-11.  
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     Paster, Donald L. 184,456.  
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- Frenz, Daniel C., to Curtiss-Wright Corp. Steering wheel. 184,430, 2-17-59, Cl. D14—30.
- Frey, Louis E., to Duo-Bed Corp. Combined sofa bed and desk unit. 184,809, 4-7-59, Cl. D5—4.
- Frey, Louis E. Combined dresser and luggage rack. 185,544, 6-23-59, Cl. D33—6.
- Frey, Louis E. Twin sofa bed and corner table unit. 185,952, 8-25-59, Cl. D5—4.
- Frick, William H. Mobile sanitary food carrier. 185,356, 6-2-59, Cl. D14—3.
- Frick, William H. Mobile kitchen and serving unit. 185,939, 8-18-59, Cl. D81—10.
- Frick, William H. Mobile shelved carrier. 186,306, 10-13-59, Cl. D14—3.
- Frick, William H. Food service wagon. 186,590, 11-10-59, Cl. D14—3.
- Fried, Robert P. Roasting pin. 186,902, 12-22-59, Cl. D44—29.
- Friedman, Aaron: *See*—  
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- Friedman, Abraham S., to The National Ideal Co. Pig and hog feeder. 184,222, 1-6-59, Cl. D12—2.
- Friedman, Benjamin W. Wall telephone coin box. 186,602, 11-10-59, Cl. D26—14.
- Friedman, Bernard B. Clip attachment for telephones. 186,227, 9-29-59, Cl. D26—14.
- Friend, Theodore. Shower stand. 184,925, 4-21-59, Cl. D91—3.
- Frisbie, Marshall H. Scenic crossover tunnel for toy railroad or similar article. 185,599, 6-30-59, Cl. D34—15.
- Frisk, Ernest T. Game board. 186,077, 9-8-59, Cl. D34—5.
- Frisk, Ernest T. Game board. 186,078, 9-8-59, Cl. D34—5.
- Fritz, Conrad M., to Keystone Engineering Co. Ambulatory aircraft loading unit. 186,940, 12-29-59, Cl. D14—3.
- Froelich, Michael H., to Photique, Inc. Motion picture camera or similar article. 184,723, 3-31-59, Cl. D61—1.
- Frohmam, John, 1/2 to J. W. Kinney, Jr. Sweeper hose support or the like. 184,994, 4-28-59, Cl. D91—1.
- Frost, Jack. Sketching device. 185,430, 6-9-59, Cl. D29—20.
- Fruchter, Max. Automobile washer or similar article. 185,919, 8-18-59, Cl. D49—1.
- Fry, Hugh L.: *See*—  
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- Fryberger, Philip H.: *See*—  
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- Frye, Charles F. Flow control valve for fluids. 186,489, 10-27-59, Cl. D91—3.
- Fuerst, Brooks D., to Owens-Illinois Glass Co. Decanter. 185,881, 8-11-59, Cl. D58—8.
- Fuerst, Brooks D., and W. E. Long, to Owens-Illinois Glass Co. Jar. 186,246, 9-29-59, Cl. D58—25.
- Fuji Seimitsu Kozyo Kabushiki Kaisha: *See*—  
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- Fujioka, Robert K.: *See*—  
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 Powell, James M., Inlow, Uyeda, and Fujioka. 185,511.  
 Uyeda, Tim M., Inlow, Powell, and Fujioka. 185,051.
- Fujita, Kisaku, and H. Shirai, to Fuji Seimitsu Kozyo Kabushiki Kaisha. Sewing machine. 185,431, 6-9-59, Cl. D70—1.
- Fuld, Fred, Jr. Game board. 184,926, 4-21-59, Cl. D34—5.
- Fuller, Earl L. Pretzel holder. 186,537, 11-3-59, Cl. D44—24.
- Fuller, Fred J., to P. R. Mallory & Co., Inc. Terminal for an electrical element. 186,171, 9-22-59, Cl. D26—9.
- Fuller, Judson E., to The Harrington & King Perforating Co. Grille material. 186,407, 10-20-59, Cl. D54—2.
- Fulton Bag & Cotton Mills: *See*—  
 Siegel, Jerry and Joanne. 184,691.
- Fulton, James F., to Trimble, Inc. Baby's play-yard. 186,358, 10-20-59, Cl. D5—5.
- Furiness, Samuel. Floor mat. 185,357, 6-2-59, Cl. D9—6.
- Furman, Donald D.: *See*—  
 Armstrong, Warren B., and Furman. 185,824.
- Furman, Donald D., to The Parker Pen Co. Writing instrument. 186,485, 10-27-59, Cl. D74—17.
- G-P Mfg. Co., Inc.: *See*—  
 Price, Harold. 185,613.
- Gaboriault, Henry E., to The Bishop Co. Eyeglass frame front. 185,663, 7-14-59, Cl. D57—1.
- Gaboriault, Henry E., to The Bishop Co. Eyeglass frame. 185,664, 7-14-59, Cl. D57—1.
- Gabower, Alfred F.: *See*—  
 Larson, Joseph A., and Gabower. 186,760.
- Gagnon, Louis L., to American Optical Co. Automobile body. 186,212, 9-29-59, Cl. D14—3.
- Gagnon, William E. Carton for cigarette packs. 185,924, 8-18-59, Cl. D58—13.
- Gail Mfg. Co.: *See*—  
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- Gait, John A., to Turner Mfg. Co. Combined clock and wall shelf. 185,545, 6-23-59, Cl. D42—7.
- Gaither, Ferby G. Toy gun rack. 185,600, 6-30-59, Cl. D54—15.
- Galassi, Francis J. Display rack. 185,665, 7-14-59, Cl. D80—9.
- Galbo, Joseph V. Coffee and sugar dispenser unit. 184,223, 1-6-59, Cl. D14—22.
- Gale, Leo, to Gruen Industries, Inc. Bracelet watch. 186,818, 12-8-59, Cl. D42—8.
- Gallagher, Ruth M. Baby food server. 185,707, 7-21-59, Cl. D54—12.
- Galvin, Margaret. Pin or similar article. 186,513, 11-3-59, Cl. D29—2.
- Game-Time, Inc.: *See*—  
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- Ganine, Peter, to Textron, Inc. Bracket for a bathroom fixture. 185,494, 6-16-59, Cl. D4—3.
- Gantt, Joan G., to International Latex Corp. Girdle. 185,196, 5-19-59, Cl. D20—2.
- Gantt, Joan G., and W. J. Dorsey, to International Latex Corp. Rubber sheet material. 185,195, 5-19-59, Cl. D87—3.
- Garden Specialties, Inc.: *See*—  
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- Garneau, John P. Covered food serving table. 186,927, 12-22-59, Cl. D81—12.
- Garrett Corp., The: *See*—  
 Yarrick, Henry W., Jr. 186,887.
- Gassaway, Richard B. Combined pad and holder therefor. 184,866, 4-14-59, Cl. D74—1.
- Gates Rubber Co., The: *See*—  
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- Gaudry, Paul E., to Aktiebolaget Electrolux. Dust bag holder for suction cleaner. 186,533, 11-10-59, Cl. D9—2.
- Gaupp, Kurt, to Forstner, Inc. Safety pin. 186,298, 10-6-59, Cl. D86—10.
- Gavette, Richard, to Wallace Silversmiths, Inc. Spoon or similar article. 184,867, 4-14-59, Cl. D54—12.
- Gehrie, Charles S., to Presto Lock Co. Portfolio lock. 184,312, 1-27-59, Cl. D50—7.
- Gehrie, Charles S., to Presto Lock Co. Jewelry case lock. 184,431, 2-17-59, Cl. D50—2.
- Gehrie, Charles S., to Presto Lock Co. Luggage lock. 186,724, 11-24-59, Cl. D50—7.
- Gehrie, Charles S., to Presto Lock Co. Support for a luggage handle. 186,753, 11-24-59, Cl. D87—2.
- Gehrie, Charles S., and J. L. Harris. Bow handle. 186,801, 12-1-59, Cl. D71—1.
- Gehrie, Charles S., and J. L. Harris. Bow handle. 186,964, 12-29-59, Cl. D71—1.
- Geisler, Wilson S., Jr. Cabinet for electronic equipment. 184,724, 3-31-59, Cl. D26—5.
- Gemelli, Carlo. Bottle opener. 184,613, 3-17-59, Cl. D44—29.
- Gempel, John C., to Chrysler Corp. Automobile tail lamp unit. 186,722, 11-24-59, Cl. D48—32.
- Gender, Paeschke & Frev Co.: *See*—  
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- General Aniline & Film Corp.: *See*—  
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- General Controls Co.: *See*—  
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- General Dynamics Corp.: *See*—  
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- General Fireproofing Co., The: *See*—  
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- General Mills, Inc.: *See*—  
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- General Motors Corp.: *See*—  
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- General Mower Corp.: *See*—  
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- General Products Corp.: *See*—  
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- General Steel Wares Ltd.: *See*—  
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- General Telephone Laboratories, Inc.: *See*—  
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- General Time Corp.: *See*—  
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- Geneva Products Co.: *See*—  
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- Gennaro, Emil L. and R. C. Trolley. 184,725, 3-31-59, Cl. D66—1.
- Gennaro, Matthew, to I. J. Scharf Co., Inc. Table lamp or similar article. 184,614, 3-17-59, Cl. D48—20.
- Gennaro, Robert C.: *See*—  
 Gennaro, Emil L. and R. C. 184,725.
- Gephardt, Clarence G., and S. Danneman. Merchandise display stand. 185,891, 8-11-59, Cl. 80—9.
- Geraci, Alexander D. Toy airplane. 185,546, 6-23-59, Cl. D34—15.
- Geraci, Vincent J., to Chrysler Corp. Automobile. 184,478, 2-24-59, Cl. D14—6.
- Geraci, Vincent J., to Chrysler Corp. Automobile wheel cover. 185,902, 8-18-59, Cl. D14—30.
- Gerlach, John R., to The American Hardware Corp. Knob. 185,635, 7-7-59, Cl. D50—3.
- Gerlach, John R., to The American Hardware Corp. Lock handle unit. 186,586, 11-10-59, Cl. D10—8.
- Gerland, Howard F., to Garden Specialties, Inc. Pulley or similar article. 184,346, 2-3-59, Cl. D41—1.
- Germain, Ethel. Word forming game board. 185,079, 5-5-59, Cl. D25—1.
- Gerrie, James K.: *See*—  
 Reinecke, Jean O., and Gerrie. 185,876.
- Gershen, Irvin J., to Johnson & Johnson. Tape dispenser. 186,343, 10-13-59, Cl. D74—1.
- Gerson, Samuel L. Combined spatula, cleaver, turning fork and container opener. 186,459, 10-27-59, Cl. D44—29.
- Gerson, William A., to Elbee Mfg. Co. Garden hose reel. 184,313, 1-27-59, Cl. D41—1.
- Gerstner, Harvard J. Combined steering wheel and control means for outboard motors. 186,636, 11-10-59, Cl. D71—1.
- Gertz, Sam, deceased; S. E. Gertz, executrix. Six pole television and radio antenna. 185,905, 8-18-59, Cl. D26—14.
- Gertz, Sylvia E.: *See*—  
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- Gettelman, Gilbert C., to Gender, Paeschke & Frey Co. Combined cooking and serving unit for soup or the like. 185,197, 5-19-59, Cl. D81—10.
- Gevertz, Harold. Removable car bed. 184,347, 2-3-59, Cl. D5—5.
- Ghriest, Roland G.: *See*—  
 Roesch, Roland D., Warren, and Ghriest. 184,964.
- Giacomini, Jean P.: *See*—  
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- Giardina, Andrew N. Run-about airplane toy. 184,868, 4-14-59, Cl. D34—15.
- Gibeault, Robert N. Finger ring. 185,547, 6-23-59, Cl. D45—1.
- Gibson, Howard B., to The Thomas & Betts Co. Electric terminal lug. 184,995, 4-28-59, Cl. D26—1.
- Gibson, Howard B., to The Thomas & Betts Co. Wire connector. 186,170, 9-22-59, Cl. D26—1.
- Gilbert, A. C., Co., The: *See*—  
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- Gilbert-Phillip Products, Inc.: *See*—  
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- Gill, John E., and W. E. Fletcher, to Balfour, Beatty & Co. Ltd., and Andre Rubber Co. Ltd. Vibration insulator for spacing apart overhead wires. 184,432, 2-17-59, Cl. D26—10.
- Gill, Walter L. Jar and bottle opener. 184,726, 3-31-59, Cl. D44—29.
- Gill, Walter L. Laundry rack. 185,198, 5-19-59, Cl. D49—1.
- Gillan, Paul W., to General Motors Corp. Wheel cover. 184,348, 2-3-59, Cl. D14—30.
- Gillette Co., The: *See*—  
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- Gilruth, James A., to Junior Achievement of Northern Delaware, Inc. Bookrack. 186,672, 11-17-59, Cl. D33—2.
- Gilson Brothers Co.: *See*—  
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- Gilson, Channing W., to H. A. Dewenter. Blender. 186,094, 9-8-59, Cl. D89—1.
- Gits, Joseph A.: *See*—  
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- Gits, Jules P.: *See*—  
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- Glaberson, Martin, to Eversharp, Inc. Razor blade knife. 184,615, 3-17-59, Cl. D22—3.
- Glaberson, Martin, to Eversharp, Inc. Safety razor case. 185,636, 7-7-59, Cl. D58—12.
- Gladding, McBean & Co.: *See*—  
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- Glassehart, Alfons, and W. J. Stolz. Portable cooler. 186,739, 11-24-59, Cl. D62—4.
- Glassman, Joel J. Shadow box. 186,671, 11-17-59, Cl. D29—20.
- Glastic Corp., The: *See*—  
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- Glen Raven of California: *See*—  
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- Globe Roofing Products Co., Inc.: *See*—  
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- Glover, Anthony D. Spectacle display rack. 185,746, 7-28-59, Cl. D80—9.
- Gluhareff, Michael E., E. F. Katzenberger, and L. G. Knapp, to United Aircraft Corp. Helicopter. 186,796, 12-1-59, Cl. D71—1.
- Glyer, Morris F., to R. E. Dietz Co. Battery shield. 185,747, 7-28-59, Cl. D26—6.
- Godard, C. W., & Co. Ltd.: *See*—  
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- Godard, Kenneth C., to C. W. Godard Co. Ltd. Ball caster. 185,601, 6-30-59, Cl. D10—6.
- Goddard, John A., to Ronson Corp. Lighter or similar article. 186,402, 10-20-59, Cl. D48—27.
- Goettl, Adam D. and A. B., and E. C. Klotz, Jr. Portable evaporative cooler. 185,748, 7-28-59, Cl. D62—4.
- Goettl, Albert B.: *See*—  
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- Goetze, Arnold M. Universal test stand for engines or similar article. 184,433, 2-17-59, Cl. D26—1.
- Goforth, Henry E.: *See*—  
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- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,227, 1-6-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,228, 1-6-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,281, 1-20-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,282, 1-20-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,283, 1-20-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,284, 1-20-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,349, 2-3-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,350, 2-3-59, Cl. D92—1.
- Goforth, Henry E., to United States Rubber Co. Puffed textile fabric. 184,929, 4-21-59, Cl. D92—1.
- Goforth, Henry E., and J. L. Larsen, to United States Rubber Co. Puffed textile fabric. 184,927, 4-21-59, Cl. D92—1.
- Goforth, Henry E., and J. L. Larsen, to United States Rubber Co. Puffed textile fabric. 184,928, 4-21-59, Cl. D92—1.
- Goldberg, Ernest. Electric hanukkah lamp. 185,199, 5-19-59, Cl. D48—20.
- Golden, Mable A. Teaching aid for telling time. 186,071, 9-8-59, Cl. D25—1.
- Golden, Samuel J., Jr. to R. M. Bowes. Comb. 186,297, 10-6-59, Cl. D86—8.
- Goldfarb, Martin S.: *See*—  
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- Goldman, Lillian and R. Lamp. 185,979, 8-25-59, Cl. D48—20.
- Goldman, Lillian and R. Lamp. 186,282, 10-6-59, Cl. D48—20.
- Goldman, Lillian and R. Lamp. 186,719, 11-24-59, Cl. D48—23.
- Goldman, Robert: *See*—  
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- Goldstein, Daniel, to Schenley Industries, Inc. Closure cap for a container. 185,358, 6-2-59, Cl. D58-26.
- Goldstein, Daniel, to Schenley Industries, Inc. Flask. 185,432, 6-9-59, Cl. D58-6.
- Goldstein, Jacob, and R. E. Donald, to American Seating Co. Combined desk and television unit. 184,996, 4-28-59, Cl. D33-11.
- Gonas, Albert J., and D. C. McElfish, to General Motors Corp. Automobile window regulator handle. 186,305, 10-13-59, Cl. D10-8.
- Gonfreville, Claude, to Picon (S.A.P.), Societe Anonyme des Anciens Etablissements Amer Picon. Bottle. 185,602, 6-30-59, Cl. D58-8.
- Gonicberg, Jerome A. Link chain for a bracelet. 184,930, 4-21-59, Cl. D45-4.
- Gonicberg, Jerome A. Link chain for a bracelet. 186,951, 12-29-59, Cl. D45-4.
- Good, Fred C., to Fred C. Good & Sons, Inc. Windlass housing. 185,808, 8-4-59, Cl. D41-1.
- Good, Fred C., & Sons, Inc.: See—
- Good, Fred C. 185,808.
- Good, Wayne W.: See—
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- Goode, Robert W.: See—
- Petersen, Gerald A. M., and Goode. 186,589.
- Goodman, Abraham, to Delamere Co., Inc. Hair retainer comb. 185,200, 5-19-59, Cl. D86-8.
- Goodman, Herman, to Zylite Products Co., Inc. Temple for an eyeglass frame. 186,910, 12-22-59, Cl. D57-1.
- Goodman Mfg. Co.: See—
- Gross, William P. 185,359.
- Goodman, Stuart, 50% to M. I. David. Ring. 186,822, 12-8-59, Cl. D45-10.
- Goodrich, B. F., Co., The: See—
- Johnson, Rush M., Jr. 185,896.
- Goodspeed, Jesse L. Game board. 185,804, 8-4-59, Cl. D34-5.
- Goodyear Tire & Rubber Co., The: See—
- Shively, Walter E., and Lewis. 184,376.
- Gorham Mfg. Co.: See—
- Hopcraft, Richard T. 186,679.
- Gorzelnik, Mary E. Artichoke dish. 184,224, 1-6-59, Cl. D44-15.
- Gossett, Clyde H. Kite. 185,749, 7-28-59, Cl. D34-15.
- Gottfried, Louis, and J. Berger. Foot-rest for a high chair or the like. 186,164, 9-22-59, Cl. D15-1.
- Gouin, Marcel, to Societe a Responsabilite Limitee Etablissements Gouin. Bottle. 184,484, 2-17-59, Cl. D58-8.
- Groundie, George H., and H. C. Schroedter, to Creative Play-structures, Inc. Playground device. 186,027, 9-1-59, Cl. D34-5.
- Groundie, George H., and H. C. Schroedter, to Creative Play-structures, Inc. Playground climbing apparatus. 186,028, 9-1-59, Cl. D34-5.
- Gowdy, George H. Fish lure. 186,447, 10-27-59, Cl. D31-4.
- Goyette, Ernest A. Pipe rack. 185,750, 7-28-59, Cl. D85-2.
- Graham, John J., Jr.: See—
- Pickrell, Fred T., Wixted, and Graham. 184,636.
- Graham, John W., to Quaker Lace Co. Tablecloth. 186,649, 11-10-59, Cl. D92-26.
- Grand Haven Harbor Industries, Inc.: See—
- Vivian, William W. 186,089.
- Granit-Bronz, Inc.: See—
- Barthelemy, Roland A., and Brioschi. 185,113.
- Grant, Cuthbert: See—
- Ortiz, Ralph G., Grant, and Markel. 186,865.
- Grant, Joseph L.: See—
- Talge, Henry J., and Grant. 184,385.
- Grass, I. J., Noodle Co., Inc.: See—
- Sherman, William S. 184,461.
- Graubner, Herman G. Flashlight. 186,401, 10-20-59, Cl. D48-24.
- Gray Mfg. Co., The: See—
- Aucoin, Leo J. 184,331.
- Aucoin, Leo J., and Moore. 186,770.
- Gray, Thomas J. Door knocker. 184,519, 3-3-59, Cl. D10-7.
- Gray, Warren E.: See—
- Milliken, Charles S., Bosworth, and Gray. 185,560.
- Grayson, Michael A.: See—
- Michalek, John C., and Grayson. 185,456.
- Grayson, Richard D., to General Controls Co. Combined spit, thermometer and temperature control. 186,563, 11-3-59, Cl. D81-10.
- Great Lakes Products, Inc.: See—
- Hammer, Maurice J. 184,618.
- Greczin, John, to Fidelity Machine Co., Inc. Flexible hose. 184,225, 1-6-59, Cl. D43-1.
- Green, Lawrence L., to Modern Metalics, Inc. Casket hardware handle bracket. 186,882, 12-22-59, Cl. D19-2.
- Green, Lawrence L., to Modern Metalics, Inc. Casket hardware corner member. 186,883, 12-22-59, Cl. D19-2.
- Greenberg, Harry R. Home bar or similar article. 184,520, 3-3-59, Cl. D33-19.
- Greenblat, Morris. Hibachi. 185,280, 5-26-59, Cl. D81-10.
- Greene, Harry R., to General Controls Co. Water heater control. 186,319, 10-13-59, Cl. D26-13.
- Greene, Michael A. Sweater blouse. 184,616, 3-17-59, Cl. D3-4.
- Greene, Michael A. Sweater blouse. 184,617, 3-17-59, Cl. D3-4.
- Greene, Norman A. Liquid dispensing cap for a bottle or the like. 186,568, 11-10-59, Cl. D2-3.
- Greene, Norman A. Liquid dispensing cap for a bottle or the like. 186,569, 11-10-59, Cl. D2-3.
- Greene, Norman A. Liquid dispensing cap for a bottle or the like. 186,570, 11-10-59, Cl. D2-3.
- Greenman, Orval L., and R. J. Stewart, to The Bulman Corp. Display rack. 186,639, 11-10-59, Cl. D80-9.
- Greist Mfg. Co., The: See—
- Florian, Gordon. 185,542.
- Gribble, Joseph J., and K. J. Marien, to Square D Co. Electrical switch enclosure. 186,814, 12-8-59, Cl. D26-13.
- Griese, Elmer W., Jr., to Ekco-Alcoa Containers Inc. Fry pan. 186,900, 12-22-59, Cl. D44-1.
- Grills, Leo J.: See—
- Blount, Beverly M., and Grills. 184,706.
- Grimes, Thomas H., and R. J. Meythaler. Educational toy. 184,521, 3-3-59, Cl. D34-15.
- Griparris, Andrew G., to Stainless Steel Pump Co. Pump. 186,742, 11-24-59, Cl. D35-1.
- Gripekover, Henry A., to Visirecord, Inc. Duplicating apparatus. 186,475, 10-27-59, Cl. D64-11.
- Griswold, John S., to Wood Conversion Co. Tile or similar article. 184,810, 4-7-59, Cl. D18-2.
- Griswold, John S., to Wood Conversion Co. Tile or similar article. 184,811, 4-7-59, Cl. D18-2.
- Griswold, John S., to Wood Conversion Co. Tile or similar article. 185,637, 7-7-59, Cl. D18-2.
- Griswold, John S., to Wood Conversion Co. Tile or similar article. 186,165, 9-22-59, Cl. D18-2.
- Gritzner-Kayser Aktiengesellschaft: See—
- Meier, Günther. 186,142.
- Gross, Irmi A. Lamp. 184,564, 3-10-59, Cl. D48-20.
- Gross, Irmi A. Child's costumer. 186,230, 9-29-59, Cl. D33-8.
- Gross, Robert, to C. Schleicher, d. b. a. Geneva Products Co. Combined front ornament and ear piece for eyeglasses. 184,395, 2-10-59, Cl. D57-1.
- Gross, William P., to Goodman Mfg. Co. Headlight for industrial equipment or the like. 185,359, 6-2-59, Cl. D48-32.
- Grosso, Raymond A., to Sylvania Electric Products Inc. Transparency viewer. 184,351, 2-3-59, Cl. D57-7.
- Grosso, Raymond A., to Sylvania Electric Products Inc. Camera. 185,548, 6-23-59, Cl. D61-1.
- Grubbs, Robert. Fence panel and posts unit. 184,997, 4-28-59, Cl. D28-1.
- Grube, Clifford E., to A-M Co. Thermostatic control unit or similar article. 185,666, 7-14-59, Cl. D26-13.
- Gruber, Milan. Toy tank. 184,352, 2-3-59, Cl. D34-15.
- Gruen Industries, Inc.: See—
- Gale, Leo. 186,818.
- Guardian Light Co.: See—
- Akely, William S., and Kochale. 186,952.
- Guertin, Emile H.: See—
- Guertin, Valmore and E. H. 186,183.
- Guertin, Valmore and E. H. Ring. 186,183, 9-22-59, Cl. D45-10.
- Guggemos, Kenneth F. Street lighting lamp or the like. 184,226, 1-6-59, Cl. D48-31.
- Guild, Lurelle V. A.: See—
- Belicka, Michael E., Cawl, Guild, and Lampe. 186,873.
- Borkoski, Leon P., Ferraris, Guild, and Moughly. 184,910.
- Pitman, Richard W., and Guild. 185,929.
- Gundelfinger, William E.: See—
- Smith, Barry L., and Gundelfinger. 186,886.
- Gundelfinger, William E., to The Dazey Corp. Vegetable slicer. 185,201, 5-19-59, Cl. D89-1.
- Gunderson, John R. Child's chair. 186,309, 10-13-59, Cl. D15-1.
- Gunning, Joseph H. Golf caddy cart. 186,428, 10-27-59, Cl. D14-3.
- Gunter, William K., Jr., to Derry Damask Mills, Inc. Double-faced tufted fabric. 186,705, 11-17-59, Cl. D92-1.
- Gurr, Robert H., to Wed Enterprises, Inc. Miniature passenger-carrying train. 184,522, 3-3-59, Cl. D66-1.
- Guryn, Mike. Combined door closer and deodorizer. 186,361, 10-20-59, Cl. D10-7.
- Gustafson, Hazen A. Fastener for a carton divider. 185,145, 5-12-59, Cl. D58-26.
- Guth, Edwin F., Co., The: See—
- Guth, Edwin F., Jr. 186,855.
- Guth, Edwin F., Jr. Lighting fixture. 186,329, 10-13-59, Cl. D48-23.
- Guth, Edwin F., Jr., to The Edwin F. Guth Co. Luminaire. 186,855, 12-15-59, Cl. D48-23.
- Guthell, Byron W. Capelet or the like. 186,867, 12-22-59, Cl. D3-3.
- Gwinn, Kenneth, to Harwood Electronics Co., Inc. Carrying case. 186,644, 11-10-59, Cl. D87-5.
- Gyrodyn Co. of America, Inc.: See—
- Papadakos, Peter J. 186,478.
- H & M Neckwear Co., Inc.: See—
- Mayer, Donald. 186,758.
- Hacker, Hans, to M. Maul. Sorting machine for record cards. 186,663, 11-17-59, Cl. D26-5.
- Hadders, Arthur E., to Globe Roofing Products Co., Inc. Siding panel. 186,086, 9-8-59, Cl. D68-1.



- Hadley Mfg. Co., The: *See*—  
De Sakhnoffsky, Alexis. 186,965.
- Hagen, Herbert E. Gameboard. 185,965, 8-25-59, Cl. D34-5.
- Haghi, Mansoor K. Waste paper basket. 186,693, 11-17-59, Cl. D58-4.
- Hahn, Alfred. Toy figure. 184,931, 4-21-59, Cl. D34-4.
- Haines, Thomas G. Ski car toy. 186,034, 9-1-59, Cl. D34-15.
- Halberstadt, Lewis J., to Pro-Phy-Lac-Tic Brush Co. Tooth-brush box or similar article. 185,433, 6-9-59, Cl. D58-12.
- Hale, Jack W., to Chamberlain Aviation, Inc. Helmet. 186,652, 11-17-59, Cl. D3-13.
- Hale, Randall H. Orthopedic brace for the back. 186,642, 11-10-59, Cl. D83-1.
- Hale, Thomas K.: *See*—  
Craig, Burnie M., Hale, and Keck. 185,626.  
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- Hall, George E., and S. Osmon. Sailboat. 185,822, 8-4-59, Cl. D71-1.
- Hall, Hugh J., and J. O. Yeiser, to Varian Associates. Graphic recorder. 184,479, 2-24-59, Cl. D26-1.
- Hallahan, Gerald B., to Modern Engineering Service Co. Hydraulic precision index and pierce machine. 185,360, 6-2-59, Cl. D54-14.
- Hallock, Edward C. Mullion socket. 184,727, 3-31-59, Cl. D13-1.
- Hallock, Edward C. Head piece for louvers. 185,549, 6-23-59, Cl. D54-2.
- Hallock, Edward C. Sun shade. 186,508, 11-3-59, Cl. D21-6.
- Halsed, Helen H. Pull toy. 184,529, 3-3-59, Cl. D34-15.
- Hamel, Antonio J., E. N., and D. A. Coach for pick-up trucks. 185,146, 5-12-59, Cl. D14-3.
- Hamel, Donald A.: *See*—  
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- Hamel, Everett N.: *See*—  
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- Hammer, Jerome, to Panation Trade Co. of New York. Decorative panel for cigarette lighters and the like. 184,869, 4-14-59, Cl. D48-27.
- Hammer, Jerome, to Panation Trade Co. of New York. Decorative panel for cigarette or the like. 185,361, 6-2-59, Cl. D48-27.
- Hammer, Jerome, to Panation Trade Co. Decorative panel for cigarette lighters and the like. 185,495, 6-16-59, Cl. D48-27.
- Hammer, Maurice J., to Great Lakes Products, Inc. Spinning reel. 184,618, 3-17-59, Cl. D31-4.
- Hammer, Samuel. Push cart or similar article. 185,751, 7-28-59, Cl. D14-3.
- Hamon, Orville C. Vase. 184,932, 4-21-59, Cl. D29-28.
- Hamon, Orville C. Dish. 184,933, 4-21-59, Cl. D36-2.
- Hankcraft Co.: *See*—  
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- Hansen, Carl U. F. Serving tray. 186,901, 12-22-59, Cl. D44-10.
- Hansen, Darrel. Spud wrench. 185,434, 6-9-59, Cl. D54-16.
- Hansen, John V., to The Electric Storage Battery Co. Flash-light. 185,496, 6-16-59, Cl. D48-24.
- Hansen, John V., and R. T. Jacobsen, to The Electric Storage Battery Co. Lantern. 185,603, 6-30-59, Cl. D48-24.
- Hansen, Ray: *See*—  
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- Happer, William R. A. Illuminable showcase for foodstuffs or the like. 185,827, 8-4-59, Cl. D80-11.
- Harada, Mamoru. Photoelectric exposure meter. 185,998, 8-25-59, Cl. D61-1.
- Hardin, Rodger W.: *See*—  
Miller, Alex F., and Hardin. 186,778.
- Harley, Ben W., R. C. Shape, and N. H. Mealy, to The Warren Steel Specialties Corp. Tire rack. 185,892, 8-11-59, Cl. D80-10.
- Harley, Don: *See*—  
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- Harley, Don, and C. B. Woofter, to Arthur Salm, Inc. Combined scabbard and letter holder. 186,109, 9-15-59, Cl. D22-6.
- Harley, Max: *See*—  
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- Harlow, D. L.: *See*—  
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- Harman, Emil I., to Philco Corp. Back panel for a portable television receiver. 186,134, 9-15-59, Cl. D56-4.
- Harman, Emil I., to Philco Corp. Television receiver. 186,335, 10-13-59, Cl. D56-4.
- Harper, Irving, to Chas. D. Briddell, Inc. Spoon or similar article of flatware. 185,362, 6-2-59, Cl. D54-12.
- Harper, Robert J.: *See*—  
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- Harper, Toby. Rack for football shoulder pads or the like. 185,752, 7-28-59, Cl. D80-9.
- Harriman, John M., to James Industries, Inc. Trundle toy. 185,497, 6-16-59, Cl. D34-27.
- Harrington & King Perforating Co., The: *See*—  
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- Harris, Frank H. Purse or similar article. 186,091, 9-8-59, Cl. D87-3.
- Harris, Harold, and A. Sokol, to Channel Master Corp. Indoor antenna. 184,998, 4-28-59, Cl. D26-14.
- Harris, Joseph L.: *See*—  
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Gehrie, Charles S., and Harris. 186,964.
- Harris, William T. Vanity chair. 184,812, 4-7-59, Cl. D15-1.
- Harrison, Frederick C., to Shires & Co. (London) Ltd. Water closet. 186,707, 11-24-59, Cl. D4-5.
- Harrison, Thomas S., to Cauldon Potteries Ltd. Plate or similar article. 185,147, 5-21-59, Cl. D44-15.
- Harrison, Thomas S., to Cauldon Potteries Ltd. Dish or similar article. 185,281, 5-26-59, Cl. D44-15.
- Harrold, Willis L. Combination food and beverage basket for automobiles or the like. 185,988, 8-25-59, Cl. D58-4.
- Harter Corp.: *See*—  
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Christenson, Trace, and Good. 185,851.  
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- Harty, Millard F., Jr., to The Harrington & King Perforating Co. Grille material. 184,728, 3-31-59, Cl. D54-2.
- Harty, Millard F., Jr., to The Harrington & King Perforating Co. Grille material. 184,729, 3-31-59, Cl. D54-2.
- Harty, Millard F., Jr., to The Harrington & King Perforating Co. Grille material. 184,730, 3-31-59, Cl. D54-2.
- Harty, Millard F., Jr., to The Harrington & King Perforating Co. Grille material. 184,731, 3-31-59, Cl. D54-2.
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- Hassman, Leonard. Game board. 186,176, 9-22-59, Cl. D34-5.
- Hastings, Norman R., to Walk Time, Inc. Pedestrian traffic signal. 184,435, 2-17-59, Cl. D72-1.
- Hatton, Ernest E.: *See*—  
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- Hauer, Erwin F. Architectural screen or similar article. 186,216, 9-29-59, Cl. D18-2.
- Haun, Burton O., Jr., W. H. Moku, and P. Wrablica, Jr., to Metals & Controls Corp. Motor protector switch or similar article. 185,638, 7-7-59, Cl. D26-13.
- Haun, Burton O., Jr., W. H. Moku, and P. Wrablica, Jr., to Texas Instruments Inc. Electrical switch housing or similar article. 186,769, 12-1-59, Cl. D26-13.
- Hauser, Florence E. Pie dough perforator. 186,044, 9-1-59, Cl. D44-29.
- Hauser, Jon W., to McGraw-Edison Co. Electric heater. 184,480, 2-24-59, Cl. D81-10.
- Hauser, Jon W., to McGraw-Edison Co. Electric heater casing. 184,481, 2-24-59, Cl. D81-10.
- Hauser, Jon W., to Sylvania Electric Products Inc. Television cabinet. 185,282, 5-26-59, Cl. D56-4.
- Hauser, Jon W., II. Wall mounted display track for toy trains. 185,550, 6-23-59, Cl. D80-1.
- Hayercraft, Walter R. Illuminable picture frame. 184,436, 2-17-59, Cl. D29-20.
- Haynes, Thomas J. Game device. 184,675, 3-24-59, Cl. D34-5.
- Haywood, Jack W., to Modeline Co. of California Inc. Lamp. 186,618, 11-10-59, Cl. D48-20.
- Hebel, Fred, Corp.: *See*—  
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- Hebel, Fred, to Fred Hebel Corp. Vending machine for dispensing hot food or the like. 185,148, 5-12-59, Cl. D52-3.
- Hebrank, William F. Boat anchor. 185,889, 8-11-59, Cl. D71-1.
- Heddon's, James, Sons: *See*—  
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- Hedstrom, Carl W., to Hedstrom Union Co. Velocipede. 184,437, 2-17-59, Cl. D34-15.
- Hedstrom, Carl W., to Hedstrom Union Co. Velocipede. 184,438, 2-17-59, Cl. D34-15.
- Hedstrom, Carl W., to Hedstrom Union Co. Bicycle pedal or the like. 184,934, 4-21-59, Cl. D90-14.
- Hedstrom, Carl W. Velocipede. 186,453, 10-27-59, Cl. D34-15.
- Hedstrom Union Co.: *See*—  
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- Heidenblut, George R., and A. H. Titus, Jr. Room air conditioner. 185,887, 8-11-59, Cl. D62-4.
- Heil, Theodore, to Heilite Trailers. Automobile tent. 186,429, 10-27-59, Cl. D14-6.
- Heilite Trailers: *See*—  
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- Helbros Watch Co., Inc.: *See—*  
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- Hellmann, Robert R. Portable display rack for oil cans. 184,439, 2-17-59, Cl. D80—10.
- Hembbd, Alfred E. and P. E. Clothes rack or similar article. 186,607, 11-10-59, Cl. D33—8.
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- Hemmetter, George T. Wheel balancer mounting ring. 184,619, 3-17-59, Cl. D5—1.
- Hennig, Walter, to VEB Kamera-Werke Niedersiedlitz. Camera. 186,336, 10-13-59, Cl. D61—1.
- Henrikson, Bror W., A. C. Hoven, W. S. Lindberg, and W. E. Nordmark, to American Seating Co. Audio-visual teaching desk. 186,894, 12-22-59, Cl. D33—7.
- Henson, James M., and J. A. Nebel, to John H. Wilkins Co. Puppet doll or similar article. 186,119, 9-15-59, Cl. D34—4.
- Henson, James M., and J. A. Nebel, to John H. Wilkins Co. Puppet doll or similar article. 186,120, 9-15-59, Cl. D34—4.
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- Herman, Clyde A. Fishing lure. 185,865, 8-11-59, Cl. D31—4.
- Herman, Henry E., to Cardinal Products Co., Inc. Flint holder or similar article. 186,859, 12-15-59, Cl. D58—26.
- Herman, John. Ventilator for boats or the like. 185,818, 8-4-59, Cl. D62—3.
- Herrmann, Ernest, to Heywood-Wakefield Co. Buffet. 184,871, 4-14-59, Cl. D33—6.
- Herrmann, Ernest, to Heywood-Wakefield Co. Double dresser. 184,935, 4-21-59, Cl. D33—6.
- Herrmann, Ernest. Dresser or the like. 185,708, 7-21-59, Cl. D33—6.
- Herrmann, Ernest. Dresser or the like. 185,709, 7-21-59, Cl. D33—6.
- Herrmann, Ernest. Dresser or the like. 185,710, 7-21-59, Cl. D33—6.
- Herrmann, Ernest, to Heywood-Wakefield Co. Bedstead. 186,099, 9-15-59, Cl. D5—4.
- Herrmann, Ernest, to Heywood-Wakefield Co. Double dresser. 186,382, 10-20-59, Cl. D33—6.
- Herrmann, Ernest, to Heywood-Wakefield Co. Chest of drawers. 186,383, 10-20-59, Cl. D33—6.
- Herrmann, Ernest, to Heywood-Wakefield Co. Sideboard. 186,385, 10-20-59, Cl. D33—13.
- Herrmann, Ernest, to Heywood-Wakefield Co. China cabinet. 186,386, 10-20-59, Cl. D33—19.
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- Hertzler, Frederick: *See—*  
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- Hess, William F. Chain link or similar article. 186,903, 12-22-59, Cl. D45—4.
- Heyer, Benjamin F. W., to Hoyer Industries, Inc. Engine analyzing unit. 184,440, 2-17-59, Cl. D26—1.
- Heyer, Don, to M and H Industries, Inc. Pull for doors, drawers and the like. 185,283, 5-26-59, Cl. D50—3.
- Heyer, Don, to M and H Industries, Inc. Pull for drawers, doors and the like. 186,762, 12-1-59, Cl. D10—8.
- Heyer, Don, to M and H Industries, Inc. Pull for drawers, doors and the like. 186,763, 12-1-59, Cl. D10—8.
- Heyer, Don, and J. W. Maize, to M and H Industries, Inc. Pull for drawers, cabinet doors, and the like. 184,620, 3-17-59, Cl. D10—8.
- Heyer, Don, and J. W. Maize, to M and H Industries, Inc. Monogrammed knob for doors, drawers and the like. 184,621, 3-17-59, Cl. D50—3.
- Heyer, Don, and J. W. Maize, to M and H Industries, Inc. Hinge. 184,732, 3-31-59, Cl. D10—9.
- Hoyer Industries, Inc.: *See—*  
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- Heywood-Wakefield Co.: *See—*  
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- Hill, C. V., & Co., Inc.: *See—*  
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- Hill, Herbert M. Tackle knife. 186,313, 10-13-59, Cl. D22—3.
- Hillgren, Carl C., to Hillgren Mfg. Co. Cabinet handle or similar article. 185,202, 5-19-59, Cl. D10—8.
- Hillgren, Carl C. Cabinet handle or similar article. 186,811, 12-8-59, Cl. D10—8.
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- Hinett, Frank, Jr., to Artloom Industries, Inc. Pile fabric. 186,648, 11-10-59, Cl. D92—1.
- Hinners, Frank A. Portable stereophonic phonograph. 185,711, 7-21-59, Cl. D56—4.
- Hirsch, Mahlon E., to Louis Marx & Co., Inc. Bubble gun. 186,387, 10-20-59, Cl. D34—15.
- Hirschman, Irving. Spectacle frame. 185,080, 5-5-59, Cl. D57—1.
- Hirschman, Jerome C. Building. 185,840, 8-11-59, Cl. D13—1.
- Hitchcock, Richard W., and W. A. Underwood, to United Shoe Machinery Corp. Fastener inserting tool. 186,290, 10-6-59, Cl. D54—13.
- Hi-Voltage Equipment Co., a division of Joslyn Mfg. and Supply Co.: *See—*  
Hoffman, Joseph D. 186,512.
- Hjelte, George. Climber slide. 186,523, 11-3-59, Cl. D34—5.
- Hobson, Willis S., to Seymour Mfg. Co. Hearth shovel or similar article. 186,008, 8-25-59, Cl. D81—24.
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- Hodges, Wetmore, Jr., and W. H. Moranda. Semitrailer. 184,622, 3-17-59, Cl. D14—3.
- Hodgman, Clare E., to The Coca-Cola Co. Operating handle for a beverage dispenser. 184,482, 2-24-59, Cl. D2—3.
- Hodgman, Clare E., to The Coca-Cola Co. Beverage dispenser. 184,483, 2-24-59, Cl. D2—3.
- Hodgman, Clare E., to The Coca-Cola Co. Bottle carrier. 184,999, 4-28-59, Cl. D58—5.
- Hodgman, Clare E., to The Vendo Co. Coin operated vending machine. 185,436, 6-9-59, Cl. D52—3.
- Hodgman, Clare E., to The Coca-Cola Co. Bottle carrier. 185,551, 6-23-59, Cl. D58—5.
- Hodgman, Clare E., to General Aniline & Film Corp. Photographic camera. 186,436, 10-27-59, Cl. D26—1.
- Hodgman, Clare E., to General Aniline & Film Corp. Photographic camera. 186,473, 10-27-59, Cl. D61—1.
- Hoeh, James A. Spirit level frame. 186,284, 10-6-59, Cl. D52—1.
- Hoffman, Ada M. Toy airplane. 186,079, 9-8-59, Cl. D34—15.
- Hoffman, Joseph D., to Hi-Voltage Equipment Co., a division of Joslyn Mfg. and Supply Co. Fence. 186,512, 11-3-59, Cl. D28—1.
- Hofgesang, William, to The Singer Mfg. Co. Sewing machine table underframe. 184,676, 3-24-59, Cl. D70—2.
- Hofgesang, William, to The Singer Mfg. Co. Sewing machine treadle or similar articles. 185,081, 5-5-59, Cl. D70—2.
- Hofmann-Igl, Ernst H., to P. Beiersdorf & Co. A.G. Dispenser for adhesive tape and the like. 185,284, 5-26-59, Cl. D74—1.
- Hofmann-Igl, Ernst H., to P. Beiersdorf & Co., A.G. Tape dispenser or the like. 185,639, 7-7-59, Cl. D74—1.
- Hofmeister, Willi, to Bayerische Motoren Werke Akt. Automobile. 184,733, 3-31-59, Cl. D14—3.
- Holcomb, Stephen A. Sled. 185,667, 7-14-59, Cl. D34—15.
- Holcomb, Stephen A. Sled. 186,674, 11-17-59, Cl. D34—15.
- Holden, Edward M. Roller skate. 186,451, 10-27-59, Cl. D34—14.
- Holden, Margaret E. Badge or similar article. 184,565, 3-10-59, Cl. D29—2.
- Holden, Orloff W. Swivel mirror. 184,677, 3-24-59, Cl. D33—9.
- Hollaender Mfg. Co., The: *See—*  
Hollaender, Peter R. 186,405.
- Hollaender, Peter R., to The Hollaender Mfg. Co. Fitting for joining tubular members. 186,405, 10-20-59, Cl. D54—1.
- Holland, Douglas F. Tongs. 186,328, 10-13-59, Cl. D44—4.
- Hollinger, Walter H. Article carrying cart. 185,203, 5-19-59, Cl. D14—3.
- Hollnagel, Harold S. Boat hull. 186,002, 8-25-59, Cl. D71—1.
- Holmes, Gerald E. Lifting and towing sling hitch for vehicles. 186,389, 10-20-59, Cl. D41—1.
- Holmes, Harry J., to The Thomas & Betts Co. Insulated terminal connector. 186,509, 11-3-59, Cl. D26—1.
- Holophane Co., Inc.: *See—*  
Frank, Kurt, and Wince. 184,722.  
Frank, Kurt, and Wince. 185,975.
- Holt, Ian. Combined collapsible tube and dispenser for liquids. 185,363, 6-2-59, Cl. D58—26.
- Holt, Robert S., to Bryce Brothers Co. Goblet or the like. 186,327, 10-13-59, Cl. D36—8.



- Holzworth, Henry, and J. Wark, to American Can Co. Paper cup holder. 184,566, 3-10-59, Cl. D44-9.
- Hood Chemical Co., Inc.: *See*—  
Slater, Charles A., Jr. 184,966.
- Hoover Co., The: *See*—  
Smith, French E. 186,463.  
Swann, Edward R. 186,359.  
Swann, Edward R. 186,872.
- Hoover, James K. Portable compressor. 185,000, 4-28-59, Cl. D65-1.
- Hoover Products, Inc.: *See*—  
Allen, Robert Y., and Shaw. 186,610.
- Hopcraft, Richard T., to Gorham Mfg. Co. Butter dish. 186,679, 11-17-59, Cl. D44-5.
- Horne, John I. Hand bag. 186,755, 11-24-59, Cl. D87-3.
- Horner, William M.: *See*—  
Osborn, John D. 186,469.
- Horowitz, Isadore, to Universal Mfg. Co., Inc. Playground gym. 186,235, 9-29-59, Cl. D34-6.
- Hosch, Burton B., to Mississippi Federated Cooperatives. Advertising display flow glass. 185,364, 6-2-59, Cl. D1-2.
- Hose, Robert H.: *See*—  
Dreyfuss, Henry, and Hose. 185,742.  
Dreyfuss, Henry, Hose, and Burlin. 184,307.
- Hose, Robert H., and G. L. Payne. Combined carrying handle and valve actuating unit for a portable fire extinguisher or similar article. 186,765, 12-1-59, Cl. D16-2.
- Hosking, John H., Co.: *See*—  
Hosking, John H. 186,331.
- Hosking, John H., to John H. Hosking Co. Three barrel slip fit coupling element or the like. 186,331, 10-13-59, Cl. D54-1.
- Hosley, Harold L. Display cabinet. 186,005, 8-25-59, Cl. D80-11.
- Hotkins, Ralph, and C. Shankman, to Capitol Projector Corp. Ferris wheel for children. 186,121, 9-15-59, Cl. D34-5.
- Hough, Frank G., Co., The: *See*—  
Beyerstedt, Ralph L. 184,598.
- Houghton, E. F., & Co.: *See*—  
Bruening, Joseph M., and Vanlew. 185,937.
- Houghton, Robert S. Microfilm reader. 185,001, 4-28-59, Cl. D61-1.
- House, Elliott M., to Lenox, Inc. Plate or similar article. 186,950, 12-29-59, Cl. D44-15.
- Houser, Frank C., to Nobles Engineering and Mfg. Co. Floor drier or the like. 185,204, 5-19-59, Cl. D9-2.
- Hoven, Alfred C.: *See*—  
Henrikson, Bror W., Hoven, Lindberg, and Nordmark. 186,894.
- Hoven, Alfred C., W. S. Lindberg, and W. E. Nordmark, to American Seating Co. Combined chair and desk. 185,868, 8-11-59, Cl. D33-11.
- Howard, Fred, to Copeland Self-Selectors Inc. Extensible display shelf unit for packages. 186,561, 11-3-59, Cl. D80-10.
- Howard, Rex D. Clip board. 185,285, 5-26-59, Cl. D74-1.
- Howard, Rex D. Clip board. 185,286, 5-26-59, Cl. D74-1.
- Howell, Clement R., to United States Rubber Co. Puffed textile fabric. 184,937, 4-21-59, Cl. D92-1.
- Howell, Clement R., to United States Rubber Co. Puffed textile fabric. 185,287, 5-26-59, Cl. D92-1.
- Howell, Clement R., to United States Rubber Co. Puffed textile fabric. 186,259, 9-29-59, Cl. D92-1.
- Howell, Clement R., and H. E. Goforth, to United States Rubber Co. Puffed textile fabric. 184,936, 4-21-59, Cl. D92-1.
- Hruby, John O., Jr., to J. Drew, G. W. Frasier, and J. O. Hruby, Jr. Shower head. 186,757, 11-24-59, Cl. D91-3.
- Hubbell, Harvey, Inc.: *See*—  
Carlson, Ernest R. 185,530.  
Carlson, Ernest R. 185,531.
- Huber, Alfred A. Golf club cleaning tool. 185,205, 5-19-59, Cl. D9-2.
- Hubert, Le Roy C. Jewelry finding. 186,240, 9-29-59, Cl. D45-1.
- Hubley Mfg. Co., The: *See*—  
Stella, Frank A. 185,583.
- Hughes Aircraft Co.: *See*—  
Beggy, Charles J. 186,697.
- Hughes, Frederick E. Fish lure. 185,149, 5-12-59, Cl. D31-4.
- Hughes, Jerome E. Lamp. 185,977, 8-25-59, Cl. D48-20.
- Hughes, Samuel J.: *See*—  
Moore, Pernel J., Hughes, Vaclavik, and Dunham. 186,243.
- Huguenin, Marc, to Montres Rolex S.A. Watch bracelet or similar article. 186,538, 11-3-59, Cl. D45-4.
- Hulbert, Ray E. Ball point pen. 185,150, 5-12-59, Cl. D74-17.
- Humbarger, Frank F.: *See*—  
Clemons, Roger A., and Humbarger. 185,593.
- Humphrey, Claude S.: *See*—  
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- Humphreys, Adolph H. Medal or similar article. 185,861, 8-11-59, Cl. D29-19.
- Humphreys, Adolph H. Medal or similar article. 185,862, 8-11-59, Cl. D29-19.
- Hunt, Guilbert M. Motor fuel dispenser. 184,256, 1-13-59, Cl. D52-2.
- Hunt, Guilbert M., to Tokheim Corp. Motor fuel dispenser. 184,734, 3-31-59, Cl. D52-2.
- Hunt, Guilbert M., to Tokheim Corp. Canopied motor fuel dispenser. 184,872, 4-14-59, Cl. D52-2.
- Hunt, William G. Beverage carton holder. 186,555, 11-3-59, Cl. D58-26.
- Hunter, Anne. Hair dye applicator. 184,735, 3-31-59, Cl. D86-10.
- Hunter, Arthur M. Game board. 186,714, 11-24-59, Cl. D34-5.
- Huntington Ice Cream Co.: *See*—  
Frank, Howard W. 185,839.
- Hupp, Arleigh G. Boat hull. 184,938, 4-21-59, Cl. D71-1.
- Hupp Corp.: *See*—  
Aitken, Douglas G. 186,007.  
Fiedler, George H., and Ewart. 186,006.
- Hurwitz, Julius. Soap dish. 184,353, 2-3-59, Cl. D4-3.
- Hurwitz, Julius. Wash-basin. 186,301, 10-13-59, Cl. D4-2.
- Husby, Donald E., and E. L. Izzi, to Westinghouse Electric Corp. Luminaire. 184,314, 1-27-59, Cl. D48-31.
- Husqvarna Vapenfabriks Aktiebolag: *See*—  
Andersson-Sason, Sixten. 186,918.
- Huss, William S.: *See*—  
Jones, Vincent C., Huss, and Krueger. 184,678.
- Hussmann Refrigerator Co.: *See*—  
Chapman, Frederick D., and Yamasaki. 184,851.
- Hutchens, Howard T. Rotatable sign. 185,082, 5-5-59, Cl. D1-12.
- Hutchins, Charles E., to Bowser, Inc. Gasoline pump. 186,726, 11-24-59, Cl. D52-2.
- Hutt, Donald J.: *See*—  
Katzfey, James M., and Hutt. 186,676.
- Hvale, James L., to Ekco Products Co. Cover knob. 185,912, 8-18-59, Cl. D44-29.
- Hvale, James L., to Ekco Products Co. Cutlery holder. 186,394, 10-20-59, Cl. D44-29.
- Hvale, James L., to Ekco Products Co. Cutlery holder. 186,395, 10-20-59, Cl. D44-29.
- Hvale, James L., and W. F. Meara, to Ekco Products Co. Soap dish. 184,873, 4-14-59, Cl. D4-3.
- Hycon Mfg. Co.: *See*—  
Evans, Elmo T., and White. 184,279.
- Hyde, A. R., & Sons Co.: *See*—  
Hyde, Ralph A. 185,498.
- Hyde, Ralph A., to A. R. Hyde & Sons Co. Track shoe. 185,498, 6-16-59, Cl. D7-7.
- Hyde, Robert W. Head of a putter. 185,002, 4-28-59, Cl. D34-5.
- Hysan Products Co.: *See*—  
Brownstein, Henry J. 184,418.  
Brownstein, Henry J. 184,419.
- Hyster Co.: *See*—  
Ehmann, Leslie G. 184,670.
- I-T-E Circuit Breaker Co.: *See*—  
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- Ideal Industries, Inc.: *See*—  
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- Ideal Toy Corp.: *See*—  
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- Ikeda, Frank Y. Collapsible jug support. 186,415, 10-20-59, Cl. D58-26.
- Ilenin, Frank A.: *See*—  
Saporito, Dominic A., Ilenin, and Hertzler. 186,959.
- Ilenin, Frank A., P. J. Petlewski, M. H. Polhemus, G. W. Severson, and R. G. Plantholt, to General Dynamics Corp. Combined hat rack and control panel units for an aircraft. 186,479, 10-27-59, Cl. D71-1.
- Independent Lock Co.: *See*—  
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- Industrial Nucleonics Corp.: *See*—  
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- Schlaechter, John H. 184,834.
- Industrial Specialties: *See*—  
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- Inland Engineering, Inc.: *See*—  
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- Inlow, Robert S.: *See*—  
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Powell, James M., Inlow, Uyeda, and Fujioka. 185,511.  
Uyeda, Tim M., Inlow, Powell, and Fujioka. 185,051.
- Inoue, Takeshi, to Noritake Co., Inc. Plate or similar article. 184,813, 4-7-59, Cl. D44-15.
- Insul-8-Corp.: *See*—  
Scofield, Donald H. 185,855.  
Scofield, Donald H. 185,856.  
Scofield, Donald H. 186,072.
- Intelix Systems Inc.: *See*—  
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- Interchemical Corp.: *See*—  
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- International Business Machines Corp.: *See*—  
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- International Harvester Co.: *See*—  
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- International Latex Corp.: *See*—  
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- International Silver Co., The: *See*—  
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- International Steel Co.: *See*—  
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- Iomado N.Y.: *See*—  
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- Irwin, Maude L. E. Washboard. 184,257, 1-13-59, Cl. D49-1.
- Izzi, Edmund L.: *See*—  
Husby, Donald E., and Izzi. 184,314.
- Izzi, Edmund L., and E. B. Karns, to Westinghouse Electric Corp. Luminaire. 186,130, 9-15-59, Cl. D48-31.
- J. F. D. Mfg. Co., Inc.: *See*—  
Mirrione, James J. 185,795.
- Jablin, Morton J., to Lace Art, Inc. Lace fabric. 184,939, 4-21-59, Cl. D47-6.
- Jachetta, Anthony W. Jewelry case. 186,829, 12-8-59, Cl. D58-13.
- Jackle, Erwin K., and G. Collatz. Snare for eggs and the like. 186,947, 12-29-59, Cl. D34-5.
- Jackman, Erwin B. Collar. 185,781, 8-4-59, Cl. D3-8.
- Jackson, Alban G.: *See*—  
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Bradd, Sidney H., Jr., and Jackson. 185,120.  
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- Jackson, Edna J. Set of musical educational cards. 185,552, 6-23-59, Cl. D34-5.
- Jackson, Wilbur F., to Robertshaw-Fulton Controls Co. Thermocouple. 186,314, 10-13-59, Cl. D26-1.
- Jacobs, Kenneth C. Game board. 185,003, 4-28-59, Cl. D34-5.
- Jacobsen Mfg. Co.: *See*—  
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- Jacobsen, Ralph T.: *See*—  
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- Jacoby-Bender, Inc.: *See*—  
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- Jaeger, Adolf, to Federal Chain Co. Ornamental chain. 185,083, 5-5-59, Cl. D45-16.
- Jahn, Frank C., to Intelux Systems Inc. Microphone housing. 186,603, 11-10-59, Cl. D26-14.
- Jahncke, Harry H. Combined weed cutter, weeder fork and basket remover hook. 186,035, 9-1-59, Cl. D35-2.
- James Industries, Inc.: *See*—  
Albert, Bernard. 184,553.  
Harriman, John M. 185,497.
- James, George T., to Gladding, McBean & Co. Pitcher or the like. 184,814, 4-7-59, Cl. D44-21.
- James, George T., to Gladding, McBean & Co. Coffee pot or similar article. 184,874, 4-14-59, Cl. D44-26.
- James, Norman J., to General Motors Corp. Automobile. 185,843, 8-11-59, Cl. D14-3.
- Jaworski, Charles J., to Royal McBee Corp. Typewriter. 185,819, 8-4-59, Cl. D64-11.
- Jaybee Mfg. Corp.: *See*—  
Borenstein, Jake. 184,506.
- Jefferson Electric Co.: *See*—  
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- Jenkins, Alfred F., to Midwestern Instruments, Inc. Oscillograph. 184,736, 3-31-59, Cl. D26-1.
- Jenkins, Alfred F., to Midwestern Instruments, Inc. Magnetic tape recorder. 185,206, 5-19-59, Cl. D26-14.
- Jenkins, Alfred F., to Midwestern Instruments, Inc. Oscillograph. 185,207, 5-19-59, Cl. D26-5.
- Jenkins, George H., III, to The Gates Rubber Co. Automobile floor mat or the like. 185,084, 5-5-59, Cl. D9-6.
- Jenkins, Micah. Set of educational tiles. 184,396, 2-10-59, Cl. D25-1.
- Jennings, Webb C., I. T. Swartwood, and R. A. Sampson. Handle for bottle type containers. 184,315, 1-27-59, Cl. D58-26.
- Jensen, William A. Golfing vehicle, or similar article. 185,753, 7-28-59, Cl. D14-3.
- Jerabek, Charles A.: *See*—  
Spilman, Raymond, Engel, and Jerabek. 184,496.  
Spilman, Raymond, Jerabek, and Engel. 186,740.
- Johns, Stanley K., to St. Lawrence Mfg. Co. Inc. Skate guard. 185,967, 8-25-59, Cl. D34-15.
- Johnson, Arvid. Panelled building block. 186,371, 10-20-59, Cl. D18-2.
- Johnson Bros. (Hanley) Ltd.: *See*—  
Stone, Gerald S. 184,464.  
Stone, Gerald S. 184,586.  
Stone, Gerald S. 184,587.  
Stone, Gerald S. 185,244.  
Stone, Gerald S. 185,330.
- Johnson, Carl N., to General Electric Co. Clock or similar article. 186,780, 12-1-59, Cl. D42-7.
- Johnson, Clifford V., and A. Salm, to Arthur Salm, Inc. Serving spoon or the like. 185,288, 5-26-59, Cl. D54-12.
- Johnson, Elmer C., to The Vendo Co. Frame for vending machines. 185,365, 6-2-59, Cl. D52-3.
- Johnson, Elmer C., to The Vendo Co. Coffee vending machine cabinet. 185,437, 6-9-59, Cl. D52-3.
- Johnson, Fred J. Truck tire bead breaker. 186,567, 11-3-59, Cl. D93-4.
- Johnson, John P., to Corning Glass Works. Food mixing bowl. 184,875, 4-14-59, Cl. D44-15.
- Johnson & Johnson: *See*—  
Alvey, Charles R. 185,526.  
Arrix, Robert J. 186,496-186,500.  
Gershen, Irvin J. 186,343.  
Michael, John R., and Fiorentini. 186,920.
- Johnson, Paul R.: *See*—  
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- Johnson, Rush M., Jr., to The B. F. Goodrich Co. Tire. 185,896, 8-11-59, Cl. D90-20.
- Johnson, Thomas M.: *See*—  
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- Johnson, Wallace T., to Amerock Corp. Pull. 185,604, 6-30-59, Cl. D50-3.
- Johnson, Wallace T., to Amerock Corp. Pull. 185,814, 8-4-59, Cl. D50-3.
- Jolly, John G., to NuTone, Inc. Electric clock. 185,366, 6-2-59, Cl. D42-7.
- Jolly, John G., to NuTone, Inc. Door chime signal housing. 186,294, 10-6-59, Cl. D72-1.
- Jolly, John G., to NuTone, Inc. Combined clock face and chime signal housing. 186,899, 12-22-59, Cl. D42-7.
- Jones, Calvite L., and J. B. Taylor, III, to American Flange and Mfg. Co., Inc. Combination closure cap and pouring spout. 185,754, 7-28-59, Cl. D58-26.
- Jones, Carl Jr.: *See*—  
Bauman, Merritt R., Downham, Jones, and Paus. 185,957.
- Jones, Charles E.: *See*—  
Crowle, Robert H., and Jones. 185,069.
- Jones, Charles E., and W. G. Crowle. Skate strap. 184,397, 2-10-59, Cl. D34-14.
- Jones, Charles E., and W. G. Crowle, to Manning Mfg. Corp. Skate strap. 184,398, 2-10-59, Cl. D34-14.
- Jones, Charles E., and W. G. Crowle, to American Photocopy Equipment Co. Photographic copy machine. 185,668, 7-14-59, Cl. D61-1.
- Jones, Charles E., and Associates, Inc.: *See*—  
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- Jones, Daniel C., to Koehring Co. Material handling truck. 185,438, 6-9-59, Cl. D14-3.
- Jones, Herbert L. Altar or similar article. 185,151, 5-12-59, Cl. D29-23.
- Jones, Herbert L. Altar or similar article. 185,152, 5-12-59, Cl. D29-23.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 184,940, 4-21-59, Cl. D54-12.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 184,941, 4-21-59, Cl. D54-12.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 184,942, 4-21-59, Cl. D54-12.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 185,085, 5-5-59, Cl. D54-12.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 185,208, 5-19-59, Cl. D54-12.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 185,209, 5-19-59, Cl. D54-12.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 185,210, 5-19-59, Cl. D54-12.
- Jones, Kae E., to Welling Ware, Inc. Spoon or similar article. 185,211, 5-19-59, Cl. D54-12.
- Jones, Lawrence E.: *See*—  
Overholser, John S., Bean, Jones, and Wilcox. 185,459.
- Jones, Norvel H. Bird feeding station. 184,737, 3-31-59, Cl. D31-2.
- Jones, Robert C. Kite. 186,897, 12-22-59, Cl. D34-15.
- Jones, Vincent C., W. S. Huss, and A. S. Krueger, to American Can Co. Dispenser for toilet tissue rolls. 184,678, 3-24-59, Cl. D4-3.
- Jorgensen, Irving W. Combined scraper and brush. 184,943, 4-21-59, Cl. D9-6.
- Jorgensen, Irving W. Combined scraper and brush. 186,938, 12-29-59, Cl. D9-2.
- Jorgenson, Robert A., to Rena-Ware Distributors. Salad mixer. 186,836, 12-8-59, Cl. D89-1.
- Joseloff, Stanley. Combined loud speaker and illuminable display sign unit. 186,492, 11-3-59, Cl. D1-12.
- Joseph, Stanley M. Barbecue unit. 184,876, 4-14-59, Cl. D81-10.
- Josephson, Gilbert. Toy cradle or similar article. 184,738, 3-31-59, Cl. D34-15.
- Josephson, Gilbert. Combined cornucopia and candleholder. 184,815, 4-7-59, Cl. D48-2.



- Joy Mfg. Co.: *See*—  
Hildebrandt, Edward J. 186,634.  
Russell, John D. and Johnson. 185,174.  
Swan, Raymond A. 184,294.
- Joyce, Edward F., 3rd. Storage and shipping tray for containers. 184,354, 2-3-59, Cl. D58-13.
- Judson, William V., to General Electric Co. Combined dial and hands for clock or similar article. 184,355, 2-3-59, Cl. D42-1.
- Judson, William V., to General Electric Co. Clock or similar article. 186,457, 10-27-59, Cl. D42-7.
- Judson, William V., to General Electric Co. Clock or similar article. 186,458, 10-27-59, Cl. D42-7.
- Judson, William V., to General Electric Co. Clock or similar article. 186,531, 11-3-59, Cl. D42-7.
- Junior Achievement of Northern Delaware, Inc.: *See*—  
Gilruth, James A. 186,672.
- Junkunc, Bela B. Chair. 186,103, 9-15-59, Cl. D15-1.
- Kaake, Irvin N. Wall mounted aquarium. 185,831, 8-4-59, Cl. D91-2.
- Kabushiki Kaisha Tamura Denki Seisakusho: *See*—  
Aikawa, Chuta. 184,700.  
Aikawa, Chuta. 185,729.
- Kadlec, Joseph J. Overshoe. 185,289, 5-26-59, Cl. D7-4.
- Kaestner, Paul T., to J. W. Fecker, Inc. Dome for a telescope or the like. 185,669, 7-14-59, Cl. D13-1.
- Kagan, Vladimir. Upright chair or similar article. 186,307, 10-13-59, Cl. D15-1.
- Kahn, David, deceased, by H. Yager, and J. M. and S. Kahn, executors, to David Kahn, Inc. Cap for a writing instrument or a similar article. 185,932, 8-18-59, Cl. D74-17.
- Kahn, David, to David Kahn, Inc. Writing instrument. 186,059, 9-1-59, Cl. D74-17.
- Kahn, David, Inc.: *See*—  
Kahn, David. 185,932.  
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Kahn, Julius M. 184,484.
- Kahn, Julius M.: *See*—  
Kahn, David. 185,932.
- Kahn, Julius M., to David Kahn, Inc. Packing box for a writing instrument and replacement cartridges therefor, or similar articles. 184,484, 2-24-59, Cl. D53-13.
- Kahn, Samuel: *See*—  
Kahn, David. 185,932.
- Kahney, Jack D., to United States Rubber Co. Breathable polymer coated fabric. 184,230, 1-6-59, Cl. D92-1.
- Kahney, Jack D., to United States Rubber Co. Breathable polymer coated fabric. 184,231, 1-6-59, Cl. D92-1.
- Kahney, Jack D., to United States Rubber Co. Breathable polymer coated fabric. 184,258, 1-13-59, Cl. D92-1.
- Kaiser, Arthur E. Illuminated traffic signalling and directing unit. 185,605, 6-30-59, Cl. D72-1.
- Kaiya, Kiyoyoshi: *See*—  
Someha, Keiichi, and Kaiya. 186,337.
- Kalish, Victor A., 50% to M. Harley. Therapeutic vibrator or the like. 186,751, 11-24-59, Cl. D83-1.
- Kallman, Robert I.: *See*—  
De Fano, Dominic J., and Kallman. 184,608.
- Kamp, George B., to The Astatic Corp. Microphone. 185,712, 7-21-59, Cl. D26-14.
- Kampf, Richard S., to Minneapolis-Honeywell Regulator Co. Recording oscillograph. 185,713, 7-21-59, Cl. D26-14.
- Kaneko, Itaru: *See*—  
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- Kanter, Eugene L. Toothbrush and toothpaste holder. 184,739, 3-31-59, Cl. D4-3.
- Kaplan, Abraham. Textile fabric or similar article. 186,934, 12-22-59, Cl. D92-1.
- Karns, Edgar B.: *See*—  
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- Kartveli, Alexander, and W. J. O'Donnell, to Republic Aviation Corp. Airplane. 186,635, 11-10-59, Cl. D71-1.
- Kather, Alfred C. Tethered ball game apparatus. 186,526, 11-3-59, Cl. D34-15.
- Katz, Adolph, to Coro, Inc. Jewelry closing or the like. 184,816, 4-7-59, Cl. D45-1.
- Katz, Adolph, to Coro, Inc. Jewelry closing or the like. 184,817, 4-7-59, Cl. D45-1.
- Katz, Adolph, to Coro, Inc. Jewelry closing or the like. 184,818, 4-7-59, Cl. D45-1.
- Katz, Adolph. Watch or similar article. 185,969, 8-25-59, Cl. D42-8.
- Katz, Adolph, to Coro, Inc. Watch or similar article. 186,390, 10-20-59, Cl. D45-4.
- Katz, Adolph, to Coro, Inc. Watch or similar article. 186,397, 10-20-59, Cl. D45-4.
- Katz, Adolph, to Coro, Inc. Watch or similar article. 186,398, 10-20-59, Cl. D45-4.
- Katz, Adolph. Watch or similar article. 186,534, 11-3-59, Cl. D42-8.
- Katzenberger, Edward F.: *See*—  
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- Katzfey, James M., to H. K. Porter Co. (Delaware). Motor hand saw. 185,439, 6-9-59, Cl. D93-3.
- Katzfey, James M., and D. J. Hutt, to H. K. Porter Co., Inc. Motor-driven hedge trimmer. 186,676, 11-17-59, Cl. D40-1.
- Kaufman, Sol P., to Speidel Corp. Expansible chain for a bracelet or similar article. 185,916, 8-18-59, Cl. D45-4.
- Kaufman, Sol P., to Speidel Corp. End link for a bracelet or similar article. 186,048, 9-1-59, Cl. D45-4.
- Kaufman, Sol P., to Speidel Corp. Expansible chain for a bracelet or similar article. 186,050, 9-1-59, Cl. D45-4.
- Kaufman, Sol P., to Speidel Corp. End link for a bracelet or similar article. 186,539, 11-3-59, Cl. D45-4.
- Kaufman, Sol P., to Speidel Corp. End link for a bracelet or similar article. 186,540, 11-3-59, Cl. D45-4.
- Kawa, Junnosuke, Y. Akioka, and I. Kaneko, to Seiko Electric Instrument Industry Co., Ltd. Exposure meter. 185,885, 8-11-59, Cl. D61-1.
- Kaye, Bess. Bib. 184,399, 2-10-59, Cl. D3-26.
- Kaye, Bess. Bib. 184,400, 2-10-59, Cl. D3-26.
- Kaye, Bess. Child's feeding spoon. 184,944, 4-21-59, Cl. D54-12.
- Kaye, Bess. Apron. 185,367, 6-2-59, Cl. D3-27.
- Kaye, Bess. Apron. 185,368, 6-2-59, Cl. D3-27.
- Kaye, Jack, to Abco Metal Creations, Inc. Combined planter bowl and stand. 184,877, 4-14-59, Cl. D35-3.
- Keal, John J., to Modeline Co. of California Inc. Lamp. 186,619, 11-10-59, Cl. D48-20.
- Keck, Henry C.: *See*—  
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- Keck, Henry C., B. M. Craig, and T. K. Hale, to Dispensers, Inc. Dispenser for condiments, or similar article. 184,567, 3-10-59, Cl. D44-22.
- Keefe, Jack. Combined electric broiler, grille and toaster. 186,419, 10-20-59, Cl. D81-10.
- Kehl, Howard A. Slip-on belt billfold. 185,944, 8-18-59, Cl. D87-3.
- Kehl, Howard A. Slip-on belt billfold. 186,353, 10-13-59, Cl. D87-3.
- Keller, John R., and R. R. Kelly, to Clever Things Inc. Illuminable beanie. 186,013, 9-1-59, Cl. D3-13.
- Kelley, Athol A., to The Upjohn Co. Dispensing container for tablets, capsules and the like. 186,725, 11-24-59, Cl. D52-2.
- Kellogg, Edward N. Fish lure. 185,864, 8-11-59, Cl. D31-4.
- Kellogg, Thomas W., to Sawyer's Inc. Stereoscopic slide viewer. 184,356, 2-3-59, Cl. D57-7.
- Kellogg, Thomas W., to Sawyer's Inc. Stereoscopic viewer. 185,670, 7-14-59, Cl. D61-1.
- Kelly, Joe T., and H. C. Leoncini. Combined knife and flashlight. 184,623, 3-17-59, Cl. D22-3.
- Kelly, Russell R.: *See*—  
Keller, John R., and Kelly. 186,013.
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- Kendall, Ray E. and J. E. Self-measuring pouring spout glass jar top. 185,369, 6-2-59, Cl. D58-26.
- Kenitz, Jack E., to Chrysler Corp. Combined bumper and grill unit for an automobile. 184,485, 2-24-59, Cl. D14-18.
- Kenitz, Jack E., and R. F. Baird, to Chrysler Corp. Fender for an automobile. 185,553, 6-23-59, Cl. D14-6.
- Kenmar Mfg. Co. The: *See*—  
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- Kennedy, John P., to Industrial Nucleonics Corp. Industrial gauging head for detecting material properties. 186,549, 11-3-59, Cl. D52-1.
- Kent, Elizabeth S., to Scovill Mfg. Co. Lipstick container. 185,828, 8-4-59, Cl. D86-10.
- Kerkovius, Ruth, to Chicopee Mills, Inc. Puffed textile fabric. 184,878, 4-14-59, Cl. D92-1.
- Kermes, Constantine J., to Sperry Rand Corp. Hay baler. 184,568, 3-10-59, Cl. D40-1.
- Kermes, Constantine J., and W. Vutz, to Sperry Rand Corp. Harvester. 186,456, 10-27-59, Cl. D40-1.
- Kerpel, Julius A. Telephone index. 186,637, 11-10-59, Cl. D74-1.
- Kerpel, Julius A. Telephone index. 186,638, 11-10-59, Cl. D74-1.
- Kerr, Roger B., to General Electric Co. Panel meter. 184,740, 3-31-59, Cl. D52-1.
- Ketcham and McDougall, Inc.: *See*—  
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- Kiefer, Walter J., to Belvedere Products Inc. Shampoo bowl. 185,949, 8-25-59, Cl. D4-2.
- Kilham, Charles O. Fountain brush for applying adhesive or the like. 184,741, 3-31-59, Cl. D9-2.
- King, Buford M., Jr., to The Upjohn Co. Display stand for packaged merchandise or the like. 185,763, 7-28-59, Cl. D80-9.
- King, James M. Flower holder. 184,569, 3-10-59, Cl. D35-3.
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- King, Marvin, and C. A. Steidtmann, to Shwyder Brothers, Inc. Folding chair. 186,505, 11-3-59, Cl. D15-1.



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- King, William R., to Minneapolis-Honeywell Regulator Co. Connector. 186,484, 10-27-59, Cl. D26—1.
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- Kinniburgh, David M. Animal figure. 186,323, 10-13-59, Cl. D34—2.
- Kinosian, Haig M. Clock. 185,370, 6-2-59, Cl. D42—7.
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- Kirk, Samuel, & Son, Inc.: *See*—  
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- Kirkbride, Alec B., to B. Elliott & Co. Ltd. Electric drill unit. 184,624, 3-17-59, Cl. D54—14.
- Kirkeby, David H., to L. D. Dunn. Building or the like. 184,441, 2-17-59, Cl. D13—1.
- Kirkpatrick, Marie A., to Lullabye Furniture Corp. Crib. 185,153, 5-12-59, Cl. D5—5.
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- Kizler, Albert. Display holder for plates or the like. 185,826, 8-4-59, Cl. D80—9.
- Kjer Jakobsen, Robert E., to Virtue Bros. Mfg. Co. Table leg. 185,671, 7-14-59, Cl. D33—14.
- Klages, John W., to The Columbus Auto Parts Co. Boat ladder. 185,212, 5-19-59, Cl. D15—8.
- Klages, John W., to The Columbus Auto Parts Co. Carrier for outboard motor. 185,755, 7-28-59, Cl. D14—3.
- Klasgo Mfg. Co.: *See*—  
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- Klauber, Roger. Lace fabric or similar article. 184,625, 3-17-59, Cl. D47—6.
- Klaus, Samuel. Necktie. 185,783, 8-4-59, Cl. D3—16.
- Klaus, Samuel. Necktie. 185,784, 8-4-59, Cl. D3—16.
- Klauss, Howard F., to Klasgo Mfg. Co. Toy water mill. 184,626, 3-17-59, Cl. D34—15.
- Klein, Bert J., and A. Bus, to The Lane Co., Inc. Table top or similar article. 185,371, 6-2-59, Cl. D33—14.
- Klein, Bert J., and A. Bus, to The Lane Co., Inc. Table top or similar article. 185,372, 6-2-59, Cl. D33—14.
- Klein, Bert J., and A. Bus, to The Lane Co., Inc. Table top or similar article. 186,519, 11-3-59, Cl. D33—14.
- Klein, Edward, to Belvedere Products Inc. Beauty parlor chair. 186,879, 12-22-59, Cl. D15—3.
- Klein, Victor S., to T. R. Ewart. Candy egg dispenser. 185,499, 6-16-59, Cl. D34—2.
- Klein, William H. Triangulator range finder. 185,981, 8-25-59, Cl. D52—1.
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- Knoll, Florence S., to Knoll Associates, Inc. Chair or similar article. 186,308, 10-13-59, Cl. D15—1.
- Knowles, Alvis R., to Ungar Electric Tools, Inc. Soldering tool holder. 186,220, 9-29-59, Cl. D26—1.
- Knowles, Beryl B., to Fairfield Optical Co. Pair of spectacles. 186,912, 12-22-59, Cl. D57—1.
- Knowles, Frederick G., to Eastman Kodak Co. Motion-picture projector. 185,500, 6-16-59, Cl. D61—1.
- Knowles, Frederick G., to Eastman Kodak Co. Motion-picture camera. 185,501, 6-16-59, Cl. D61—1.
- Knowles, Frederick G., to Eastman Kodak Co. Motion picture camera. 185,928, 8-18-59, Cl. D61—1.
- Knowles, Frederick G., to Eastman Kodak Co. Motion picture camera. 185,996, 8-25-59, Cl. D61—1.
- Knowles, Frederick G., and J. K. Hockenberry, to Eastman Kodak Co. Motion-picture camera. 185,606, 6-30-59, Cl. D61—1.
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- Koch, Samuel J. Split core voltmeter-ammeter. 184,402, 2-10-59, Cl. D26—1.
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- Koch, Walter L., to Rowe Mfg. Co., Inc. Multiple column candy merchandising machine cabinet. 185,086, 5-5-59, Cl. D52—3.
- Koch, Walter L., to Rowe Mfg. Co., Inc. Manually operated cigarette merchandising machine cabinet. 185,087, 5-5-59, Cl. D52—3.
- Koch, Walter L., to Rowe Mfg. Co., Inc. General merchandising machine cabinet. 186,285, 10-6-59, Cl. D52—3.
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- Kohler, Herbert V., to Kohler Co. Lavatory fitting or similar article. 185,503, 6-16-59, Cl. D91—3.
- Kohler, Herbert V., to Kohler Co. Combination faucet handle and escutcheon or similar article. 186,422, 10-20-59, Cl. D91—3.
- Kolker, Leona G., to Congoleum-Nairn Inc. Hard surface floor covering or similar article. 186,151, 9-15-59, Cl. D92—17.
- Kolker, Leona G., and H. A. Shortway, to Congoleum-Nairn Inc. Hard surface floor covering or similar article. 186,207, 9-22-59, Cl. D92—17.
- Kollmann, Karl J. Sewer cleaning machine. 186,581, 11-10-59, Cl. D9—2.
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- Kopka, Donald F., to Chrysler Corp. Combined bumper, grille and lamp unit for an automobile. 184,486, 2-24-59, Cl. D14—18.
- Kopp, John. Stilt. 186,277, 10-6-59, Cl. D34—5.
- Kopp, Philip E. Wall tile. 185,004, 4-28-59, Cl. D18—2.
- Koret, Samuel. Handbag frame. 186,150, 9-15-59, Cl. D87—2.
- Kosiba, Chester M. Vehicle emblem plate. 186,016, 9-1-59, Cl. D14—6.
- Koskinen, Onni S. Metal sheet. 185,373, 6-2-59, Cl. D54—2.
- Koss, Inc.: *See*—  
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- Koster, Walter, to S. M. Frank & Co. Inc. Smoker's pipe. 184,945, 4-21-59, Cl. D85—8.
- Kotkins, Henry L. Luggage handle. 185,641, 7-7-59, Cl. D87—2.
- Kotler, Max, and R. V. Nicolosi, to Elgeet Optical Co., Inc. Portable combined motion picture projector and screen. 186,696, 11-17-59, Cl. D61—1.
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- Kovach, Leslie J., to Foster Grant Co. Inc. Combined display and dispensing rack for sunglasses or the like. 184,743, 3-31-59, Cl. D80—10.
- Kovacs, Joseph. Jewelry pendant or the like. 185,290, 5-26-59, Cl. D45—17.
- Kozinski, Richard R. Air brake hose coupling or similar article. 186,198, 9-22-59, Cl. D66—1.
- Kraemer, William F., to J. A. Meyers and Co., Inc. Money clip or similar article. 184,679, 3-24-59, Cl. D17—3.
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- Kravis, Murray V. Electronic components templet or similar article. 184,442, 2-17-59, Cl. D52—1.
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- Krone, Martin, to Pyro Plastics Corp. Golf ball box. 184,403, 2-10-59, Cl. D58—13.
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- Kubota, Tsugio, to Schlage Lock Co. Escutcheon plate for a door knob. 185,005, 4-28-59, Cl. D50—6.
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- Kuehl, Ernest M. Fishing bait. 184,443, 2-17-59, Cl. D31—4.
- Kuepfer, Ernest R. Pile fabric floor covering. 184,523, 3-3-59, Cl. D92—4.
- Kuhn, James O., to Bromo Mint Co. Game to test dexterity. 184,570, 3-10-59, Cl. D34—5.
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- Kuster, Harry B., to Convento Mfg. Co., Inc. Dispensing trailer or similar article. 184,819, 4-7-59, Cl. D14-3.
- Kux, Frank, to Bell Aircraft Corp. Aircraft. 186,962, 12-29-59, Cl. D71-1.
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- Lager, Edward J., to Lager Mfg. & Supply Co. Burial vault. 186,019, 9-1-59, Cl. D19-1.
- Lager, Edward J., to Lager Mfg. & Supply Co. Burial vault. 186,020, 9-1-59, Cl. D19-1.
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Lager, Edward J. 186,020.
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- La Grutta, Pascal. Handbag. 185,155, 5-12-59, Cl. D87-3.
- Lakatos, John J. Pencil. 186,924, 12-22-59, Cl. D74-24.
- Lakin, Willis M., to Marlin Toy Products, Inc. Toy piano. 184,444, 2-17-59, Cl. D34-15.
- Lakin, Willis M., to Marlin Toy Products, Inc. Figure toy. 186,452, 10-27-59, Cl. D34-15.
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- Lam, William M. C., to Lam Inc. Fluorescent lighting fixture. 185,918, 8-18-59, Cl. D48-4.
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- Lamont, Ebenezer N.,  $\frac{1}{2}$  to L. M. Flaskerud. Ash tray. 185,291, 5-26-59, Cl. D85-2.
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- Lane, James M., to United States Rubber Co. Pneumatic tire. 185,554, 6-23-59, Cl. D90-20.
- Lane, James M., and R. W. Vance, to United States Rubber Co. Pneumatic tire. 185,441, 6-9-59, Cl. D90-20.
- Lange, William F., to General Motors Corp. Automobile. 184,879, 4-14-59, Cl. D14-3.
- Lange, William F., to General Motors Corp. Wheel cover. 184,946, 4-21-59, Cl. D14-30.
- Lange, William F., to General Motors Corp. Wheel cover. 184,947, 4-21-59, Cl. D14-30.
- Lange, William F., to General Motors Corp. Automobile. 185,213, 5-19-59, Cl. D14-3.
- Langevin, Llyod P. Soft drink dispenser. 185,006, 4-28-59, Cl. D2-3.
- Langhjem, Henrik G., M. King, and M. Ferar, to Schwydter Brothers, Inc. Arm chair. 184,820, 4-7-59, Cl. D15-1.
- Lanier, Ruth A. Panel for walls, ceilings, screens, and the like. 185,504, 6-16-59, Cl. D13-1.
- Lanigan, Richard W., to Bell & Howell Co. Still picture projector. 185,994, 8-25-59, Cl. D61-1.
- Lannon, John D. Kitchen drafting template. 186,283, 10-6-59, Cl. D52-1.
- Lantieri, Omer G. Airplane. 186,251, 9-29-59, Cl. D71-1.
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- Lapp, Emil, to E. Lapp & Co. AG. Booster pump for hot water systems. 186,557, 11-3-59, Cl. D65-1.
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Goforth, Henry E., and Larsen. 184,928.
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- Larson, George G., to Paper Mate Mfg. Co. Ball point pen. 185,292, 5-26-59, Cl. D74-17.
- Larson, Joseph A., and A. F. Gabower, to Sparta Brush Co., Inc. Brush head. 186,760, 12-1-59, Cl. D9-2.
- Larson, Karl O. Utility cart. 184,571, 3-10-59, Cl. D14-3.
- Larson, Karl O. Utility stand for office machines. 186,213, 9-29-59, Cl. D14-3.
- Lashner, Ida M. Figurine. 186,893, 12-22-59, Cl. D29-23.
- Lasting, Hyman B. Arm band. 185,782, 8-4-59, Cl. D3-10.
- Laszlo, Stephen E. Combined barometer, thermometer and hygrometer. 186,727, 11-24-59, Cl. D52-7.
- Latham, Anne C., and G. W. Sheehan. Corn serving dish. 185,607, 6-30-59, Cl. D44-15.
- Latham, Richard S., to Ekco Products Co. Spoon or similar article. 184,572, 2-10-59, Cl. D54-12.
- Latham, Richard S., to Ekco Products Co. Spoon. 185,088, 5-5-59, Cl. D44-29.
- Latham, Richard S., to Ekco Products Co. Culinary turner. 185,089, 5-5-59, Cl. D44-29.
- Latham, Richard S., to Ekco Products Co. Handle for kitchen tools and similar articles. 185,090, 5-5-59, Cl. D44-29.
- Latham, Richard S., to Ekco Products Co. Handle for kitchen utensils and similar articles. 185,913, 8-18-59, Cl. D44-29.
- Latham, Richard S., to Ekco Products Co. Culinary beater. 185,970, 8-25-59, Cl. D44-1.
- Latham, Richard S., to Ekco Products Co. Holder for culinary implements and the like. 185,972, 8-25-59, Cl. D44-29.
- Latham, Richard S., to Ekco Products Co. Cutlery holder. 186,396, 10-20-59, Cl. D44-29.
- Lathrop, Henry T.: *See*—  
Yonkers, Robert A., and Lathrop. 186,360.
- Latorre, Robert J.: *See*—  
Meyer, Earl W., Jr., Seubert, and Latorre. 186,666.
- Lauck, John A., to Clark Equipment Co. Pump housing. 186,558, 11-3-59, Cl. D65-1.
- Laue, Henry De S., to Fairbanks, Morse & Co. Counter scale. 186,286, 10-6-59, Cl. D52-10.
- Laue, Henry De S., to Fairbanks, Morse & Co. Health scale. 186,287, 10-6-59, Cl. D52-10.
- Laue, Henry De S., to Fairbanks, Morse & Co. Power lawn mower. 186,455, 10-27-59, Cl. D40-1.
- Laue, Henry De S., to Fairbanks, Morse & Co. Head for a weighing scale. 186,685, 11-17-59, Cl. D52-10.
- Laue, Henry De S., to Fairbanks, Morse & Co. Portable platform scale. 186,686, 11-17-59, Cl. D52-10.
- Laux, Anna M., to Zwicker Knitting Mills. Glove. 185,156, 5-12-59, Cl. D3-11.
- Laux, Anna M., to Zwicker Knitting Mills. Glove. 185,157, 5-12-59, Cl. D3-11.
- Laws, Roy D.: *See*—  
Phillips, Truman E., and Laws. 186,562.
- Lawser, Mary L. Toy animal figure. 184,359, 2-3-59, Cl. D34-2.
- Lawson, F. H., Co., The: *See*—  
Lumley, Maurice C. 185,674.
- Lax, Michael S., to Kromex Corp. Beverage dispenser. 186,237, 9-29-59, Cl. D44-26.
- La Zar, Ralph M.: *See*—  
Sandin, Ray C., and La Zar. 186,628.
- Lazarus, Gerald S., to Tri Square Products Inc. Bookmark. 184,628, 3-17-59, Cl. D6-2.
- Lazy Boy Lawn Mower Co., Inc.: *See*—  
Bernard, George R. 184,704.
- Leas, Jesse C. Toy balloon. 185,007, 4-28-59, Cl. D34-15.
- Leasure, William C., to Mira-Pak, Inc. Former for packaging machine. 186,133, 9-15-59, Cl. D55-1.
- Leblanc, G. Corp.: *See*—  
Lowry, Robert E. 185,985.
- Le Bron, Richard C. Automobile radiator grille and housing. 185,791, 8-4-59, Cl. D14-18.
- Lee, George L., to Red Devil Tools. Floor polishing machine. 184,744, 3-31-59, Cl. D9-2.
- Lee, Richard E.: *See*—  
Montmeat, Richard, and Lee. 185,226.  
Montmeat, Richard, and Lee. 185,306.
- Le Febure Corp.: *See*—  
Talley, John L. 186,559.
- Legan, Walter V. Electrical wall plate. 186,110, 9-15-59, Cl. D26-13.
- Leger, Ray E. Boat. 186,481, 10-27-59, Cl. D71-1.
- Lehmann, Albert F., to SESCO Inc. Combination cradle and power-driven straightener for coiled sheet metal. 185,556, 6-23-59, Cl. D54-14.
- Leigh, Frederick H., to The Singer Mfg. Co. Stitch indicator plate for sewing machines. 185,756, 7-28-59, Cl. D70-2.
- Leighton, Joseph T. Gas lighter for a fireplace, barbecue or the like. 186,346, 10-13-59, Cl. D81-25.
- Leitner Equipment Co.: *See*—  
Spring, Theodore L. 186,641.
- Leja, Casimir E. Seat for tractors or the like. 184,360, 2-3-59, Cl. D14-6.
- Lemler, Le Roy P., to Amity Leather Products Co. Ladies' pouch. 185,829, 8-4-59, Cl. D87-3.
- Lemmenes, Gilbert G. Trailer electrical connector tester or similar article. 186,221, 9-29-59, Cl. D26-1.



- Lemmermann, Clarence E.: *See*—  
Carlson, Roland W., and Lemmermann. 186,960.
- Lemmey, Edgar S.: *See*—  
Dine, Lester A., and Lemmey. 184,214.  
Dine, Lester A., and Lemmey. 184,215.
- Lenox, Inc.: *See*—  
House, Elliott M. 186,950.
- Leonard, John E., and H. Watanabe, to Beckman Instruments, Inc. Combination glass and reference electrode. 185,714, 7-21-59, Cl. D26—1.
- Leonard, Ralph N., to The Radion Corp. Antenna housing or similar article. 185,757, 7-28-59, Cl. D26—14.
- Leonard, Ralph N., to The Radion Corp. Combined antenna housing and channel selector or similar article. 185,859, 8-11-59, Cl. D26—14.
- Leoncini, Harold C.: *See*—  
Kelly, Joe T., and Leoncini. 184,623.
- Lepanto, Joseph. Composite wall and table flower pot holder. 185,215, 5-19-59, Cl. D35—3.
- Leppin, William F. Service station island. 184,259, 1-13-59, Cl. D52—2.
- Lerner, Louis L., to The Gillette Co. Applicator for applying treating material to the hair. 184,445, 2-17-59, Cl. D86—10.
- Lerner, Louis L., and A. Safanoff, to The Gillette Co. Liquid applicator. 186,350, 10-13-59, Cl. D86—8.
- LeTournieu-Westinghouse Co.: *See*—  
Erlacher, Bernard E., Kress, and Spannhake. 184,217.  
Erlacher, Bernard E., and Painter. 184,216.  
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- Leubner, Courtney A., and K. M. Maierhofer, to Polaroid Corp. Photographic copying apparatus or similar article. 184,287, 1-20-59, Cl. D61—1.
- Levin, Monte L., to Fieldcrest Mills, Inc. Electric blanket control box or similar article. 185,158, 5-12-59, Cl. D26—13.
- Levin, Monte L. to General Electric Co. Clock or similar article. 185,442, 6-9-59, Cl. D42—7.
- Levin, Monte L. Vending machine. 186,909, 12-22-59, Cl. D52—3.
- Levine, Beth. Shoe. 186,843, 12-15-59, Cl. D7—7.
- Levine, Gladys B. Stuffed food product. 186,929, 12-22-59, Cl. D82—2.
- Levoy, Monroe B., to Optical Salons Ltd. Combined spectacle frame and hair ornament. 185,216, 5-19-59, Cl. D57—1.
- Levy, Josef. Clock. 186,677, 11-17-59, Cl. D42—7.
- Lewis, Cicero H., II: *See*—  
Demaree, John E., and Lewis. 185,070.
- Lewis, Hunt, to Schlage Lock Co. Escutcheon plate. 184,446, 2-17-59, Cl. D50—6.
- Lewis, Hunt, to Schlage Lock Co. Door escutcheon plate. 184,948, 4-21-59, Cl. D50—6.
- Lewis, Kenneth R.: *See*—  
Shively, Walter E., and Lewis. 184,376.
- Lewis, Paul M. Double pinwheel toy. 184,680, 3-24-59, Cl. D34—15.
- Liberty, Nicholas R. Milk carton holder. 185,883, 8-11-59, Cl. D58—26.
- Liebes, Dorothy, to Quaker Lace Co. Tablecloth. 186,866, 12-15-59, Cl. D92—26.
- Liedtke, Carl F., and G. Wilhelm, to The High Standard Mfg. Corp. Muzzle stabilizer or similar article for firearms. 185,374, 6-2-59, Cl. D30—1.
- Lilja, Ernest L., to Club Aluminum Products Co. Warmer for carafes and the like. 184,232, 1-6-59, Cl. D44—10.
- Lilja, Ernest L., to Club Aluminum Products Co. Carafe. 186,043, 9-1-59, Cl. D44—26.
- Liljenberg, Harry A., to Modern Tool & Die Co. Wheelbarrow. 185,217, 5-19-59, Cl. D14—3.
- Lily-Tulip Cup Corp.: *See*—  
Mount, Keith B., and Sims. 185,772.
- Lind, Charles. Electric motor. 185,673, 7-14-59, Cl. D26—5.
- Lindberg, Stig, to Aktiebolaget J. O. Oberg & Son. Set of picture playing cards. 184,447, 2-17-59, Cl. D34—13.
- Lindberg, William S.: *See*—  
Henrikson, Bror W., Hoven, Lindberg, and Nordmark. 186,894.  
Hoven, Alfred C., Lindberg, and Nordmark. 185,868.
- Lindemeyer, Ray S. Tripod support. 184,361, 2-3-59, Cl. D15—10.
- Lindenmuth, Donald C., to General Motors Corp. Automobile door handle. 184,745, 3-31-59, Cl. D10—8.
- Lindsey, L. E. Stringing block. 184,880, 4-14-59, Cl. D41—1.
- Linley, John W., Jr., 50% to D. P. Watkins. Railing. 185,218, 5-19-59, Cl. D13—7.
- Lintereur, Napoleon, to Hamilton Mfg. Co. Combined cabinet and bench. 186,369, 10-20-59, Cl. D16—2.
- Lionel Corp., The: *See*—  
Beger, Richard E. 185,730.  
Bonanno, Joseph L. 184,417.  
Bonanno, Joseph L. 186,510.  
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Van Dyck, Kenneth. 185,400.  
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- Lipare, Francis X. Shoe or similar article. 185,091, 5-5-59, Cl. D7—7.
- Lipka, Stephen. Compartmented tray. 184,681, 3-24-59, Cl. D44—10.
- Lippman, Jordan: *See*—  
Vicker, Louis, and Lippman. 186,249.
- Lipschutz, Frank K., to Louisville Cap Corp. Cap. 186,839, 12-15-59, Cl. D3—13.
- Lipscomb, William J. Combination refuse and advertising display container. 184,746, 3-31-59, Cl. D58—17.
- Lipsitz, Albert A.: *See*—  
Boyer, William P., and Lipsitz. 185,487.
- Liskey, Ernest C., Jr. Tread-grating unit. 184,821, 4-7-59, Cl. D13—1.
- Litman, Chester K., to Koch Refrigerators, Inc. Refrigerator. 184,682, 3-24-59, Cl. D67—3.
- Little, John M., to The Landers Corp. Plastic coated fabric. 185,715, 7-21-59, Cl. D87—3.
- Littlefield, Irwin W. Material feeding tool for a saw table. 186,935, 12-22-59, Cl. D93—4.
- Littlepage, Donna D. Frame for chinaware or similar article. 184,233, 1-6-59, Cl. D29—20.
- Littman, Robert E. Glue applicator. 186,147, 9-15-59, Cl. D74—10.
- Liubauskas, Boles. Family altar or similar article. 185,219, 5-19-59, Cl. D29—23.
- Liubauskas, Boles. Family altar or similar article. 185,220, 5-19-59, Cl. D29—23.
- Liubauskas, Boles. Religious vestment holder or similar article. 185,796, 8-4-59, Cl. D17—8.
- Livesay, Harvey R., Jr., to Prestressing, Inc. Building block. 184,747, 3-31-59, Cl. D18—2.
- Lloyd, James R., to Cutlas Tool & Mfg. Co. Selectively free wheeling hub. 184,404, 2-10-59, Cl. D14—30.
- Locke, Lee P.: *See*—  
Ackerman, Marian, and Locke. 186,426.
- Lockett, William L., to W. D. Allen Mfg. Co. Hose nozzle. 186,646, 11-10-59, Cl. D91—1.
- Lockheed Aircraft Corp.: *See*—  
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- Lodge & Shipley Co.: *See*—  
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- Loeb, Morris. Handle. 184,362, 2-3-59, Cl. D10—8.
- Loew, Franklin E., to The Cushman Corp. Hammer or similar article. 185,008, 4-28-59, Cl. D93—4.
- Loewy, Raymond, Associates: *See*—  
Loewy, Raymond. 185,375.
- Loewy, Raymond, to Raymond Loewy Associates. Automobile. 185,375, 6-2-59, Cl. D14—3.
- Loewy, Raymond F. Decanter. 185,991, 8-25-59, Cl. D58—8.
- Loge, Joseph M. Intercommunications unit or similar article. 185,798, 8-4-59, Cl. D26—14.
- Lohaus, Earl H. J. Repeater popgun. 186,675, 11-17-59, Cl. D34—5.
- Long Co., The: *See*—  
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- Long, Douglas A., to The Roberk Co. Rearview mirror. 186,877, 12-22-59, Cl. D14—6.
- Long, John B., and J. C. Clay, to The Long Co. Drill unit. 185,159, 5-12-59, Cl. D54—14.
- Long, William E.: *See*—  
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- Lord Chemical Corp.: *See*—  
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- Lord, Homer R. Walking stick. 185,293, 5-26-59, Cl. D88—3.
- Lorenzana, Moises: *See*—  
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- Lorenzen, Arnold I., to Owens-Illinois Glass Co. Bottle. 184,524, 3-3-59, Cl. D58—8.
- Lorenzen, Arnold I., and B. L. Roberts, to Owens-Illinois Glass Co. Jar. 185,925, 8-18-59, Cl. D58—25.
- Lorincz, Bela. Umbrella. 186,009, 8-25-59, Cl. D88—3.
- Louis, Norman D., to Ajax Hardware Mfg. Corp. Door knob or similar article. 186,464, 10-27-59, Cl. D50—3.
- Louisville Cap Corp.: *See*—  
Lipschutz, Frank K. 186,839.
- Love, Kenneth T. A.: *See*—  
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- Lowe, Joe, Corp.: *See*—  
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Ensler, Arthur S., and Friedman. 185,633.  
Ensler, Arthur S., and Friedman. 186,930.
- Lowell, Benjamin W. Speaker baffle. 185,505, 6-16-59, Cl. D26—14.
- Lower, James C., and P. D. Sanborn, to National Laboratories, Inc. Combined brush holder and receptacle for cleansing liquid or the like. 185,834, 8-11-59, Cl. D9—2.
- Lowry, Alan B., to Farrington Mfg. Co. Display box for watches and the like. 184,683, 3-24-59, Cl. D80—5.
- Lowry, Robert E., to G. Leblanc Corp. Musical instrument key. 185,985, 8-25-59, Cl. D56—1.
- Lubarsky, Howard B. Steering wheel. 185,009, 4-28-59, Cl. D14—30.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Table top. 184,260, 1-13-59, Cl. D33—14.
- Lubberts, John J., and L. J. Mulder, to Tomlinson of High Point. Table. 184,261, 1-13-59, Cl. D33—14.
- Lubberts, John J., and L. J. Mulder, to Thomasville Chair Co. Triple dresser base. 185,758, 7-28-59, Cl. D33—6.
- Lubberts, John J., and L. J. Mulder, to Thomasville Chair Co. Triple dresser base. 185,759, 7-28-59, Cl. D33—6.



- Lubberts, John J., and L. J. Mulder, to Thomasville Chair Co. Chest. 185,760, 7-28-59, Cl. D33-6.
- Lubberts, John J., and L. J. Mulder, to Thomasville Chair Co. Dresser. 185,761, 7-28-59, Cl. D33-6.
- Lubberts, John J., and L. J. Mulder, to Thomasville Chair Co. Chest. 185,762, 7-28-59, Cl. D33-6.
- Lullabye Furniture Corp.: *See*—  
Kirkpatrick, Marie A. 185,153.
- Lumley, Maurice C., to The P. H. Lawson Co. Sand urn. 185,674, 7-14-59, Cl. D58-17.
- Lunzer, Frederic A., to De Jur Amsco Corp. Camera. 186,196, 9-22-59, Cl. D61-1.
- Lupin, Eli R. Tractor mounted digger. 184,629, 3-17-59, Cl. D14-3.
- Lurie Industries, Inc.: *See*—  
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- Lurie, Robert, to Lurie Industries, Inc. Tray for meats and the like. 184,525, 3-3-59, Cl. D44-10.
- Lusby, Joseph R. Camera stand or similar article. 185,997, 8-25-59, Cl. D61-1.
- Luther, Frederic. Microfilm reader. 184,405, 2-10-59, Cl. D61-1.
- Lyon, Erwin L., Jr.: *See*—  
Bassett, William E. 185,590.
- Lyon, George A. Wheel trim or similar article. 184,573, 3-10-59, Cl. D14-30.
- Lyon, George A. Wheel trim. 185,010, 4-28-59, Cl. D14-30.
- Lyon & Healy, Inc.: *See*—  
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- Lyon Inc.: *See*—  
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- Lyons, Walter F., to V. H. Blackinton & Co., Inc. Badge or similar article. 185,092, 5-5-59, Cl. D29-2.
- M and H Industries, Inc.: *See*—  
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Heyer, Don, and Maize. 184,732.
- MacArthur, John W. S. Combined knife, fork and spoon. 184,317, 1-27-59, Cl. D54-12.
- Maccio, Virginia M. Drip guard. 184,234, 1-6-59, Cl. D44-29.
- Machinski, Edward. Aircraft. 185,820, 8-4-59, Cl. D71-1.
- Mack Trucks, Inc.: *See*—  
Bourke, Robert E. 184,388.
- Mackay, Frederick G., to Sawyer's Inc. Projector. 184,949, 4-21-59, Cl. D61-1.
- MacKichan, Clare M., to General Motors Corp. Automobile. 186,365, 10-20-59, Cl. D14-3.
- MacLachlan, Donald, to Bridgeport Brass Co. Connector trim cap for roll-up awnings. 185,764, 7-28-59, Cl. D21-6.
- MacLeod, Bertram H., to Avon Sole Co. Shoe sole. 185,953, 8-23-59, Cl. D7-5.
- MacMinn, Strother C., to New Plastic Corp. Hammer handle. 185,675, 7-14-59, Cl. D93-4.
- Macomber, Clark C.: *See*—  
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- Madeline Co. of California Inc.: *See*—  
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- Madl, Alfred W., to The John Oster Mfg. Co. Portable electric saw. 185,160, 5-12-59, D93-3.
- Madl, Alfred W., to John Oster Mfg. Co. Combined knife and scissors sharpener. 185,556, 6-23-59, Cl. D37-1.
- Madl, Alfred W., to The John Oster Mfg. Co. Food and drink mixer. 185,765, 7-28-59, Cl. D44-1.
- Madl, Alfred W., to John Oster Mfg. Co. Electric foot massager. 186,488, 10-27-59, Cl. D83-1.
- Maffei, Leo J., to The American Hardware Corp. Doorknob. 184,630, 3-17-59, Cl. D50-3.
- Maffei, Leo J., to The Taplin Mfg. Co. Beater. 184,950, 4-21-59, Cl. D44-1.
- Maffei, Leo J., to The American Hardware Corp. Doorknob. 186,242, 9-29-59, Cl. D50-3.
- Magid, Hyman S., and W. H. McKinney, to American Radiator & Standard Sanitary Corp. Water closet. 185,643, 7-7-59, Cl. D4-5.
- Magnus, Finn H., to Magnus Organ Corp. Chord organ or similar article. 185,294, 5-26-59, Cl. D56-2.
- Magnus Organ Corp.: *See*—  
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- Maguire, John, to Duo-Bed Corp. Combined sofa bed, desk and dresser. 185,676, 7-14-59, Cl. D15-11.
- Maguire, Paul R., to D. P. Bushnell. Pair of binoculars or the like. 184,881, 4-14-59, Cl. D57-1.
- Mahnken, Charlotte B. Child's purse. 184,363, 2-3-59, Cl. D87-3.
- Maico Electronics, Inc.: *See*—  
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- Maiden Form Brassiere Co., Inc.: *See*—  
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- Maier, Kenneth D., to Bausch & Lomb Optical Co. Housing for a microscope unit. 184,487, 2-24-59, Cl. D57-1.
- Maiershofer, Karl M.: *See*—  
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- Main, Lauren O.: *See*—  
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- Mainzinger, Thomas P., to Attwood Brass Works, Inc. Steering wheel base. 185,608, 6-30-59, Cl. D71-1.
- Mair, Francis M., to Schlage Lock Co. Escutcheon plate. 185,011, 4-28-59, Cl. D50-6.
- Mair, Francis M., to Schlage Lock Co. Combined door knob and escutcheon. 186,083, 9-8-59, Cl. D50-3.
- Maize, James W.: *See*—  
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- Major, C. J.-J. F. Thornburg Enterprises: *See*—  
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- Mallory, P. R., & Co., Inc.: *See*—  
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- Malloy, William M., Sr. Bird feeder. 186,605, 11-10-59, Cl. D31-2.
- Malouf, Naseeb. Negligee. 185,012, 4-28-59, Cl. D3-26.
- Malsed, Helen H. Pull toy. 184,526, 3-3-59, Cl. D34-15.
- Malsed, Helen H. Pull toy. 184,527, 3-3-59, Cl. D34-15.
- Malsed, Helen H. Pull toy. 184,528, 3-3-59, Cl. D34-15.
- Malsed, Helen H. Pull toy. 184,684, 3-24-59, Cl. D34-15.
- Malsed, Helen H. Pull toy. 184,951, 4-21-59, Cl. D34-15.
- Malven, Richard O., to Deere & Co. Fender and dual headlamp unit for agricultural vehicle. 184,406, 2-10-59, Cl. D14-6.
- Mancuso, Emanuel. Attachment for telephones. 185,013, 4-28-59, Cl. D26-14.
- Manderfield, Ellen, to Oneida Ltd. Spoon or similar article. 186,187, 9-22-59, Cl. D54-12.
- Mango, Joseph R., to Adams-Pelouze Co. Casing for a portable electric ice crusher or similar article. 186,420, 10-20-59, Cl. D89-1.
- Mango, Joseph R. Vibratory massage unit. 186,750, 11-24-59, Cl. D83-1.
- Mann, Johnny. Combined ash tray, can and bottle opener, and fish scaler. 184,822, 4-7-59, Cl. D85-2.
- Mann, Stuart N., to Evans Products Co. Child's vehicle. 184,235, 1-6-59, Cl. D34-15.
- Manning Mfg. Corp.: *See*—  
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- Manning, Patrick A. Combination playing card and scorecard holder. 186,324, 10-13-59, Cl. D34-5.
- Manning, Patrick A. Combination playing card and scorecard holder. 186,325, 10-13-59, Cl. D34-5.
- Manning, Patrick A. Combination playing card and scorecard holder. 186,450, 10-27-59, Cl. D34-5.
- Manushkin, Robert. Child's toilet seat. 185,766, 7-28-59, Cl. D4-5.
- Mapes, Carl H., and R. M. Carrigan, to Rand McNally & Co. Globe stand. 184,882, 4-14-59, Cl. D33-3.
- Mappes, William L., to Northeast Capital Corp. Push button switch unit for turn signal indicators. 186,022, 9-1-59, Cl. D26-13.
- Marano, Herbert W., to Wilson Jones Co. Support base for desk memorandum pad, or similar article. 185,295, 5-26-59, Cl. D74-1.
- Marano, Herbert W., to Wilson Jones Co. Stapling machine or similar article. 186,342, 10-13-59, Cl. D74-1.
- Marfuggi, Rose S. Spectacle temple. 185,161, 5-12-59, Cl. D57-1.
- Marfuggi, Rose S. Spectacle temple. 185,987, 8-25-59, Cl. D57-1.
- Marick, Louis, J. F. Newman, and R. F. Busch, to United States Rubber Co. Pneumatic tire. 184,748, 3-31-59, Cl. D90-20.
- Marick, Louis, D. J. Martin, and J. F. Newman, to United States Rubber Co. Tire. 184,749, 3-31-59, Cl. D90-20.
- Marien, Kenneth J.: *See*—  
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- Marine Optical Mfg. Co.: *See*—  
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- Markel Electric Products, Inc.: *See*—  
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- Markel, Morris L.: *See*—  
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- Marker, Charles W. Steering wheel cover. 184,365, 2-3-59, Cl. D14-30.
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- Marlin Toy Products, Inc.: *See*—  
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- Marshall, Donald S. Marine bow light. 186,548, 11-3-59, Cl. D48-32.
- Marson, Samuel. Accessory bracket for a camera or similar article. 184,448, 2-17-59, Cl. D61-1.
- Mart, Leon T., to The Marley Co. Cooling tower. 184,288, 1-20-59, Cl. D62-4.
- Marti, Frederic, and G. Braunschweig. Clock. 186,530, 11-3-59, Cl. D42-7.



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- Martin, Gerald D., to United States Rubber Co. Puffed textile fabric. 184,952, 4-21-59, Cl. D92-1.
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- Marx Louis, & Co., Inc.: See—  
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- Mas, George N., to F. du Mas. Bottle. 185,557, 6-23-59, Cl. D58-8.
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- Masuda, Shigeru. Plate or similar article. 185,444, 6-9-59, Cl. D44-15.
- Masuda, Shigeru, to Noritake Co., Inc. Plate or similar article. 185,445, 6-9-59, Cl. D44-15.
- Masuda, Shigeru, to Noritake Co., Inc. Plate or similar article. 185,446, 6-9-59, Cl. D44-15.
- Masuda, Shigeru, to Noritake Co., Inc. Plate or similar article. 185,447, 6-9-59, Cl. D44-15.
- Masuda, Shigeru, to Noritake Co., Inc. Plate or similar article. 185,448, 6-9-59, Cl. D44-15.
- Masuda, Shigeru, to Noritake Co., Inc. Plate or similar article. 185,449, 6-9-59, Cl. D44-15.
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- Masuda, Shigeru, to Noritake Co., Inc. Plate or similar article. 185,451, 6-9-59, Cl. D44-15.
- Masuda, Shigeru, to Noritake Co., Inc. Plate or similar article. 185,452, 6-9-59, Cl. D44-15.
- Mathes, Paul G. Barbecue condiment dispenser. 186,536, 11-3-59, Cl. D44-22.
- Mathews, John P. Auto window ventilator. 184,631, 3-17-59, Cl. D14-6.
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- Maybrun, Arthur E. Holder for work order papers. 185,015, 4-28-59, Cl. D58-26.
- Mayer, Donald, to H & M Neckwear Co., Inc. Cumberbund. 186,758, 12-1-59, Cl. D3-10.
- Mayer, Jean, to Cartier, Inc. Trophy cup or the like. 184,823, 4-7-59, Cl. D29-23.
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- McCann, Harry P. Urinal. 185,767, 7-28-59, Cl. D4-5.
- McCarthy, Anthony A., to The Nu Nite Lite Co. Cover plate for combined lighting fixture and receptacle. 184,263, 1-13-59, Cl. D26-13.
- McCarthy, Joseph H., and H. P. Zimmermann, to The General Fireproofing Co. Desk. 184,530, 3-3-59, Cl. D33-7.
- McCarthy, Joseph H., and H. P. Zimmermann, to The General Fireproofing Co. Edge binding strip for desk tops. 185,558, 6-23-59, Cl. D54-2.
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- McCloud, Lillard F., to Pepperell Mfg. Co. Bed cover or similar article. 184,366, 2-3-59, Cl. D92-2.
- McCord, Douglas D., to Chicopee Mills, Inc. Puffed textile fabric. 184,685, 3-24-59, Cl. D92-1.
- McCord, Douglas D., to Chicopee Mills, Inc. Puffed textile fabric. 184,884, 4-14-59, Cl. D92-1.
- McCord, Douglas D., to Chicopee Mills, Inc. Puffed textile fabric. 185,016, 4-28-59, Cl. D92-1.
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- McCormick, Richard H. Game board. 186,777, 12-1-59, Cl. D34-5.
- McCormick, Samuel J., to Metals & Controls Corp. Jewelry finding or similar article. 185,029, 4-28-59, Cl. D45-1.
- McCormick, Samuel J., to Metals & Controls Corp. Jewelry finding or similar article. 185,030, 4-28-59, Cl. D45-1.
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- McCutchen, Joseph K. Tufted fabric. 185,300, 5-26-59, Cl. D92-1.
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- McFadden, James A. Combined lamp base and abacus. 185,221, 5-19-59, Cl. D48-20.
- McFadyen, Richard J., to Ketcham and McDougall, Inc. Spectacle holder. 185,852, 8-11-59, Cl. D17-15.
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- McKay, James G. Leg for an imprinting machine or the like. 186,173, 9-22-59, Cl. D33-14.
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- McNeill, Albert G., to Bachmann Bros., Inc. Eyeglass front. 184,237, 1-6-59, Cl. D57-1.



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- Mehr, Eleanor A. Lady's shoe heel. 186,842, 12-15-59, Cl. D7-5.
- Mehr, Jacob A., to Dazor Mfg. Corp. Desk lamp. 184,753, 3-31-59, Cl. D48-20.
- Mehr, Jacob A., to Dazor Mfg. Corp. Desk lamp. 184,825, 4-7-59, Cl. D48-20.
- Mehr, Jacob A., to Dazor Mfg. Corp. Table lamp. 186,904, 12-22-59, Cl. D48-20.
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- Metzler, Charles L., W. H. Dennerlein, and L. B. Bernstein. Safety razor set case. 186,966, 12-29-59, Cl. D80-5.
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- Meyer, Carl X., to Day-Brite Lighting, Inc. Lighting fixture lens. 185,976, 8-25-59, Cl. D48-16.
- Meyer, Earl W., Jr., H. M. Seubert, and R. J. Latorre. Ignition breaker arm. 186,666, 11-17-59, Cl. D26-13.
- Meyer, Emanuel. Floor mat for automobiles and the like. 185,379, 6-2-59, Cl. D9-6.
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- Miller, Alex F., and R. W. Hardin. Water-containing play toy. 186,778, 12-1-59, Cl. D34-15.
- Miller, Charles C., Jr., and M. W. Berg, to Altoscan Co. Vertical lift aircraft. 185,609, 6-30-59, Cl. D71-1.
- Miller, Daniel B. Electrical plug cap or similar article. 185,163, 5-12-59, Cl. D26-1.
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- Moore, David G., and G. F. Fahringer, to International Business Machines Corp. Computer inquiry station. 185,960, 8-25-59, Cl. D26-5.
- Moore Drop Forging Co.: *See*—  
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- Moore, James C. Clothespin. 186,017, 9-1-59, Cl. D17-6.
- Moore, Maurice E. Motor coach. 185,307, 5-26-59, Cl. D14-3.
- Moore, Pernel J., S. J. Hughes, C. E. Vaclavik, and G. M. Dunham, to National Lead Co. Density measuring instrument. 186,243, 9-29-59, Cl. D52-1.
- Moore, Robert L., to Aerol Co., Inc. Swivel caster wheel or similar article. 185,032, 4-28-59, Cl. D10-6.
- Moore, Robert L.: *See*—  
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- Moore, Walter E., R. H. Koepf, and P. O. Rawson, Jr., to General Electric Co. Combined steam and spray iron or similar article. 184,757, 3-31-59, Cl. D49-6.
- Moore, Willie A. Coin-controlled cigar vending machine. 185,506, 6-16-59, Cl. D52-3.
- Moore, Winfield H. Branch holder. 185,968, 8-25-59, Cl. D35-1.
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- Moretton Engineering Co. Ltd.: *See*—  
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- Morgan, Ray F. Font of printing type. 185,646, 7-7-59, Cl. D64-17.
- Morgan, Ray F., to The Morgan Sign Machine Co. Font of printing type. 186,741, 11-24-59, Cl. D64-17.
- Morgan Sign Machine Co.: *See*—  
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- Morphis, Jehu, to L. S. Taylor, individually and as trustee. Liquid level gauge head. 184,953, 4-21-59, Cl. D52-1.
- Morris, Edward C., to Baltimore Paint and Chemical Corp. Paint color dispenser. 185,458, 6-9-59, Cl. D52-2.
- Morris, Howell D. Flag unit for an automobile or the like. 185,907, 8-18-59, Cl. D29-17.
- Morton, Henry H., to The Savoy Hotel Ltd. Combined stove and lamp. 184,450, 2-17-59, Cl. D81-10.
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- Mount Vernon Furnace & Mfg. Co.: *See*—  
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- Mowrey, Robert H., Jr., and C. L. West, to Pendleton Tool Industries, Inc. Display stand for mechanic's hand tools. 185,381, 6-2-59, Cl. D80-9.
- Moxley, William N. Foot massage unit. 186,255, 9-29-59, Cl. D83-1.
- Moynihan, Paul J., and H. Nick, to Seaway Industries, Inc. Gun support. 186,446, 10-27-59, Cl. D30-1.
- Mudd, Charles H.: *See*—  
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- Müller, Paul A. Tissue paper or like sheet material. 184,954, 4-21-59, Cl. D59-2.
- Müller, Paul A. Tissue paper or like sheet material. 184,955, 4-21-59, Cl. D59-2.
- Mullin, Clayton D., J. F. Rose, and H. W. Darr, to Maico Electronics, Inc. Combined eyeglass temple and hearing aid casing. 185,034, 4-28-59, Cl. D57-1.
- Mullin, Robert E. Wrench. 184,451, 2-17-59, Cl. D54-16.
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- Muse, Grant H., Jr. Photographic copy attachment for a camera or similar article. 185,999, 8-25-59, Cl. D61-1.
- Mustee, Bernard E., to E. L. Mustee & Sons, Inc. Laundry tub. 185,227, 5-19-59, Cl. D49-2.
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- Myers, Aaron G., to D. L. Harlow. Beverage tray. 186,124, 9-15-59, Cl. D44-10.
- Myers, Aaron G., and R. N. Lamb. Rack for bottled beverages. 185,809, 8-4-59, Cl. D44-10.
- Myers, Walter P. Table. 184,759, 3-31-59, Cl. D33-14.
- Nadel, Joseph. Display rack for millinery or the like. 186,833, 12-8-59, Cl. D80-10.
- Nakagawa, Toru. Medal. 185,382, 6-2-59, Cl. D29-19.
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- Nalle, George S., Jr. Hanger for articles of clothing. 185,716, 7-21-59, Cl. D80-8.
- Nansel, Harold K., to Notifier Corp. Alarm box. 186,745, 11-24-59, Cl. D72-1.
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- Nappes, William L., to Northeast Capital Corp. Clearance marker light for vehicles. 184,364, 2-3-59, Cl. D48-32.
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- Neff, Walter H., to Standard Shade Pull Mfrs., Inc. Shade pull or similar article. 186,507, 11-3-59, Cl. D21-1.
- Neller, James R. Golf practice device. 186,276, 10-6-59, Cl. D34-5.
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- Nelson, George, and J. F. Pile, to Herman Miller Furniture Co. Chair. 184,238, 1-6-59, Cl. D15-1.
- Nelson, Lewen R. Lawn sprinkler. 184,239, 1-6-59, Cl. D91-1.
- Nelson, Paul E. Charm bracelet. 186,854, 12-15-59, Cl. D45-4.
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- Nelson, Thomas W., to American Twine & Fabric Corp. Textile fabric or similar article. 185,228, 5-19-59, Cl. D92-1.
- Nelson, Van. Storage battery container. 184,531, 3-3-59, Cl. D26-6.
- Nelson, Van, to Stauffer Chemical Co. Storage battery container. 185,858, 8-11-59, Cl. D26-6.
- Nemesnyik, John C., and R. W. Wade, to Charles Beseler Co. Screen and sound attaché case. 186,056, 9-1-59, Cl. D61-1.
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- Nessel, Jiri M., to Clary Corp. Calculating-listing machine. 185,385, 6-2-59, Cl. D64-11.
- Nettles, Charles M., to Tex-Trude, Inc. Volatile gas tank closure cap. 186,915, 12-22-59, Cl. D58-26.
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- O'Brien, William P., and D. Byrne, to W. D. Allen Mfg. Co. Cemetery vase and base unit. 186,236, 9-29-59, Cl. D35-3.
- O'Connor, Donald J., to Morton Salt Co. Disposable shaker envelope for condiments or the like. 185,229, 5-19-59, Cl. D58-2.
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- O'Hearn, Joseph J. Electrical terminal block. 186,712, 11-24-59, Cl. D26-1.
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- Osborn, John D., to G. M. Turner and W. M. Horner. Horizontal boring machine. 186,469, 10-27-59, Cl. D55-1.
- Osborne, Fred K., and H. F. Spelts. Cup rack. 186,393, 10-20-59, Cl. D44-29.
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- Ostwald, Adolph. Jacket. 186,261, 10-6-59, Cl. D3-4.
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- Painter, David L., to LeTourneau-Westinghouse Co. Earth-moving tractor and pusher combination. 184,241, 1-6-59, Cl. D14-3.
- Painter, David L., to West Bend Aluminum Co. Electric griddle. 184,764, 3-31-59, Cl. D81-10.
- Palma, Joseph, Jr., to Charles Bruning Co., Inc. Electric eraser unit or similar article. 184,831, 4-7-59, Cl. D74-7.
- Palma, Joseph, Jr., to Shure Brothers, Inc. Phonograph pickup cartridge. 185,168, 5-12-59, Cl. D26-4.
- Palma, Joseph, Jr., to Manning Mfg. Corp. Toy wheelbarrow. 186,326, 10-13-59, Cl. D34-15.
- Palmer, John S., to International Harvester Co. Operator's cab for agricultural implements. 185,562, 6-23-59, Cl. D40-1.
- Palmer, Robley D. Bottle holder or the like. 184,455, 2-17-59, Cl. D83-8.
- Palmer, Rudlette K. Guitar case. 185,984, 8-25-59, Cl. D56-1.
- Palo, Maurice M.: *See*—  
 Armstrong, Richard G., and Palo. 185,860.
- Panation Trade Co.: *See*—  
 Hammer, Jerome. 185,495.
- Panation Trade Co. of New York: *See*—  
 Hammer, Jerome. 184,869.  
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- Pancari, Carmen D. Letter opener. 184,576, 3-10-59, Cl. D74-1.
- Pancotti, Mario. Table accordion. 186,470, 10-27-59, Cl. D56-1.
- Pan-M-Bob Mfg. Corp.: *See*—  
 Boblett, Preston P. 185,486.
- Panosian, Haig A. Ash tray. 184,577, 3-10-59, Cl. D85-2.
- Panzica, Anton J.: *See*—  
 Dean, Arthur F., and Panzica. 185,596.  
 Dean, Arthur F., and Panzica. 186,084.
- Papadakos, Peter J., to Gyrodyne Co. of America, Inc. Rotary wing aircraft. 186,478, 10-27-59, Cl. D71-1.
- Paper Mate Mfg. Co.: *See*—  
 Larson, George G. 185,292.
- Pappas, Phillip M. Deep fat fryer or similar article. 186,345, 10-13-59, Cl. D81-10.
- Paramount Wedding Ring Co.: *See*—  
 Sager, Mason M. 184,833.
- Parisson, Anton, and R. Protas, to American Machine & Foundry Co. Radial arm tool for sawing, planing or the like. 186,423, 10-20-59, Cl. D93-3.
- Park, Malcolm S.: *See*—  
 Perla, Martin R., and Park. 184,409.
- Park, Malcolm S., to The Singer Mfg. Co. Bobbin winder for sewing machines. 185,930, 8-18-59, Cl. D70-2.
- Park Sherman Co.: *See*—  
 Sherman, Jacob S. 186,036.  
 Sherman, Jacob S. 186,699.  
 Sherman, Jacob S. 186,700.
- Parker, Denise. Slant lounge. 185,563, 6-23-59, Cl. D15-11.
- Parker, Frederick R. Toy launching gun. 186,179, 9-22-59, Cl. D34-15.
- Parker, Harry L. Power supply for an electronic flash. 186,248, 9-29-59, Cl. D61-1.
- Parker, Kenneth, to The Parker Pen Co. Writing instrument desk base. 185,169, 5-12-59, Cl. D74-1.



- Parker Pen Co., The: *See*—  
 Armstrong, Warren B., and Furman. 185,824.  
 Bieger, Walter I. 185,933.  
 Doman, Donald W. 184,610.  
 Doman, Donald W. 186,484.  
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 Parker, Kenneth. 185,169.  
 Schier, Robert W. 186,148.  
 Schier, Robert W. 186,149.  
 Sonntag, Clemens A., and Main. 185,581.
- Parmater, Lee W., and R. M. Cain. Internal combustion engine tester. 186,908, 12-22-59, Cl. D52-1.
- Parmelee Plastics Co.: *See*—  
 Moeller, William C. 185,225.  
 Watkins, Willis T. 186,135.
- Parnell, James W., Jr. Stick-hockey game board. 186,234, 9-29-59, Cl. D34-5.
- Parrett, John T. Golfing vehicle or the like. 185,901, 8-18-59, Cl. D14-3.
- Parrilla, Salvatore C. Rolling hoop control stick. 186,847, 12-15-59, Cl. D34-5.
- Passolt, Robert A., to Brown & Bigelow. Combined tray and removable bowl. 185,774, 7-28-59, Cl. D44-10.
- Paster, Donald L., to Fram Corp. Combined portable viewer and illuminable unit for inspecting air filter cartridges. 184,456, 2-17-59, Cl. D57-1.
- Paster, Donald L., to Fram Corp. Combined counter display and inspector for air filter cartridges. 186,090, 9-8-59, Cl. D80-9.
- Pastor, Sheldon L.: *See*—  
 Briskin, Theodore S., and Pastor. 185,262.
- Patenaude, Joseph A.: *See*—  
 Close, Egbert B., and Patenaude. 186,916.
- Patriquin, George P., to Independent Lock Co. Door knob. 185,311, 5-26-59, Cl. D50-3.
- Patterson, Herman W. Elastic fastener for hair or the like. 186,564, 11-3-59, Cl. D86-10.
- Patterson, Lawrence W. Illuminable display stand. 184,765, 3-31-59, Cl. D80-9.
- Patton, Roy C. Portable carriage for compressors or the like. 185,718, 7-21-59, Cl. D14-3.
- Patton, Roy C. Spraying unit. 185,842, 8-11-59, Cl. D14-3.
- Paulmar Inc.: *See*—  
 Menary, Robert F., and Sobieraj. 186,917.
- Paulson, Haakon, to Besser Co. Building block. 185,611, 6-30-59, Cl. D18-2.
- Paus, Robert: *See*—  
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- Payne Enterprises, Inc.: *See*—  
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- Payne, George L.: *See*—  
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- Pearl, Curtis F., to Zadek Feldstein Co. Inc. Child's toilet seat. 184,408, 2-10-59, Cl. D4-5.
- Pearl, Daniel M. Bicycle headlight. 186,330, 10-13-59, Cl. D48-24.
- Pearson, Albert L. and C. A. Heater for fish houses. 185,564, 6-23-59, Cl. D81-1.
- Pearson, Charles, Jr., to M. I. Glass. Toy prime mover. 185,806, 8-4-59, Cl. D34-15.
- Pearson, Clarence A.: *See*—  
 Pearson, Albert L. and C. A. 185,564.
- Pearson, William S. Ash receptacle or similar article. 185,230, 5-19-59, Cl. D85-2.
- Pearson, William S. Ash tray. 185,231, 5-19-59, Cl. D85-2.
- Pecoraro, Ralph R.: *See*—  
 Fiori, Anthony J., Dziedziula, and Pecoraro. 185,077.
- Pedersen, Ida. Picture frame or similar article. 185,509, 6-16-59, Cl. D29-20.
- Peed, Jim. Arm chair. 184,369, 2-3-59, Cl. D15-1.
- Pehau, Pierre, to Societa Italiana Misuratori S.I.M.S.p.A. Water heater. 185,719, 7-21-59, Cl. D81-2.
- Pehau, Pierre, to Societa Italiana Misuratori S.I.M.S.p.A. Water heater. 185,720, 7-21-59, Cl. D81-2.
- Pendleton Tool Industries, Inc.: *See*—  
 Mowrey, Robert H., Jr., and West. 185,381.
- Pen-Union Electric Corp.: *See*—  
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- Pepin, Raoul J., to International Business Machines Corp. Data processing machine unit. 184,534, 3-3-59, Cl. D26-5.
- Pepperell Mfg. Co.: *See*—  
 McCloud, Lillard F. 184,366.
- Perla, Martin R., and M. S. Park, to The Singer Mfg. Co. Sewing machine or similar article. 184,409, 2-10-59, Cl. D70-1.
- Perry, Frank R., to Oneida Ltd. Spoon or similar article. 184,957, 4-21-59, Cl. D54-12.
- Perry, Frank R., to Oneida Ltd. Spoon or similar article. 185,923, 8-18-59, Cl. D54-12.
- Persico, Remigio. Pocket ash tray. 186,347, 10-13-59, Cl. D85-2.
- Personal Products Corp.: *See*—  
 Burnham, Harold F. 185,345.
- Peters, Allan. Hockey gameboard. 185,037, 4-28-59, Cl. D34-5.
- Peters, Joseph H. Diabetic kit or the like. 185,388, 6-2-59, Cl. D83-1.
- Peters & Russell, Inc.: *See*—  
 Russell, Linus E. 184,642.
- Peters, Stanley. Hair clipper comb plate attachment. 185,170, 5-12-59, Cl. D22-5.
- Petersen, Charles W.: *See*—  
 Allen, Elmo P. 184,327.
- Petersen, Gerald A. M. Combined trailer and heavy duty wire stringer. 184,958, 4-21-59, Cl. D14-3.
- Petersen, Gerald A. M., and R. W. Goode; said Goode assor. to said Petersen. Combined trailer, wire stringer and tensioner. 186,589, 11-10-59, Cl. D14-3.
- Peterson, Carl F., to Duro Mold and Mfg., Inc. Rocket toy bank. 186,030, 9-1-59, Cl. D34-5.
- Peterson, Roger E. Combined light socket and clip. 185,565, 6-23-59, Cl. D29-1.
- Petlewski, Paul J.: *See*—  
 Ilenin, Frank A., Petlewski, Polhemus, Severson, and Plantholt. 186,479.
- Petrie, Gordon D., to Wright Mfg. Co. Portable automobile cooler. 184,490, 2-24-59, Cl. D14-6.
- Pettengill, Edwin R., to Thatcher Glass Mfg. Co., Inc. Bottle. 185,095, 5-5-59, Cl. D58-8.
- Pettengill, Myron F., and C. H. Rex, to General Electric Co. Luminaire. 186,786, 12-1-59, Cl. D48-31.
- Pfahler, Lloyd L. Composite fish lure, can opener and bottle opener. 185,566, 6-23-59, Cl. D31-4.
- Pferd, William: *See*—  
 Dreyfuss, Henry, and Pferd. 185,799.
- Philadelphia Brief Case Co.: *See*—  
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- Philco Corp.: *See*—  
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- Phillips, Clarence E.: *See*—  
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- Phillips, Francis L. Game board or similar article. 186,449, 10-27-59, Cl. D34-5.
- Phillips, George A. Golf putter head. 185,612, 6-30-59, Cl. D34-5.
- Phillips, Robert E.: *See*—  
 Cramer, Leonard, and Phillips. 184,606.
- Phillips, Truman E., and R. D. Laws. Rotatable barbecue. 186,562, 11-3-59, Cl. D81-7.
- Philp, Simon, Jr. Toy cross bow. 186,080, 9-8-59, Cl. D34-15.
- Photique, Inc.: *See*—  
 Froelich, Michael H. 184,723.
- Picker X-Ray Corp., Waite Mfg. Div., Inc.: *See*—  
 Carlson, Roland W., and Lemmermann. 186,960.
- Pickerell, Fred T., E. M. Wixted, and J. J. Graham, Jr., to Schering Corp. Flexible dispensing bottle. 184,636, 3-17-59, Cl. D58-6.
- Pickering, David H. and E. M. Combined pocket lighter and tape measure. 186,052, 9-1-59, Cl. D48-27.
- Pickering, Edward M.: *See*—  
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- Pickett, Julia J. Dish. 184,888, 4-14-59, Cl. D44-15.
- Pickford, George, to United Shoe Machinery Corp. Rivet setting tool. 186,953, 12-29-59, Cl. D54-14.
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- Pierson, Raymond G., Jr., to Hedstrom Union Co. Baby vehicle. 185,232, 5-19-59, Cl. D14-14.
- Pierson, William F., to Olken Corp. Roadster car. 184,889, 4-14-59, Cl. D14-3.
- Pietro Ferrero & C. Alba: *See*—  
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- Pilling, George P., & Son Co.: *See*—  
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- Pilson, Roy, to Mount Vernon Furnace & Mfg. Co. Range top. 186,928, 12-22-59, Cl. D81-25.
- Pioli, Raymond, to Maiden Form Brassiere Co., Inc. Brassiere. 184,637, 3-17-59, Cl. D20-4.
- Pioli, Raymond, and E. Silvani, to Maiden Form Brassiere Co., Inc. Brassiere. 184,578, 3-10-59, Cl. D20-4.
- Piotraschke, Fred J. Beauty shop booth unit. 185,096, 5-5-59, Cl. D33-6.
- Piskos, Thomas. Drum. 185,097, 5-5-59, Cl. D56-1.



- Pitman, Richard W., and L. V. A. Guild, to Underwood Corp. Calculating machine casing. 185,929, 8-18-59, Cl. D64-77.
- Pitrelli, Nicholas. Clock. 184,491, 2-24-59, Cl. D42-7.
- Plantholt, Robert G.: *See*—
- Ilenin, Frank A., Petlewski, Polhemus, Severson, and Plantholt. 186,479.
- Plasticrete Corp.: *See*—
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- Stageberg, Willis A. 186,042.
- Platt, Jack. Sink. 184,579, 3-10-59, Cl. D31-4.
- Plotkin, Frederic P. Wheel cover. 185,460, 6-9-59, Cl. D14-30.
- Plotkin, Frederic P. Wheel cover. 185,848, 8-11-59, Cl. D14-30.
- Plotkin, Frederic P. Wheel cover. 186,163, 9-22-59, Cl. D14-30.
- Plotkin, Frederic P., and P. Shore. Towel cabinet. 185,038, 4-28-59, Cl. D4-3.
- Plotkin, Frederic P., and P. Shore. Tissue dispensing cabinet. 185,775, 7-28-59, Cl. D4-3.
- Plunkett Chemical Co.: *See*—
- Whamond, Howard O. 186,157.
- Pojman, Joseph L., to Austin Industries, a Division of Calcasieu Lumber Co. Hospital cabinet unit. 186,880, 12-22-59, Cl. D16-2.
- Polaroid Corp.: *See*—
- Bradd, Sidney H., Jr., Brandt, and Ensign. 184,849.
- Leubner, Courtney A., and Maiershofer. 184,287.
- Polhemus, Marlan H.: *See*—
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- Polhemus, Marlan H., to Trimble, Inc. Combined gymnasium and teeter. 184,535, 3-3-59, Cl. D34-5.
- Polhemus, Marlan H. Tow tractor. 184,580, 3-10-59, Cl. D14-3.
- Polk, Emil S. Carving knife or similar article. 185,567, 6-23-59, Cl. D22-3.
- Polk, Emil S. Carving fork or similar article. 185,568, 6-23-59, Cl. D44-29.
- Pollard, Jack E. Advertising display stand for displaying flashlights or the like. 186,486, 10-27-59, Cl. D80-9.
- Pollnow, William F. Mounting bracket for liquid soap dispensers and the like. 186,653, 11-17-59, Cl. D4-3.
- Polovitch, Michael. Kitchen utility mop. 186,761, 12-1-59, Cl. D9-2.
- Polson, Saul. Perfume bottle or the like. 185,721, 7-21-59, Cl. D58-8.
- Poorman, Richard M.: *See*—
- Skinner, Ransom P., and Poorman. 186,694.
- Pope, Dora A. Pendant. 186,784, 12-1-59, Cl. D45-16.
- Popel, Samuel J. Food cutter. 185,461, 6-9-59, Cl. D55-1.
- Popovich, Joseph. Bun. 185,389, 6-2-59, Cl. D8-1.
- Porten, Laurence. Cushion. 186,651, 11-17-59, Cl. D3-9.
- Porter, H. K., Co. (Delaware): *See*—
- Katzfey, James M. 185,439.
- Porter, H. K., Co., Inc.: *See*—
- Katzfey, James M., and Hutt. 186,676.
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- Powell, James M., R. S. Inlow, T. M. Uyeda, and R. K. Fujioka, to Shwayder Bros., Inc. Lock for luggage case. 185,510, 6-16-59, Cl. D87-2.
- Powell, James M., R. S. Inlow, T. M. Uyeda, and R. K. Fujioka, to Shwayder Bros., Inc. Luggage case. 185,511, 6-16-59, Cl. D87-5.
- Powell, James M., and B. Caminker. Cabinet. 186,448, 10-27-59, Cl. D33-19.
- Powell, Neal W., to Cambridge Rubber Co. Sole for shoes. 185,954, 8-25-59, Cl. D7-5.
- Powers, Martin J., E. J. Klepper, and J. L. Crook. Soap dish. 184,890, 4-14-59, Cl. D4-3.
- Pratt, Samuel O., to Lyon & Healy, Inc. Frame for a harp. 186,409, 10-20-59, Cl. D56-1.
- Pratt, William B., to Chrysler Corp. Automobile wheel cover. 185,792, 8-4-59, Cl. D14-30.
- Prescott, Helen F., to Schlage Lock Co. Door knob. 185,098, 5-5-59, Cl. D50-3.
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- Gehrie, Charles S. 184,312.
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- Gehrie, Charles S. 186,724.
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- Price, D. W., Corp.: *See*—
- Price, Duane W. 185,171.
- Price, Duane W., to D. W. Price Corp. Clevis pin. 185,171, 5-12-59, Cl. D54-9.
- Price, Harold, to G-P Mfg. Co., Inc. Bicycle handle grip. 185,613, 6-30-59, Cl. D90-11.
- Price, Nathan C. Aircraft. 186,963, 12-29-59, Cl. D71-1.
- Prip, John A., to Reed and Barton Corp. Spoon or similar article. 185,569, 6-23-59, Cl. D54-12.
- Procter & Gamble Co., The: *See*—
- Vuilleminot, Robert P. 185,332.
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- Pruess, Donald E. Swimming pool. 185,570, 6-23-59, Cl. D13-1.
- Purcell, William F. H., to Deere & Co. Tractor. 185,233, 5-19-59, Cl. D14-3.
- Pure Oil Co., The: *See*—
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- Quaker Lace Co.: *See*—
- Fees, Richard A. 184,516.
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- Wolf, William. 185,779.
- Quisenberry, Carter E., to American Machine and Foundry Co. Juvenile truck. 184,370, 2-3-59, Cl. D34-15.
- Quistgaard, Jens H., to Dansk Designs Inc. Knife or similar article. 186,167, 9-22-59, Cl. D22-3.
- Rabb, Irving L. Combination closure cap and dispenser. 185,234, 5-19-59, Cl. D58-26.
- Rabinow, David. Model train transformer or similar article. 185,647, 7-7-59, Cl. D26-14.
- Rachmuth, Otto. Pendant. 184,536, 3-3-59, Cl. D45-17.
- Rachmuth, Otto. Pendant. 184,959, 4-21-59, Cl. D45-17.
- Radion Corp., The: *See*—
- Leonard, Ralph N. 185,757.
- Leonard, Ralph N. 185,859.
- Radke, Arthur O., to Bostrom Mfg. Co. Tractor seat. 184,371, 2-3-59, Cl. D14-6.
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- Rambusch Decorating Co.: *See*—
- Rambusch, Harold W., and Santos. 185,874.
- Rambusch, Harold W., and Santos. 185,974.
- Rambusch, Harold W., and J. Santos, to Rambusch Decorating Co. Ceiling light fixture or similar article. 185,874, 8-11-59, Cl. D48-23.
- Rambusch, Harold W., and J. Santos, to Rambusch Decorating Co. Illuminating fixture. 185,974, 8-25-59, Cl. D48-4.
- Ranco Inc.: *See*—
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- Raney, Estel C., to Ranco Inc. Room thermostat. 186,404, 10-20-59, Cl. D52-7.
- Ranieri, George, to Wings Boysewear, Inc. One piece sport shirt. 184,410, 2-10-59, Cl. D3-25.
- Rapp, Jean L., to The R. T. French Co. Dressed doll. 184,891, 4-14-59, Cl. D34-4.
- Rappoport, Seymour: *See*—
- Smith, James D., and Rappoport. 186,621.
- Rappoport, Seymour, to Ronson Corp. Cigar lighter or similar article. 184,581, 3-10-59, Cl. D48-27.
- Rassier, Cecil A. Stacking chair. 185,312, 5-26-59, Cl. D15-1.
- Rath, Eric. Ship or similar article. 186,340, 10-13-59, Cl. D71-1.
- Ratner, Edward. Shoe sole. 185,462, 6-9-59, Cl. D7-5.
- Rawson, Paul O., Jr.: *See*—
- Daher, Theodore G., and Rawson. 185,266.
- Moore, Walter E., Koepf, and Rawson. 184,757.
- Rawson, Paul O., Jr., to General Electric Co. Coffee maker or similar article. 186,238, 9-29-59, Cl. D44-26.
- Raybould, Stanley, to Firth Cleveland Tools Ltd. Block plane. 184,766, 3-31-59, Cl. D93-4.
- Raymond, Eugene. Battery charger. 184,960, 4-21-59, Cl. D26-15.
- Reading, Robert J., to General Electric Co. Baby dish or similar article. 185,614, 6-30-59, Cl. D81-10.
- Ready Tool Co.: *See*—
- Christensen, Carl B. 184,916.
- Reavis, Melvin L. Load lip for hand trucks. 185,039, 4-28-59, Cl. D14-3.



- Rector, Joseph, to Amerex Trading Corp. Fork or the like. 184,767, 3-31-59, Cl. D54-12.
- Rector, Joseph, to Amerex Trading Corp. Spoon or the like. 185,679, 7-14-59, Cl. D54-12.
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- Redka, Henry R. Peg board toy. 186,031, 9-1-59, Cl. D34-15.
- Redka, Henry R. Peg board toy. 186,032, 9-1-59, Cl. D34-15.
- Red Wing Products: *See*—  
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- Reed and Barton Corp.: *See*—  
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- Reed, Bayard C., to M. I. Glass. Bird figure. 184,457, 2-17-59, Cl. D34-2.
- Reed, Bayard C., and C. Ayala, to M. I. Glass. Toy mechanical hand. 185,571, 6-23-59, Cl. D34-15.
- Reed, Lorena P. Handbag. 184,892, 4-14-59, Cl. D87-3.
- Reese, Robert L. Mounting bar for hangers. 185,236, 5-19-59, Cl. D54-2.
- Reeves, Charles E., to Falcon Alarm Co., Inc. Horn housing. 185,931, 8-18-59, Cl. D72-1.
- Ref Mfg. Corp.: *See*—  
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- Reibling, August G. Wall plaque or similar article. 184,961, 4-21-59, Cl. D29-23.
- Reichow, James R., to Brown & Bigelow. Combined thermometer and memorandum pad holder. 185,313, 5-26-59, Cl. D74-1.
- Reichow, James R., to Brown & Bigelow. Clock. 185,871, 8-11-59, Cl. D42-7.
- Reichow, James R., to Brown & Bigelow. Ice cream scoop. 186,853, 12-15-59, Cl. D44-29.
- Reidelbach, John A., Jr. Joist hanger. 186,812, 12-8-59, Cl. D13-1.
- Reifers, Richard F.: *See*—  
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- Reifers, Richard F., to Diamond Gardner Corp. Molded pulp fruit tray. 185,463, 6-9-59, Cl. D58-13.
- Reifers, Richard F., to Diamond Gardner Corp. Custard tray. 186,851, 12-15-59, Cl. D44-10.
- Reinecke, Jean O.: *See*—  
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- Reinecke, Jean O., to Modine Mfg. Co. Heater casing. 184,458, 2-17-59, Cl. D81-19.
- Reinecke, Jean O., to Federal Tool Corp. Sprinkling can. 184,893, 4-14-59, Cl. D58-17.
- Reinecke, Jean O., to Federal Tool Corp. Waste basket. 185,314, 5-26-59, Cl. D58-4.
- Reinecke, Jean O., to Federal Tool Corp. Waste basket. 185,879, 8-11-59, Cl. D58-4.
- Reinecke, Jean O., to Derby Sealers, Inc. Tape dispenser. 186,143, 9-15-59, Cl. D74-1.
- Reinecke, Jean O., to Sunbeam Corp. Electrical distribution center with timer controlled circuits. 186,378, 10-20-59, Cl. D26-13.
- Reinecke, Jean O., to Derby Sealers, Inc. Tape dispenser. 186,483, 10-27-59, Cl. D74-1.
- Reinecke, Jean O., and J. K. Gerrie, to McGraw-Edison Co. Automatic clothes dryer. 185,876, 8-11-59, Cl. D49-2.
- Reineman, Richard G.: *See*—  
Anderson, Robert I., Reineman, and Schaefer. 184,329.
- Reiner, Kenneth. Lock nut. 186,858, 12-15-59, Cl. D54-9.
- Reinholdt, Friedrich. Warning reflector. 185,615, 6-30-59, Cl. D72-1.
- Renata S. A.: *See*—  
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- Rena-Ware Distributors: *See*—  
Jorgenson, Robert A. 186,836.
- Renfro Hosiery Mills Co.: *See*—  
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- Renn, Madeline S.: *See*—  
Renn, Neil R. and M. S. 185,776.
- Renn, Neil R. and M. S. Combined tooth brush, paste tube holder and savings bank. 185,776, 7-28-59, Cl. D4-3.
- Republic Aviation Corp.: *See*—  
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- Republic Molding Corp.: *See*—  
Schaefer, Robert L. 186,819.
- Ress, Charles. Trash can cart. 184,962, 4-21-59, Cl. D14-3.
- Ressegger, Lloyd E., to General Mills, Inc. Spoon or similar article. 186,054, 9-1-59, Cl. D54-12.
- Rettenmeyer, Frederick W., to The Napier Co. Liquid measuring cup or similar article. 184,638, 3-17-59, Cl. D44-29.
- Rettman, Robert J., to Jas. H. Matthews & Co. Memorial lamp or similar article. 184,290, 1-20-59, Cl. D48-20.
- Revere Camera Co.: *See*—  
Briskin, Theodore S., Davis, and Moore. 186,830.  
Briskin, Theodore S., and Pastor. 185,262.
- Rex, Charles H.: *See*—  
Pettengill, Myron F., and Rex. 186,786.
- Rex Metal-Craft, Inc.: *See*—  
Smith, Eston H. 186,945.
- Reynolds, Clarence R., to The Cleveland Skate Co., Inc. Skate chassis. 186,178, 9-22-59, Cl. D34-14.
- Reynolds, Frederick, to Chrysler Corp. Combined bumper, grille and lamp unit for an automobile. 184,492, 2-24-59, Cl. D14-18.
- Reynolds, J. H.: *See*—  
Schaefer, Harry P. 186,063.
- Rhoads, Delmar D. Cart. 186,710, 11-24-59, Cl. D14-3.
- Rhodes, Chester R.: *See*—  
Eisenberg, Irwin W., Dibble, Armstrong, Love, and Rhodes. 184,920.
- Rhyner, Roy C., to Wisconsin Tissue Mills. Napkin dispenser. 185,390, 6-2-59, Cl. D44-24.
- Riblet Tramway Co.: *See*—  
Sowder, Tony R. 185,243.
- Rice, Elizabeth W., to Congoleum-Nairn Inc. Hard surface floor covering or similar article. 184,537, 3-3-59, Cl. D92-17.
- Rich Industries, Inc.: *See*—  
Dodson, Adrain M. 186,388.
- Richards, John J., and M. E. Kottke. Weather vane. 184,372, 2-3-59, Cl. D52-9.
- Richards, Vernon J., and C. D. Wright. Sound chamber for loud speakers. 186,669, 11-17-59, Cl. D26-14.
- Rider, Harry N., to "Automatic" Sprinkler Corp. of America. Frame for a sprinkler head or similar article. 184,373, 2-3-59, Cl. D91-1.
- Riegel Textile Corp.: *See*—  
McEwan, Richard C. 186,205.
- Riemann, Josephine O. Footwear heel guard. 186,494, 11-3-59, Cl. D7-5.
- Rignoli, Alfred, to Armbrust Chain Co. Link chain for a bracelet or similar article. 184,832, 4-7-59, Cl. D45-4.
- Riley, George F. Toy satellite. 185,680, 7-14-59, Cl. D34-15.
- Ring, Ernest A. Pair of safety goggles. 186,792, 12-1-59, Cl. D57-1.
- Rippen, Kenneth H. Bell tower. 185,172, 5-12-59, Cl. D13-1.
- Ritter Co., Inc.: *See*—  
Ensign, Robert H., and Jackson. 184,426.
- Ritter, George B. Combined table and massaging unit. 186,932, 12-22-59, Cl. D83-1.
- Ritter, Heinrich: *See*—  
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- Ritts, George P. and L. M. Fishing lure. 184,291, 1-20-59, Cl. D31-4.
- Ritts, Lillian M.: *See*—  
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- Ritz Metal Products Co.: *See*—  
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- Riuli, Arduino, and G. I. Schrank. Valve actuating unit for a portable fire extinguisher or similar article. 186,764, 12-1-59, Cl. D16-2.
- Robbins, Gerald L., to Keyes Fibre Co. Packing tray for bottles. 185,777, 7-28-59, Cl. D58-13.
- Robbins, Montgomery H. Rotary diazo white printer. 186,474, 10-27-59, Cl. D61-5.
- Robert Co., The: *See*—  
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- Roberts, Bruce L.: *See*—  
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- Roberts, Bruce L., to Owens-Illinois Glass Co. Bottle. 186,411, 10-20-59, Cl. D58-6.
- Roberts, John A., to General Electric Co. Leak detector. 184,639, 3-17-59, Cl. D52-1.
- Roberts, John W. Folding table. 186,518, 11-3-59, Cl. D33-14.
- Roberts, Joseph R. Boat paddle. 186,252, 9-29-59, Cl. D71-1.
- Robertshaw-Fulton Controls Co.: *See*—  
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- Robinson, Forrest J. Weiner skinner. 185,315, 5-26-59, Cl. D55-1.
- Robinson, Girard B., to The Dr. Nathan Tucker Laboratory. Nebulizer. 185,237, 5-19-59, Cl. D83-1.
- Robinson, William H. Combined container and closure therefor. 186,291, 10-6-59, Cl. D58-12.6.
- Roche, Melvin E. Hinge for a pivotal bedframe. 185,173, 5-12-59, Cl. D5-2.
- Rockcote Paint Co.: *See*—  
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- Rockwell, Homer M. Game board. 185,572, 6-23-59, Cl. D34-5.
- Rockwell Mfg. Co.: *See*—  
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Brennan, Frederick S. 185,922.  
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- Rodeo Cowboys' Association, Inc.: *See*—  
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Ellis, Don V. 184,923.
- Rodriguez, Emil, to Jacoby-Bender, Inc. End link for a bracelet or the like. 185,316, 5-26-59, Cl. D45-4.
- Roehlke, Lee A.: *See*—  
Bolen, Waldo E., Jr., and Roehlke. 186,466.
- Roesch, Jerry F. Lipstick display stand. 184,963, 4-21-59, Cl. D80-9.



- Roesch, Roland D., W. R. Warren, and R. G. Ghriest. Micro-phone housing. 184,964, 4-21-59, Cl. D26-14.
- Roethel, George, Jr. Tear strip can opener. 184,640, 3-17-59, Cl. 44-29.
- Rogers Inc.: *See*—  
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- Rolfing, James E. Chord playing unit for an electronic organ. 186,191, 9-22-59, Cl. D56-2.
- Romar Filter Corp.: *See*—  
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- Romine, Roy T. to Wheelabrator Corp. Tumbling finishing machine. 186,627, 11-10-59, Cl. D55-1.
- Rommel, Alex A. Airship. 184,641, 3-17-59, Cl. D71-1.
- Rommel, Alex A. Airship. 186,744, 11-24-59, Cl. D71-1.
- Rommel, Alex A. Airship. 186,797, 12-1-59, Cl. D71-1.
- Ronnie Inc.: *See*—  
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- Ronson Corp.: *See*—  
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- Ropp, Clarence H., to F. H. Noble & Co. Plaque. 185,512, 6-16-59, Cl. D29-23.
- Rose, Duke J. Shoe. 186,066, 9-8-59, Cl. D7-7.
- Rose, John F.: *See*—  
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- Rosenberg, Harold B.: *See*—  
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- Rosenberg, Marvin E. Chair lift for invalids. 186,506, 11-3-59, Cl. D15-1.
- Rosene, John O. Support for coat hangers. 184,686, 3-24-59, Cl. D80-8.
- Rosenfeld, Alexander. Rotatable disk picture toy. 184,894, 4-14-59, Cl. D34-15.
- Rosenfeld, Alexander. Rotatable disk picture toy and game. 184,895, 4-14-59, Cl. D34-15.
- Rosenfield, William B.: *See*—  
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- Rosengren, Herbert, to Bostitch, Inc. Stapling machine. 186,201, 9-22-59, Cl. D74-1.
- Rosenkranz, Jules, to Lafayette Brass Mfg. Co., Inc. Water spray gun. 185,945, 8-18-59, Cl. D91-1.
- Rosenzweig, Hezekiah S. Bottle or similar article. 186,553, 11-3-59, Cl. D58-9.
- Rosenzweig, Martin, and H. Krisel, to Aluminum Co. of America. Playground device. 185,513, 6-16-59, Cl. D34-5.
- Rosenzweig, Philip. Drapery pleater hook. 184,768, 3-31-59, Cl. D17-12.
- Ross, Harvey H. Fence post top. 186,379, 10-20-59, Cl. D28-1.
- Ross, Mark. Portable fruit and vegetable cutting and stringing device. 185,317, 5-26-59, Cl. D89-1.
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- Roth, Louis H. Battery power pack. 186,713, 11-24-59, Cl. D26-15.
- Rowe, Alice M. Rubber doll. 184,769, 3-31-59, Cl. D34-4.
- Rowe Mfg. Co., Inc.: *See*—  
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- Rudebeck, Wayne F., to Mirro Aluminum Co. Cover handle. 185,643, 7-7-59, Cl. D44-29.
- Rudley, Joseph L., and A. F. De Angelis. Model bridge pier. 186,033, 9-1-59, Cl. D34-15.
- Rudolph, Robert W.: *See*—  
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- Rueff, Frank C. Surfboard. 186,341, 10-13-59, Cl. D71-1.
- Runkel, William J. Composition wood panel. 186,158, 9-22-59, Cl. D13-1.
- Ruskin, Henry: *See*—  
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- Ruskin, Henry, to Swingline, Inc. Tacker or similar article. 184,265, 1-13-59, Cl. D74-1.
- Russell, Ernest. Picture clip. 186,370, 10-20-59, Cl. D17-3.
- Russell, Fred J. Key. 184,374, 2-3-59, Cl. D50-4.
- Russell, Fred J. Escutcheon or similar article. 184,582, 3-10-59, Cl. D50-6.
- Russell, Fred J. Escutcheon or similar article. 184,583, 3-10-59, Cl. D50-6.
- Russell, Fred J. Escutcheon or similar article. 185,318, 5-26-59, Cl. D50-6.
- Russell, John D., and P. R. Johnson, to Joy Mfg. Co. Mine shuttle car. 185,174, 5-12-59, Cl. D14-3.
- Russell, Linus E., to Peters & Russell, Inc. Exhaust deflector. 184,642, 3-17-59, Cl. D14-6.
- Rutkowski, Roman, V. to South Bend Toy Mfg. Co., Inc. Croquet rack. 185,238, 5-19-59, Cl. D14-3.
- Rutkowski, Roman, V. to South Bend Toy Mfg. Co., Inc. Croquet rack. 185,239, 5-19-59, Cl. D14-3.
- Rutkus, John, Jr. Document reproducing apparatus. 186,832, 12-8-59, Cl. D64-11.
- Rutledge, Bradley, and A. J. Kirth, to Crown Zellerbach Corp. Paper table napkin or similar article. 184,320, 1-27-59, Cl. D59-2.
- Rutledge, Ralph J., Sr. Holder for a baby nursing bottle or the like. 186,296, 10-6-59, Cl. D83-8.
- Rutter, Sheldon M., and H. J. Talge, to J. C. Hockery, trustee. Combined power-operated can opener and clock. 186,106, 9-15-59, Cl. D22-2.
- Rutter, Sheldon M., and H. J. Talge, to J. C. Hockery, Trustee. Combined power-operated can opener and clock. 186,166, 9-22-59, Cl. D22-2.
- Rutter, Sheldon M., and H. J. Talge, to J. C. Hockery. Wall-type power-operated can opener. 186,274, 10-6-59, Cl. D22-2.
- Rutter, Sheldon M., and H. J. Talge. Combined power-operated can opener and clock. 186,312, 10-13-59, Cl. D22-2.
- Ruzick, Victor, and H. C. Mix. Hydraulic tracer valve for machine tool. 185,935, 8-18-59, Cl. D78-1.
- Ryan, George R., to Abbott Laboratories. Label. 185,514, 6-16-59, Cl. D1-8.
- Rybicki, Irvin V., to General Motors Corp. Automobile. 185,040, 4-28-59, Cl. D14-3.
- S & S Corrugated Paper Machinery Co. Inc.: *See*—  
Shields, Albert F. 184,645.
- Saathoff, Edward E. Panel or the like. 186,362, 10-20-59, Cl. D13-1.
- Saba, Tuffie P. Can cart. 185,573, 6-23-59, Cl. D14-3.
- Sachs, Charles M. Brassiere. 185,240, 5-19-59, Cl. D20-4.
- Saffer, Meyer. Combined cup and drinking tube handle. 185,971, 8-25-59, Cl. D44-9.
- Saffer, Meyer. Combined cup and drinking tube handle. 186,535, 11-3-59, Cl. D44-9.
- Safianoff, Albert: *See*—  
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- Sager, Leonard H., to Soriano Ceramics, Inc. Display envelope for ceramic tiles or similar article. 184,687, 3-24-59, Cl. D80-7.
- Sager, Mason M., to Paramount Wedding Ring Co. Finger ring. 184,833, 4-7-59, Cl. D45-10.
- Saint-Amour, John D., to Assembly Products, Inc. Electric meter. 186,550, 11-3-59, Cl. D52-1.
- St. Claire, Carlos V. Pipe wrench. 186,132, 9-15-59, Cl. D54-16.
- St. Lawrence Mfg. Co. Inc.: *See*—  
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- Salm, Arthur, Inc.: *See*—  
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- Salsbury Corp.: *See*—  
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- Sampson, Rudolph A.: *See*—  
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- Samsen, John R., to Chrysler Corp. Automobile bumper. 186,876, 12-22-59, Cl. D14-6.
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- Sand, Carl A., to The Brunhoff Mfg. Co. Combined display case and dispenser for cereal boxes and the like. 185,938, 8-18-59, Cl. D80-11.
- Sanderson, Gladys L. and H. C. Children's play house. 185,041, 4-28-59, Cl. D34-15.
- Sanderson, Herbert C.: *See*—  
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- Sandin, Ray C., to General Electric Co. Refrigerator cabinet. 184,896, 4-14-59, Cl. D67-3.
- Sandin, Ray C., and R. M. La Zar, to General Electric Co. Console television cabinet. 186,628, 11-10-59, Cl. D56-4.
- Sanjo Utility Mfg. Co., Inc.: *See*—  
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- Santos, Joaquin: *See*—  
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Rambusch, Harold W., and Santos. 185,974.



- Santry, John H. Arrow head. 184,538, 3-3-59, Cl. D30—1.
- Sapiro, Alexander K. Combined money clip and change purse. 186,933, 12-22-59, Cl. D87—3.
- Saporito, Dominic A., F. A. Ilenin, and F. Hertzler, to Sylva Electric Products Inc. Motion picture projector. 186,959, 12-29-59, Cl. D61—1.
- Sarro, Silvio. Toilet tissue dispenser. 186,493, 11-3-59, Cl. D4—3.
- Sasaki, Isao. Carrier for golf clubs. 186,029, 9-1-59, Cl. D34—5.
- Sasaki, Isao. Golf club carrier for attachment to a golf cart. 186,715, 11-24-59, Cl. D34—5.
- Sauey, William R. Shot gun shell box. 185,241, 5-19-59, Cl. D58—13.
- Saverin, Albert A., 50% to A. J. Sullivan. Statue dress. 186,774, 12-1-59, Cl. D29—26.
- Saviano, Faye E. Basket. 185,989, 8-25-59, Cl. D58—4.
- Savoy Hotel Ltd., The: See—  
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- Sayih, James M. Combined dial and hands for a clock or similar article. 185,242, 5-19-59, Cl. D42—1.
- Scanlon, Edward C. Furniture caster. 184,292, 1-20-59, Cl. D10—6.
- Schaefer, Edward E. Display hanger. 184,375, 2-3-59, Cl. D80—8.
- Schaefer, F. & M., Brewing Co., The: See—  
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- Schaefer, George E.: See—  
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- Schaefer, George E., to The Brunswick-Balke-Collender Co. Span measuring device for bowling balls and the like. 185,920, 8-18-59, Cl. D52—1.
- Schaefer, Harry P., 50% to J. H. Reynolds. Plastic wall covering or similar article. 186,063, 9-1-59, Cl. D87—3.
- Schaefer, Robert L., to Republic Molding Corp. Vegetable bin. 186,819, 12-8-59, Cl. D44—1.
- Scharf, I. J., Co., Inc.: See—  
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- Schaumer, Theo. B., to Munsingwear, Inc. Brassiere. 186,375, 10-20-59, Cl. D20—4.
- Schaumer, Theo. B., to Munsingwear, Inc. Brassiere. 186,376, 10-20-59, Cl. D20—4.
- Schechter, Arnold N. Combined canisters and cabinet therefor. 186,680, 11-17-59, Cl. D44—6.
- Scheid, Erich M. Head for a vacuum cleaner. 184,688, 3-24-59, Cl. D9—2.
- Scheiding, Arno H.: See—  
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Sylvester, Arthur D., and Scheiding. 185,723.
- Scheiding, Arno H., to L. E. Carpenter & Co., Inc. Plastic sheet material or similar article. 184,266, 1-13-59, Cl. D87—3.
- Scheiding, Arno H., to L. E. Carpenter & Co., Inc. Plastic sheet material or similar article. 184,493, 2-24-59, Cl. D87—3.
- Schemansky, Joseph R., to General Motors Corp. Automobile. 186,160, 9-22-59, Cl. D14—3.
- Schenley Industries, Inc.: See—  
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- Schering Corp.: See—  
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- Scheurmann, Otto A.: See—  
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- Schick Inc.: See—  
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- Schier, Robert W., to The Parker Pen Co. Writing instrument. 186,148, 9-15-59, Cl. D74—17.
- Schier, Robert W., to The Parker Pen Co. Writing instrument. 186,149, 9-15-59, Cl. D74—17.
- Schiller, Charles P. Corer or the like. 185,574, 6-23-59, Cl. D89—1.
- Schindler, Raymond G. Line post fitting for fences. 185,099, 5-5-59, Cl. D28—1.
- Schinske, William G., to Ideal Industries, Inc. Electric cap connector. 186,596, 11-10-59, Cl. D26—10.
- Schinske, William G., to Ideal Industries, Inc. Wire connector. 186,597, 11-10-59, Cl. D26—10.
- Schinske, William G., to Ideal Industries, Inc. Screw-on wire connector. 186,598, 11-10-59, Cl. D26—10.
- Schinske, William G., to Ideal Industries, Inc. Cap connector. 186,599, 11-10-59, Cl. D26—10.
- Schinske, William G., to Ideal Industries, Inc. Electric connector. 186,600, 11-10-59, Cl. D26—10.
- Schlaechter, John H., to Industrial Nucleonics Corp. Industrial gauging head with traversing mount for detecting sheet material properties. 184,834, 4-7-59, Cl. D52—1.
- Schlage Lock Co.: See—  
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- Schlatterer, Max A. Combined cigarette extinguisher and support. 184,459, 2-17-59, Cl. D85—2.
- Schlatterer, Max A. Combined cigarette extinguisher and support. 185,042, 4-28-59, Cl. D85—2.
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- Schlosser, Raphael. Tongue depressor. 185,100, 5-5-59, Cl. D83—12.
- Schlumberger, Jean, to Helena Rubinstein, Inc. Lipstick case. 185,319, 5-26-59, Cl. D86—10.
- Schlumberger, Jean, and E. Noyack, to Helena Rubinstein, Inc. Lipstick case. 185,320, 5-26-59, Cl. D86—10.
- Schlumberger, Jean, and E. Noyack, to Helena Rubinstein, Inc. Lipstick case. 185,321, 5-26-59, Cl. D86—10.
- Schlumbohm, Peter. Fan. 185,175, 5-12-59, Cl. D26—7.
- Schlumbohm, Peter. Lid for frying pans. 185,464, 6-9-59, Cl. D44—1.
- Schlumbohm, Peter. Kitchen flask. 185,465, 6-9-59, Cl. D44—1.
- Schlumbohm, Peter. Drinking glass or similar vessel. 185,649, 7-7-59, Cl. D36—8.
- Schmid International: See—  
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- Schmidt, Finn. Masonry hammer. 185,948, 8-18-59, Cl. D93—4.
- Schmidt, William C., to The Cincinnati Butchers' Supply Co. Knife. 185,616, 6-30-59, Cl. D22—3.
- Schmidt, William M., and M. H. Boldt. Phonograph cabinet. 184,770, 3-31-59, Cl. D56—4.
- Schnall, Murray. Tray for a wrapped fruit container. 185,993, 8-25-59, Cl. D58—26.
- Schneider, John F. Golf putter head. 186,522, 11-3-59, Cl. D34—5.
- Schneider, Jos., & Co., Optische Werke: See—  
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- Schnitzer, Louis J., to Inland Engineering, Inc. Safety scissors. 186,767, 12-1-59, Cl. D22—5.
- Schoen, Edward. Combined telephone holder, note and index receptacle or similar article. 184,411, 2-10-59, Cl. D26—14.
- Schoenfeld, Samuel R. Handbag. 184,689, 3-24-59, Cl. D87—3.
- Scholl, Leidy G. Shoe brush. 185,466, 6-9-59, Cl. D9—2.
- Scholl, William M. Foot massager, or similar article. 185,322, 5-26-59, Cl. D83—1.
- Scholl, William T., Sr. Supporting cushion for a professional chair or a similar article. 186,659, 11-17-59, Cl. D15—3.
- Schooler, Nathan. Monument. 184,494, 2-24-59, Cl. D79—2.
- Schotland, Murray. Eyelash-brush. 184,965, 4-21-59, Cl. D86—10.
- Schotland, Murray. Container for a hair brush. 185,943, 8-18-59, Cl. D86—10.
- Schotland, Murray. Hair brush. 186,203, 9-22-59, Cl. D86—10.
- Schramm, Herbert T., to Lockheed Aircraft Corp. Center point indicator. 186,408, 10-20-59, Cl. D54—13.
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- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Girl's bicycle frame. 185,575, 6-23-59, Cl. D90—8.
- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Veloci-pede front fender and truss rod ensemble. 185,681, 7-14-59, Cl. D34—15.
- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Accessory tank for a bicycle. 185,830, 8-4-59, Cl. D90—1.
- Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Veloci-pede fender. 185,909, 8-18-59, Cl. D34—15.
- Schreiber, Tania, to Fibreboard Paper Products Corp. Lino-leum or similar article. 184,690, 3-24-59, Cl. D92—17.
- Schroeder, Walter W. Molded casing. 185,959, 8-25-59, Cl. D26—1.
- Schroedter, Howard C.: See—  
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- Schuetz, Harry G. Combined display stand and dispenser for toothbrushes and the like. 186,747, 11-24-59, Cl. D80-5.
- Schultz, Charles J. Anchor boom for a boat. 184,584, 3-10-59, Cl. D71-1.
- Schultz, Lorraine A. Game board. 186,817, 12-8-59, Cl. D34-5.
- Schumacher, Walter B., and A. M. Best, to Sperry Rand Corp. Wagon. 186,503, 11-3-59, Cl. D14-3.
- Schumb, Martin T., to The Murray Co. of Texas, Inc. Speed reducer or similar article. 186,954, 12-29-59, Cl. D55-1.
- Schumb, Martin T., to The Murray Co. of Texas, Inc. Speed reducer or similar article. 186,955, 12-29-59, Cl. D55-1.
- Schumb, Martin T., to The Murray Co. of Texas, Inc. Speed reducer or similar article. 186,956, 12-29-59, Cl. D55-1.
- Schuss, Philip, to Columbus Coated Fabrics Corp. Embossed plastic sheet material. 185,043, 4-28-59, Cl. D87-3.
- Schuster, William T. Automatic water supplying device for wet batteries. 184,539, 3-3-59, Cl. D26-6.
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- Schwartz, John J., to Brown & Bigelow. Combination scale and level. 186,623, 11-10-59, Cl. D52-1.
- Schwartz, Joseph G., and W. Cheifetz. Warning sign. 186,482, 10-27-59, Cl. D72-1.
- Schwartz, Milton. Building. 184,242, 1-6-59, Cl. D13-1.
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- Schwartz, Sidney, to Bantam-Lite, Inc. Combined keycase and article holder. 186,092, 9-8-59, Cl. D87-3.
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- Scofield, Donald H., to Insul-8 Corp. Electrical conductor of the suspended cable type. 185,856, 8-11-59, Cl. D26-1.
- Scofield, Donald H., to Insul-8 Corp. Electrical conductor of the suspended cable type. 186,072, 9-8-59, Cl. D26-1.
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- Sherman, Jacob S., to Park Sherman Co. Combined calendar and desk set base. 186,700, 11-17-59, Cl. D74-1.
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- Spielman, Albert, to Sanjo Utility Mfg. Co., Inc. Towel rack or similar article. 184,323, 1-27-59, Cl. D4-3.
- Spilman, Raymond, to Simmons Co. Chair. 186,658, 11-17-59, Cl. D15-1.
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- Spilman, Raymond, and R. Engel, to Underwood Corp. Typewriting machine. 185,393, 6-2-59, Cl. D64-11.
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- Stark, William, to Scotland Mills Inc. Chenille textile fabric or similar article. 184,693, 3-24-59, Cl. D92-1.
- Stark, William, to Aileen Mills Co. Chenille textile fabric or similar article. 184,694, 3-24-59, Cl. D92-1.
- Stark, William, to Aileen Mills Co. Chenille textile fabric or similar article. 184,695, 3-24-59, Cl. D92-1.
- Stark, William, to Heritage Weavers. Chenille fabric or similar article. 185,046, 4-28-59, Cl. D92-1.
- Stark, William, to Heritage Weavers. Chenille fabric or similar article. 185,047, 4-28-59, Cl. D92-1.
- Stark, William, to Aileen Mills Co. Textile fabric or similar article. 185,328, 5-26-59, Cl. D92-1.
- Stark, William, to Aileen Mills Co. Textile fabric or similar article. 185,470, 6-9-59, Cl. D92-1.
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- Stevko, Martin J., to General Telephone Laboratories, Inc. Telephone stand. 186,668, 11-17-59, Cl. D26-14.
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- Strauss, Bertram A., to Columbia Pen & Pencil Co., Inc. Desk pen stand. 186,145, 9-15-59, Cl. D74-1.
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- Szantay, Elmer. Lighting fixture panel. 186,399, 10-20-59, Cl. D48-16.
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- Talge, Henry J., and J. B. Aberer, to J. C. Hockery. Meat grinder. 185,895, 8-11-59, Cl. D89-1.
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- Tupper, Earl S., to Tupper Corp. Combined cleaning brush and cutting tool. 185,586, 6-23-59, Cl. D9—2.
- Tupper, Earl S., to Tupper Corp. Mixer or the like. 185,780, 8-4-59, Cl. D2—3.
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- Turner, John B., to Bennett-Ireland, Inc. Combination fender and andiron. 185,248, 5-19-59, Cl. D81—5.
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- Ullman, Henry, to The Mettoy Co. Ltd. Toy figure. 186,174, 9-22-59, Cl. D34—4.
- Ullman, Seymour. Coin tray. 185,105, 5-5-59, Cl. D52—4.
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- Van Sciver, Edwin P., to Philco Corp. Oven. 184,839, 4-7-59, Cl. D81—26.
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- Vetere, Nicholas A., to Arrow Metal Products Corp. Inc. Double free-standing outdoor shelter. 186,656, 11-17-59, Cl. D13—1.
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- Vivian, William W., to Grand Haven Harbor Industries, Inc. Display case. 186,089, 9-8-59, Cl. D80-9.
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- Voorhees, Maynard K. and R. W. Water fountain for livestock. 185,650, 7-7-59, Cl. D12-2.
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- Vose, Robert W., to Moore Drop Forging Co. Operating lever for a ratchet wrench. 185,651, 7-7-59, Cl. D54-15.
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- Walker, George W., to Ford Motor Co. Bumper extension. 186,215, 9-29-59, Cl. D14-6.
- Walker, George W., to Ford Motor Co. Lamp lens for automobiles or the like. 186,622, 11-10-59, Cl. D48-32.
- Walker, George W., to Ford Motor Co. Motor vehicle headlamp door. 186,721, 11-24-59, Cl. D48-32.
- Walker, George W., to Ford Motor Co. Lamp lens for automobiles or the like. 186,723, 11-24-59, Cl. D48-32.
- Walker, George W., to Ford Motor Co. Rear view mirror. 186,844, 12-15-59, Cl. D14-6.
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- Walsh, John C., and J. G. Arganbright, to Cherry-Burrell Corp. Ice cream freezer. 184,325, 1-27-59, Cl. D67-1.
- Walsh, John P. Resilient clip. 185,794, 8-4-59, Cl. D17-3.
- Walsh, Ralph E. Aircraft positioning vehicle. 186,939, 12-29-59, Cl. D14-3.
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- Waltman, Chauncey E., to Dominion Electric Corp. Toaster. 184,901, 4-14-59, Cl. D81-10.
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- Warp, Harold, to Flex-O-Glass, Inc. Dispenser for sheet material. 185,053, 4-28-59, Cl. D4-3.
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- Welch, Medard W., and J. Dubrovin. Head for a hand vacuum cleaner. 184,786, 3-31-59, Cl. D9-2.
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- Wenger, Harry J. Music stand. 186,895, 12-22-59, Cl. D33-10.
- Werner, Wilbert A. Clothes washing plunger. 185,689, 7-14-59, Cl. D49-1.
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- White, Roger B., to The Glastic Corp. Electrical standoff insulator. 184,698, 3-24-59, Cl. D26-10.
- White, Warren W.: *See*—  
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- Wickenburg, Chester H., and M. Lorenzana, to Sunbeam Corp. Coffee maker. 186,182, 9-22-59, Cl. D44-26.
- Wiebe, Muriel M. Game board or similar article. 185,334, 5-26-59, Cl. D34-5.
- Wieland, Daryle W. Shield for electric wall sockets. 185,725, 7-21-59, Cl. D26-13.
- Wiesner, Joseph. Combination comb and lighter. 184,904, 4-14-59, Cl. D48-27.
- Wigal, Voorhis F., to T. M. Johnson. Toy vehicle. 184,590, 3-10-59, Cl. D34-15.
- Wilber, Howard L. Speaker cabinet. 186,892, 12-22-59, Cl. D26-14.
- Wilcox, Kenneth E.: *See*—  
Overholser, John S., Bean, Jones, and Wilcox. 185,459.  
Overholser, John S., Bean, and Wilcox. 184,533.
- Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Lens housing for automobiles. 186,905, 12-22-59, Cl. D48-32.
- Wilhelm, Gary: *See*—  
Liedke, Carl F., and Wilhelm. 185,374.
- Wilhelmi, Julius B.: *See*—  
Knowlton, David R., and Wilhelmi. 184,401.
- Wilhelmi, Julius B. Furniture glide. 184,414, 2-10-59, Cl. D10-6.
- Wilhelmi, Julius B. Twin furniture glide. 184,415, 2-10-59, Cl. D10-6.
- Wilkins, Don E. Playground structure. 185,335, 5-26-59, Cl. D34-5.
- Wilkins, John H., Co.: *See*—  
Henson, James M., and Nebel. 186,119.  
Henson, James M., and Nebel. 186,120.
- Williams, Daniel S. Roller skate. 184,650, 3-17-59, Cl. D34-14.
- Williams, Daniel S. Roller skate. 185,966, 8-25-59, Cl. D34-14.
- Williams, John L., to Ekco Products Co. Stock truck. 184,787, 3-31-59, Cl. D14-3.
- Williams, Noble S., to American Optical Co. Automobile body. 184,591, 3-10-59, Cl. D14-3.
- Williams, Philip M., to Keyes Fibre Co. Molded pulp tray. 185,652, 7-7-59, Cl. D58-13.
- Williams, William M., to W. A. Sheaffer Pen Co. Fountain pen or the like. 186,923, 12-22-59, Cl. D74-17.
- Williams, William W., to Vista Furniture Co. Chair. 184,387, 2-3-59, Cl. D15-1.
- Williamson, Oliver A. Broach or similar article. 184,269, 1-13-59, Cl. D45-19.
- Willinger, Allan H. Aquarium filter. 184,842, 4-7-59, Cl. D91-2.
- Willinger, Allan H. and H. W. Aquarium. 186,837, 12-8-59, Cl. D91-2.
- Willis, Robert J. Baby bath. 186,578, 11-10-59, Cl. D4-4.
- Wills, Franklin M., to Burwood Products Co. Clock face. 186,850, 12-15-59, Cl. D42-7.
- Wilson, Arthur W. F. K. Advertising sign. 186,491, 11-3-59, Cl. D1-12.
- Wilson, Glen S., to A. Sims. Serving tray for automobiles. 186,366, 10-20-59, Cl. D14-6.
- Wilson, Harold. Butter measurer. 186,403, 10-20-59, Cl. D52-1.
- Wilson Jones Co.: *See*—  
Marano, Herbert W. 185,295.
- Wilson, Robert G. Combined barbecue machine and food warmer. 185,251, 5-19-59, Cl. D81-10.
- Wilson, Robert H., to Northrop Corp. Transistor clip. 186,435, 10-27-59, Cl. D26-1.
- Wilton Tool Mfg. Co., Inc.: *See*—  
Vogl, Hugh W. 184,413.
- Winans, Mary J., to Gladding, McBean & Co. Teapot or the like. 185,054, 4-28-59, Cl. D44-26.
- Winans, Mary J., to Gladding, McBean & Co. Coffee pot or the like. 185,055, 4-28-59, Cl. D44-26.
- Wince, Pearl S.: *See*—  
Franck, Kurt, and Wince. 184,722.  
Franck, Kurt, and Wince. 185,975.
- Wings Boyswear, Inc.: *See*—  
Ranieri, George. 184,410.
- Winkler, Adolph, to Hilton Watch Co. Watch case. 184,270, 1-13-59, Cl. D42-8.
- Wintermantel, Norman G., to American Machine and Foundry Co. Combined cycle mud guard and shield therefor. 184,843, 4-7-59, Cl. D90-5.
- Wisconsin Tissue Mills: *See*—  
Rhyner, Roy C. 185,390.
- Wise, George. Holder for tubes, shaving gear, and the like. 185,182, 5-12-59, Cl. D4-3.
- Wise, George. Holder for tubes, shaving gear, and the like. 185,950, 8-25-59, Cl. D4-3.
- Wise, George. Holder for tubes, shaving gear, and the like. 186,064, 9-8-59, Cl. D4-3.
- Wisotsky, Harry A. Miniature fish tank. 186,647, 11-10-59, Cl. D91-2.
- Wistrand, John C., to Brown & Bigelow. Hand vacuum cleaner. 184,467, 2-17-59, Cl. D9-2.
- Wistrand, John C., to Brown & Bigelow. Desk fan. 184,468, 2-17-59, Cl. D62-4.
- Wiswell, Grant A. Vending machine for capsules. 185,983, 8-25-59, Cl. D52-3.



- Wittie, William W., to Blowers, Inc. Inspection light for jet plane fuel cells and the like. 186,620, 11-10-59, Cl. D48-20.
- Wixted, Edward M.: *See*—  
Pickerell, Fred T., Wixted, and Graham. 184,636.
- Wlaschin, Walter F., and H. W. Nieman. Combined helicopter and automobile. 184,501, 2-24-59, Cl. D71-1.
- Wolf, William, to Quaker Lace Co. Tablecloth. 184,788, 3-31-59, Cl. D92-26.
- Wolf, William, to Quaker Lace Co. Tablecloth. 185,779, 7-28-59, Cl. D92-26.
- Wolfe, Robert A., to Spear Products, Inc. Phonograph record repeater. 184,502, 2-24-59, Cl. D56-4.
- Wolfer, Otto J., to The Pure Oil Co. Tire. 185,110, 5-5-59, Cl. D90-20.
- Wolff, Raymond W., to Helena Rubinstein, Inc. Lipstick case. 185,336, 5-26-59, Cl. D86-10.
- Wolff, Raymond W., to Helena Rubinstein, Inc. Lipstick case. 185,337, 5-26-59, Cl. D86-10.
- Wolff, Raymond W., to Helena Rubinstein, Inc. Lipstick case. 185,338, 5-26-59, Cl. D86-10.
- Wolff, Raymond W., to Helena Rubinstein, Inc. Lipstick case. 185,339, 5-26-59, Cl. D86-10.
- Wollett, William A. Airplane. 185,821, 8-4-59, Cl. D71-1.
- Wood, Conrad, to James Heddon's Sons. Fish lure. 184,271, 1-13-59, Cl. D31-4.
- Wood Conversion Co.: *See*—  
Griswold, John S. 184,810.  
Griswold, John S. 184,811.  
Griswold, John S. 185,637.  
Griswold, John S. 186,165.
- Wood, John, Co.: *See*—  
Bowden, Benjamin G. 184,557.  
Bowden, Benjamin G. 186,824.  
Bowden, Benjamin G. 186,825.
- Woodhouse, William H., to Lace Art, Inc. Lace fabric or similar article. 185,690, 7-14-59, Cl. D47-6.
- Woodhouse, William H., to Lace Art, Inc. Lace fabric or similar article. 185,691, 7-14-59, Cl. D47-6.
- Woods, Charles A. Ash tray. 185,653, 7-7-59, Cl. D85-2.
- Woodson, John A.: *See*—  
Cole, Richard C., and Woodson. 186,480.
- Woofter, Cecil B.: *See*—  
Harley, Don, and Woofter. 186,109.
- Woofter, Cecil B., D. Harley, and A. Salm, to Arthur Salm, Inc. Bowl. 184,651, 3-17-59, Cl. D44-15.
- Woolever, Dwight E. Catamaran hull. 184,844, 4-7-59, Cl. D71-1.
- Wormser, Robert S., to The Mexico Forge, Inc. Suspension trestle for playground swings. 184,326, 1-27-59, Cl. D34-5.
- Wormser, Robert S., to The Mexico Forge, Inc. Playground tree climber for children. 186,232, 9-29-59, Cl. D34-5.
- Wormser, Robert S., to The Mexico Forge, Inc. Playground climbing tower. 186,525, 11-3-59, Cl. D34-5.
- Wormser, Robert S., to The Mexico Forge, Inc. Playground fireman slide. 186,608, 11-10-59, Cl. D34-5.
- Wowk, Maria. Dress. 186,577, 11-10-59, Cl. D3-26.
- Wozena, Peter W., to General Motors Corp. Automobile. 185,183, 5-12-59, Cl. D14-3.
- Wozena, Peter W., to General Motors Corp. Automobile grille unit or the like. 185,252, 5-19-59, Cl. D54-2.
- Wrablica, Paul, Jr.: *See*—  
Haun, Burton O., Jr., Moks, and Wrablica. 185,638.  
Haun, Burton O., Jr., Moks, and Wrablica. 186,769.
- Wright, Charles D.: *See*—  
Richards, Vernon J., and Wright. 186,669.
- Wright Mfg. Co.: *See*—  
Petrie, Gordon D. 184,490.
- Wright, Orville. Combined mail box and lamp. 185,523, 6-16-59, Cl. D74-9.
- Wright, Robert J., and R. Kopernak. Television cart. 185,956, 8-25-59, Cl. D14-3.
- Wright, Russel. Plastic sheet material. 184,296, 1-20-59, Cl. D87-3.
- Wright, Russel. Plastic sheet material. 185,726, 7-21-59, Cl. D87-3.
- Wunderly, Ray J., to National Cordial Co. Bottle. 186,472, 10-27-59, Cl. D58-6.
- Wuollett, Howard L. Cushion. 185,477, 6-9-59, Cl. D15-8.
- Wurtz, Paul. Display case for mementos or similar articles. 185,478, 6-9-59, Cl. D80-5.
- Xtazy, Maria. Reversible bracelet. 186,542, 11-3-59, Cl. D45-4.
- Yager, Harry: *See*—  
Kahn, David. 185,932.
- Yager, Harry L. Portable mixer. 185,844, 8-11-59, Cl. D14-3.
- Yamada, Koichi. Sewing machine. 186,417, 10-20-59, Cl. D70-1.
- Yamaguchi, Hideo to Nikka Rubber Co., Ltd. Foot protector or similar article. 185,340, 5-26-59, Cl. D7-7.
- Yamaguchi, Hideo, to Nikka Rubber Co., Ltd. Foot protector or similar article. 185,407, 6-2-59, Cl. D7-7.
- Yamasaki, Kim: *See*—  
Chapman, Frederick D., and Yamasaki. 184,851.
- Yamasaki, Kim, to Speed-O-Print Corp. Address printing machine. 186,477, 10-27-59, Cl. D64-11.
- Yamen, Irving A., and W. W. Smith, to Dust-Tex Corp. Mop head. 185,727, 7-21-59, Cl. D9-2.
- Yang, Peter Q., to Salton Mfg. Co., Inc. Warming tray. 186,968, 12-29-59, Cl. D81-10.
- Yarick, Henry W., Jr., to The Garrett Corp. Molded composition terminal for a cable. 186,887, 12-22-59, Cl. D26-1.
- Yashica Co. Ltd.: *See*—  
Miyachi, Hideo. 186,831.  
Someha, Keiichi, and Kaiya. 186,337.
- Yearley, George W., to True Temper Corp. Window cleaner or similar article. 186,268, 10-6-59, Cl. D9-2.
- Yeiser, John O.: *See*—  
Hall, Hugh J., and Yeiser. 184,479.
- Yerace, Dominick J., and El. R. Murner. Telephone attachment. 185,111, 5-5-59, Cl. D85-2.
- Yetter, Lloyd E. Rack for gardening tools. 184,592, 3-10-59, Cl. D35-1.
- Yoder, Stanley W. Vehicle license plate frame. 186,430, 10-27-59, Cl. D14-6.
- Yonkers, Robert A., and H. T. Lathrop, to Bissell Carpet Sweep Co. Surface treating machine for cleaning carpets or the like. 186,360, 10-20-59, Cl. D9-2.
- Young, Charles A. School emblem. 185,728, 7-21-59, Cl. D29-2.
- Young, John P., and C. A. Arnold, to Lyon Inc. Knife or similar article of flatware. 185,479, 6-9-59, Cl. D54-12.
- Young, John P., and C. A. Arnold, to Lyon Inc. Fork or similar article of flatware. 185,480, 6-9-59, Cl. D54-12.
- Young, John P., and C. A. Arnold, to Lyon Inc. Knife or similar article of flatware. 185,481, 6-9-59, Cl. D54-12.
- Young, John P., and C. A. Arnold, to Lyon Inc. Fork or similar article of flatware. 185,524, 6-16-59, Cl. D54-12.
- Young, Marshall B., to Eagle Pencil Co. Lead pencil or similar article. 184,699, 3-24-59, Cl. D74-24.
- Young, Paul. Combined meat server and holder rack. 186,046, 9-1-59, Cl. D44-29.
- Young, Stephen A. Shower head or the like. 185,588, 6-23-59, Cl. D91-3.
- Zadek Feldstein Co. Inc.: *See*—  
Pearl, Curtis F. 184,408.
- Zagrodny, Leon E.: *See*—  
Burck, Michael, and Zagrodny. 185,488.
- Zahariades, Michael G. Pipe and fitting gauge. 184,845, 4-7-59, Cl. D52-1.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,731, 11-24-59, Cl. D62-2.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,732, 11-24-59, Cl. D62-2.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,733, 11-24-59, Cl. D62-2.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,734, 11-24-59, Cl. D62-2.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,735, 11-24-59, Cl. D62-2.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,736, 11-24-59, Cl. D62-2.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,737, 11-24-59, Cl. D62-2.
- Zapolski, Bronislaw, to Union Carbide Corp. Spray gun unit. 186,738, 11-24-59, Cl. D62-2.
- Zdara, Robert E., and R. C. Krall, to The Weatherhead Co. Regulator or similar article. 186,925, 12-22-59, Cl. D78-1.
- Zehntner, Kurt, to Renata S. A. Box for balance wheels. 184,789, 3-31-59, Cl. D58-11.
- Zeiler, Henry, and A. H. Herter. Portable fan. 184,469, 2-17-59, Cl. D26-7.
- Zenith Radio Corp.: *See*—  
Boldt, Melvin H. 185,731.  
Boldt, Melvin H. 185,732.  
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Boldt, Melvin H. 186,689.  
Boldt, Melvin H. 186,690.  
Boldt, Melvin H. 186,691.  
Boldt, Melvin H. 186,815.  
Criswell, Byron R. 185,740.
- Zerkowitz, Albert. Shoe sole. 185,654, 7-7-59, Cl. D7-5.
- Zerkowitz, Albert. Shoe. 186,154, 9-22-59, Cl. D7-5.
- Zerkowitz, Albert. Shoe. 186,267, 10-6-59, Cl. D7-7.
- Zevas, Peter, to Congoleum-Nairn Inc. Hard surface floor covering or similar article. 186,206, 9-22-59, Cl. D92-17.



- Ziegler, Helen M. Shirt folding board. 185,482, 6-9-59, Cl. D49—1.
- Ziegler, Russell A. Shirt folding board. 185,483, 6-9-59, Cl. D49—1.
- Zierhut, Harold, to Southern California Pipe & Steel Co. Playground climbing apparatus or similar article. 186,122, 9-15-59, Cl. D34—5.
- Zimmerman, Jack. Card holding clip. 185,408, 6-2-59, Cl. D17—3.
- Zimmermann, Herbert P.: *See—*  
 McCarthy, Joseph H., and Zimmermann. 184,530.  
 McCarthy, Joseph H., and Zimmermann. 185,558.  
 McCarthy, Joseph H., and Zimmermann. 185,867.
- Zion, Moses, to The Lionel Corp. Toy culvert unloader and station. 186,527, 11-3-59, Cl. D34—15.
- Zirolì, Alfred E.: *See—*  
 Cagan, Bernard J., and Zirolì. 185,733.
- Zucconi, Bruno. Impedance matching transformer or similar article. 184,470, 2-17-59, Cl. D26—15.
- Zuckerwar, Richard, to Alexette Bacmo Corp. Glove or similar article. 185,898, 8-18-59, Cl. D3—11.
- Zwicker Knitting Mills: *See—*  
 Laux, Anna M. 185,156.  
 Laux, Anna M. 185,157.
- Zychick, Aaron H. Soap bar holder. 185,484, 6-9-59, Cl. D4—3.
- Zychick, Aaron H. Soap bar holder. 186,152, 9-22-59, Cl. D4—2.
- Zylite Products Co., Inc.: *See—*  
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- Armecost & Royston, Inc.: See—  
Hartgerink, Conrad. 1,862.
- Armstrong Nurseries, Inc.: See—  
Gaujard, Jean. 1,829.  
Swim, Herbert C. 1,796.  
Swim, Herbert C. 1,809.  
Swim, Herbert C. 1,810.  
Swim, Herbert C. 1,814.  
Swim, Herbert C. 1,835.  
Swim, Herbert C. 1,846.  
Swim, Herbert C. 1,883.  
Swim, Herbert C. 1,884.  
Swim, Herbert C. 1,885.
- Bloom, Alan H. V., to The Wayside Gardens Co. Phlox paniculata. 1,817, 3-10-59, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,797, 1-13-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,798, 1-13-59, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,799, 1-13-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,803, 1-20-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,820, 3-17-59, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,823, 3-31-59, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,824, 3-31-59, Cl. 47-60.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,830, 5-5-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,833, 5-12-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,834, 5-12-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,840, 6-9-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Rose plant. 1,850, 7-14-59, Cl. 47-61.
- Boerner, Eugene S., to Jackson & Perkins Co. Chrysanthemum plant. 1,889, 12-15-59, Cl. 47-60.
- Bosley, Edith C.: See—  
Shepherd, Roy E. 1,828.
- Bristol Nurseries, Inc.: See—  
Cumming, Roderick W. 1,876.  
Cumming, Roderick W. 1,877.
- Brooks, Lenard L. Azalea plant. 1,819, 3-10-59, Cl. 47-60.
- Brooks, Lenard L. Azalea plant. 1,866, 9-22-59, Cl. 47-60.
- Brooks, Munsey L. Rose plant. 1,825, 4-7-59, Cl. 47-61.
- Burdick, Ernest S.,  $\frac{1}{2}$  to R. B. Taylor. Macadamia tree. 1,868, 9-22-59, Cl. 47-62.
- Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 1,804, 1-27-59, Cl. 47-61.
- Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 1,807, 2-3-59, Cl. 47-61.
- Byrum, Roy L., to Joseph H. Hill Co. Rose plant. 1,886, 12-8-59, Cl. 47-61.
- Colombo, Ben D. Camellia plant. 1,845, 6-16-59, Cl. 47-60.
- Columbia & Okanogan Nursery Co.: See—  
Gilbert, Elon J. 1,822.
- Combe, Maurice, to Ilgenfritz Nurseries, Inc. Rose plant. 1,856, 8-4-59, Cl. 47-61.
- Conard-Pyle Co., The: See—  
Fisher, Esther G. 1,812.  
Hicks, Sam J. 1,892.  
Mackay, Ian. 1,874.  
Mackay, Ian. 1,875.  
Mallerin, Charles. 1,847.  
Meillard, Francis. 1,821.
- Craig Robert, Co.: See—  
Rabhek, Frode. 1,826.
- Cumming, Roderick W., to Bristol Nurseries, Inc. Chrysanthemum plants. 1,876, 11-3-59, Cl. 47-60.
- Cumming, Roderick W., to Bristol Nurseries, Inc. Chrysanthemum plants. 1,877, 11-3-59, Cl. 47-60.
- Deerr, Ervin H. Gladiolus plant. 1,890, 12-22-59, Cl. 47-60.
- Drummond, Arthur L. Walnut tree. 1,861, 9-1-59, Cl. 47-62.
- Dykstra, Cornelius J. Apple tree. 1,838, 6-2-59, Cl. 47-62.
- Dymond, Lawrence B., to Kelly Brothers Nurseries, Inc. Pear tree. 1,806, 2-3-59, Cl. 47-62.
- Ecke, Paul. Poinsettia plant. 1,802, 1-20-59, Cl. 47-60.
- Fisher, Esther G., to The Conard-Pyle Co. Rose plant. 1,812, 2-24-59, Cl. 47-61.
- Flad, John J., to Selected Glads, Inc. Gladiolus plant. 1,832, 5-12-59, Cl. 47-60.
- Frazier, Loran R., and P. J. Jenkins, to E. J. Gilbert. Apple tree. 1,805, 2-3-59, Cl. 47-62.
- Gaujard, Jean, to Armstrong Nurseries, Inc. Rose plant. 1,829, 5-5-59, Cl. 47-61.
- Gilbert, Elon J.: See—  
Frazier, Loran R., and Jenkins. 1,805.
- Gilbert, Elon J., to Columbia & Okanogan Nursery Co. Apple trees. 1,822, 3-24-59, Cl. 47-62.
- Greene, Herman L. Rose plant. 1,871, 10-6-59, Cl. 47-61.
- Hamilton, J. D., Orchard Co., Inc., The: See—  
Hamilton, John D., Sr. 1,811.
- Hamilton, John D., Sr., to The J. D. Hamilton Orchard Co., Inc. Red delicious apple tree. 1,811, 2-17-59, Cl. 47-62.
- Hartgerink, Conrad, to Armecost & Royston, Inc. Rose plant. 1,862, 9-8-59, Cl. 47-61.
- Hartman, Floyd, to J. H. and E. E. Rhoades. Strawberry plant. 1,848, 6-23-59, Cl. 47-62.
- Hastie, Carlisle N., Jr. Camellia plant. 1,800, 1-13-59, Cl. 47-60.
- Hemet Wholesale: See—  
Lindquist, Robert V. 1,836.  
Lindquist, Robert V. 1,865.  
Lindquist, Robert V. 1,873, 10-20-59, Cl. 47-61.
- Henderson, William H. Clematis plant. 1,878, 11-10-59, Cl. 47-60.
- Hicks, Sam J., to The Conard-Pyle Co. Rose plant. 1,892, 12-29-59, Cl. 47-61.
- Hill, E. G. Co., Inc.: See—  
Jelly, Robert G. 1,887.  
Jelly, Robert G. 1,888.
- Hill, Joseph H., Co.: See—  
Byrum, Roy L. 1,804.  
Byrum, Roy L. 1,807.  
Byrum, Roy L. 1,886.
- Ilgenfritz Nurseries, Inc.: See—  
Combe, Maurice. 1,856.  
Robichon, Marcel. 1,857.  
Robichon, Marcel. 1,859.  
Verbeek, Gysbert. 1,863.
- Jackson & Perkins Co.: See—  
Boerner, Eugene S. 1,779.  
Boerner, Eugene S. 1,797.  
Boerner, Eugene S. 1,798.  
Boerner, Eugene S. 1,803.  
Boerner, Eugene S. 1,820.  
Boerner, Eugene S. 1,823.  
Boerner, Eugene S. 1,824.  
Boerner, Eugene S. 1,830.  
Boerner, Eugene S. 1,833.  
Boerner, Eugene S. 1,834.  
Boerner, Eugene S. 1,840.  
Boerner, Eugene S. 1,850.  
Boerner, Eugene S. 1,889.  
Morey, Dennison H., Jr. 1,849.  
Robinson, Herbert. 1,853.  
Zombory, William and S. 1,851.
- James, Vernon R. Camellia plant. 1,801, 1-20-59, Cl. 47-60.
- Jelly, Robert G., to E. G. Hill Co., Inc. Rose plant. 1,887, 12-8-59, Cl. 47-61.
- Jelly, Robert G., to E. G. Hill Co., Inc. Rose plant. 1,888, 12-8-59, Cl. 47-61.
- Jenkins, Philip J.: See—  
Frazier, Loran R., and Jenkins. 1,805.
- Kazarian, Luke: See—  
Simonian, Coche D., and Kazarian. 1,882.
- Kelly Brothers Nurseries, Inc.: See—  
Dymond, Lawrence B. 1,806.
- Kerrigan, Howard. Azalea plant. 1,881, 11-24-59, Cl. 47-60.
- Kleine, Henry. Pyracantha angustifolia plant. 1,816, 3-10-59, Cl. 47-59.
- Kleine, Henry. European smoke tree. 1,844, 6-9-59, Cl. 47-59.
- Kleine, Henry. Viburnum tomentosum plants. 1,891, 12-29-59, Cl. 47-59.
- Kojakanian, Alexander,  $\frac{1}{2}$  to Aram Kojakanian. Peach tree. 1,795, 1-13-59, Cl. 47-62.
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- Kuramoto, Shigenobu. Rose plant. 1,813, 2-24-59, Cl. 47-61.
- Le Grice, Edward B. Rosa floribunda plant. 1,792, 1-6-59, Cl. 47-61.



- Lindquist, Robert V., to Hemet Wholesale. Rose plant. 1,836, 5-26-59, Cl. 47-61.
- Lindquist, Robert V., to Hemet Wholesale. Rose plant. 1,865, 9-15-59, Cl. 47-61.
- Lindquist, Robert V., to Hemet Wholesale. Rose plant. 1,873, 10-20-59, Cl. 47-61.
- Maas, Herbert A., and H. L.; said H. A. Maas assor. to said H. L. Maas. Leucophyllum plant. 1,880, 11-17-59, Cl. 47-60.
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- Mackay, Ian, to The Conard-Pyle Co. Chrysanthemum plant. 1,874, 10-27-59, Cl. 47-60.
- Mackay, Ian, to The Conard-Pyle Co. Chrysanthemum plant. 1,875, 10-27-59, Cl. 47-60.
- Mastrandrone, Michele. Rose plant. 1,864, 9-15-59, Cl. 47-61.
- Mallerin, Charles, to The Conard-Pyle Co. Rose plant. 1,847, 6-16-59, Cl. 47-61.
- Meilland, Francis, deceased, by M. L. Meilland, nee Paolino, legal representative, to The Conard-Pyle Co. Rose plant. 1,821, 8-17-59, Cl. 47-61.
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- Merrill, Grant. Peach tree. 1,818, 3-10-59, Cl. 47-62.
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- Morey, Dennison H., Jr., to Jackson & Perkins Co. Rose plant. 1,849, 6-30-59, Cl. 47-61.
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- Plant Hybridizers of California: See—  
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- Restani, Albert J. Rose plant. 1,794, 1-6-59, Cl. 47-61.
- Rhoades, Evelyn E.: See—  
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- Robichon, Marcel, to Ilgenfritz Nurseries, Inc. Rose plant. 1,857, 8-4-59, Cl. 47-61.  
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2,889,560		10: 2,919,173		127.6: 2,880,054		2: 2,886,836		2,903,726		2,875,458		2,887,705	
100: 2,916,744		12: 2,904,385		2,881,464		2,890,468		123: 2,875,456		2,878,499		2,895,154	
109: 2,869,145		12: 2,872,277		2,888,315		9: 2,881,452		123.3: 2,892,200		2,912,706		122: 2,879,532	
2,884,651		13: 2,908,543		2,890,925		12: 2,867,823		136: 2,874,394		2,917,758		123: 2,893,031	
2,896,225		2,893,811		2,897,041		27: 2,887,694		142: 2,876,469		23: 2,887,702		2,899,697	
2,897,518		2,913,302		128: 2,886,402		2,914,780		2,876,470		24: 2,882,538		2,910,711	
2,908,917		21: 2,869,968		130.1: 2,869,972		52: 2,917,756		2,893,026		25: 2,917,559		124: 2,869,162	
2,916,745		24: 2,892,668		2,869,973		54: 2,903,720		2,895,149		28: 2,911,660		126: 2,886,839	
110: 2,889,561		2,893,812		2,869,975		72: 2,881,453		2,900,649		29: 2,907,062		127: 2,877,480	
111: 2,888,688		25: 2,894,800		2,869,974		76: 2,903,721		2,907,058		31: 2,909,793		128: 2,882,541	
114: 2,871,489		28: 2,888,312		2,869,975		86: 2,867,824		145: 2,885,699		40: 2,886,838		130: 2,904,809	
2,888,689		32: 2,906,587		2,877,084		2,871,492		2,898,615		41: 2,918,687		131: 2,876,475	
118: 2,869,146		34: 2,890,092		2,897,042		2,889,564		146: 2,917,757		45: 2,885,700		2,893,032	
131: 2,877,470		2,890,993		133: 2,880,055		2,904,800		Class 13		49: 2,867,825		2,902,703	
177: 2,897,519		2,892,669		137: 2,898,181		2,908,920		2: 2,892,005		2,870,468		131.05: 2,866,992	
199: 2,916,746		2,898,177		139: 2,897,043		2,880,430		6: Re.24,625		2,874,396		2,891,271	
200: 2,908,918		2,908,544		148: 2,899,264		89: 2,884,653		2,877,280		2,898,616		131.1: 2,867,828	
202: 2,869,147		36: 2,916,345		151: 2,869,976		106: 2,916,749		2,899,476		2,917,760		2,903,728	
2,900,647		37: 2,893,813		2,876,063		111: 2,908,022		2,902,524		50: 2,879,528		2,887,707	
207: 2,895,144		39: 2,892,610		2,892,675		122: 2,885,698		2,913,509		51: 2,874,397		2,892,202	
210: 2,869,148		2,900,216		2,901,312		129: 2,881,454		9: 2,919,297		55: 2,869,159		2,916,755	
231: 2,914,778		41: 2,892,671		2,905,522		135: 2,869,153		2,907,806		58: 2,889,566		132.7: 2,883,690	
236: 2,886,832		42: 2,867,494		151.1: 2,871,090		136: 2,867,895		2,908,736		82: 2,870,469		2,904,810	
238: 2,904,797		2,893,814		151.2: Re.24,644		139: 2,869,154		2,908,737		83: 2,895,150		2,910,712	
247: 2,893,018		43: 2,903,324		2,886,403		140: 2,898,615		2,912,476		84: 2,875,459		2,912,708	
248: 2,889,562		2,903,325		2,899,265		152: 2,870,465		12: 2,907,807		87: 2,895,151		133: 2,867,829	
259: 2,877,471		44: 2,877,083		154: 2,906,593		155: 2,914,781		13: 2,877,281		88: 2,888,694		2,913,746	
260: 2,885,693		2,893,815		2,912,298		Class 11		2,889,566		89: 2,889,566		134: 2,870,471	
279: 2,883,680		46: 2,883,258		156: 2,916,346		1: 2,877,473		14: 2,896,003		93: 2,866,990		2,896,236	
298: 2,907,054		54: 2,888,313		Class 9		2,878,496		16: 2,872,494		94: 2,874,398		135: 2,888,695	
303: 2,874,388		2,890,918		1: 2,874,391		2,893,022		2,903,494		97: 2,885,702		136: 2,887,708	
305: 2,882,535		55: 2,869,969		2,876,466		2,893,023		2,884,653		2,904,804		2,888,696	
308: 2,885,694		2,872,279		2,876,466		2,893,024		2,889,387		2,904,805		2,896,237	
310: 2,911,656		2,874,021		2,885,696		2,895,148		2,897,523		2,877,476		2,904,811	
317: 2,876,464		2,880,050		2,891,259		2,897,523		2,899,599		2,911,661		2,905,956	
2,885,695		2,882,119		2,901,757		2,898,613		2,899,477		98: 2,877,476		2,908,923	
2,891,257		2,884,300		2,916,747		2,909,791		2,911,455		100: 2,913,745		2,909,798	
2,895,145		2,891,835		2,893,816		2,897,525		2,915,573		104.02: 2,884,654		2,913,747	
2,904,798		2,898,316		2,906,588		2,879,525		17: 2,871,278		104.04: 2,884,654		137: 2,896,238	
319: 2,913,740		2,891,835		2,906,589		2,880,429		1: 2,891,264		104.05: 2,894,273		2,908,924	
2,878,492		2,893,816		2,913,303		2,891,260		2,896,230		104.06: 2,893,028		2,908,925	
2,903,715		2,893,816		2,880,051		2,916,748		2,903,722		104.07: 2,909,796		2,917,765	
320: 2,890,464		2,891,835		2,888,314		2,917,754		2,908,023		104.1: 2,911,662		138: 2,882,543	
2,896,226		2,893,816		2,892,672		3: 2,869,149		2,908,921		104.165: 2,897,525		2,900,650	
327: 2,878,493		2,891,835		2,892,672		4: 2,899,695		2,878,497		104.18: 2,911,269		2,900,651	
2,905,953		2,893,816		2,899,261		6: 2,866,985		8.3: 2,873,461		104.2: 2,891,268		2,904,812	
2,911,657		2,893,816		2,901,311		2,896,228		2,915,763		104.3: 2,880,435			
2,918,682		2,893,816		2,906,590		2,909,790		8.5: 2,869,155		2,902,525		139: 2,866,993	
331: 2,891,490		61: 2,880,051		2,874,022		2,909,791		10.2: 2,894,272		2,875,261		2,866,994	
2,891,258		2,888,314		2,895,785		2,912,705		12.2: 2,896,231		2,888,506		2,872,694	
332: 2,867,821		62: 2,878,096		2,907,624		2,894,268		12.21: 2,891,266		2,908,739		2,875,463	
2,870,463		2,892,672		2,918,345		2,903,716		12.4: 2,888,693		2,909,585		2,876,476	
2,876,464		2,899,261		2,893,817		2,911,658		2,901,265		2,914,593		2,897,526	
2,886,833		2,901,311		2,892,672		8.3: 2,894,269		2,894,801		2,877,477		2,908,926	
2,907,055		64: 2,874,022		2,892,672		2,917,755		15: 2,913,741		2,897,524		2,913,748	
337: 2,877,472		65: 2,895,785		2,892,672		9: 2,866,986		17: 2,896,232		2,904,807		2,913,749	
2,880,425		70: 2,894,801		2,892,672		2,892,198		17.2: 2,869,156		2,904,808		140.4: 2,917,766	
2,896,227		2,907,624		2,892,672		2,903,717		18.5: 2,883,685		32: 2,903,495		142: 2,880,438	
339: 2,884,652		71: 2,893,817		2,892,672		2,903,718		18.7: 2,913,742		33: 2,879,314		143: 2,892,203	
2,895,146		74: 2,880,052		2,892,672		11: 2,869,150		20: 2,875,455		38: 2,914,782		144: 2,884,655	
341: 2,883,681		77: 2,893,818		2,892,672		8.3: 2,894,269		2,898,614		33.6: 2,896,233		2,893,033	
343: 2,907,056		94.10: 2,886,399		2,892,672		2,917,755		2,903,723		34.5: 2,879,526		2,896,239	
2,918,683		94.18: 2,868,614		2,892,672		2,892,198		2,909,792		36: 2,866,987		2,898,619	
344: 2,883,682		2,906,591		2,892,672		2,903,717		2,914,779		38: 2,874,393		2,896,239	
2,898,609		94.21: 2,880,053		2,892,672		2,903,718		17: Re.24,618		51: 2,872,691		2,893,033	
2,907,057		94.23: 2,892,673		2,892,672		11: 2,869,150		2,869,151		53.1: 2,915,764		145: 2,873,463	
2,910,707		94.24: 2,890,096		2,892,672		8.3: 2,894,269		2,871,491		53.5: 2,883,686		146: 2,893,035	
345: 2,876,465		94.32: 2,872,278		2,892,672		2,909,791		2,876,468		55: 2,881,456		147: 2,901,759	
2,878,494		2,892,672		2,892,672		2,909,791		2,886,835		71: 2,881,457		148: 2,896,240	
2,878,495		2,892,672		2,892,672		2,909,791		2,890,467		72: 2,880,431		153: 2,900,652	
2,881,451		2,892,672		2,892,672		2,909,791		2,894,270		Class 14		160: 2,871,494	
2,883,683		2,892,672		2,892,672		2,909,791		2,894,271		1: 2,878,498		2,	



164:	2, 878, 501	245:	2, 871, 498	317:	2, 883, 694	70:	2, 880, 450	2:	2, 879, 538	2. 7:	2, 898, 625	12:	2, 896, 253
	2, 900, 653		2, 876, 478		2, 885, 711		2, 880, 451		2, 881, 469		2, 911, 672		2, 897, 541
	2, 909, 799		2, 876, 482		2, 885, 712		2, 897, 534		2, 884, 657	3. 5:	2, 902, 713		2, 902, 714
167:	2, 876, 477		2, 888, 702		2, 897, 532	80:	2, 908, 032		2, 886, 844		2, 903, 739		2, 902, 715
	2, 879, 533		2, 897, 529	320:	2, 910, 720		2, 918, 695		2, 888, 709		2, 914, 798		2, 904, 830
	2, 882, 544		2, 897, 530	321:	2, 909, 800	82:	2, 889, 571		2, 895, 163		2, 873, 475		2, 908, 037
	2, 883, 691		2, 900, 655		2, 911, 665		2, 890, 475		2, 915, 781		2, 874, 407		2, 908, 038
169:	2, 915, 767		2, 901, 761	322:	2, 885, 713		2, 894, 275		2, 917, 772		2, 874, 408		2, 910, 726
172:	2, 887, 710		2, 901, 762		2, 893, 044		2, 914, 792	3:	2, 893, 052		2, 874, 411	13:	2, 879, 544
176:	2, 893, 836		2, 905, 959		2, 908, 030		2, 915, 777		2, 913, 759		2, 886, 847		2, 879, 544
	2, 905, 961		2, 906, 960		2, 916, 761		2, 915, 779	7:	2, 876, 487		2, 886, 847		2, 882, 555
	2, 900, 654		2, 907, 065	323:	2, 867, 833		2, 917, 770		2, 884, 658		2, 898, 625		2, 893, 056
177:	2, 908, 927		2, 908, 028		2, 876, 479	83:	2, 869, 171	8:	2, 891, 275		2, 910, 724		2, 897, 542
178:	2, 912, 709		2, 915, 769		2, 877, 488	85:	2, 867, 837		2, 893, 739		2, 912, 717		2, 897, 543
179:	2, 869, 163		2, 918, 688		2, 893, 045		2, 882, 547	11:	2, 879, 539		2, 916, 765		2, 901, 770
	2, 879, 534	246:	2, 871, 499		2, 917, 769	86:	2, 881, 468		2, 891, 276		2, 911, 676		2, 911, 676
	2, 885, 705		2, 871, 500		2, 918, 692		2, 882, 548		2, 908, 935		2, 870, 479	14:	2, 887, 721
	2, 885, 706	246. 5:	2, 901, 763		2, 918, 693		2, 899, 703	11. 1:	2, 869, 172		2, 872, 700		2, 896, 254
	2, 888, 697		2, 902, 705		2, 898, 621		2, 904, 820		2, 876, 488		2, 873, 476		2, 902, 716
180:	2, 871, 495	247:	2, 916, 759		2, 915, 774	87:	2, 909, 802		2, 894, 279		2, 876, 492		2, 908, 938
	2, 893, 037	248:	2, 892, 204	325:	2, 875, 466	87. 2:	2, 897, 535		2, 900, 661		2, 877, 491	15:	2, 895, 165
	2, 917, 767		2, 892, 205		2, 893, 046	87. 4:	2, 872, 696		2, 910, 722		2, 877, 492		2, 897, 544
181:	2, 877, 481		2, 896, 244	327:	2, 867, 834	89:	2, 889, 572		2, 914, 794		2, 877, 493		2, 916, 767
182:	2, 871, 496		2, 900, 657		2, 871, 503	90:	2, 898, 623	11. 2:	2, 879, 540		2, 882, 553	16:	2, 877, 002
	2, 903, 729		2, 902, 706		2, 889, 570	94:	2, 889, 573		2, 882, 550		2, 884, 660		2, 869, 173
	2, 907, 063	249:	2, 916, 769	328:	2, 914, 790		2, 893, 040		2, 905, 966	12:	2, 874, 402		2, 869, 174
183:	2, 878, 502	250:	2, 884, 656		2, 867, 835		2, 904, 821		2, 874, 402	17:	2, 898, 624		2, 871, 513



## Class 18—Con.

26: 2,911,679	47.5: 2,875,473	55: 2,889,581	12: 2,905,974	157: 2,879,551	7: 2,878,530	52: 2,869,184
30: 2,570,483	2,877,498	2,890,491	15: 2,905,975	2,885,742	2,900,676	2,875,479
2,871,515	2,877,499	2,893,060	29: 2,901,776	2,901,779	2,908,049	2,889,587
2,871,516	2,879,546	2,896,264	35: 2,903,749	2,873,485	8: 2,882,560	2,889,588
2,871,517	2,886,852	2,898,633	37: 2,898,635	2,876,502	2,894,292	2,889,589
2,872,705	2,887,725	2,899,709	52: 2,903,750	2,877,505	2,900,677	2,890,502
2,873,478	2,892,216	2,899,710	58: 2,867,850	2,878,527	2,914,815	2,900,679
2,876,495	2,895,170	2,899,711	65: 2,890,493	2,897,550	9: 2,867,854	2,901,784
2,878,515	2,898,631	2,904,843	2,892,219	2,908,945	2,914,816	2,904,855
2,880,460	2,900,667	2,907,073	2,910,731	2,916,780	10: 2,867,855	2,907,078
2,881,477	2,902,719	2,915,786	66: 2,867,005	161: 2,889,583	2,879,556	2,912,726
2,883,706	2,904,838	2,916,776	2,867,851	164: 2,871,519	11: 2,867,856	2,913,781
2,883,707	2,905,971	2,916,777	2,873,483	165: 2,878,528	2,872,711	52.2: 2,867,860
2,885,734	2,907,071	55.05: 2,877,502	2,895,176	166: 2,883,710	2,874,420	2,870,494
2,886,850	2,913,768	2,887,727	2,908,044		2,883,860	2,876,505
2,891,282	2,915,785	2,891,285	2,908,045	Class 20	2,888,718	2,877,513
2,892,214	2,916,774	2,894,288	2,910,732	.5: 2,871,520	2,890,500	2,877,514
2,894,284	2,917,777	2,913,771	2,914,809	2,871,521	2,893,069	2,879,559
2,894,285	2,917,778	2,917,782	2,914,810	2,875,477	2,893,070	2,883,715
2,894,286	2,918,700	55.1: 2,896,265	2,917,784	2,877,506	2,895,182	2,888,719
2,895,167	2,918,701	2,899,712	2,917,785	2,886,857	2,898,642	2,889,590
2,896,257	48: 2,877,500	56: 2,875,474	67: Re.24,624	2,889,584	2,898,643	2,898,646
2,896,258	2,878,519	2,876,496	2,902,722	2,896,272	2,902,727	2,903,756
2,903,747	2,884,663	2,892,217	2,912,720	2,914,812	2,910,739	2,907,079
2,904,839	2,885,736	2,895,172	69: 2,883,709	2,914,813	2,910,740	2,911,689
2,911,680	2,895,171	2,897,546	70: 2,890,494	2,914,814	2,913,777	2,917,792
2,912,719	2,896,262	2,899,713	2,891,287	2,918,705	2,913,778	52.4: 2,893,072
2,914,804	2,896,263	2,911,681	2,900,670	2,872,709	2,914,817	2,909,812
2,916,768	2,912,719	2,915,787	2,905,976	2,898,641	2,916,781	2,914,818
2,917,776	2,918,700	2,917,783	72: 2,897,548	1: 2,887,730	2,917,789	53: 2,876,506
33: 2,896,259	2,918,701	2,878,521	2,904,847	2,887,731	2,918,706	2,885,745
2,899,707	2,918,702	2,878,522	2,911,684	2,888,716	2,918,707	2,886,863
34: 2,869,179	2,918,703	2,880,465	2,915,790	2,898,638	12: 2,871,522	2,888,720
2,870,484	2,918,704	2,880,466	76: 2,893,064	2,910,737	2,874,421	2,889,591
2,913,766	2,918,705	2,894,289	79: 2,907,076	1.1: 2,886,855	2,885,744	2,892,220
35: 2,895,168	2,918,706	2,897,547	82: 2,901,777	1.11: 2,901,780	2,903,754	2,902,728
2,916,771	2,918,707	2,904,844	85: 2,869,181	1.12: 2,895,179	2,867,857	2,902,729
36: 2,880,462	48.8: 2,880,464	2,909,809	89: 2,876,500	2,872,712	2,905,982	2,910,742
2,884,661	2,908,042	2,914,808	93: 2,900,723	1.123: 2,911,687	2,879,557	2,913,709
2,885,735	2,914,807	2,918,702	98: 2,878,525	1.126: 2,876,503	2,880,473	55: 2,909,813
38: 2,878,516	2,917,780	58: 2,880,467	99: 2,902,724	2,877,507	2,912,725	56: 2,901,785
2,886,851	2,917,781	2,911,682	2,908,046	2,879,552	2,912,726	56.1: 2,883,716
2,907,070	53: 2,873,481	2,915,788	2,912,721	2,898,639	2,870,493	2,900,680
39: 2,867,003	2,891,284	58.3: 2,880,468	104: 2,879,549	1.13: 2,903,752	2,871,523	56.3: 2,917,793
2,872,706	2,901,774	2,887,728	105: 2,880,047	1.4: 2,870,491	2,878,531	56.4: 2,877,515
2,874,412	2,904,842	2,888,718	106: 2,910,734	2,888,717	2,881,482	2,878,535
2,880,463	Re.24,691	2,892,214	2,910,735	1.6: Re.24,723	2,883,714	2,882,561
2,887,722	2,867,495	2,918,703	109: 2,872,708	2,867,853	2,885,741	2,883,717
2,890,486	2,867,496	58.6: 2,867,849	2,880,469	2: 2,872,710	2,887,735	2,889,592
2,901,773	2,878,023	59: 2,873,482	2,910,736	2,877,508	2,899,717	2,896,275
2,905,970	2,875,019	2,876,498	112: 2,900,672	2,877,509	2,899,718	2,898,647
41: 2,867,847	2,878,097	2,877,503	115: 2,896,268	2,882,557	2,901,782	2,905,983
2,908,040	2,880,056	2,877,504	2,900,673	2,883,711	2,905,980	56.5: 2,872,713
2,874,413	2,882,122	2,878,522	116: 2,916,778	2,883,712	2,908,050	2,873,486
2,874,414	2,883,200	2,878,524	120: 2,895,177	2,884,666	2,908,947	2,874,423
2,875,472	2,883,251	2,879,548	129: 2,901,778	2,886,856	2,908,948	2,877,515
2,877,497	2,885,257	2,881,490	2,913,774	2,886,858	2,910,741	2,877,516
2,878,517	2,886,404	2,885,737	131: 2,896,269	2,890,498	2,917,790	2,880,475
2,881,478	2,888,317	2,885,738	2,896,270	2,893,066	2,867,859	2,883,718
2,884,662	2,888,318	2,886,854	2,899,714	2,894,290	2,869,183	2,885,746
2,890,487	2,890,927	2,887,729	2,905,977	2,896,273	2,877,511	2,886,864
2,890,488	2,891,836	2,880,582	2,911,685	2,904,849	2,878,532	2,887,737
2,891,283	2,891,837	2,893,061	2,912,722	2,904,850	2,880,474	2,887,738
2,893,058	2,893,820	2,895,173	2,916,779	2,907,077	2,890,585	2,895,184
2,894,287	2,893,821	2,895,174	134: 2,870,487	2,903,048	2,893,071	2,909,814
2,900,666	2,894,802	2,895,175	2,885,740	2,913,775	2,895,183	2,915,793
2,913,767	2,895,786	2,896,266	2,890,495	2,915,791	2,896,274	57.5: 2,867,010
2,914,805	2,895,787	2,898,634	2,895,178	4: 2,867,007	2,897,552	2,871,525
43: 2,879,545	2,896,788	2,901,775	2,914,811	2,869,182	2,904,848	2,873,487
2,916,772	2,897,789	2,902,721	135: 2,867,852	2,875,478	2,904,852	2,883,719
45: 2,869,180	2,898,790	2,903,748	2,870,488	2,878,529	2,908,051	2,885,747
2,871,518	2,897,044	2,904,845	2,875,476	2,879,554	21: 2,901,783	2,893,073
2,873,479	2,898,182	2,904,846	2,881,481	2,880,470	23: 2,876,504	2,894,295
2,874,415	2,900,220	2,907,074	2,884,664	2,880,471	2,878,533	2,894,296
2,890,489	2,900,221	2,907,075	2,900,674	2,882,558	2,879,558	2,895,185
2,890,490	2,902,334	2,908,941	2,900,675	2,882,559	26: 2,918,707	2,899,719
2,895,169	2,902,335	2,908,942	2,902,725	2,885,743	35: 2,878,534	2,900,681
2,896,260	2,902,336	2,908,943	2,917,786	2,886,859	2,889,586	2,900,682
2,904,837	2,904,391	2,910,730	140: 2,893,065	2,887,732	2,918,708	2,902,730
2,908,940	2,906,594	2,911,683	142: Re.24,687	2,890,499	36: 2,900,678	2,908,053
46: 2,893,059	2,907,626	2,913,772	2,867,006	2,893,067	38: 2,904,853	2,916,783
47: 2,888,316	2,908,545	2,915,789	2,873,484	2,893,068	40: 2,886,862	2,878,536
2,903,329	2,910,341	50.2: 2,913,773	2,884,665	2,894,291	2,904,854	2,877,517
47.2: 2,887,723	2,912,299	59.3: 2,888,715	2,905,978	2,895,180	2,913,779	2,875,480
2,887,724	2,914,375	59.5: 2,893,062	2,905,979	2,896,271	2,913,780	2,877,517
2,888,713	2,914,376	60: 2,890,492	2,909,811	2,897,551	40.5: 2,887,736	2,892,221
2,889,580	2,916,347	2,893,063	143: 2,870,489	2,898,640	2,898,644	2,893,074
2,896,261	2,916,348	61: 2,874,419	146: 2,885,741	2,901,782	42: 2,867,008	2,902,731
2,908,041	2,918,348	2,875,475	149: 2,876,501	2,902,726	2,907,009	2,905,994
47.3: 2,870,485	54.7: 2,883,708	2,885,739	150: 2,897,549	2,903,753	2,890,501	2,910,743
2,878,518	55: 2,867,004	Class 19	153: 2,870,490	2,904,851	2,894,293	2,917,794
2,892,215	2,870,486	.32: 2,908,944	2,899,715	2,910,738	2,898,645	2,917,795
2,909,808	2,874,417	.51: 2,872,707	2,878,526	2,912,724	2,905,981	63: 2,881,484
2,914,806	2,877,501	.6: 2,908,043	2,890,496	2,913,776	2,908,052	2,882,563
47.5: 2,867,848	2,878,520	2,879,547	2,917,787	5: 2,879,555	2,915,792	2,890,503
2,873,480	2,886,853	8: 2,806,267	156: 2,890,497	2,880,472	2,916,782	64: 2,872,714
2,874,416	2,887,726	2,905,973	2,912,723	2,895,181	2,917,791	2,875,481
				6: 2,887,733	44: 2,877,512	2,877,518



64: 2,880,476	95: 2,880,482	82: 2,892,225	214: 2,893,084	14.5: 2,890,932	38: 2,895,794	119: 2,905,532
2,892,222	102: 2,867,865	85: 2,883,722	216: 2,871,555	2,890,933	42: 2,895,795	2,912,304
2,903,757	108: 2,871,526	2,908,055	2,885,752	2,891,839	2,906,599	2,917,364
2,909,815	2,873,488	2,910,746	2,893,085	2,891,840	2,906,600	121: 2,882,128
2,913,782	2,907,562	89: 2,876,510	2,897,557	2,891,841	48: 2,891,843	2,893,836
65: 2,894,297	109: 2,914,820	2,877,524	216.5: 2,886,869	2,892,676	2,893,829	2,902,343
67: 2,900,683	117: 2,869,188	2,886,868		2,892,677	2,911,284	2,902,344
68: 2,870,495	2,885,750	80: 2,871,531		2,893,822	50: 2,887,353	2,906,603
2,903,758	119: 2,897,554	93: 2,905,990	Class 23	2,893,823	2,893,197	122: 2,878,101
2,917,796	120: 2,898,649	94: 2,875,484	1: 2,876,064	2,893,824	2,893,830	126: 2,878,103
69: 2,867,012	2,899,722	2,880,484	2,884,303	2,893,825	2,894,813	2,880,062
2,867,062	126: 2,867,866	106: 2,874,425	2,890,929	2,893,826	2,902,341	2,905,533
2,880,477		107: 2,915,796	2,898,182	2,893,827	2,902,342	129: 2,872,289
2,884,668	Class 22	112: 2,874,426	2,902,337	2,894,807	2,904,395	2,899,273
2,888,721	2: 2,895,187	113: 2,870,497	2,906,596	2,894,808	51: 2,876,065	2,909,407
2,889,593	9: Re.24,655	116: 2,903,761	2,868,617	2,894,805	2,893,832	2,913,309
2,891,288	2,899,189	123: 2,908,056	2,877,086	2,894,806	2,894,814	2,916,355
2,891,289	2,881,486	126: 2,914,823	2,878,099	2,894,807	2,901,316	131: 2,913,310
2,896,276	2,899,723	129: 2,867,870	2,890,930	2,894,808	2,903,338	136: 2,890,102
2,896,278	2,905,087	131: 2,912,729	2,904,393	2,894,809	56: 2,904,396	139: 2,900,235
2,899,721	10: 2,867,012	139: 2,871,532	2,905,523	2,894,810	59: 2,867,502	2,908,550
2,902,732	2,867,521	2,874,427	2,910,343	2,894,811	61: 2,867,503	140: 2,879,134
2,905,985	2,882,565	2,878,538	2,912,300	2,895,791	2,905,529	2,879,138
2,907,080	2,899,724	2,882,568	2,919,174	2,895,792	63: 2,887,360	142: 2,876,068
2,908,499	2,899,725	2,907,083	2,868,617	2,897,045	64: 2,900,232	2,867,361
2,912,727	2,901,791	2,910,747	2,884,304	2,897,046	65: 2,893,833	2,893,837
2,913,783	2,905,988	2,913,785	2,886,405	2,897,048	67: 2,881,048	2,915,365
2,914,819	2,911,691	147: 2,867,871	2,890,931	2,898,185	75: 2,871,093	2,916,356
2,918,710	13: 2,901,792	2,869,191	2,908,546	2,898,186	2,873,171	143: 2,867,505
2,869,185	2,914,821	2,869,192	2,912,301	2,898,187	2,889,198	2,871,095
2,891,290	16: 2,875,482	2,873,492	4: 2,899,267	2,898,268	77: 2,880,061	2,871,096
2,896,277	17: 2,879,563	2,890,504	14: 2,867,498	2,899,269	78: 2,884,307	2,881,051
2,867,013	20: 2,867,867	2,900,685	2,867,499	2,900,226	2,886,411	2,885,261
2,867,014	2,871,527	2,913,786	2,872,283	2,900,227	2,900,233	2,888,323
2,879,560	2,904,858	2,914,824	2,874,024	2,900,228	2,917,363	2,905,534
2,880,478	21: 2,869,193	2,914,825	2,880,058	2,900,229	79: 2,876,066	2,907,634
2,880,479	2,873,490	151: 2,890,505	2,883,263	2,900,230	86: 2,889,109	2,917,366
2,884,669	31: 2,871,528	153: 2,912,730	2,889,194	2,901,313	87: 2,868,621	145: 2,885,262
2,887,739	2,899,726	157: 2,892,226	2,894,299	2,901,314	2,868,622	2,890,104
2,893,075	32: 2,887,741	158: 2,887,744	2,900,225	2,901,315	2,871,094	147: 2,878,102
2,894,298	35: 2,893,079	164: 2,889,598	2,911,281	2,902,332	2,879,131	2,891,842
2,904,856	36: 2,876,508	165: 2,907,084	2,913,361	2,902,333	2,893,132	2,898,191
2,915,794	2,877,522	167: 2,880,485	2,915,361	2,903,333	2,883,265	2,904,399
78.3: 2,885,748	2,882,566	174: 2,879,565	2,867,500	2,903,334	2,890,100	2,912,305
79: 2,867,015	2,886,865	177: 2,884,671	2,868,618	2,903,335	2,895,793	149: 2,893,838
2,881,485	38: 2,908,951	192: 2,903,762	2,868,619	2,903,336	2,895,797	2,898,192
91: 2,889,594	43: 2,892,223	193: 2,869,194	2,869,979	2,904,394	2,905,526	2,913,311
2,893,076	57.2: 2,867,018	2,869,195	2,869,980	2,905,525	2,914,379	2,899,274
2,867,833	2,871,529	2,873,493	2,869,981	2,905,526	2,915,364	2,899,275
2,867,864	2,871,530	2,874,428	2,869,982	2,905,527	2,916,351	2,904,400
2,869,186	2,873,491	2,875,485	2,869,983	2,905,528	2,877,095	2,906,604
2,877,519	2,876,509	2,876,511	2,869,984	2,906,597	2,883,266	2,908,551
2,877,520	2,878,537	2,877,512	2,872,284	2,906,598	2,888,320	152: 2,871,097
2,880,480	2,880,483	2,878,539	2,872,285	2,907,628	2,892,681	2,881,052
2,880,481	2,883,721	2,882,569	2,872,286	2,907,629	2,900,234	154: 2,886,413
2,882,564	2,889,506	2,883,723	2,872,287	2,907,630	2,904,398	156: 2,871,098
2,883,720	2,891,291	2,891,293	2,872,288	2,908,547	90: 2,882,126	161: 2,882,129
2,884,670	2,893,080	2,892,227	2,873,165	2,908,548	91: 2,897,051	163: 2,901,320
2,885,749	2,895,188	2,899,727	2,873,166	2,909,406	92: 2,907,633	165: 2,880,063
2,887,740	2,895,189	2,908,952	2,873,167	2,909,406	98: 2,868,623	2,885,263
2,888,722	2,895,190	2,910,748	2,873,168	2,910,344	101: 2,894,816	2,885,264
2,891,787	2,898,650	2,913,787	2,873,169	2,910,345	2,897,052	2,885,265
2,901,788	2,904,859	194: 2,896,280	2,874,025	2,911,282	102: 2,894,817	2,885,266
2,902,733	2,907,082	196: 2,880,486	2,874,026	2,911,283	2,895,798	2,887,362
2,915,795	57.3: 2,905,989	2,883,724	2,875,021	2,912,302	2,916,353	2,890,936
92.7: 2,879,561	2,910,744	2,887,745	2,875,022	2,912,303	2,879,133	2,897,053
94: 2,889,595	2,908,950	2,890,506	2,875,023	2,913,307	2,901,317	2,905,535
2,900,684	57.4: 2,886,866	197: 2,900,686	2,875,024	2,914,378	106: 2,867,504	2,907,635
2,905,986	2,904,860	2,869,197	2,875,025	2,915,362	2,906,601	2,917,367
2,911,690	58: 2,881,487	200: 2,869,197	2,875,026	2,916,349	2,916,354	166: 2,880,064
95: 2,893,077	2,886,867	2,871,532	2,877,087	2,917,358	2,874,027	168: 2,879,135
2,895,186	61: 2,893,081	2,875,486	2,877,088	2,917,359	107: 2,888,321	172: 2,903,339
2,909,816	64: 2,897,555	2,881,489	2,877,089	2,917,360	2,898,189	174: 2,868,624
99: 2,901,789	65: 2,870,496	2,882,570	2,877,090	2,917,361	2,902,342	2,872,290
100: 2,897,553	2,901,793	2,897,556	2,877,091	2,917,362	109: 2,882,127	2,887,363
101: 2,896,278	2,913,784	2,913,788	2,877,092	2,917,363	2,889,200	2,889,202
Class 21	2,917,797	2,917,798	2,878,100	2,918,349	2,890,934	2,889,203
2.5: 2,910,342	67: 2,909,817	300.1: 2,871,534	2,879,130	2,919,175	2,893,834	2,893,839
2,914,377	68: 2,867,868	2,877,525	2,880,059	2,880,060	2,895,799	2,894,819
2,917,797	2,869,190	2,877,526	2,882,123	2,880,061	2,899,271	2,897,054
2,918,711	2,877,085	2,878,537	2,882,124	2,881,487	2,906,602	2,903,340
2,919,175	2,889,193	2,889,228	2,882,125	2,882,126	2,914,380	181: 2,876,069
2,920,685	2,890,928	2,899,728	2,883,264	2,883,265	110: 2,869,985	2,876,070
2,921,690	2,900,222	2,907,715	2,884,305	2,884,306	2,881,049	2,876,071
2,922,695	2,906,595	2,912,728	2,885,258	2,885,259	2,888,322	2,882,130
2,923,700	73: 2,867,869	2,904,863	2,885,259	2,886,406	2,905,531	2,882,131
2,924,705	2,875,483	203: 2,874,429	2,886,407	2,887,093	2,901,318	2,887,363
2,925,710	2,877,523	2,881,490	2,886,408	2,887,094	112: 2,908,549	182: 2,871,099
2,926,715	2,885,751	2,882,571	2,886,409	2,887,095	2,886,412	2,876,072
2,927,720	2,893,759	2,883,723	2,887,096	2,887,096	2,893,835	2,879,136
2,928,725	2,904,861	204: 2,870,498	2,887,097	2,887,097	2,899,272	2,886,414
2,929,730	2,908,054	2,881,491	2,887,098	2,887,098	2,901,319	2,891,844
2,930,735	74: 2,892,224	2,882,572	2,887,099	2,887,099	2,901,320	2,911,286
2,931,740	2,903,760	2,883,724	2,887,100	2,887,101	115: 2,898,190	183: 2,879,137
2,932,745	76: 2,901,745	2,884,306	2,887,101	2,887,102	117: 2,881,050	2,899,276
2,933,750	79: 2,891,292	2,885,258	2,887,102	2,887,103	119: 2,874,028	2,902,345
2,934,755	82: 2,881,488	205: 2,870,499	2,887,103	2,887,104	2,890,101	2,909,408
2,935,760	2,882,567	210: 2,870,500	2,887,104	2,887,105	2,890,935	2,872,291
2,936,765	2,889,597	212: 2,912,731	2,887,105	2,887,106	2,895,800	2,880,065



## Class 23—Con.

184: 2, 882, 132	209. 4: 2, 911, 287	262: 2, 917, 371	288: 2, 901, 331	73: 2, 881, 493	126: 2, 881, 497	205. 15: 2, 882, 577
2, 884, 309	2, 915, 371	263: 2, 908, 556	2, 901, 332	2, 884, 672	2, 884, 672	2, 882, 578
2, 884, 310	2, 915, 372	264: 2, 900, 237	2, 904, 410	2, 885, 754	2, 890, 510	2, 887, 751
2, 887, 364	2, 917, 370	267: 2, 874, 032	2, 906, 609	2, 889, 600	2, 897, 563	2, 887, 752
2, 880, 204	2, 918, 353	2, 879, 143	2, 909, 415	2, 889, 601	2, 901, 799	2, 888, 728
2, 908, 552	2, 878, 104	2, 880, 077	2, 911, 291	2, 893, 087	2, 902, 736	2, 890, 512
185: 2, 917, 368	2, 892, 684	2, 885, 271	2, 914, 387	2, 894, 301	2, 903, 770	2, 901, 803
186: 2, 869, 987	2, 895, 805	2, 895, 808	2, 914, 388	2, 894, 302	2, 903, 771	2, 904, 868
2, 869, 988	2, 901, 324	2, 919, 178	2, 915, 375	2, 897, 559	2, 913, 791	2, 905, 996
2, 876, 073	209. 9: 2, 914, 383	270: 2, 907, 640	2, 916, 360	2, 898, 653	128: 2, 900, 689	2, 900, 824
2, 901, 321	210: 2, 908, 554	270. 5: 2, 872, 295	2, 916, 361	2, 899, 729	129: 2, 870, 506	2, 911, 699
2, 915, 366	212: 2, 885, 267	2, 879, 144	2, 917, 373	2, 900, 687	2, 884, 674	205. 16: 2, 903, 775
188: 2, 888, 324	2, 911, 288	2, 892, 688	289: 2, 910, 350	2, 904, 864	2, 903, 772	2, 899, 732
2, 894, 820	213: 2, 879, 139	2, 893, 846	290: 2, 871, 109	2, 908, 955	130: 2, 873, 499	206: 2, 875, 492
2, 902, 346	216: 2, 892, 685	2, 895, 809	2, 872, 298	2, 908, 956	2, 881, 498	2, 895, 198
2, 904, 401	2, 874, 031	2, 900, 238	290. 5: 2, 876, 082	2, 909, 819	131: 2, 876, 517	2, 900, 696
190: 2, 878, 103	2, 892, 686	2, 903, 342	294: 2, 877, 100	2, 910, 750	132: 2, 882, 575	2, 887, 729
2, 917, 369	2, 904, 401	2, 906, 606	2, 890, 939	2, 910, 751	133: 2, 867, 875	2, 888, 729
191: 2, 872, 292	2, 918, 354	2, 909, 414	2, 916, 362	2, 911, 693	134: 2, 867, 020	207: 2, 870, 508
2, 888, 325	219: 2, 878, 105	2, 912, 310	2, 876, 083	2, 911, 694	2, 890, 511	211: 2, 867, 024
2, 898, 193	222: 2, 881, 054	2, 914, 385	2, 881, 058	2, 912, 734	2, 897, 564	2, 882, 579
2, 910, 347	223: 2, 876, 077	271: 2, 906, 607	2, 882, 133	2, 918, 712	2, 900, 690	2, 889, 606
193: 2, 874, 029	223. 5: 2, 897, 057	272: 2, 891, 845	2, 883, 273	75: 2, 876, 516	2, 896, 287	2, 896, 287
2, 889, 205	2, 907, 637	272. 6: 2, 907, 641	2, 890, 940	2, 893, 088	136: 2, 912, 736	2, 901, 804
2, 890, 937	223. 5: 2, 883, 260	273: 2, 890, 938	2, 904, 411	2, 896, 284	2, 916, 785	2, 902, 737
2, 892, 682	2, 901, 325	2, 893, 847	2, 906, 610	2, 901, 794	2, 917, 799	213: 2, 875, 493
196: 2, 899, 277	2, 904, 404	2, 897, 061	296: 2, 901, 333	77: 2, 874, 431	137: 2, 871, 538	2, 895, 199
198: 2, 881, 053	2, 904, 405	2, 903, 343	301: 2, 872, 299	2, 885, 724	2, 886, 871	215: 2, 875, 494
2, 894, 821	2, 909, 411	2, 907, 642	2, 895, 812	2, 905, 991	2, 913, 792	2, 916, 787
2, 919, 176	224: 2, 872, 294	2, 907, 643	2, 895, 813	78: 2, 869, 200	138: 2, 885, 724	216: 2, 916, 788
200: 2, 900, 236	2, 898, 196	2, 916, 359	2, 902, 350	79: 2, 870, 505	2, 910, 753	217: 2, 898, 656
2, 904, 402	2, 898, 197	277: 2, 889, 209	2, 908, 004	81: 2, 867, 019	140: 2, 867, 021	2, 908, 050
2, 916, 357	2, 910, 348	2, 893, 848	2, 914, 389	2, 869, 201	2, 889, 604	2, 867, 025
201: 2, 892, 683	225: 2, 889, 207	2, 897, 062	302: 2, 904, 412	2, 874, 432	141: 2, 901, 800	2, 878, 542
2, 893, 840	2, 901, 326	2, 900, 239	308: 2, 915, 369	2, 882, 573	143: 2, 869, 205	2, 878, 543
2, 898, 194	230: 2, 867, 509	2, 912, 311	310: 2, 877, 101	2, 885, 755	146: 2, 899, 730	2, 879, 572
2, 912, 306	2, 868, 625	2, 914, 386	2, 890, 941	2, 889, 602	153: 2, 876, 518	2, 881, 499
202: 2, 876, 074	2, 871, 105	2, 915, 374	312: 2, 894, 827	2, 891, 296	156: 2, 869, 206	2, 882, 580
2, 886, 415	2, 876, 078	279: 2, 886, 417	2, 897, 065	2, 894, 303	2, 875, 488	2, 884, 677
2, 899, 278	2, 880, 070	2, 886, 418	2, 898, 203	2, 898, 654	2, 887, 748	2, 886, 872
2, 903, 341	2, 880, 071	281: 2, 871, 107	2, 900, 240	2, 901, 795	2, 895, 196	2, 887, 753
2, 909, 409	2, 881, 055	2, 873, 173	314: 2, 867, 513	2, 905, 992	2, 903, 773	2, 900, 697
2, 914, 381	2, 889, 208	2, 889, 210	2, 872, 300	2, 908, 957	2, 904, 865	2, 910, 756
2, 915, 367	2, 894, 823	2, 913, 317	2, 883, 274	2, 909, 820	157: 2, 897, 565	226: 2, 893, 094
203: 2, 876, 075	2, 895, 806	283: 2, 872, 296	2, 888, 334	2, 909, 821	158: 2, 893, 091	227: 2, 886, 873
2, 879, 138	2, 897, 058	2, 878, 107	2, 890, 942	2, 911, 695	2, 906, 286	230: 2, 869, 208
2, 880, 066	2, 899, 280	2, 881, 057	2, 892, 689	2, 911, 696	159: 2, 900, 691	2, 870, 509
2, 880, 067	2, 901, 327	2, 905, 537	2, 917, 374	2, 914, 829	161: 2, 873, 500	2, 870, 510
2, 907, 636	2, 902, 348	284: 2, 867, 512	Class 24	2, 888, 725	163: 2, 900, 693	2, 882, 581
2, 912, 307	2, 909, 412	2, 869, 991	3: 2, 869, 198	2, 895, 194	2, 900, 692	2, 894, 306
204: 2, 871, 100	2, 909, 413	2, 873, 174	2, 876, 513	85: 2, 910, 752	2, 900, 693	2, 895, 200
2, 880, 068	2, 910, 349	2, 876, 079	2, 881, 492	86: 2, 881, 494	2, 884, 675	2, 896, 288
2, 884, 311	2, 918, 355	2, 876, 080	2, 890, 507	2, 903, 765	2, 912, 737	230. 5: 2, 867, 026
2, 888, 326	232: 2, 879, 140	2, 877, 098	2, 890, 507	87: 2, 912, 735	2, 913, 794	232: 2, 872, 717
2, 888, 327	2, 880, 072	2, 885, 272	2, 885, 272	88: 2, 896, 285	2, 874, 435	2, 895, 201
2, 888, 328	2, 888, 330	2, 890, 106	2, 891, 846	2, 897, 560	168: 2, 867, 876	235: 2, 896, 289
2, 893, 841	2, 897, 059	2, 890, 106	2, 891, 846	2, 897, 561	173: 2, 903, 774	236: 2, 876, 520
2, 894, 822	2, 904, 406	2, 893, 849	2, 893, 849	2, 885, 756	2, 904, 866	237: 2, 871, 540
2, 895, 803	2, 905, 536	2, 893, 850	2, 893, 850	2, 897, 562	2, 916, 786	238: 2, 875, 495
2, 898, 195	252: 2, 885, 258	2, 897, 063	2, 897, 063	100: 2, 873, 497	171: 2, 884, 677	239: 2, 896, 290
2, 899, 279	2, 898, 198	2, 899, 283	2, 899, 283	102: 2, 879, 571	175: 2, 904, 867	241: 2, 905, 997
2, 906, 605	2, 898, 199	2, 905, 538	2, 905, 538	103: 2, 873, 498	182: 2, 905, 994	243: 2, 881, 500
2, 912, 308	2, 904, 407	2, 906, 608	2, 906, 608	2, 874, 433	188: 2, 897, 566	196: 2, 878, 540
2, 913, 312	253: 2, 867, 510	2, 907, 644	2, 914, 826	105: 2, 902, 735	197: 2, 895, 197	200: 2, 901, 801
2, 915, 368	2, 878, 106	2, 911, 289	2, 912, 312	107: 2, 903, 766	182: 2, 905, 994	201: 2, 867, 877
2, 918, 352	2, 879, 141	2, 912, 290	2, 907, 086	108: 2, 892, 229	188: 2, 897, 566	2, 869, 207
205: 2, 876, 076	2, 888, 331	2, 913, 318	2, 913, 318	19: 2, 882, 572	199: 2, 901, 797	2, 871, 539
2, 877, 096	2, 888, 332	2, 918, 356	2, 895, 193	20: 2, 876, 514	210: 2, 869, 202	2, 892, 233
2, 877, 097	2, 893, 843	255: 2, 872, 297	2, 898, 599	21: 2, 889, 599	113: 2, 869, 203	2, 896, 292
2, 883, 267	2, 893, 844	2, 875, 027	2, 908, 058	22: 2, 870, 503	2, 880, 487	2, 896, 293
2, 897, 055	2, 897, 060	2, 894, 824	2, 870, 504	23: 2, 870, 504	2, 881, 495	2, 898, 657
2, 901, 322	2, 898, 200	2, 895, 810	2, 871, 536	2, 872, 300	2, 883, 725	2, 910, 755
2, 904, 403	2, 901, 328	2, 903, 344	2, 914, 827	2, 914, 828	2, 894, 304	2, 910, 756
2, 919, 177	2, 907, 638	2, 917, 372	2, 914, 828	26: 2, 867, 872	114. 5: 2, 898, 655	2, 910, 757
206: 2, 888, 329	2, 912, 309	288: 2, 868, 627	2, 867, 872	27: 2, 874, 430	115: 2, 867, 874	2, 910, 758
207: 2, 867, 507	2, 914, 384	2, 871, 105	2, 871, 105	33: 2, 873, 494	2, 875, 489	2, 901, 798
2, 869, 989	254: 2, 867, 511	2, 873, 176	2, 873, 176	2, 896, 282	116: 2, 893, 089	2, 893, 089
2, 871, 101	2, 880, 073	2, 873, 177	2, 873, 177	2, 898, 652	2, 903, 767	2, 894, 305
2, 871, 102	2, 881, 056	2, 875, 028	2, 875, 028	2, 912, 732	117: 2, 869, 204	2, 867, 882
2, 871, 103	2, 883, 270	2, 876, 081	2, 876, 081	2, 912, 733	2, 871, 537	2, 915, 798
2, 886, 416	2, 899, 281	2, 877, 089	2, 877, 089	2, 912, 734	2, 893, 090	2, 880, 488
2, 890, 105	2, 907, 639	2, 878, 108	2, 878, 108	2, 912, 735	2, 911, 697	2, 867, 879
2, 901, 323	2, 908, 555	2, 879, 145	2, 879, 145	2, 912, 736	120: 2, 877, 526	2, 878, 541
2, 902, 347	2, 916, 358	2, 880, 078	2, 880, 078	2, 912, 737	2, 878, 541	2, 883, 726
2, 914, 382	255: 2, 879, 142	2, 880, 079	2, 880, 079	2, 912, 738	123: 2, 872, 716	2, 897, 567
207. 5: 2, 872, 293	2, 895, 807	2, 886, 419	2, 886, 419	2, 912, 739	2, 874, 434	2, 901, 802
208: 2, 869, 990	2, 899, 282	2, 887, 365	2, 887, 365	2, 912, 740	2, 877, 527	2, 907, 087
2, 880, 069	2, 901, 329	2, 888, 333	2, 888, 333	2, 912, 741	2, 881, 496	2, 907, 088
2, 883, 268	256: 2, 913, 316	2, 891, 847	2, 891, 847	2, 912, 742	2, 885, 726	2, 907, 089
2, 908, 553	259: 2, 868, 626	2, 893, 851	2, 893, 851	2, 912, 743	2, 889, 603	2, 908, 955
2, 913, 313	2, 902, 349	2, 894, 825	2, 894, 825	2, 912, 744	2, 892, 230	2, 913, 795
2, 913, 314	2, 904, 408	2, 895, 811	2, 895, 811	2, 912, 745	2, 895, 195	2, 913, 796
2, 913, 315	259. 1: 2, 880, 074	2, 896, 201	2, 896, 201	2, 912, 746	2, 905, 993	2, 905, 993
209: 2, 874, 030	259. 5: 2, 877, 717	2, 898, 202	2, 898, 202	124: 2, 913, 790	125: 2, 900, 688	2, 905, 994
2, 889, 206	2, 883, 271	2, 899, 284	2, 899, 284	2, 900, 688	2, 908, 958	2, 879, 570
2, 893, 842	2, 885, 269	2, 899, 285	2, 899, 285	2, 908, 958		
2, 907, 056	2, 886, 567	2, 899, 286	2, 899, 286			
2, 909, 410	260: 2, 8					



263: 2, 911, 700	126: 2, 882, 582	35: 2, 880, 492	1. 21: 2, 891, 298	96: 2, 870, 523	155. 58: 2, 870, 525	199: 2, 897, 584
265: 2, 870, 511	127: 2, 869, 213	2, 911, 703	2, 913, 804	2, 877, 535	2, 875, 508	200: 2, 878, 555
2, 876, 521	2, 871, 541	2, 916, 797	1. 22: 2, 898, 666	2, 883, 737	2, 876, 449	201: 2, 890, 518
2, 877, 529	128: 2, 878, 545	<b>Class 28</b>	1. 3: 2, 904, 873	2, 887, 760	155. 59: 2, 915, 812	203: 2, 873, 513
2, 883, 727	129: 2, 895, 206		2, 916, 799	2, 897, 579	155. 6: 2, 892, 248	2, 877, 541
2, 886, 874	130: 2, 873, 504	1: 2, 874, 443	6: 2, 891, 299	2, 897, 580	155. 61: 2, 892, 249	2, 870, 585
2, 893, 095	2, 894, 311	2, 874, 444	2, 911, 705	2, 899, 733	2, 896, 311	2, 884, 689
2, 893, 096	2, 895, 207	2, 874, 445	2, 884, 683	2, 900, 704	2, 904, 875	2, 866, 313
2, 901, 806	2, 903, 777	2, 875, 502	2, 888, 734	2, 900, 705	2, 910, 767	2, 896, 314
2, 916, 790	131: 2, 870, 516	2, 875, 503	18: 2, 898, 667	2, 903, 781	155. 63: 2, 892, 250	2, 906, 010
2, 916, 791	2, 870, 517	2, 878, 547	21: 2, 901, 816	2, 908, 963	156. 4: 2, 885, 768	2, 914, 843
270: 2, 869, 211	2, 871, 542	2, 886, 877	24. 5: 2, 874, 447	2, 911, 707	2, 894, 876	205: 2, 867, 896
2, 915, 799	2, 879, 576	2, 909, 827	2, 893, 106	2, 912, 744	156. 62: 2, 907, 101	2, 873, 514
273: 2, 896, 296	2, 882, 583	2, 913, 799	2, 917, 810	97: 2, 877, 536	156. 8: 2, 880, 496	2, 873, 515
274: 2, 910, 758	2, 885, 762	4: 2, 873, 507	2, 896, 306	2, 893, 110	2, 889, 615	2, 882, 590
279: 2, 867, 883	2, 887, 757	2, 882, 585	25. 11: 2, 896, 306	97. 5: 2, 916, 802	2, 894, 318	206: 2, 891, 305
2, 874, 438	2, 892, 236	2, 896, 302	25. 12: 2, 894, 315	98: 2, 907, 099	2, 895, 212	208: 2, 875, 512
2, 874, 439	2, 895, 208	2, 896, 303	2, 902, 747	103: 2, 869, 218	2, 903, 785	2, 887, 767
2, 874, 440	2, 896, 300	2, 902, 746	25. 13: 2, 879, 583	2, 903, 782	2, 914, 841	2, 913, 816
2, 874, 441	2, 898, 659	2, 915, 804	2, 869, 217	2, 909, 831	2, 916, 807	2, 916, 811
2, 893, 097	2, 899, 735	8: 2, 892, 242	2, 872, 721	2, 916, 803	2, 916, 808	210: 2, 908, 967
2, 897, 568	2, 901, 810	15: 2, 904, 871	2, 874, 449	105: 2, 867, 031	2, 917, 815	211: 2, 878, 556
2, 897, 569	2, 902, 743	20: 2, 907, 091	2, 878, 549	2, 881, 507	157: 2, 892, 251	2, 900, 709
2, 899, 733	2, 902, 744	21: 2, 909, 610	2, 896, 307	2, 881, 508	2, 907, 102	2, 902, 750
2, 900, 698	2, 904, 870	28: 2, 886, 878	2, 912, 743	2, 885, 766	157. 1: 2, 869, 221	2, 906, 011
2, 908, 061	2, 918, 716	43: 2, 897, 575	2, 913, 805	2, 893, 111	2, 884, 686	2, 910, 768
290: 2, 917, 621	131. 5: 2, 881, 501	46: 2, 899, 736	25. 17: 2, 870, 520	2, 903, 783	2, 904, 877	213: 2, 867, 034
<b>Class 25</b>	2, 892, 237	55: 2, 886, 879	25. 18: 2, 917, 811	2, 916, 804	2, 890, 222	2, 877, 542
1: 2, 867, 884	2, 892, 238	58: 2, 897, 576	25. 19: 2, 880, 494	2, 908, 066	2, 882, 588	2, 882, 591
2, 870, 512	2, 894, 312	62: 2, 908, 961	2, 908, 066	2, 915, 807	2, 896, 312	2, 882, 740
2, 877, 530	2, 896, 301	64: 2, 883, 732	2, 917, 812	2, 917, 812	2, 906, 006	2, 889, 616
2, 886, 875	2, 902, 745	71. 3: 2, 893, 733	2, 874, 448	2, 891, 301	2, 912, 749	219: 2, 870, 528
2, 893, 098	2, 917, 804	71. 4: 2, 904, 872	2, 875, 506	121: 2, 908, 068	2, 914, 842	224: 2, 898, 673
2, 895, 204	131. 6: 2, 870, 518	72: 2, 867, 889	2, 877, 533	126: 2, 892, 244	2, 912, 749	225: 2, 890, 519
2, 897, 570	142: 2, 879, 577	2, 867, 890	2, 879, 582	129: 2, 890, 517	2, 912, 749	227: 2, 883, 742
2, 917, 801	153: 2, 881, 502	2, 874, 446	2, 888, 735	148. 3: 2, 887, 761	2, 878, 509	2, 885, 769
2, 912, 738	154: Re. 24, 617	2, 875, 504	2, 888, 736	2, 892, 245	2, 917, 816	2, 903, 786
8: 2, 916, 792	2, 869, 214	2, 876, 524	2, 894, 313	2, 880, 495	2, 881, 510	229: 2, 870, 529
17: 2, 875, 497	2, 879, 578	2, 878, 546	2, 894, 314	2, 885, 767	2, 878, 552	2, 876, 531
2, 918, 714	2, 892, 239	2, 896, 305	2, 896, 305	2, 897, 582	2, 878, 553	2, 885, 770
22: 2, 898, 658	155: 2, 871, 544	2, 898, 668	2, 900, 701	2, 908, 069	2, 917, 817	2, 895, 214
2, 902, 740	2, 873, 505	2, 884, 680	2, 900, 702	2, 910, 765	182: Re. 24, 674	231: 2, 874, 455
2, 912, 739	2, 881, 503	2, 888, 733	2, 906, 002	2, 913, 810	2, 881, 511	235: 2, 872, 727
24: 2, 867, 885	2, 887, 759	2, 895, 210	2, 911, 706	2, 913, 811	2, 882, 589	2, 877, 543
2, 876, 522	2, 915, 802	2, 896, 304	2, 914, 837	2, 914, 839	2, 884, 688	2, 878, 557
2, 895, 205	155. 5: 2, 889, 608	2, 897, 577	2, 918, 719	149. 5: 2, 869, 219	2, 887, 765	2, 895, 215
2, 902, 741	2, 891, 297	2, 898, 663	2, 870, 521	2, 877, 537	2, 916, 809	2, 901, 810
27: 2, 915, 801	2, 903, 778	2, 906, 000	2, 888, 737	2, 877, 538	2, 872, 724	2, 901, 818
30: 2, 870, 513	2, 912, 740	2, 907, 093	2, 893, 107	2, 881, 509	2, 872, 726	236: 2, 878, 558
32: 2, 878, 544	156: 2, 869, 215	2, 908, 064	2, 871, 545	2, 883, 738	2, 873, 512	2, 880, 499
37: 2, 893, 099	2, 872, 719	2, 910, 762	2, 882, 586	2, 891, 302	2, 875, 510	237: 2, 916, 812
38: 2, 909, 825	2, 875, 501	2, 911, 704	2, 894, 316	2, 892, 246	2, 881, 512	238: 2, 915, 814
39: 2, 892, 235	2, 877, 532	2, 914, 835	2, 903, 780	2, 898, 671	2, 881, 513	240. 5: 2, 869, 224
41: 2, 875, 498	2, 890, 514	2, 914, 836	2, 907, 097	2, 902, 748	2, 885, 771	2, 885, 771
2, 875, 499	2, 893, 102	2, 915, 805	2, 908, 067	2, 904, 874	2, 886, 882	241: 2, 901, 819
2, 879, 575	2, 897, 572	2, 917, 805	2, 909, 830	2, 906, 005	2, 888, 738	247: 2, 884, 690
2, 885, 759	2, 898, 660	2, 917, 806	2, 910, 764	2, 909, 832	2, 888, 739	250: 2, 886, 884
2, 887, 755	2, 901, 811	2, 893, 105	2, 915, 808	2, 911, 708	2, 893, 112	252: 2, 876, 532
2, 893, 100	2, 902, 739	2, 910, 763	26: 2, 896, 308	150: 2, 918, 721	2, 894, 319	2, 878, 559
2, 896, 297	2, 918, 717	72. 2: 2, 881, 505	2, 918, 720	155: 2, 887, 762	2, 906, 007	2, 883, 741
2, 909, 826	2, 873, 508	2, 893, 105	33: 2, 900, 522	2, 889, 614	2, 909, 834	2, 890, 520
2, 911, 701	2, 883, 729	72. 3: 2, 884, 681	2, 884, 685	155. 5: 2, 867, 032	2, 913, 812	2, 906, 012
2, 916, 793	2, 892, 240	73: 2, 867, 891	2, 885, 764	2, 869, 220	2, 867, 033	256: 2, 869, 225
2, 917, 802	2, 883, 729	2, 900, 700	2, 913, 806	2, 870, 524	2, 899, 739	2, 872, 728
43: 2, 885, 760	2, 890, 514	74: 2, 867, 892	2, 916, 800	2, 871, 547	2, 899, 740	2, 895, 216
45: 2, 877, 531	2, 892, 241	2, 913, 801	35: 2, 871, 546	2, 871, 548	2, 901, 303	2, 912, 750
2, 888, 731	2, 910, 760	76: 2, 889, 611	38: 2, 876, 527	2, 871, 550	183: 2, 870, 526	2, 916, 813
90: 2, 870, 514	2, 912, 741	2, 898, 614	41: 2, 885, 765	2, 872, 723	183. 5: 2, 870, 526	261: 2, 870, 530
103: 2, 893, 101	2, 914, 834	2, 906, 001	2, 913, 807	2, 873, 509	2, 874, 453	2, 889, 617
2, 908, 062	<b>Class 26</b>	2, 907, 094	44: 2, 907, 098	2, 876, 530	2, 887, 766	2, 902, 751
104: 2, 896, 298	1: 2, 893, 103	2, 913, 802	67: 2, 878, 550	2, 877, 539	2, 900, 707	262: 2, 900, 835
118: 2, 867, 886	10: 2, 895, 209	2, 876, 525	68: 2, 883, 736	2, 877, 540	2, 918, 722	263: 2, 876, 533
2, 869, 212	2, 874, 442	2, 879, 580	69: 2, 873, 508	2, 880, 497	2, 867, 895	2, 899, 741
2, 870, 515	2, 875, 500	2, 880, 493	2, 899, 737	2, 882, 587	2, 886, 883	2, 913, 817
2, 873, 503	2, 880, 491	2, 883, 735	76: 2, 872, 722	2, 886, 880	2, 893, 113	267: 2, 881, 515
2, 874, 442	2, 885, 761	2, 884, 682	79: 2, 895, 309	2, 887, 763	2, 898, 672	2, 889, 618
2, 875, 500	2, 887, 756	2, 898, 665	80: 2, 917, 813	2, 892, 247	190: 2, 875, 511	268: 2, 908, 968
2, 880, 491	2, 894, 310	2, 908, 065	81: 2, 867, 893	2, 897, 583	191. 2: 2, 888, 740	275: Re. 24, 626
2, 885, 761	2, 899, 734	2, 913, 803	2, 874, 451	2, 900, 706	191. 4: 2, 908, 071	2, 880, 500
2, 897, 568	2, 900, 699	2, 916, 798	2, 877, 534	2, 907, 100	193. 5: 2, 871, 551	2, 898, 674
2, 899, 733	2, 901, 807	80: 2, 879, 581	2, 889, 612	2, 908, 965	2, 871, 552	2, 906, 013
2, 901, 808	2, 902, 742	2, 893, 779	2, 900, 703	2, 909, 833	2, 874, 454	283: 2, 887, 768
2, 916, 795	2, 907, 089	2, 907, 095	2, 908, 962	2, 910, 766	2, 888, 741	2, 904, 878
122: 2, 918, 715	2, 908, 063	2, 917, 807	2, 913, 808	2, 911, 709	2, 900, 708	2, 913, 818
124: 2, 901, 809	2, 908, 959	81: 2, 878, 548	2, 913, 809	2, 912, 745	2, 906, 008	286: 2, 870, 531
2, 910, 759	2, 911, 702	2, 912, 742	90: 2, 874, 452	2, 912, 746	2, 908, 966	287: 2, 873, 516
	2, 914, 832	2, 915, 806	2, 876, 528	2, 912, 747	2, 913, 813	400: 2, 896, 315
	2, 914, 833	82: 2, 901, 813	2, 881, 506	2, 912, 748	2, 888, 742	401: 2, 867, 897
	2, 916, 794	<b>Class 29</b>	2, 893, 109	2, 916, 805	195: 2, 888, 742	2, 875, 513
	2, 917, 803	1: 2, 876, 526	2, 915, 809	155. 54: 2, 887, 764	2, 906, 009	2, 877, 544
119: 2, 867, 887	11: 2, 882, 584	2, 897, 578	93: 2, 892, 243	155. 55: 2, 873, 510	2, 917, 814	2, 897, 585
121: 2, 883, 728	12: 2, 888, 732	2, 901, 814	2, 906, 003	2, 873, 511	196. 1: 2, 880, 498	2, 906, 014
2, 886, 876	14: 2, 867, 030	3. 1: 2, 872, 720	2, 915, 810	2, 916, 806	2, 913, 815	2, 906, 015
2, 896, 299	17: 2, 869, 216	2, 901, 815	2, 916, 801	155. 56: 2, 867, 894	2, 918, 723	2, 917, 819
2, 901, 808	2, 889, 609	2, 917, 808	95: 2, 891, 300	2, 879, 584	196. 2: 2, 883, 739	2, 917, 820
2, 916, 795	28: 2, 918, 718	2, 917, 809	95. 1: 2, 896, 310	155. 57: 2, 875, 507	197. 5: 2, 917, 818	2, 872, 729
	32: 2, 870, 519		2, 898, 670	2, 914, 840	198	



## Class 29—Con.

407: 2,887,770	528: 2,871,557	121: 2,908,075	316: 2,882,600	1: 2,876,543	75: 2,871,567	159: 2,894,332
2,900,710	2,871,558	123: 2,869,231	317: 2,880,507	2,878,566	2,881,525	161: 2,909,841
2,900,711	2,885,777	124: 2,873,521	319: 2,900,723	2,880,510	2,884,698	162: 2,867,909
2,902,752	2,891,309	2,890,524	324: 2,889,624	2,880,511	2,895,222	2,876,552
2,906,016	2,900,715	2,898,677	339: 2,877,553	2,884,697	2,899,749	164: 2,871,571
2,879,588	2,906,018	125: 2,879,591	347: 2,917,826	2,889,626	2,899,750	2,880,514
2,884,691	529: 2,884,693	128: 2,912,755	353: 2,907,108	2,889,627	2,906,025	166: 2,878,571
2,885,774	535: 2,874,460	129: 2,873,522	355: 2,895,218	2,891,314	2,912,762	2,900,731
410: 2,885,775	544: 2,877,546	130: 2,867,907		2,894,326	76: 2,874,474	167: 2,906,029
411: 2,896,316	2,883,744	133: 2,914,849		2,894,327	2,882,604	2,912,764
414: 2,891,306	552.2: 2,878,561	134: 2,903,790		2,899,747	2,908,079	
416: 2,867,898	2,906,019	140: 2,873,523		2,900,724	77: 2,876,547	168: 2,882,605
2,902,753	552.4: 2,878,562	151: 2,867,901		2,904,885	2,895,223	2,901,829
417: 2,885,776	553: 2,886,886	152: 2,889,621		2,906,023	79: 2,900,728	169: 2,876,553
2,902,754		155: 2,876,536		2,914,853	2,908,977	170: 2,893,130
418: 2,887,771		156: 2,903,791		2,914,854	2,915,828	2,898,685
419: 2,901,820		161: 2,869,232		2,916,825	80: 2,877,556	2,910,779
420: 2,902,755		162: 2,869,233		2,903,795	2,896,326	2,914,857
420.5: 2,873,517		2,870,537		2,915,825	2,909,840	
2,873,518		2,874,462		2,908,973	2,918,726	
2,913,819		2,885,779		2,917,827	81: 2,879,597	
2,917,821		2,904,884			85: 2,893,125	172: 2,867,043
421: 2,869,226		164: 2,896,321			88: 2,878,560	2,872,736
2,886,885		2,885,780			89: 2,900,729	2,872,737
2,892,253		2,902,760			90: 2,917,831	2,880,515
2,892,254		2,902,761			93: 2,867,906	2,882,606
2,907,103		2,902,762			2,875,523	2,883,755
422: 2,900,712		166: 2,881,519			2,877,557	2,898,686
423: 2,881,517		168: 2,896,322			2,908,080	2,900,733
2,891,307		2,910,771			95: 2,872,735	2,908,980
2,904,879		2,912,756			98: 2,874,475	2,911,726
424: 2,869,227		2,912,757			2,874,476	2,914,858
2,893,114		2,880,505			2,887,775	
2,893,115		2,895,217			102: 2,873,532	2,878,534
2,916,814		2,907,106			103: 2,893,126	2,878,572
427: 2,874,457		170: 2,882,594			104: 2,883,753	2,878,573
428: 2,869,228		171: 2,876,537			2,883,754	2,878,574
2,877,545		180: 2,899,744			107: 2,908,081	2,878,575
2,882,592		182: 2,873,524			109: 2,893,127	2,879,602
433: 2,876,534		200: 2,867,902			110: 2,908,082	2,880,516
2,883,743		2,874,463			2,910,776	2,883,756
436: 2,874,458		2,892,255			111: 2,904,891	2,885,787
441: 2,879,586		2,918,723			112: 2,881,526	2,887,776
447: 2,899,742		201: 2,869,234			125: 2,875,524	2,892,257
2,917,822		2,882,595			2,879,598	2,893,131
450: 2,880,501		2,896,323			2,899,748	2,895,224
2,914,845		2,916,820			2,913,823	2,895,225
451: 2,871,553		202: 2,911,715			31: 2,879,596	2,881,527
452: 2,871,554		205: 2,867,040			32: 2,916,826	2,892,256
455: 2,867,035		208: 2,883,746			37: 2,881,523	2,900,730
2,878,560		2,876,538			41: 2,870,539	2,901,828
463: 2,873,519		2,883,747			2,888,749	2,902,765
467: 2,897,586		216: 2,882,596			2,894,329	2,908,978
470.1: 2,894,321		227: 2,908,076			2,900,725	2,914,858
2,894,322		2,915,820			2,898,682	126: 2,906,026
470.9: 2,908,969		228: 2,877,550			2,900,726	126.6: 2,876,548
471.1: 2,870,532		2,888,744			46: 2,869,238	2,869,239
2,914,846		2,911,716			2,906,022	2,899,751
471.5: 2,904,880		229: 2,874,464			2,875,522	126.7: 2,902,766
471.7: 2,867,036		230: 2,916,822			2,878,568	2,917,832
473.1: 2,902,756		233: 2,889,622			2,882,602	127: 2,869,240
2,903,788		238: 2,900,722			2,883,751	128: 2,869,243
2,908,072		240: 2,894,324			2,887,774	129: 2,871,568
473.3: 2,914,847		241: 2,916,823			2,893,123	2,874,477
2,915,815		248: 2,873,525			2,893,124	2,876,549
474.3: 2,871,555		249: 2,917,829			2,900,727	2,896,329
475: 2,889,619		250: 2,874,465			2,910,775	2,902,767
2,900,713		252: 2,869,235			2,913,824	2,907,797
2,904,881		253: 2,897,591			2,913,825	2,907,798
481: 2,894,323		254: 2,870,538			2,915,826	141: 2,871,569
487: 2,867,037		269: 2,898,678			2,878,565	143: 2,871,570
2,875,514		271: 2,885,781			2,889,628	2,874,478
2,897,587		272: 2,879,592			2,902,764	2,877,558
488: 2,879,587		277: 2,908,077			2,894,331	2,893,128
2,907,104		283: 2,876,539			2,906,027	2,896,331
2,908,073		284: 2,877,551			2,876,546	2,896,332
494: 2,867,899		286: 2,882,597			2,889,629	2,896,333
2,914,848		291: 2,888,745			2,896,326	2,907,111
495: 2,882,593		293: 2,880,506			2,909,838	2,908,085
2,901,821		294: 2,882,598			2,911,723	2,910,781
496: 2,872,730		276: 2,872,731			2,913,826	2,914,860
2,887,772		280: 2,881,520			51: 2,904,888	2,876,550
497: 2,891,308		283: 2,876,539			52: 2,911,724	2,876,551
497.5: 2,911,710		284: 2,877,552			56: 2,881,524	2,878,570
498: 2,907,105		286: 2,882,597			2,901,827	2,879,600
504: 2,916,815		291: 2,888,745			58: 2,871,566	2,879,601
505: 2,884,692		293: 2,880,506			61: 2,894,330	2,880,513
507: 2,916,816		294: 2,882,599			2,904,889	2,889,631
513: 2,871,556		277: 2,879,592			62: 2,918,725	2,893,129
2,900,714		283: 2,876,539			64: 2,882,603	2,895,229
517: 2,874,459		284: 2,877,552			66: 2,889,630	2,896,334
2,901,822		286: 2,882,597			72: 2,915,827	2,903,796
518: 2,906,017		291: 2,888,745			73: 2,877,555	2,913,829
521: 2,913,820		293: 2,880,506			74: 2,897,041	2,881,532
522: 2,890,521		294: 2,882,598			2,873,531	2,883,759
525: 2,870,533		276: 2,872,731			2,883,752	2,877,559
527: 2,876,535		280: 2,881,520			2,896,327	2,886,892
2,881,518		283: 2,876,539			2,904,890	2,902,768
2,897,588		284: 2,877,552			2,909,839	2,910,777
2,912,751		286: 2,882,597			2,913,827	157: 2,886,893
		291: 2,888,745			2,914,855	158: 2,867,042
		293: 2,880,506			2,916,827	
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
		283: 2,876,539				
		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
		283: 2,876,539				
		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
		283: 2,876,539				
		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
		283: 2,876,539				
		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
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		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
		283: 2,876,539				
		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
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		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
		283: 2,876,539				
		284: 2,877,552				
		286: 2,882,597				
		291: 2,888,745				
		293: 2,880,506				
		294: 2,882,598				
		276: 2,872,731				
		280: 2,881,520				
		283: 2,876,539				



184. 5:	2, 871, 572	23:	2, 904, 893	174:	2, 891, 321	28. 3:	2, 917, 836	8. 5:	2, 878, 593	86:	2, 888, 757	Class 38	5:	2, 899, 761
	2, 886, 894	26:	2, 906, 034	179:	2, 886, 902	28. 5:	2, 878, 590		2, 884, 717		2, 890, 532		12:	2, 875, 536
	2, 900, 735	29:	2, 877, 562	184:	2, 918, 729	29:	2, 871, 580		2, 884, 338	90:	2, 915, 838		22:	2, 867, 923
	2, 901, 832		2, 880, 520	187:	2, 874, 484		2, 875, 528		2, 903, 802	91:	2, 885, 800		44:	2, 913, 538
	2, 902, 770	31:	2, 874, 452		2, 892, 265		2, 901, 838		2, 909, 854	97:	2, 873, 541		22:	2, 867, 923
	2, 902, 771	36:	2, 884, 707	193:	2, 911, 732		2, 913, 835		2, 918, 734		2, 879, 612		48:	2, 906, 042
	2, 907, 112	37:	2, 911, 729	205:	2, 909, 850	31:	2, 871, 581	10:	2, 886, 339		2, 894, 341		52:	2, 900, 747
184. 6:	2, 887, 780	43:	2, 904, 894	216:	2, 907, 120		2, 879, 608	11:	2, 900, 743		2, 896, 342		56:	2, 869, 258
185:	2, 878, 576	44:	2, 897, 117	218:	2, 896, 337		2, 884, 714	14:	2, 918, 735		2, 914, 866		58:	2, 878, 599
	2, 884, 700	45:	2, 869, 247	230:	2, 874, 485		2, 892, 267	19. 5:	2, 910, 787		2, 896, 343		59:	2, 881, 542
	2, 886, 895		2, 876, 556	231:	2, 898, 691		2, 899, 756	24. 5:	2, 901, 841		2, 911, 735		66:	2, 895, 240
	2, 886, 896		2, 878, 579	236:	2, 876, 558		2, 906, 037		2, 901, 841		2, 916, 835			2, 877, 577
	2, 891, 317		2, 878, 580	Class 35		32:	2, 875, 529	25:	2, 887, 794	104:	2, 886, 904		2, 880, 529	2, 887, 798
	2, 895, 687		2, 882, 610				2, 876, 560		2, 889, 639		2, 899, 759		2, 907, 126	2, 910, 791
	2, 912, 765		2, 885, 789	1:	2, 900, 740		2, 899, 757	30:	2, 884, 718		2, 890, 745		2, 911, 734	2, 910, 791
188:	2, 887, 781		2, 887, 785	2:	2, 884, 712		2, 872, 742		2, 896, 340		2, 900, 745		2, 911, 734	2, 910, 791
	2, 889, 632		2, 895, 230	4:	2, 877, 565		2, 888, 753	34:	2, 874, 488	105:	2, 894, 342		2, 911, 734	2, 910, 791
	2, 891, 318		2, 903, 799	5:	2, 892, 266		2, 915, 834		2, 878, 594		2, 906, 041		2, 911, 734	2, 910, 791
189:	2, 873, 535		2, 904, 895	8:	2, 867, 044	34:	2, 872, 743		2, 879, 610	108:	2, 901, 843		2, 911, 734	2, 910, 791
	2, 884, 701		2, 906, 035		2, 890, 527		2, 885, 795		2, 885, 796	110:	2, 896, 344		2, 911, 734	2, 910, 791
	2, 889, 633		2, 910, 783		2, 908, 981		2, 902, 777		2, 902, 778	115:	2, 910, 789		2, 911, 734	2, 910, 791
	2, 895, 228	46:	2, 867, 913		2, 910, 785	35:	2, 867, 917		2, 867, 917	117. 6:	2, 870, 551		2, 911, 734	2, 910, 791
	2, 898, 688	48:	2, 884, 730		2, 917, 835		2, 869, 252		2, 869, 252		2, 874, 489		2, 911, 734	2, 910, 791
	2, 907, 113		2, 885, 790	9:	2, 869, 250		2, 875, 530		2, 875, 530		2, 878, 598		2, 911, 734	2, 910, 791
190:	2, 872, 738	54:	2, 869, 248		2, 871, 577		2, 876, 561	35:	2, 917, 841		2, 883, 772		2, 911, 734	2, 910, 791
191:	2, 907, 114		2, 871, 574		2, 872, 741		2, 883, 766		2, 917, 841		2, 903, 803		2, 911, 734	2, 910, 791
192:	2, 893, 133		2, 903, 800		2, 877, 566		2, 883, 767	36:	2, 875, 532		2, 903, 803		2, 911, 734	2, 910, 791
193:	2, 877, 560	57:	2, 871, 575		2, 877, 567		2, 891, 324		2, 878, 595		2, 908, 089		2, 911, 734	2, 910, 791
194:	2, 895, 229		2, 876, 557		2, 877, 568		2, 900, 741		2, 908, 089		2, 901, 844		2, 911, 734	2, 910, 791
	2, 895, 229		2, 877, 563		2, 887, 789	38:	2, 867, 790		2, 871, 583		2, 907, 125		2, 911, 734	2, 910, 791
197:	2, 869, 245		2, 886, 899		2, 887, 789		2, 900, 742		2, 875, 532		2, 883, 773		2, 911, 734	2, 910, 791
	2, 894, 333		2, 892, 262		2, 887, 789		2, 907, 123		2, 878, 595		2, 901, 844		2, 911, 734	2, 910, 791
199:	2, 872, 739		2, 891, 320		2, 902, 775		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 878, 577		2, 892, 262		2, 909, 851		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 880, 518		2, 904, 896		2, 910, 786		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 883, 760		2, 911, 738		2, 911, 741		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 892, 259		2, 912, 768		2, 911, 742		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 901, 833		2, 916, 831	10. 2:	2, 871, 578		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
200:	2, 884, 702	58:	2, 881, 533		2, 878, 585		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
201:	2, 883, 761		2, 884, 709		2, 885, 791		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 884, 703		2, 902, 773	10. 4:	2, 869, 251		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
202:	2, 895, 688		2, 912, 769		2, 881, 535		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 901, 834	60:	2, 900, 738		2, 889, 635		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
203:	2, 882, 607	63:	2, 870, 545		2, 889, 636		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
203. 14:	2, 883, 762		2, 897, 602		2, 889, 637		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
203. 18:	2, 882, 608	65:	2, 869, 249	11:	2, 870, 548		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 899, 752	68:	2, 872, 740		2, 908, 087		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 907, 115		2, 896, 335	12:	2, 867, 915		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
203. 21:	2, 899, 753	71:	2, 882, 611		2, 874, 486		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
204:	2, 886, 897	75:	2, 873, 537		2, 882, 615		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 888, 752		2, 880, 521		2, 883, 763		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 912, 766		2, 893, 135		2, 885, 792		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 914, 862		2, 911, 731		2, 890, 528		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
205. 5:	2, 901, 835	80:	2, 913, 832		2, 890, 529		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
206:	2, 893, 134	82:	2, 886, 900		2, 894, 335		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 910, 782	86:	2, 882, 612		2, 909, 852		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 912, 767		2, 895, 231		2, 909, 853		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
207:	2, 871, 573		2, 896, 336		2, 916, 832		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 901, 836	87:	2, 871, 576	13:	2, 877, 569		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 906, 031		2, 880, 522		2, 885, 793		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 907, 116		2, 887, 786		2, 897, 604		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
208:	2, 879, 606	90:	2, 904, 897		2, 907, 121		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
209:	2, 904, 892	92:	2, 878, 581		2, 908, 088		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
214:	2, 906, 032		2, 880, 523	16:	2, 878, 586		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
215:	2, 877, 561		2, 895, 232		2, 883, 764		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 878, 578	97:	2, 913, 833		2, 907, 122		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
217:	2, 906, 033	99:	2, 897, 603		2, 915, 831		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
221:	2, 892, 260		2, 900, 739		2, 915, 832		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
222:	2, 886, 898	102:	2, 880, 524	17:	2, 871, 579		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 887, 782	104:	2, 867, 914		2, 871, 584		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 898, 690	105:	2, 878, 582		2, 904, 898		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 909, 845	111:	2, 909, 847	18:	2, 882, 616		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
	2, 914, 863	112:	2, 887, 787		2, 882, 617		2, 907, 123		2, 878, 595		2, 907, 125		2, 911, 734	2, 910, 791
224:	2, 900, 736	113:	2, 917, 741		2, 891, 322		2, 907, 123		2, 878, 595		2			



**!Class 40—Con.**

28. 3: 2,867,049	127: 2,871,596	10: 2,886,912	25: 2,869,268	17: 2,876,579	42.36: 2,892,281	61: 2,885,820
2,871,593	2,871,597	2,887,805	2,870,562	2,887,813	2,896,357	2,916,847
2,874,496	2,887,801	2,889,649	2,873,546	2,893,156	42.38: 2,884,733	63: 2,867,938
2,890,535	2,911,746	2,892,278	2,912,779	2,897,622	42.39: 2,886,914	65: 2,897,627
31: 2,901,847	129: 2,869,262	2,894,345	43: 2,908,098	2,901,855	42.41: 2,913,849	70: 2,881,553
32: 2,867,050	2,888,763	2,896,352	44: 2,876,576	2,908,100	42.44: 2,877,592	76: 2,891,346
2,876,567	2,916,838	2,904,917	50: 2,885,811	2,909,860	42.46: 2,871,610	77: 2,869,280
2,885,805	130: 2,871,598	2,907,130	2,895,248	2,910,797	2,906,052	83.5: 2,867,939
2,886,908	2,880,536	2,910,794	2,903,809	2,914,879	42.48: 2,909,864	87: 2,894,352
2,904,913	2,882,631	2,917,856	2,910,795	2,917,858	42.5: 2,891,344	88: 2,877,596
2,906,046	2,886,911	13: 2,879,617	54: 2,887,809	17.1: 2,913,846	2,892,280	2,894,353
2,911,744	2,887,802	2,881,545	2,897,621	17.2: 2,879,618	2,895,252	89: 2,897,628
36: 2,876,568	2,887,803	2,901,852	57: 2,899,766	2,887,814	42.51: 2,906,053	92: 2,871,613
2,907,128	2,890,538	2,908,095	58: 2,912,780	2,889,655	2,907,132	96: 2,918,748
2,909,856	2,894,344	15: 2,889,650	59: 2,889,654	2,893,157	42.52: 2,908,104	101: 2,894,354
37: 2,872,749	2,895,245	2,893,149	65: 2,875,545	2,895,250	42.72: 2,892,282	102: 2,906,993
2,890,536	2,910,792	2,911,748	69: 2,871,604	2,906,050	2,896,358	2,918,749
2,890,537	2,915,843	2,916,843	2,874,502	2,909,861	2,901,856	105: 2,901,859
2,870,557	2,917,853	19: 2,875,543	2,894,346	2,914,880	42.74: 2,877,593	2,910,801
2,896,349	2,871,599	21: 2,887,806	2,902,788	2,915,845	2,877,594	2,911,755
52: 2,875,537	132: 2,877,584	22: 2,880,541	70: 2,867,939	17.5: 2,898,698	2,908,989	111: 2,873,551
2,897,617	2,891,338	2,880,542	2,969,269	2,908,101	43.1: 2,874,508	112: 2,897,629
53: 2,878,603	2,893,148	2,908,096	2,871,605	17.6: 2,897,623	2,884,734	2,912,787
61: 2,902,784	2,915,844	23: 2,876,574	2,871,606	19: 2,874,507	2,897,625	2,917,863
63: 2,871,594	133: 2,875,539	24: 2,889,651	2,874,503	2,902,789	2,907,133	113: 2,879,620
2,884,723	134: 2,878,606	2,890,540	2,882,636	2,908,102	43.11: 2,887,816	2,883,790
2,892,274	2,879,614	2,890,541	2,893,152	19: 2,873,547	2,888,723	114: 2,911,756
2,895,242	135: 2,882,632	2,893,150	2,914,877	2,875,548	2,904,922	121: 2,907,136
2,905,047	137: 2,876,570	25: 2,891,339	2,901,854	2,885,815	2,909,865	124: 2,899,771
2,913,841	2,917,854	2,899,765	2,903,810	19.2: 2,908,103	2,911,754	2,900,756
64: 2,888,762	138: 2,912,778	2,899,765	2,862,637	20: 2,882,637	2,915,847	2,906,056
65: 2,884,724	139: 2,870,559	2,876,575	2,867,931	21: 2,904,920	2,904,920	2,915,848
68: 2,899,762	140: 2,867,926	2,877,588	2,887,810	21.2: 2,899,769	43.12: 2,884,735	125: 2,918,750
2,903,806	2,875,541	2,877,589	2,893,153	22: 2,885,816	2,907,134	129: 2,869,281
70: 2,877,579	2,892,277	34: 2,874,500	2,894,347	2,911,750	2,891,345	131: 2,893,160
2,889,644	2,912,777	2,881,546	2,899,767	23: 2,914,881	2,901,857	2,896,361
2,912,776	142: 2,880,537	2,888,767	2,912,781	24: 2,872,751	2,914,884	2,896,362
77: 2,884,725	143: 2,876,571	2,891,340	2,869,270	2,878,608	43.15: 2,881,549	2,912,788
2,909,857	2,916,839	2,893,151	2,869,271	2,878,609	43.16: 2,896,359	137: 2,881,554
78: 2,867,051	144: 2,902,796	2,897,620	2,874,504	2,880,546	43.2: 2,874,509	2,901,347
2,869,290	145: 2,895,246	2,904,918	2,898,694	2,893,158	2,888,722	2,902,793
2,904,914	152: 2,871,600	35: 2,867,053	2,869,272	2,895,251	2,911,753	139: 2,893,161
79: 2,874,497	2,874,498	41: 2,887,366	2,869,272	2,914,882	2,917,860	145: 2,909,866
2,877,580	2,888,764	42: 2,867,514	2,883,782	2,869,276	43.4: 2,892,283	148: 2,870,565
2,878,604	2,889,645	2,869,267	2,888,769	2,885,817	44.2: 2,871,611	2,881,555
2,893,146	2,890,539	2,871,110	2,894,348	26: 2,869,277	2,875,550	2,892,286
2,915,840	2,895,247	2,871,111	2,894,349	2,872,790	2,878,613	2,908,994
86: 2,894,343	2,901,850	2,872,301	2,900,752	26.1: 2,882,638	2,882,639	
96: 2,904,915	2,908,986	2,872,302	2,885,812	26.2: 2,884,730	2,896,360	
102: 2,914,870	2,916,840	2,872,303	2,887,811	2,891,343	2,900,754	
2,915,841	2,917,855	2,881,059	2,894,350	2,917,859	44.4: 2,916,846	
2,915,842	152.1: 2,875,542	2,882,135	2,896,353	27.2: 2,912,782	44.6: 2,881,550	
104: 2,885,806	2,877,585	2,882,135		35: 2,871,608	2,894,351	
2,897,618	2,887,804	2,884,312		2,884,731	2,895,254	
106.1: 2,882,628	2,900,750	2,886,420		2,896,355	2,898,701	
2,908,094	152.2: 2,902,787	2,890,943		2,906,051	2,900,755	
2,913,842	2,906,048	2,890,944		36: 2,880,549	44.81: 2,874,510	
106.22: 2,885,807	2,916,841	2,891,848		37: 2,873,548	44.82: 2,908,990	
2,911,745	155: 2,869,263	2,897,066		2,889,656	44.83: 2,871,612	
2,917,852	156: 2,881,544	2,901,334		2,900,753	44.85: 2,893,159	
106.25: 2,886,909	2,882,633	2,903,345		41: 2,870,563	44.87: 2,874,511	
2,897,619	2,884,727	2,904,414		41.2: 2,888,771	2,880,547	
106.31: 2,875,538	2,867,927	2,904,414		2,910,798	2,902,792	
106.41: 2,884,726	2,871,601	2,908,557		2,914,883	44.88: 2,895,255	
106.45: 2,909,858	2,876,572	2,916,363		42: 2,887,815	2,908,991	
106.53: 2,918,743	2,878,607	2,918,357		42.02: 2,867,933	44.89: 2,904,924	
107: 2,914,871	2,879,615	43: 2,871,112		2,910,799	44.9: 2,872,752	
108: 2,874,711	2,896,351	2,879,147		42.04: 2,915,846	2,881,551	
110: 2,871,595	2,903,808	2,883,275		42.05: 2,912,783	44.91: 2,881,552	
112: 2,886,910	2,889,646	2,884,313		42.06: 2,869,279	2,888,774	
114: 2,876,569	2,889,647	2,885,273		2,871,609	44.95: 2,867,936	
2,900,749	160: 2,873,545	2,887,367		2,876,580	2,875,551	
2,903,807	202: 2,916,842	2,888,335		2,878,611	2,876,581	
2,916,837	209: 2,910,793	2,888,336		2,885,818	2,876,582	
116: 2,901,848		2,891,849		2,889,657	2,908,992	
119: 2,877,581		2,895,814		2,908,988	44.96: 2,917,861	
120: 2,902,785		2,905,539		2,910,800	44.99: 2,906,055	
122: 2,892,275		2,910,351		2,911,751	53.5: 2,867,937	
124: 2,878,605	1: 2,874,499	2,912,312		2,913,847	2,870,564	
2,913,843	2,877,586	2,918,358		42.08: 2,869,278	2,887,817	
2,914,872	2,880,538	2,919,179		42.09: 2,883,785	2,892,284	
124.1: 2,880,534	2,880,539			2,898,699	2,892,285	
2,882,629	2,889,648			42.15: 2,895,253	2,897,626	
2,891,336	2,904,916			42.16: 2,913,848	2,915,847	
2,892,276	2,907,129			42.17: 2,902,791	54.5: 2,889,658	
125: 2,869,261	2,914,875			42.19: 2,886,913	2,917,862	
2,872,750	2: 2,901,851			42.22: 2,873,549	2,867,055	
2,877,582	4: 2,867,928			2,875,549	2,883,788	
2,877,583	2,911,747			2,885,819	2,885,819	
2,880,535	2,914,876			2,903,814	2,907,135	
2,881,543	5: 2,588,766			2,907,131	2,908,105	
2,882,630	7: 2,885,809			42.25: 2,899,862	56: 2,877,595	
2,885,808	9: 2,867,929			42.28: 2,896,356	2,912,785	
2,891,337	2,870,560			2,911,752	57: 2,873,550	
2,893,147	2,876,573			42.31: 2,878,612	2,883,789	
2,895,243	2,879,616			2,881,548	57.5: 2,879,619	
2,899,763	2,884,728			2,909,863	2,899,770	
2,899,764	2,885,810			42.32: 2,904,922	2,901,858	
2,901,849	10: 2,867,052			42.33: 2,884,732	2,904,925	
2,914,873	2,869,264			42.35: 2,867,934	2,913,850	
2,914,874	2,871,602			2,867,935	59: 2,912,786	
126: 2,870,558	2,877,587					
2,895,244	2,880,540					

**Class 44**

6: 2,916,364	10: 2,869,992
7: 2,913,178	16: 2,907,645
2,881,060	17: 2,876,084
2,902,351	25: 2,890,945
35: 2,902,352	41: 2,916,365
50: 2,913,319	53: 2,884,314
55: 2,883,276	58: 2,878,109
56: 2,874,033	59: 2,873,179
2,884,315	62: 2,892,690
2,897,067	63: 2,867,515
2,897,068	2,888,337
2,916,366	2,888,338
2,918,359	2,897,070
57: 2,877,102	2,907,646
2,905,540	2,915,376
2,912,313	2,917,376
58: 2,878,109	66: 2,868,628
2,914,390	2,883,277
59: 2,873,179	2,904,415
62: 2,892,690	68: 2,890,946
2,917,375	2,895,815
63: 2,867,515	2,910,352
2,888,337	2,911,292
2,888,338	2,867,939
2,897,070	2,881,061
2,907,646	2,899,770
2,915,376	2,901,859
2,917,376	2,897,071
66: 2,868,628	2,899,771
2,883,277	2,901,335
2,904,415	2,901,336
68: 2,890,946	
2,895,815	
2,910,352	
2,911,292	
2,869,993	
2,881,062	
2,887,368	
2,889,212	
2,890,947	
2,892,691	
2,897,072	
2,901,335	
2,901,336	



69: 2, 918, 360	43: 2, 895, 257	242: 2, 910, 804	60: P. P. 1,842	195: 2, 869, 994	80: 2, 918, 756	96: 2, 901, 869
70: 2, 875, 029	2, 917, 864	243: 2, 914, 887	P. P. 1,843	2, 872, 304	81: 2, 867, 947	98: 2, 898, 708
71: 2, 885, 274	44: 2, 903, 817	244: 2, 892, 290	P. P. 1,845	196: 2, 892, 693	2, 876, 596	99: 2, 873, 558
2, 902, 353	47: 2, 877, 597	2, 903, 822	P. P. 1,851	2, 909, 416	2, 878, 623	100: 2, 891, 358
72: 2, 872, 303	49: 2, 875, 553	245: 2, 901, 863	P. P. 1,852	197: 2, 867, 516	2, 882, 648	101: 2, 883, 800
2, 891, 850	52: 2, 896, 368	2, 906, 059	P. P. 1,854	2, 913, 321	2, 885, 826	2, 906, 065
2, 894, 828	53: 2, 907, 138	247: 2, 909, 001	P. P. 1,855	2, 878, 110	2, 903, 826	2, 898, 709
2, 902, 354	55: 2, 908, 996		P. P. 1,866	203: 2, 898, 204	2, 867, 948	102: 2, 909, 011
2, 904, 416	61: 2, 888, 776		P. P. 1,874	206: 2, 868, 631	2, 894, 359	2, 915, 854
2, 905, 541			P. P. 1,875	2, 871, 114	2, 918, 757	103: 2, 872, 757
2, 905, 542	64: 2, 891, 351		P. P. 1,876	2, 879, 148	82. 1: 2, 885, 827	2, 874, 518
2, 906, 611	66: 2, 879, 623		P. P. 1,877	2, 886, 421	2, 885, 828	2, 882, 649
2, 912, 314	2, 908, 108		P. P. 1,878	2, 890, 107	2, 885, 829	2, 887, 829
2, 917, 377	69: 2, 892, 287		P. P. 1,880	2, 905, 544	84: 2, 860, 287	2, 889, 665
74: 2, 887, 369	74: 2, 899, 773		P. P. 1,881	2, 911, 293	2, 871, 623	2, 896, 377
2, 918, 361	2, 918, 751		P. P. 1,889	2, 914, 391	2, 876, 597	2, 897, 636
75: 2, 882, 136	76: 2, 870, 567		P. P. 1,890	211: 2, 893, 853	2, 901, 866	2, 904, 936
2, 903, 346	2, 870, 568		P. P. 1,792	212: 2, 904, 417	86: 2, 873, 556	2, 911, 763
2, 908, 558	2, 896, 369		P. P. 1,794	213: 2, 882, 138	87: 2, 885, 799	2, 912, 798
76: 2, 889, 213	2, 917, 865		P. P. 1,796	214: 2, 868, 632	89: 2, 871, 624	2, 913, 854
78: 2, 891, 851	78: 2, 875, 554		P. P. 1,797	2, 907, 647	2, 895, 260	2, 915, 855
	79: 2, 867, 941		P. P. 1,799	2, 912, 315	92. 5: 2, 888, 783	105: Re. 24, 744
	2, 876, 585		P. P. 1,803	215: 2, 885, 275	2, 912, 794	2, 867, 058
	2, 896, 370		P. P. 1,804	219: 2, 907, 643		2, 876, 599
	81: 2, 870, 569		P. P. 1,807			2, 899, 778
	83: 2, 887, 319		P. P. 1,808			106: 2, 911, 764
	86: 2, 870, 570		P. P. 1,809			110: 2, 883, 801
	2, 878, 615		P. P. 1,810			112: 2, 867, 059
	88: 2, 882, 645		P. P. 1,812			2, 882, 650
	2, 893, 165		P. P. 1,813			118: 2, 871, 625
	2, 912, 791		P. P. 1,814			2, 882, 651
	89: 2, 916, 849		P. P. 1,821			2, 899, 779
	2, 879, 622		P. P. 1,825			119: 2, 875, 557
	2, 883, 791		P. P. 1,828			2, 909, 871
	2, 886, 916		P. P. 1,829			122: 2, 869, 292
	2, 886, 917		P. P. 1,830			123: 2, 911, 765
	2, 891, 348		P. P. 1,833			124: 2, 871, 626
	2, 896, 363		P. P. 1,834			2, 880, 556
	2, 900, 757		P. P. 1,836			2, 885, 832
	2, 908, 106		P. P. 1,837			2, 915, 856
	2, 908, 995		P. P. 1,840			2, 916, 856
	2, 911, 757		P. P. 1,846			2, 916, 857
	57: 2, 883, 792		P. P. 1,847			125: 2, 883, 802
	60: 2, 882, 641		P. P. 1,849			127: 2, 871, 627
	2, 910, 802		P. P. 1,850			2, 916, 858
	62: 2, 901, 860		P. P. 1,853			128: 2, 897, 637
	68. 2: 2, 869, 282		P. P. 1,856			129: 2, 867, 060
	2, 891, 349		P. P. 1,857			2, 889, 666
	68. 3: 2, 901, 861		P. P. 1,858			131: 2, 870, 580
	2, 893, 163		P. P. 1,859			2, 875, 558
	80: 2, 916, 848		P. P. 1,860			2, 883, 803
	81: 2, 891, 350		P. P. 1,862			2, 895, 261
	82: 2, 896, 364		P. P. 1,863			2, 912, 799
	89: 2, 876, 583		P. P. 1,864			134: 2, 880, 557
	2, 882, 642		P. P. 1,865			135: 2, 873, 559
	121: 2, 873, 552		P. P. 1,871			137: 2, 895, 262
	2, 896, 365		P. P. 1,873			2, 901, 870
	2, 915, 849		P. P. 1,879			139: 2, 876, 600
	131: 2, 894, 355		P. P. 1,885			2, 895, 263
	2, 896, 366		P. P. 1,886			2, 883, 804
	2, 898, 702		P. P. 1,887			141: 2, 904, 937
	2, 899, 772		P. P. 1,888			2, 910, 809
	2, 904, 926		P. P. 1,892			142: 2, 890, 549
	137: 2, 875, 552		P. P. 1,795			143: 2, 891, 359
	2, 885, 821		P. P. 1,805			145: 2, 896, 378
	2, 886, 918		P. P. 1,806			2, 901, 871
	2, 888, 775		P. P. 1,811			148: 2, 900, 766
	2, 890, 544		P. P. 1,815			153: 2, 871, 628
	2, 893, 164		P. P. 1,818			157: 2, 898, 710
	2, 902, 794		P. P. 1,822			163: 2, 909, 012
	2, 910, 803		P. P. 1,827			164: 2, 881, 571
	2, 915, 850		P. P. 1,831			2, 898, 711
	138: 2, 903, 815		P. P. 1,833			2, 909, 872
	2, 908, 107		P. P. 1,839			2, 912, 800
	139: 2, 871, 616		P. P. 1,848			165: 2, 871, 629
	2, 890, 545		P. P. 1,861			2, 873, 560
			P. P. 1,867			2, 894, 360
			P. P. 1,868			2, 895, 264
			P. P. 1,869			2, 895, 265
			P. P. 1,870			2, 897, 638
			P. P. 1,872			2, 897, 639
			P. P. 1,882			2, 900, 767
			P. P. 1,883			2, 906, 066
			P. P. 1,884			2, 909, 873
						2, 911, 766
						2, 911, 761
						2, 912, 797
						2, 897, 635
						86: 2, 887, 828
						87: 2, 881, 570
						2, 911, 762
						2, 918, 759
						2, 909, 009
						2, 870, 573
						2, 909, 010
						2, 885, 831
						92: 2, 917, 874
						94: 2, 870, 579
						95: 2, 893, 173
						2, 898, 707
						2, 890, 553
						2, 897, 632



Class 51—Con.											
170:	2,893,174	250:	2,895,268	7:	2,897,642	59:	2,895,275	178:	2,917,883	370:	2,875,567
	2,893,175	263:	2,911,772		2,900,771		2,896,384		2,918,768	371:	2,870,591
	2,893,176		2,912,802	9:	2,899,670		2,897,643		2,918,769		2,877,615
	2,893,177	266:	2,915,859	13:	2,875,561		2,899,783	180:	2,870,587	373:	2,913,863
	2,898,712		2,869,294		2,910,814		2,906,070		2,871,639	374:	2,876,607
	2,906,067	267:	2,899,781	14:	2,892,293		2,907,154		2,883,813		2,891,367
	2,918,761		2,910,811		2,899,782		2,914,895		2,885,848		2,902,810
173:	2,897,640		2,914,892		2,913,860	61:	2,879,637		2,893,187	375:	2,910,815
177:	2,913,855	270:	2,876,627		2,917,876		2,890,553		2,902,808	376:	2,899,791
180:	2,895,266	272:	2,867,064		2,917,877		2,899,784		2,909,877	377:	2,909,880
184.1:	2,911,768	281:	2,883,809	20:	2,872,760		2,904,946		2,916,864	378:	2,874,527
184.4:	2,890,550		2,885,838	21:	2,895,269		2,898,716	182:	2,878,630		2,885,852
185:	2,879,631		2,893,180		2,895,270		2,900,773		2,882,662		2,911,779
	2,886,923		2,907,151		2,895,271		2,899,299		2,894,362	379:	2,883,819
	2,888,785		2,912,803		2,908,122		2,885,844	183:	2,909,878		2,916,865
	2,899,780	282:	2,876,601		2,916,859		2,907,155	184:	2,886,931	380:	2,893,190
186:	2,887,831		2,893,181	22:	2,874,523		2,911,776	186:	2,892,297		2,904,946
	2,889,667		2,910,812		2,875,562		2,906,072	187:	2,899,786	381:	2,900,779
	2,911,769	283:	2,910,813		2,881,573		2,895,517		2,918,771		2,915,868
187:	2,871,630		2,911,773		2,885,840	70:	2,875,564	189:	2,907,160	382:	2,871,648
	2,878,625	284:	2,890,551		2,888,787		2,900,017		2,900,776		2,871,641
	2,904,939	288:	2,886,926		2,888,787	71:	2,895,517	196:	2,884,750		2,890,560
	2,914,889		2,889,669		2,893,182	74:	2,882,659	197:	2,870,588		2,918,773
188:	2,867,061	289:	2,869,295		2,917,878		2,918,766		2,870,589	383:	2,890,559
	2,918,762	291:	2,913,859		2,917,878		2,899,874	198:	2,867,066	384:	2,902,811
190:	2,892,292	293:	2,882,139	24:	2,869,296		2,909,874		2,867,067	385:	2,902,812
191:	2,874,519		2,899,288		2,872,761		2,912,806		2,872,767	387:	2,876,608
	2,881,572	295:	2,881,064		2,882,658		2,912,806		2,877,613		2,913,864
192:	2,870,582		2,904,419		2,884,748		2,917,879		2,881,577	389:	2,880,560
193:	2,867,062	296:	2,876,085		2,918,764		2,877,611		2,882,663	390:	2,909,020
	2,871,631	297:	2,880,080	25:	2,879,634		2,888,790		2,885,849	392:	2,917,888
	2,882,653	298:	2,873,181		2,888,789		2,893,185		2,893,188		2,881,579
	2,882,654		2,874,034		2,904,942		2,898,189		2,898,719		2,901,877
	2,885,834		2,876,086	26:	2,869,297		2,881,576		2,903,830		2,903,836
	2,886,924		2,877,103		2,871,637		2,885,841	110:	2,869,301		2,882,669
	2,908,116		2,877,103		2,886,927		2,891,361	111:	2,887,835		2,899,794
193.5:	2,871,632		2,878,111		2,886,927		2,891,361	112:	2,885,845	83:	2,907,161
	2,907,145		2,881,065		2,886,927		2,891,361		2,886,928		2,867,961
	2,908,117		2,885,276	27:	2,911,774		2,888,792		2,888,792	200:	2,872,768
	2,913,857		2,890,948	28:	2,872,762		2,889,673		2,889,673	201:	2,883,814
194:	2,885,835		2,893,854		2,877,609		2,889,674	206:	2,917,885		2,917,885
	2,895,267		2,897,074		2,889,671		2,892,294		2,917,886		2,917,886
	2,897,954		2,901,337		2,901,872		2,896,385	209:	2,898,720		2,898,720
195:	2,907,146		2,909,417		2,902,802		2,908,124	212:	2,882,664		2,882,664
	2,907,147		2,919,180		2,902,802		2,915,862	220:	2,889,675		2,889,675
197:	2,883,805	304:	2,889,215		2,903,829		2,917,880	223:	2,900,777		2,900,777
	2,900,768		2,897,075		2,913,861		2,918,767		2,901,874		2,901,874
	2,902,799		2,899,289	29:	2,872,763	113:	2,896,386	228:	2,890,555		2,890,555
	2,906,068		2,899,290		2,873,566		2,912,807		2,894,363		2,894,363
204:	2,903,828		2,907,649		2,873,566		2,915,863		2,911,777		2,911,777
206:	2,875,559	307:	2,897,076		2,874,524		2,915,864		2,918,772		2,918,772
	2,907,148		2,916,368		2,876,602		2,915,864		2,915,867	230:	2,915,867
	2,910,810	308:	2,877,104		2,881,574		2,915,867		2,917,887		2,917,887
	2,913,858		2,877,105		2,893,183		2,915,867		2,917,887	233:	2,882,665
207:	2,871,633		2,880,081		2,901,873		2,915,865		2,917,887	235:	2,875,565
209:	2,867,063	309:	2,895,816		2,903,123		2,891,364		2,897,955	239:	2,867,955
	2,882,655		2,906,612		2,915,860		2,892,295		2,883,815	240:	2,867,955
	2,883,807				2,878,628		2,892,295		2,897,614	243:	2,878,631
213:	2,904,940				2,890,552		2,895,846		2,878,631	244:	2,876,004
214:	2,885,836				2,898,714		2,891,365		2,876,004		2,883,816
	2,893,178				2,914,893		2,893,186		2,889,676		2,889,676
	2,900,769				2,871,638		2,899,785		2,889,676		2,889,676
215:	2,884,747				2,887,834		2,904,945		2,889,721		2,889,721
	2,896,379				2,889,672		2,907,155		2,899,787		2,899,787
	2,909,015				2,904,943		2,907,157	247:	2,897,644		2,897,644
	2,914,890				2,906,069		2,909,018		2,898,722		2,898,722
217:	2,882,656				2,885,842		2,915,866	250:	2,870,590		2,870,590
	2,898,713				2,915,861		2,917,881	251:	2,883,793		2,883,793
218:	2,883,808				2,892,694	126:	2,890,554		2,890,556		2,890,556
	2,887,833				2,894,830		2,900,774	255:	2,869,302		2,869,302
219:	2,874,520				2,904,420		2,902,805	256:	2,882,666		2,882,666
	2,902,800				2,906,613		2,906,073	258:	2,885,850		2,885,850
	2,907,149				2,917,378		2,907,158		2,887,837		2,887,837
	2,907,150				2,896,381	131:	2,898,717	261:	2,895,276		2,895,276
	2,911,770	1:	2,872,305		2,902,803	133:	2,887,836		2,901,875		2,901,875
	2,911,771		2,879,149		2,911,775	134:	2,892,296	262:	2,899,788		2,899,788
	2,915,858		2,886,424		2,912,805		2,912,808	266:	2,888,794		2,888,794
	2,915,858	2:	2,867,517		2,877,610	135:	2,882,660	268:	2,874,525		2,874,525
220:	2,873,562		2,867,518	38:	2,914,894		2,916,863	281:	2,890,557		2,890,557
	2,888,786		2,892,695		2,916,860		2,885,847		2,899,789		2,899,789
	2,902,801		2,908,559		2,907,152		2,912,809	285:	2,886,932		2,886,932
	2,912,801		2,909,418		2,872,764		2,884,749	292:	2,890,558		2,890,558
221:	2,893,179	4:	2,887,370		2,896,382		2,872,766	296:	2,867,956		2,867,956
232:	2,871,634		2,918,362		2,900,772		2,906,074		2,867,957		2,867,957
	2,875,560	11:	2,902,355		2,918,765		2,896,387	310:	2,914,901		2,914,901
235:	2,877,607	14:	2,900,242		2,898,798		2,914,898	314:	2,874,526		2,874,526
	2,908,118		2,908,560		2,878,629		2,908,125	315:	2,876,605		2,876,605
236:	2,889,668	20:	2,917,379		2,896,383		2,880,559	317:	2,876,606		2,876,606
237:	2,879,632	21:	2,889,216		2,883,810		2,907,159		2,884,751		2,884,751
	2,900,770	22:	2,919,181		2,885,843	157:	2,902,806	320:	2,903,832		2,903,832
240:	2,886,925	24:	2,899,291		2,913,862	159:	2,899,876	321:	2,899,790		2,899,790
241:	2,869,293				2,879,636		2,917,882	329:	2,902,809		2,902,809
	2,871,635				2,913,862		2,900,775	330:	2,878,632		2,878,632
	2,871,636	3:	2,873,564		2,870,583		2,914,899	331:	2,869,303		2,869,303
	2,877,608		2,874,521		2,907,154		2,914,900	331.5:	2,909,879		2,909,879
	2,878,626		2,882,657		2,916,862		2,883,812	334:	2,875,566		2,875,566
	2,908,119		2,885,839	59:	2,870,585		2,886,929		2,883,817		2,883,817
	2,908,120		2,896,207		2,876,603		2,879,638	341:	2,886,933		2,886,933
	2,914,891		2,896,380		2,881,575		2,867,065	343:	2,883,818		2,883,818
242:	2,885,837		2,897,641		2,891,363		2,882,661	357:	2,885,851		2,885,851
247:	2,879,633		2,908,121		2,895,274		2,902,807	361:	2,891,366		2,891,366



364: 2, 872, 772 2, 880, 564 2, 881, 580 2, 896, 391 370: 2, 892, 299 2, 899, 795 372: 2, 916, 869 377: Re. 24, 676 2, 867, 071 2, 867, 072 2, 867, 073 2, 867, 965 2, 872, 773 2, 876, 613 2, 889, 678 2, 892, 300 2, 895, 855 2, 896, 392 2, 901, 880 2, 904, 956 2, 906, 084 2, 908, 129 2, 908, 130 2, 909, 023 2, 909, 888 384: 2, 867, 966 400: 2, 874, 529 2, 909, 024 2, 909, 889 400.01: 2, 886, 937 400.04: 2, 908, 131 400.1: 2, 874, 530 400.12: 2, 891, 374 400.16: 2, 900, 781 400.17: 2, 883, 820 400.18: 2, 904, 951 400.19: 2, 902, 815 473.5: 2, 902, 816 474: 2, 886, 938 505: 2, 906, 085	58.72: 2, 873, 570 58.83: 2, 867, 969 2, 870, 596 2, 880, 567 2, 888, 728 58.84: 2, 869, 315 58.95: 2, 911, 783 60: 2, 887, 841 2, 897, 047 61: 2, 881, 584 2, 887, 840 65: 2, 903, 842 66: 2, 882, 674 2, 912, 815 67: 2, 896, 394 75: 2, 882, 675 2, 887, 842 2, 907, 165 77: 2, 871, 649 2, 895, 284 77.3: 2, 893, 198 77.4: 2, 908, 133 77.45: 2, 872, 769 2, 883, 824 2, 906, 057 2, 914, 905 81: 2, 876, 615 87: 2, 886, 941 88: 2, 879, 639 2, 892, 302 89: 2, 890, 564 90: 2, 871, 650 91: 2, 876, 616 2, 881, 585 93: 2, 869, 316 95: 2, 898, 729 96: 2, 870, 597 98: 2, 901, 882 2, 901, 883 2, 918, 779 102: 2, 875, 573 2, 896, 395 104: 2, 896, 396 105: 2, 869, 317 106: 2, 867, 075 2, 890, 565 107: 2, 910, 824 115: 2, 867, 970 2, 878, 637 116: 2, 875, 572 117: 2, 873, 571 119: 2, 889, 679 120: 2, 867, 076 2, 871, 651 125: 2, 918, 780 129: 2, 872, 774 2, 890, 566 130: 2, 909, 027 2, 913, 868 2, 918, 781 2, 918, 782 132: 2, 883, 825 2, 894, 365 2, 902, 818 138: 2, 882, 676 140: 2, 869, 967 2, 880, 568 2, 890, 567 2, 895, 285 2, 898, 134 2, 899, 028 2, 911, 784 2, 917, 891 144: 2, 901, 884 2, 918, 783 145: 2, 912, 816 148: 2, 900, 784 149: 2, 894, 366 152: 2, 902, 819 153: 2, 900, 785 154: 2, 896, 397 2, 882, 677 2, 895, 286 157: 2, 867, 077 2, 869, 318 2, 869, 319 2, 881, 586 2, 887, 843 2, 890, 568 2, 891, 376 2, 904, 952 2, 904, 953 2, 904, 954 2, 914, 906 160: 2, 903, 843 163: 2, 902, 820 164: 2, 883, 826 2, 895, 287 2, 895, 288 165: 2, 884, 757 167: 2, 871, 652 2, 918, 784	<b>Class 58</b> 1: 2, 885, 854 21.13: 2, 917, 892 23: 2, 874, 531 2, 890, 786 26: 2, 897, 648 2, 909, 891 28: 2, 883, 827 2, 888, 797 2, 891, 377 2, 894, 367 2, 909, 892 2, 912, 817 34: 2, 880, 569 2, 889, 680 2, 900, 787 38: 2, 915, 872 41: 2, 873, 572 2, 909, 029 43: 2, 910, 825 44: 2, 907, 166 46: 2, 876, 617 2, 903, 844 2, 903, 845 50: 2, 916, 871 57.5: 2, 873, 573 59: 2, 872, 775 2, 898, 730 2, 903, 846 67: 2, 872, 776 68: 2, 892, 303 80: 2, 917, 653 2, 892, 304 2, 914, 907 82: 2, 867, 078 2, 867, 971 2, 874, 532 88: 2, 912, 818 90: 2, 867, 079 2, 871, 654 2, 872, 777 2, 875, 574 2, 909, 893 2, 912, 819 2, 913, 869 107: 2, 880, 570 113: 2, 896, 399 116: 2, 907, 167 121: 2, 907, 168 125: 2, 915, 873 126: 2, 886, 942 2, 915, 874 127: 2, 891, 378 140: 2, 876, 618 2, 878, 638 2, 886, 943 2, 891, 379	<b>Class 59</b> 2: 2, 909, 030 7: 2, 895, 289 2, 904, 955 2, 917, 893 30: 2, 893, 199 35: 2, 893, 200 79: 2, 878, 639 2, 918, 785 80: 2, 870, 598 2, 893, 201 2, 902, 821 82: 2, 871, 655 2, 889, 681 88: 2, 877, 621 90: 2, 895, 290 93: 2, 878, 640	<b>Class 60</b> 1: 2, 914, 908 6: 2, 891, 380 2, 918, 786 7: 2, 904, 956 10: 2, 878, 641 12: 2, 872, 778 2, 878, 642 2, 911, 785 2, 911, 786 2, 914, 909 13: 2, 867, 080 2, 873, 574 2, 875, 575 2, 877, 622 2, 879, 640 2, 880, 571 2, 888, 798 2, 889, 799 2, 889, 682 2, 895, 291 2, 898, 731 2, 899, 797 2, 901, 885 2, 903, 847	13: 2, 910, 826 2, 918, 787 14: 2, 903, 848 16: 2, 918, 788 17: 2, 906, 088 19: 2, 874, 533 2, 880, 572 2, 886, 944 2, 903, 849 2, 904, 957 23: 2, 879, 641 2, 882, 678 24: 2, 867, 973 2, 872, 779 2, 885, 855 2, 894, 368 2, 907, 169 25: 2, 867, 974 27: 2, 867, 975 29: 2, 873, 575 2, 886, 945 2, 895, 292 2, 910, 827 2, 913, 870 30: Re. 24, 717 2, 904, 958 2, 913, 871 2, 918, 789 31: 2, 874, 534 2, 872, 783 2, 909, 031 32: 2, 888, 800 35.4: 2, 867, 081 2, 869, 320 2, 874, 535 2, 892, 305 2, 893, 202 2, 893, 203 2, 896, 401 2, 896, 402 2, 896, 403 2, 896, 404 2, 896, 405 2, 896, 406 2, 898, 732 2, 898, 733 2, 898, 734 2, 898, 735 2, 900, 788 2, 901, 886 2, 914, 910 2, 915, 875 35.54: 2, 871, 656 2, 874, 538 2, 875, 578 2, 876, 619 2, 880, 575 2, 886, 946 2, 903, 851 2, 914, 916 2, 916, 873 35.55: Re. 24, 703 35.6: 2, 867, 082 2, 867, 083 2, 867, 977 2, 867, 978 2, 867, 979 2, 870, 599 2, 870, 600 2, 870, 601 2, 870, 602 2, 870, 603 2, 871, 657 2, 871, 658 2, 872, 780 2, 872, 781 2, 873, 576 2, 874, 536 2, 874, 537 2, 875, 577 2, 875, 578 2, 876, 620 2, 876, 621 2, 877, 623 2, 878, 643 2, 879, 642 2, 880, 573 2, 880, 574 2, 880, 576 2, 882, 679 2, 883, 828 2, 883, 829 2, 887, 844 2, 891, 381 2, 892, 306 2, 892, 307 2, 892, 308 2, 896, 408 2, 899, 798 2, 900, 789 2, 902, 822 2, 902, 823 2, 903, 850	35.6: 2, 906, 089 2, 906, 090 2, 906, 091 2, 909, 032 2, 909, 894 2, 910, 828 2, 910, 829 2, 911, 787 2, 912, 820 2, 912, 821 2, 914, 911 2, 914, 912 2, 914, 913 2, 914, 914 2, 914, 915 2, 916, 872 2, 917, 894 2, 918, 790 2, 918, 791 39.02: 2, 874, 539 39.06: 2, 895, 293 39.07: 2, 914, 917 39.09: 2, 874, 540 2, 890, 569 2, 902, 824 2, 911, 788 2, 912, 822 39.14: 2, 872, 782 2, 872, 783 2, 873, 577 2, 880, 578 2, 881, 587 2, 888, 801 2, 892, 309 2, 907, 170 2, 913, 872 39.16: 2, 888, 802 2, 895, 294 2, 895, 295 2, 906, 092 2, 909, 895 2, 912, 823 2, 912, 824 2, 916, 874 39.17: 2, 914, 918 39.18: 2, 893, 204 2, 911, 789 39.24: 2, 906, 093 39.25: 2, 885, 856 39.28: 2, 867, 084 2, 899, 321 2, 869, 322 2, 917, 659 2, 872, 784 2, 873, 578 2, 874, 541 2, 879, 643 2, 880, 579 2, 880, 580 2, 880, 581 2, 882, 680 2, 885, 857 2, 909, 896 2, 911, 790 2, 916, 875 2, 916, 876 2, 918, 792 39.31: 2, 875, 579 2, 914, 919 39.35: 2, 890, 570 2, 914, 920 2, 915, 876 2, 917, 895 39.36: 2, 908, 135 39.37: 2, 867, 980 2, 898, 736 39.38: 2, 888, 803 39.45: 2, 867, 981 39.46: 2, 884, 758 2, 888, 804 39.47: 2, 906, 094 39.48: 2, 880, 582 39.51: 2, 895, 296 39.55: 2, 869, 323 2, 916, 877 39.57: 2, 878, 644 2, 889, 683 39.59: 2, 869, 324 39.61: 2, 896, 409 39.65: 2, 876, 622 2, 882, 681 3, 884, 759 2, 885, 858 2, 907, 171 2, 916, 878 39.66: 2, 891, 382 2, 918, 793 39.69: 2, 867, 982 2, 913, 873 2, 915, 877 39.71: 2, 867, 085 39.72: 2, 870, 604 2, 872, 785 2, 875, 580 2, 899, 799	39.72: 2, 908, 136 2, 911, 791 2, 912, 825 2, 913, 874 2, 914, 921 2, 918, 794 39.74: 2, 881, 588 2, 895, 297 39.77: 2, 900, 790 2, 910, 830 39.82: 2, 885, 859 2, 887, 845 2, 897, 649 2, 913, 875 51: 2, 867, 086 2, 877, 624 2, 886, 947 2, 887, 846 2, 892, 310 2, 908, 137 2, 909, 897 2, 914, 922 52: 2, 867, 087 2, 867, 976 2, 874, 542 2, 877, 625 2, 877, 626 2, 882, 682 2, 885, 860 2, 886, 948 2, 888, 805 2, 892, 311 2, 892, 312 2, 896, 410 2, 897, 650 2, 898, 737 2, 900, 791 2, 902, 825 2, 909, 898 2, 910, 831 2, 913, 876 2, 913, 877 2, 913, 878 2, 916, 879 2, 917, 896 2, 918, 795 53: 2, 869, 325 2, 871, 660 2, 876, 623 2, 888, 806 2, 896, 411 2, 902, 826 2, 903, 852 2, 903, 853 2, 904, 959 2, 909, 033 2, 916, 880 2, 917, 897 2, 917, 898 54: 2, 871, 661 2, 875, 581 2, 878, 645 2, 880, 583 2, 882, 683 2, 882, 684 2, 887, 847 2, 893, 205 2, 894, 369 2, 894, 370 2, 898, 738 2, 898, 739 2, 898, 740 2, 899, 034 2, 910, 832 2, 914, 921 2, 917, 899 54.5: 2, 867, 088 2, 867, 089 2, 869, 326 2, 870, 605 2, 871, 662 2, 876, 624 2, 876, 625 2, 876, 626 2, 879, 644 2, 882, 685 2, 882, 686 2, 883, 830 2, 883, 831 2, 886, 949 2, 892, 313 2, 893, 202 2, 896, 412 2, 902, 827 2, 902, 828 2, 903, 854 2, 906, 095 2, 909, 035 2, 915, 878 2, 918, 797 54.6: 2, 867, 090 2, 870, 606 2, 870, 607 2, 875, 582	54.6: 2, 875, 583 2, 876, 627 2, 878, 646 2, 878, 647 2, 879, 645 2, 880, 584 2, 886, 950 2, 887, 848 2, 893, 207 2, 902, 829 2, 903, 855 2, 904, 960 2, 908, 138 2, 909, 036 2, 916, 882 2, 916, 883 2, 916, 884 2, 917, 900 59: 2, 870, 608 2, 872, 786 2, 882, 687 2, 911, 792 60: 2, 867, 849 62.5: 2, 880, 585 2, 893, 208 67: 2, 883, 832 2, 900, 792 73: 2, 867, 983 2, 874, 543 2, 884, 760 2, 901, 887 2, 902, 830 2, 902, 831 2, 918, 798 97: 2, 867, 091 2, 869, 327 2, 871, 663 2, 872, 787 2, 873, 579 2, 874, 544 2, 877, 627 2, 913, 877 2, 880, 586 2, 916, 879 2, 917, 896 2, 918, 795 2, 918, 796 2, 869, 325 2, 871, 660 2, 876, 623 2, 888, 806 2, 896, 413 2, 897, 651 2, 897, 652 2, 897, 653 2, 901, 888 2, 904, 961 2, 906, 096 2, 906, 097 2, 906, 098 2, 906, 099 2, 911, 793 2, 912, 826 2, 912, 827 2, 913, 879 2, 916, 885 2, 918, 799 102: 2, 904, 962 107: 2, 900, 793	<b>Class 61</b> .5: 2, 869, 328 2, 879, 646 2, 880, 587 2, 883, 833 2, 884, 761 2, 893, 211 2, 901, 889 2, 914, 923 4: Re. 24, 632 2, 909, 037 11: 2, 893, 212 2, 898, 741 12: 2, 918, 800 20: 2, 886, 951 21: 2, 910, 833 25: 2, 871, 664 2, 904, 963 2, 909, 899 28: 2, 889, 684 35: 2, 882, 689 2, 911, 794 36: 2, 874, 545 2, 886, 952 38: 2, 876, 628 39: 2, 880, 588 2, 908, 139 41: 2, 908, 140 43: 2, 877, 628 45: 2, 895, 299 2, 899, 800 46: 2, 901, 890 2, 903, 856
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## Class 61—Con.

46. 5: 2, 870, 609  
2, 873, 580  
2, 873, 581  
2, 877, 629  
2, 878, 649  
2, 881, 590  
2, 881, 591  
2, 892, 314  
2, 895, 300  
2, 895, 301  
2, 900, 794  
2, 906, 100  
2, 907, 172  
2, 908, 141  
2, 908, 142  
2, 909, 900  
2, 909, 901  
2, 910, 834  
2, 913, 880  
48: 2, 892, 315  
2, 915, 879  
49: 2, 879, 647  
2, 895, 302  
50: 2, 875, 584  
52: 2, 912, 828  
53: 2, 874, 546  
2, 874, 547  
2, 897, 654  
2, 912, 829  
54: 2, 874, 548  
60: 2, 880, 589  
63: 2, 879, 648  
2, 885, 861  
64: 2, 917, 901  
72: 2, 871, 665  
2, 875, 585  
2, 879, 649  
2, 900, 795  
2, 910, 835  
73: 2, 867, 984  
2, 889, 685  
75: 2, 886, 953  
76: 2, 882, 690  
2, 885, 862  
2, 904, 964  
77: 2, 902, 832  
79: 2, 869, 329  
2, 871, 666  
2, 880, 590  
2, 881, 592  
2, 881, 593  
2, 911, 795  
80: 2, 871, 667  
84: 2, 895, 742

## Class 62

3: 2, 870, 610  
2, 872, 788  
2, 881, 594  
2, 884, 762  
2, 898, 743  
2, 903, 857  
2, 910, 836  
2, 913, 881  
4: 2, 882, 691  
2, 882, 692  
2, 893, 213  
2, 898, 744  
2, 907, 173  
2, 916, 886  
5: 2, 870, 611  
2, 873, 582  
2, 892, 316  
2, 893, 214  
2, 893, 215  
2, 894, 371  
2, 904, 965  
2, 907, 174  
6: 2, 872, 789  
2, 889, 686  
2, 897, 655  
2, 899, 381  
2, 906, 101  
2, 907, 175  
2, 909, 902  
7: 2, 872, 790  
2, 908, 143  
8: 2, 909, 903  
10: 2, 889, 687  
11: 2, 888, 807  
2, 896, 414  
2, 900, 796  
2, 903, 858  
12: 2, 875, 586  
2, 895, 303  
2, 900, 797  
13: 2, 881, 595  
2, 895, 304  
2, 904, 966  
2, 908, 144  
2, 915, 880  
2, 917, 902

14: 2, 873, 583  
2, 918, 801  
17: 2, 880, 591  
2, 887, 850  
2, 894, 372  
2, 909, 038  
2, 915, 881  
18: 2, 903, 859  
2, 916, 887  
21: 2, 882, 693  
2, 896, 415  
23: 2, 909, 904  
2, 909, 905  
25: 2, 880, 592  
2, 918, 802  
30: 2, 913, 882  
2, 915, 882  
32: 2, 885, 863  
33: 2, 916, 888  
37: 2, 890, 571  
2, 902, 833  
40: 2, 867, 985  
2, 875, 587  
2, 897, 656  
2, 915, 883  
42: 2, 900, 798  
2, 900, 799  
45: 2, 880, 593  
2, 882, 694  
2, 896, 416  
2, 897, 657  
2, 900, 800  
2, 909, 039  
50: 2, 892, 317  
2, 907, 176  
2, 912, 830  
51: 2, 885, 864  
2, 908, 145  
52: 2, 903, 860  
53: 2, 907, 177  
54: 2, 871, 668  
2, 871, 669  
2, 880, 594  
2, 884, 763  
2, 895, 305  
2, 896, 417  
55: 2, 871, 670  
2, 881, 596  
2, 883, 834  
2, 889, 688  
2, 897, 658  
2, 916, 889  
2, 917, 903  
58: 2, 867, 986  
2, 887, 851  
2, 896, 418  
2, 896, 419  
59: 2, 909, 040  
60: 2, 901, 891  
63: 2, 893, 216  
64: 2, 889, 689  
2, 894, 373  
71: 2, 867, 987  
74: 2, 875, 588  
75: 2, 874, 549  
77: 2, 909, 041  
78: 2, 902, 834  
81: 2, 884, 764  
2, 904, 967  
84: 2, 900, 801  
86: 2, 901, 892  
87: 2, 875, 589  
88: 2, 909, 906  
98: 2, 867, 988  
2, 903, 861  
95: 2, 907, 178  
2, 875, 590  
2, 875, 591  
2, 878, 650  
2, 885, 865  
2, 911, 796  
103: 2, 870, 613  
113: 2, 912, 831  
117: 2, 869, 330  
2, 876, 629  
119: 2, 882, 695  
121: 2, 913, 883  
125: 2, 896, 420  
126: 2, 893, 217  
130: 2, 884, 766  
132: 2, 910, 837  
133: 2, 881, 597  
2, 916, 890  
135: Re. 24,628  
2, 873, 584  
2, 886, 954  
2, 887, 852  
2, 896, 421  
2, 907, 179  
2, 908, 146  
2, 918, 803  
137: 2, 891, 385  
138: 2, 870, 612  
140: 2, 867, 092  
2, 904, 968

141: 2, 881, 598  
150: 2, 867, 989  
151: 2, 892, 318  
152: 2, 867, 093  
2, 895, 306  
153: 2, 894, 374  
154: 2, 881, 599  
155: 2, 882, 696  
2, 888, 808  
2, 902, 835  
2, 907, 180  
2, 909, 907  
156: 2, 885, 866  
2, 895, 307  
2, 899, 801  
2, 900, 502  
2, 907, 181  
2, 918, 804  
157: 2, 899, 802  
2, 900, 803  
2, 900, 804  
2, 882, 697  
158: 2, 887, 853  
2, 907, 182  
2, 889, 690  
2, 900, 805  
2, 910, 838  
161: 2, 883, 835  
2, 884, 767  
2, 891, 386  
2, 895, 308  
2, 916, 891  
2, 916, 892  
162: 2, 917, 904  
169: 2, 867, 991  
171: 2, 867, 990  
172: 2, 871, 671  
2, 871, 672  
2, 898, 745  
2, 902, 836  
2, 912, 832  
174: 2, 867, 094  
2, 871, 673  
2, 904, 969  
2, 914, 924  
176: 2, 885, 867  
2, 911, 797  
179: 2, 873, 585  
2, 913, 805  
180: 2, 893, 218  
2, 917, 798  
183: 2, 917, 905  
186: 2, 892, 319  
2, 895, 309  
2, 900, 806  
2, 908, 147  
188: 2, 904, 970  
192: 2, 875, 592  
2, 909, 042  
196: 2, 874, 550  
2, 883, 836  
2, 888, 809  
2, 892, 320  
2, 892, 321  
2, 894, 375  
2, 904, 971  
2, 910, 839  
2, 916, 894  
2, 916, 894  
197: 2, 896, 422  
2, 914, 925  
2, 869, 331  
207: 2, 898, 746  
2, 910, 840  
215: 2, 888, 810  
220: 2, 882, 698  
222: 2, 893, 219  
2, 909, 908  
225: 2, 884, 768  
229: 2, 912, 833  
230: 2, 889, 691  
231: 2, 884, 765  
2, 903, 862  
2, 906, 103  
232: 2, 871, 674  
233: 2, 890, 572  
2, 891, 387  
2, 907, 183  
234: 2, 876, 630  
235: 2, 878, 651  
2, 878, 652  
236: Re. 24,745  
2, 869, 332  
239: 2, 869, 333  
2, 881, 600  
2, 895, 310  
2, 902, 837  
2, 918, 806  
241: 2, 867, 992  
242: 2, 880, 595  
243: 2, 867, 996  
2, 891, 388  
244: 2, 902, 838  
2, 880, 596  
248: 2, 911, 799

249: 2, 896, 423  
255: 2, 888, 811  
256: 2, 878, 653  
2, 890, 573  
2, 915, 884  
258: 2, 871, 675  
2, 895, 311  
259: 2, 886, 955  
262: 2, 874, 551  
263: 2, 888, 812  
264: 2, 871, 676  
2, 906, 104  
267: 2, 882, 700  
268: 2, 909, 909  
271: 2, 894, 376  
275: 2, 890, 574  
2, 909, 910  
276: 2, 877, 630  
2, 889, 692  
2, 912, 834  
277: 2, 900, 807  
278: 2, 878, 654  
2, 907, 184  
279: 2, 880, 597  
280: 2, 869, 334  
2, 875, 593  
2, 883, 837  
2, 887, 854  
2, 896, 424  
2, 904, 972  
2, 911, 800  
282: 2, 896, 425  
285: 2, 867, 095  
2, 871, 677  
2, 876, 631  
2, 876, 632  
2, 878, 655  
2, 886, 956  
2, 896, 426  
2, 909, 043  
287: 2, 881, 601  
288: 2, 867, 096  
2, 884, 769  
289: 2, 903, 863  
290: 2, 878, 656  
291: 2, 880, 598  
2, 899, 803  
294: 2, 898, 747  
2, 900, 808  
297: 2, 867, 993  
298: 2, 891, 389  
303: 2, 875, 594  
305: 2, 911, 801  
306: 2, 894, 377  
2, 917, 906  
312: 2, 891, 390  
314: 2, 886, 957  
2, 892, 322  
2, 901, 893  
320: 2, 877, 632  
321: 2, 903, 864  
324: 2, 867, 097  
2, 869, 335  
2, 904, 973  
325: 2, 878, 657  
329: 2, 878, 658  
333: 2, 898, 748  
337: 2, 894, 378  
339: 2, 876, 633  
341: 2, 896, 427  
343: 2, 867, 994  
344: 2, 874, 552  
2, 899, 804  
2, 903, 865  
2, 916, 895  
2, 917, 907  
347: 2, 872, 791  
2, 892, 323  
2, 910, 841  
351: 2, 912, 835  
353: 2, 912, 836  
354: 2, 902, 839  
355: 2, 914, 926  
357: 2, 878, 659  
359: 2, 886, 958  
364: 2, 867, 995  
365: 2, 895, 312  
367: 2, 874, 553  
377: 2, 894, 379  
380: 2, 887, 855  
382: 2, 911, 802  
383: 2, 907, 185  
389: 2, 909, 044  
404: 2, 893, 220  
405: 2, 869, 336  
2, 874, 554  
2, 882, 701  
407: 2, 902, 840  
408: 2, 889, 693  
2, 907, 186  
409: 2, 896, 428  
419: 2, 872, 792  
2, 875, 595  
425: 2, 915, 885

426: 2, 887, 856  
2, 895, 313  
429: 2, 870, 614  
2, 914, 927  
439: 2, 889, 694  
440: 2, 871, 678  
455: 2, 892, 324  
456: 2, 892, 325  
457: 2, 876, 634  
473: 2, 867, 098  
475: 2, 891, 391  
476: 2, 894, 380  
2, 918, 807  
482: 2, 875, 596  
494: 2, 915, 886  
500: 2, 887, 857  
502: 2, 867, 099  
504: 2, 871, 679  
509: 2, 897, 659  
2, 901, 894  
511: 2, 885, 868  
513: 2, 871, 680  
515: 2, 894, 381  
2, 896, 429  
516: 2, 869, 337  
525: 2, 874, 555  
526: 2, 877, 631  
527: 2, 894, 382

## Class 63

5: 2, 901, 895  
12: 2, 869, 338  
14: 2, 878, 660  
2, 882, 702  
2, 914, 928  
15. 6: 2, 873, 586  
15. 7: 2, 884, 770  
28: 2, 907, 187

## Class 64

1: 2, 867, 997  
2, 873, 587  
2, 882, 703  
2, 889, 695  
2, 890, 575  
2, 890, 576  
2, 902, 841  
2, 904, 974  
2, 917, 908  
2: 2, 875, 597  
2, 917, 909  
4: 2, 872, 793  
2, 884, 771  
2, 893, 221  
2, 899, 805  
2, 910, 842  
2, 911, 803  
2, 918, 808  
5: 2, 899, 806  
6: 2, 897, 660  
2, 867, 998  
2, 883, 838  
2, 892, 326  
2, 895, 314  
2, 896, 430  
2, 903, 866  
2, 911, 804  
2, 912, 837  
8: 2, 874, 556  
2, 891, 392  
2, 898, 749  
2, 898, 750  
2, 906, 105  
9: 2, 867, 100  
2, 867, 101  
2, 867, 999  
2, 871, 681  
2, 871, 682  
2, 873, 588  
2, 873, 589  
2, 891, 393  
2, 893, 222  
2, 899, 807  
2, 906, 106  
2, 909, 045  
2, 914, 929  
2, 918, 809  
10: 2, 879, 650  
2, 885, 869  
2, 897, 661  
2, 909, 046  
11: 2, 867, 102  
2, 867, 103  
2, 869, 339  
2, 869, 340  
2, 885, 870  
2, 896, 431  
2, 898, 751  
2, 901, 896  
2, 907, 188  
2, 908, 150  
2, 910, 843

13: 2, 871, 683  
2, 877, 633  
2, 883, 839  
2, 893, 223  
2, 900, 809  
2, 913, 884  
14: 2, 873, 590  
2, 876, 635  
2, 891, 394  
2, 891, 395  
2, 892, 327  
2, 892, 328  
2, 893, 224  
2, 899, 808  
2, 901, 898  
2, 902, 842  
2, 909, 911  
15: 2, 875, 598  
2, 885, 871  
2, 897, 662  
2, 899, 809  
2, 903, 867  
2, 907, 189  
2, 917, 910  
17: 2, 869, 341  
2, 873, 591  
2, 876, 636  
2, 879, 651  
2, 896, 433  
2, 896, 433  
2, 903, 868  
2, 904, 975  
2, 912, 838  
2, 916, 896  
19: 2, 870, 615  
2, 902, 843  
2, 910, 844  
21: 2, 875, 599  
2, 875, 600  
2, 884, 772  
2, 897, 663  
2, 900, 810  
2, 902, 844  
2, 908, 151  
2, 910, 845  
2, 911, 805  
2, 914, 930  
2, 914, 931  
2, 917, 911  
23: 2, 835, 872  
2, 904, 979  
2, 908, 152  
25: 2, 890, 810  
27: 2, 870, 616  
2, 880, 599  
2, 883, 840  
2, 895, 315  
2, 895, 316  
2, 904, 976  
2, 906, 107  
2, 908, 153  
28: 2, 885, 873  
2, 892, 329  
2, 900, 811  
2, 910, 846  
2, 916, 897  
20: 2, 868, 000  
2, 875, 601  
2, 881, 602  
2, 882, 704  
2, 909, 047  
30: 2, 868, 001  
2, 872, 794  
2, 901, 899  
2, 904, 977  
2, 907, 190  
2, 909, 912  
2, 913, 885  
32: 2, 869, 342  
2, 870, 617  
2, 914, 932

43: 2, 910, 848  
2, 910, 849  
2, 917, 912  
48: 2, 898, 752  
2, 902, 845  
2, 906, 110  
50: 2, 872, 796  
2, 911, 807  
2, 913, 887  
55: 2, 911, 808  
60: 2, 879, 653  
2, 881, 605  
2, 909, 409  
2, 915, 887  
63: 2, 877, 634  
2, 902, 846  
64: 2, 893, 225  
65: 2, 877, 635  
75: 2, 914, 933  
78: 2, 904, 978  
82: 2, 872, 797  
2, 873, 593  
2, 888, 814  
2, 897, 664  
85: 2, 891, 396  
2, 892, 331  
2, 907, 191  
86: 2, 871, 685  
2, 891, 686  
2, 881, 606  
2, 907, 192  
2, 910, 850  
2, 913, 888  
88: 2, 918, 810  
89: 2, 874, 557  
91: 2, 907, 193  
92: 2, 903, 869  
93: 2, 893, 226  
95: 2, 873, 594  
96: 2, 884, 773  
2, 898, 753  
2, 910, 851  
105: 2, 913, 889  
107: 2, 893, 227  
110: 2, 872, 798  
2, 892, 332  
2, 904, 979  
2, 917, 913  
114: 2, 902, 847  
115: 2, 873, 595  
117: 2, 887, 858  
120: 2, 872, 799  
123: 2, 914, 934  
125: 2, 896, 434  
2, 902, 848  
2, 904, 976  
2, 909, 913  
2, 913, 890  
126: 2, 890, 601  
2, 899, 811  
2, 907, 194  
127: 2, 912, 840  
130: 2, 903, 870  
132: 2, 917, 914  
134: 2, 869, 343  
138: 2, 887, 859  
140: 2, 881, 607  
2, 885, 874  
2, 886, 959  
2, 893, 228  
2, 908, 154  
144: 2, 901, 900  
145: 2, 893, 229  
146: 2, 884, 774  
2, 896, 435  
147: 2, 907, 195  
149: 2, 873, 596  
2, 916, 899  
152: 2, 870, 618  
156: 2, 883, 841  
157: 2, 903, 871  
163: 2, 884, 775  
169: 2, 870, 619  
2, 899, 812  
171: 2, 904, 980  
172: 2, 872, 800  
2, 887, 860  
173: 2, 913, 891  
176: 2, 879, 654  
177: 2, 898, 754  
178: Re. 24,737  
2, 883, 842  
2, 901, 901  
180: 2, 910, 852  
187: 2, 903, 872  
191: 2, 899, 813  
192: 2, 890, 579  
193: 2, 910, 853  
195: 2, 878, 661  
2, 888, 815

## Class 66

1: 2, 906, 109  
9: 2, 880, 600  
2, 881, 603  
2, 913, 886  
13: 2, 909, 048  
14: 2, 868, 002  
2, 871, 684  
2, 879, 652  
2, 892, 330  
2, 910, 847  
2, 912, 839  
2, 916, 898  
15: 2, 873, 592  
19: 2, 882, 705  
24: 2, 895, 317  
40: 2, 872, 795  
2, 881, 604  
42: Re. 24,616  
2, 888, 813  
2, 890, 577  
2, 911, 806



**Class 67**

7: 2,909,914  
7.1: 2,881,608  
2,892,333  
20.1: 2,912,841  
23: 2,888,816  
25: 2,898,755  
31: 2,868,003  
38: 2,874,558  
2,887,861  
2,894,383  
2,911,809  
2,913,892  
38: 2,871,687  
67: 2,902,849  
87: 2,895,318

**Class 68**

3: 2,895,319  
2,903,873  
2,904,981  
4: 2,918,811  
5: 2,873,597  
2,877,636  
2,885,875  
12: 2,867,104  
2,868,004  
2,869,344  
2,885,876  
2,887,862  
2,890,580  
2,892,334  
2,894,384  
2,896,436  
2,899,814  
2,902,850  
2,909,050  
2,911,810  
2,911,811  
2,911,812  
2,914,935  
16: 2,892,335  
17: 2,909,815  
18: 2,900,051  
2,910,854  
2,910,859  
2,916,900  
19: 2,869,345  
2,869,346  
2,871,688  
2,875,602  
2,878,662  
2,881,609  
2,892,336  
2,904,982  
2,915,888  
20: 2,873,598  
2,884,776  
2,889,696  
2,899,816  
2,911,813  
21: 2,894,385  
22: 2,887,863  
2,904,983  
2,910,855  
2,918,812  
23: 2,867,105  
2,872,801  
2,879,655  
2,882,706  
2,883,843  
2,897,665  
2,900,812  
24: 2,867,106  
2,867,107  
2,873,599  
2,912,842  
26: 2,887,864  
28: 2,906,111  
43: 2,918,813  
58: 2,895,320  
2,909,052  
62: 2,915,889  
131: 2,871,689  
2,893,230  
2,902,851  
2,902,852  
133: 2,896,437  
2,899,817  
148: 2,895,321  
2,915,890  
150: 2,872,802  
2,904,984  
156: 2,883,844  
2,885,877  
158: 2,881,610  
170: 2,901,902  
183: 2,873,600  
184: 2,868,005  
205: 2,867,108  
2,880,602  
2,885,878

205: 2,894,386  
2,898,756  
207: 2,868,006  
2,869,347  
2,874,559  
2,882,707  
2,885,879  
2,899,818  
208: 2,869,348  
220: 2,879,656  
233: 2,909,053  
235: 2,882,708  
269: 2,875,603

**Class 69**

6.5: 2,869,349  
8: 2,883,845  
9.5: 2,873,601  
20: 2,912,843  
21: 2,869,350  
2,883,846  
42: 2,867,109  
2,884,777  
46: 2,896,438  
2,910,856

**Class 70**

2.7: 2,892,696  
14: 2,878,663  
2,911,814  
25: 2,893,231  
38: 2,867,110  
2,872,803  
2,893,232  
51: 2,904,985  
67: 2,907,196  
70: 2,880,603  
2,897,666  
75: 2,912,844  
76: 2,916,901  
78: 2,904,986  
80: 2,875,604  
86: 2,877,637  
92: 2,886,960  
2,910,857  
93: 2,881,611  
2,916,902  
97: 2,886,961  
100: 2,917,915  
125: 2,912,845  
133: 2,887,709  
134: 2,869,351  
2,874,560  
135: 2,870,620  
2,883,847  
2,910,859  
139: 2,873,602  
140: 2,870,621  
2,871,690  
2,885,880  
149: 2,887,865  
2,916,903  
150: 2,916,904  
2,916,905  
153: 2,887,866  
2,895,322  
2,911,815  
156: 2,896,439  
2,917,916  
167: 2,885,931  
169: 2,874,561  
2,880,604  
2,880,605  
172: 2,893,233  
181: 2,908,155  
185: 2,904,987  
214: 2,880,606  
216: 2,912,846  
224: 2,877,638  
225: Re.24,712  
227: 2,869,352  
232: 2,912,847  
237: 2,913,894  
248: 2,890,581  
252: 2,868,007  
2,874,562  
258: 2,896,440  
264: 2,877,639  
2,904,988  
267: 2,879,657  
302: 2,881,612  
303: 2,884,778  
306: 2,886,962  
323: 2,894,387  
333: 2,900,813  
338: 2,910,860  
364: 2,870,622  
2,879,658  
2,879,659

367: 2,883,848  
369: 2,907,197  
370: 2,869,363  
383: 2,895,323  
386: 2,911,816  
413: 2,888,817  
414: 2,882,710  
421: 2,890,582  
427: 2,883,849  
431: 2,883,850  
442: 2,916,906  
451: 2,882,711  
452: 2,904,989  
455: 2,874,563  
2,906,112  
456: 2,869,354  
2,878,664  
2,883,851  
2,889,697  
2,897,667  
2,908,156  
457: 2,875,605  
2,901,903  
458: 2,871,691  
459: 2,877,640  
2,915,891  
2,916,907

**Class 71**

1: 2,874,035  
2,891,854  
2.2: 2,886,425  
2.3: 2,868,633  
2,882,140  
2,887,371  
2,904,421  
2,904,422  
2,910,353  
2.4: 2,904,423  
2.5: 2,875,030  
2,875,031  
2,879,150  
2,884,316  
2,887,372  
2,891,855  
2,895,817  
2,898,205  
2,900,243  
2,901,338  
2,902,356  
2,907,650  
2,909,419  
2,909,420  
2,909,421  
2,911,294  
2,913,322  
2,913,323  
2,914,392  
2.6: 2,867,519  
2,867,520  
2,868,634  
2,876,088  
2,876,089  
2,884,317  
2,885,278  
2,893,555  
2,893,556  
2,898,206  
2,906,614  
2,913,324  
2,913,325  
2,916,090  
2,920,339  
2,920,340  
2,920,341  
2,920,342  
2,920,343  
2,920,344  
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2,920,346  
2,920,347  
2,920,348  
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2,913,326  
2,913,327  
2,913,328  
2,916,369  
2,916,370  
2,918,363  
2,919,182  
4: 2,912,816  
6: 2,911,295  
8: 2,867,521  
2,879,151  
9: 2,878,112  
18: 2,906,615  
23: 2,901,339  
24: 2,912,817  
28: 2,916,371  
29: 2,869,996  
2,881,066  
30: 2,882,141  
33: 2,880,561  
34: 2,917,380  
35: 2,884,318  
37: 2,867,522  
2,879,152  
2,898,207  
2,901,340  
2,913,329  
39: 2,879,153

40: 2,869,997  
2,886,426  
41: 2,875,032  
2,891,856  
2,899,292  
2,913,330  
42: 2,885,279  
43: 2,874,036  
2,899,293  
45: 2,916,372  
47: 2,889,217  
2,912,318  
50: 2,869,998  
51: 2,919,183  
52: 2,904,424  
61: 2,867,523  
62: 2,903,349  
63: 2,904,425  
64: 2,893,858  
2,917,381  
2,919,184

**Class 72**

.5: 2,892,337  
2,907,198  
1: 2,867,111  
2,878,665  
2,883,852  
2,903,874  
2,903,875  
7: 2,913,895  
7.1: 2,886,963  
8: 2,898,757  
13: 2,888,818  
2,899,820  
14: 2,888,819  
2,893,876  
2,903,877  
2,915,892  
16: 2,882,712  
2,884,779  
2,889,698  
2,903,878  
2,909,915  
2,911,817  
2,912,848  
18: 2,878,666  
2,880,607  
2,899,821  
2,904,990  
2,914,936  
2,916,908  
19: 2,872,804  
2,879,660  
2,882,713  
20: 2,918,814  
22: 2,887,867  
2,887,875  
25: 2,882,714  
29: 2,882,715  
30: 2,887,868  
33: 2,869,355  
35: 2,915,893  
36: 2,868,008  
2,908,157  
38: 2,884,780  
2,892,338  
2,895,324  
40: 2,881,613  
2,897,668  
41: 2,891,397  
2,892,339  
2,892,340  
2,900,314  
2,902,853  
2,911,818  
42: 2,881,614  
2,887,869  
2,909,916  
44: 2,888,820  
46: 2,887,870  
2,893,234  
2,904,991  
50: 2,907,199  
2,867,112  
61: 2,879,661  
2,912,849  
66: 2,816,909  
68: 2,855,852  
2,892,341  
2,902,854  
2,906,113  
70: 2,870,623  
77: 2,887,871  
96: 2,885,883  
2,909,918  
2,915,894  
98: 2,878,667  
2,893,235  
100: 2,883,853  
101: 2,868,009  
2,870,624  
2,898,758  
2,903,879

105: 2,870,625  
2,878,668  
2,880,608  
2,909,054  
2,917,917  
106: 2,901,904  
107: 2,869,356  
108: 2,871,692  
110: 2,916,910  
111: 2,870,626  
115: 2,912,850  
116: 2,903,880  
118: Re.24,658  
2,890,583  
121: 2,904,992  
122: 2,911,819  
124: 2,879,662  
126: 2,898,759  
127: 2,868,010  
128: 2,867,627  
2,898,760  
130: 2,877,641  
2,882,716  
2,889,699  
2,895,325  
136: 2,896,441  
2,902,855  
2,906,114  
2,906,115  
2,912,851  
138: 2,883,851  
2,910,861

**Class 73**

1: 2,871,693  
2,882,717  
2,882,718  
2,885,884  
2,887,872  
2,887,873  
2,889,700  
2,891,398  
2,901,905  
2,909,055  
3: 2,911,820  
4: 2,888,821  
2,893,236  
2,897,669  
6: 2,877,642  
2,900,815  
7: 2,895,326  
2,907,200  
9: 2,867,113  
2,887,874  
10: 2,872,805  
2,883,855  
2,909,056  
12: 2,892,342  
2,907,201  
15: 2,878,669  
2,885,327  
2,896,442  
15.6: 2,904,993  
2,904,994  
2,909,057  
17: 2,885,885  
2,893,237  
2,900,516  
2,903,882  
2,904,995  
2,909,058  
19: 2,871,694  
2,892,343  
23: 2,868,011  
2,875,606  
2,883,856  
2,889,701  
2,899,919  
24: 2,874,564  
26: 2,879,663  
27: 2,882,719  
2,883,857  
2,903,883  
28: 2,879,664  
29: 2,870,628  
32: 2,869,357  
2,889,702  
2,889,703  
2,903,884  
2,903,885  
35: 2,879,665  
2,888,822  
36: 2,911,821  
37: 2,901,906  
37.5: 2,885,886  
37.7: 2,910,862  
37.8: 2,897,670  
37.9: 2,877,643  
2,889,704  
2,916,911

38: 2,867,116  
2,874,565  
2,880,609  
2,886,964  
2,888,823  
2,909,920  
2,913,897  
39: 2,896,443  
40: 2,872,806  
2,874,566  
2,893,238  
2,915,895  
45.6: 2,883,858  
2,902,856  
46: 2,908,158  
49.1: 2,895,328  
49.2: 2,880,610  
2,912,852  
49.6: 2,883,859  
2,896,445  
2,907,202  
52: 2,873,603  
2,887,876  
53: 2,874,567  
2,880,611  
2,895,329  
2,897,671  
2,902,857  
2,908,159  
55: 2,902,858  
56: 2,876,637  
57: 2,913,898  
58: 2,894,388  
60: 2,869,358  
2,878,670  
61: 2,871,695  
2,908,160  
65: 2,872,807  
67: 2,906,116  
67.1: 2,873,604  
67.2: 2,876,638  
2,887,877  
2,896,446  
2,903,886  
67.6: 2,885,887  
2,912,853  
67.7: 2,893,239  
2,912,854  
67.8: 2,884,781  
2,889,705  
2,908,161  
67.9: 2,875,607  
2,883,860  
70.1: 2,915,896  
2,900,817  
70.2: 2,906,117  
71: 2,896,447  
71.1: 2,917,918  
71.4: 2,909,059  
2,915,897  
71.6: 2,877,644  
2,886,965  
2,890,584  
73: 2,869,359  
2,873,605  
2,878,671  
2,904,996  
2,907,203  
2,918,815  
76: 2,869,360  
2,871,696  
81: 2,890,585  
2,903,887  
2,914,937  
2,917,919  
83: 2,892,344  
2,892,345  
86: 2,870,629  
2,910,863  
87: 2,875,608  
88: 2,886,966  
2,898,761  
88.5: 2,870,630  
2,880,612  
2,895,330  
89: 2,889,706  
2,912,855  
91: 2,882,720  
2,916,912  
93: 2,885,888  
2,891,399  
94: 2,913,899  
2,916,913  
95: 2,881,615  
2,886,967  
2,893,240  
2,900,818  
2,917,920  
95.5: 2,875,609  
99: 2,908,162  
100: 2,909,921  
2,917,921  
101: 2,907,204

103: 2,875,610  
2,896,448  
2,908,163  
104: 2,871,697  
105: 2,914,938  
113: 2,876,639  
114: 2,916,914  
116: 2,882,721  
2,911,822  
119: 2,910,864  
133: 2,882,722  
135: 2,909,922  
136: 2,894,389  
2,895,331  
2,899,822  
2,907,205  
2,914,939  
139: 2,867,117  
2,877,645  
2,888,825  
141: 2,867,118  
2,875,611  
2,877,646  
2,885,889  
2,895,332  
2,904,997  
2,906,118  
143: 2,888,826  
144: 2,872,808  
2,911,823  
146: 2,869,361  
2,869,362  
2,900,060  
2,914,940  
146.8: 2,903,888  
147: 2,871,698  
2,885,890  
2,885,891  
2,906,119  
2,908,164  
2,909,061  
2,910,865  
2,910,866  
2,914,941  
2,918,816  
149: 2,877,647  
150: 2,914,942  
151: 2,869,363  
2,906,120  
155: 2,868,012  
2,875,612  
2,880,613  
2,909,923  
159: 2,885,892  
2,893,241  
2,903,889  
161: 2,882,723  
162: 2,877,648  
167: 2,869,364  
2,870,631  
171: 2,907,206  
2,908,165  
178: 2,871,699  
179: 2,910,867  
180: 2,872,809  
2,888,827  
2,918,817  
181: 2,869,365  
2,869,366  
2,896,449  
2,899,823  
182: 2,869,367  
2,876,640  
2,891,400  
2,895,333  
188: 2,893,242  
189: 2,878,672  
2,913,900  
190: 2,891,401  
2,911,824  
194: 2,867,119  
2,874,568  
2,877,649  
2,887,878  
2,892,346  
2,893,243  
2,896,450  
2,896,451  
2,907,207  
2,907,208  
2,911,825  
2,911,826  
2,912,856  
2,914,943  
2,914,944  
200: 2,882,724  
204: 2,887,879  
2,890,586  
2,892,347  
2,896,452  
205: 2,912,857  
209: 2,882,725  
2,912,858



Class 73—Con.							
212: 2,870,632	213: 2,870,633	213: 2,868,013	2,872,810	2,886,968	2,899,824	215: 2,890,587	218: 2,913,901
219: 2,882,726	2,914,946	221: 2,876,641	223: 2,868,014	228: 2,873,606	2,889,707	2,892,348	2,896,453
2,897,672	2,917,922	229: 2,906,121	230: 2,870,634	231: 2,882,727	2,891,402	233: 2,886,969	2,900,819
262: 2,911,827	278: 2,884,782	279: 2,874,569	281: 2,912,859	290: 2,883,861	2,884,783	2,911,828	293: 2,912,860
295: 2,894,390	299: 2,870,635	301: 2,910,868	2,912,861	303: 2,883,862	304: 2,867,120	2,868,015	2,869,368
2,872,811	2,874,570	2,882,728	2,884,785	2,896,454	2,899,825	2,908,166	2,910,869
2,911,829	2,918,818	309: 2,911,830	313: 2,887,880	2,906,122	317: 2,882,729	2,889,708	321: 2,902,859
322: 2,868,016	325: 2,904,999	328: 2,871,700	331: 2,882,730	2,917,923	334: 2,917,924	335: 2,873,607	336: 2,874,571
336.5: 2,897,673	2,913,902	338.3: 2,915,898	338.6: 2,894,391	341: 2,875,613	2,907,209	342: 2,900,820	343: 2,878,673
2,901,907	2,902,860	2,911,831	2,913,903	345: 2,914,947	349: 2,900,821	352: 2,916,915	355: 2,869,369
2,886,970	2,909,924	2,912,862	358: 2,873,608	2,873,609	2,873,633	2,893,244	2,909,925
359: 2,884,786	360: 2,877,650	361: 2,871,701	2,876,642	362: 2,909,926	363: 2,881,616	363.3: 2,893,245	363.7: 2,918,819
363.9: 2,918,820	368: 2,875,614	2,892,349	2,903,890	2,913,906	2,915,899	2,895,337	2,901,910
2,910,872	2,917,928	2,871,702	2,891,405	2,913,905	2,872,820	2,875,616	2,875,617
2,885,893	2,887,883	2,891,406	2,913,904	2,913,907	2,913,908	2,915,903	2,915,904
2,915,906	2,915,907	2,915,908	2,915,909	2,915,910	2,915,911	2,915,912	2,915,913
2,915,914	2,915,915	2,915,916	2,915,917	2,915,918	2,915,919	2,915,920	2,915,921
2,915,922	2,915,923	2,915,924	2,915,925	2,915,926	2,915,927	2,915,928	2,915,929
2,915,930	2,915,931	2,915,932	2,915,933	2,915,934	2,915,935	2,915,936	2,915,937
2,915,938	2,915,939	2,915,940	2,915,941	2,915,942	2,915,943	2,915,944	2,915,945
2,915,946	2,915,947	2,915,948	2,915,949	2,915,950	2,915,951	2,915,952	2,915,953
2,915,954	2,915,955	2,915,956	2,915,957	2,915,958	2,915,959	2,915,960	2,915,961
2,915,962	2,915,963	2,915,964	2,915,965	2,915,966	2,915,967	2,915,968	2,915,969
2,915,970	2,915,971	2,915,972	2,915,973	2,915,974	2,915,975	2,915,976	2,915,977
2,915,978	2,915,979	2,915,980	2,915,981	2,915,982	2,915,983	2,915,984	2,915,985
2,915,986	2,915,987	2,915,988	2,915,989	2,915,990	2,915,991	2,915,992	2,915,993
2,915,994	2,915,995	2,915,996	2,915,997	2,915,998	2,915,999	2,916,000	2,916,001
2,916,002	2,916,003	2,916,004	2,916,005	2,916,006	2,916,007	2,916,008	2,916,009
2,916,010	2,916,011	2,916,012	2,916,013	2,916,014	2,916,015	2,916,016	2,916,017
2,916,018	2,916,019	2,916,020	2,916,021	2,916,022	2,916,023	2,916,024	2,916,025
2,916,026	2,916,027	2,916,028	2,916,029	2,916,030	2,916,031	2,916,032	2,916,033
2,916,034	2,916,035	2,916,036	2,916,037	2,916,038	2,916,039	2,916,040	2,916,041
2,916,042	2,916,043	2,916,044	2,916,045	2,916,046	2,916,047	2,916,048	2,916,049
2,916,050	2,916,051	2,916,052	2,916,053	2,916,054	2,916,055	2,916,056	2,916,057
2,916,058	2,916,059	2,916,060	2,916,061	2,916,062	2,916,063	2,916,064	2,916,065
2,916,066	2,916,067	2,916,068	2,916,069	2,916,070	2,916,071	2,916,072	2,916,073
2,916,074	2,916,075	2,916,076	2,916,077	2,916,078	2,916,079	2,916,080	2,916,081
2,916,082	2,916,083	2,916,084	2,916,085	2,916,086	2,916,087	2,916,088	2,916,089
2,916,090	2,916,091	2,916,092	2,916,093	2,916,094	2,916,095	2,916,096	2,916,097
2,916,098	2,916,099	2,916,100	2,916,101	2,916,102	2,916,103	2,916,104	2,916,105
2,916,106	2,916,107	2,916,108	2,916,109	2,916,110	2,916,111	2,916,112	2,916,113
2,916,114	2,916,115	2,916,116	2,916,117	2,916,118	2,916,119	2,916,120	2,916,121
2,916,122	2,916,123	2,916,124	2,916,125	2,916,126	2,916,127	2,916,128	2,916,129
2,916,130	2,916,131	2,916,132	2,916,133	2,916,134	2,916,135	2,916,136	2,916,137
2,916,138	2,916,139	2,916,140	2,916,141	2,916,142	2,916,143	2,916,144	2,916,145
2,916,146	2,916,147	2,916,148	2,916,149	2,916,150	2,916,151	2,916,152	2,916,153
2,916,154	2,916,155	2,916,156	2,916,157	2,916,158	2,916,159	2,916,160	2,916,161
2,916,162	2,916,163	2,916,164	2,916,165	2,916,166	2,916,167	2,916,168	2,916,169
2,916,170	2,916,171	2,916,172	2,916,173	2,916,174	2,916,175	2,916,176	2,916,177
2,916,178	2,916,179	2,916,180	2,916,181	2,916,182	2,916,183	2,916,184	2,916,185
2,916,186	2,916,187	2,916,188	2,916,189	2,916,190	2,916,191	2,916,192	2,916,193
2,916,194	2,916,195	2,916,196	2,916,197	2,916,198	2,916,199	2,916,200	2,916,201
2,916,202	2,916,203	2,916,204	2,916,205	2,916,206	2,916,207	2,916,208	2,916,209
2,916,210	2,916,211	2,916,212	2,916,213	2,916,214	2,916,215	2,916,216	2,916,217
2,916,218	2,916,219	2,916,220	2,916,221	2,916,222	2,916,223	2,916,224	2,916,225
2,916,226	2,916,227	2,916,228	2,916,229	2,916,230	2,916,231	2,916,232	2,916,233
2,916,234	2,916,235	2,916,236	2,916,237	2,916,238	2,916,239	2,916,240	2,916,241
2,916,242	2,916,243	2,916,244	2,916,245	2,916,246	2,916,247	2,916,248	2,916,249
2,916,250	2,916,251	2,916,252	2,916,253	2,916,254	2,916,255	2,916,256	2,916,257
2,916,258	2,916,259	2,916,260	2,916,261	2,916,262	2,916,263	2,916,264	2,916,265
2,916,266	2,916,267	2,916,268	2,916,269	2,916,270	2,916,271	2,916,272	2,916,273
2,916,274	2,916,275	2,916,276	2,916,277	2,916,278	2,916,279	2,916,280	2,916,281
2,916,282	2,916,283	2,916,284	2,916,285	2,916,286	2,916,287	2,916,288	2,916,289
2,916,290	2,916,291	2,916,292	2,916,293	2,916,294	2,916,295	2,916,296	2,916,297
2,916,298	2,916,299	2,916,300	2,916,301	2,916,302	2,916,303	2,916,304	2,916,305
2,916,306	2,916,307	2,916,308	2,916,309	2,916,310	2,916,311	2,916,312	2,916,313
2,916,314	2,916,315	2,916,316	2,916,317	2,916,318	2,916,319	2,916,320	2,916,321
2,916,322	2,916,323	2,916,324	2,916,325	2,916,326	2,916,327	2,916,328	2,916,329
2,916,330	2,916,331	2,916,332	2,916,333	2,916,334	2,916,335	2,916,336	2,916,337
2,916,338	2,916,339	2,916,340	2,916,341	2,916,342	2,916,343	2,916,344	2,916,345
2,916,346	2,916,347	2,916,348	2,916,349	2,916,350	2,916,351	2,916,352	2,916,353
2,916,354	2,916,355	2,916,356	2,916,357	2,916,358	2,916,359	2,916,360	2,916,361
2,916,362	2,916,363	2,916,364	2,916,365	2,916,366	2,916,367	2,916,368	2,916,369
2,916,370	2,916,371	2,916,372	2,916,373	2,916,374	2,916,375	2,916,376	2,916,377
2,916,378	2,916,379	2,916,380	2,916,381	2,916,382	2,916,383	2,916,384	2,916,385
2,916,386	2,916,387	2,916,388	2,916,389	2,916,390	2,916,391	2,916,392	2,916,393
2,916,394	2,916,395	2,916,396	2,916,397	2,916,398	2,916,399	2,916,400	2,916,401
2,916,402	2,916,403	2,916,404	2,916,405	2,916,406	2,916,407	2,916,408	2,916,409
2,916,410	2,916,411	2,916,412	2,916,413	2,916,414	2,916,415	2,916,416	2,916,417
2,916,418	2,916,419	2,916,420	2,916,421	2,916,422	2,916,423	2,916,424	2,916,425
2,916,426	2,916,427	2,916,428	2,916,429	2,916,430	2,916,431	2,916,432	2,916,433
2,916,434	2,916,435	2,916,436	2,916,437	2,916,438	2,916,439	2,916,440	2,916,441
2,916,442	2,916,443	2,916,444	2,916,445	2,916,446	2,916,447	2,916,448	2,916,449
2,916,450	2,916,451	2,916,452	2,916,453	2,916,454	2,916,455	2,916,456	2,916,457
2,916,458	2,916,459	2,916,460	2,916,461	2,916,462	2,916,463	2,916,464	2,916,465
2,916,466	2,916,467	2,916,468	2,916,469	2,916,470	2,916,471	2,916,472	2,916,473
2,916,474	2,916,475	2,916,476	2,916,477	2,916,478	2,916,479	2,916,480	2,916,481
2,916,482	2,916,483	2,916,484	2,916,485	2,916,486	2,916,487	2,916,488	2,916,489
2,916,490	2,916,491	2,916,492	2,916,493	2,916,494	2,916,495	2,916,496	2,916,497
2,916,498	2,916,499	2,916,500	2,916,501	2,916,502	2,916,503	2,916,504	2,916,505
2,916,506	2,916,507	2,916,508	2,916,509	2,916,510	2,916,511	2,916,512	2,916,513
2,916,514	2,916,515	2,916,516	2,916,517	2,916,518	2,916,519	2,916,520	2,916,521
2,916,522	2,916,523	2,916,524	2,916,525	2,916,526	2,916,527	2,916,528	2,916,529
2,916,530	2,916,531	2,916,532	2,916,533	2,916,534	2,916,535	2,916,536	2,916,537
2,916,538	2,916,539	2,916,540	2,916,541	2,916,542	2,916,543	2,916,544	2,916,545
2,916,546	2,916,547	2,916,548	2,916,549	2,916,550	2,916,551	2,916,552	2,916,553
2,916,554	2,916,555	2,916,556	2,916,557	2,916,558	2,916,559	2,916,560	2,916,561
2,916,562	2,916,563	2,916,564	2,916,565	2,916,566	2,916,567	2,916,568	2,916,569
2,916,570	2,916,571	2,916,572	2,916,573	2,916,574	2,916,575	2,916,576	2,916,577
2,916,578	2,916,579	2,916,580	2,916,581	2,916,582	2,916,583	2,916,584	2,916,585
2,916,586	2,916,587	2,916,588	2,916,589	2,916,590	2,916,591	2,916,	



424.8: 2,905,012	473: 2,906,140	535: 2,871,721	665: 2,885,907	730: 2,917,949	822: Re.24,700	60: 2,870,005
2,907,223	2,910,885	2,908,185	2,888,839	2,917,950	2,870,656	2,900,249
2,907,224	2,917,941	536: 2,885,905	2,892,362	731: 2,913,931	2,874,595	2,902,358
2,910,883	475: 2,905,016	538: 2,893,262	2,896,475	732: 2,867,136	2,882,758	63: 2,912,321
2,913,920	476: 2,887,898	2,918,829	2,900,843	2,889,718	2,915,922	2,914,397
2,915,913	478: 2,873,616	539: 2,875,641	2,900,844	2,893,267	823: 2,902,889	2,915,382
2,918,827	479: 2,881,634	2,903,907	2,902,886	2,907,232	826: 2,900,849	64: 2,899,295
425: 2,868,031	480: 2,872,829	2,905,024	2,903,911	2,917,951		66: 2,879,157
2,869,387	2,881,635	540: 2,872,830	2,908,187	740: 2,890,603	<b>Class 75</b>	67: 2,867,527
2,881,629	2,901,918	2,897,686	2,910,889	2,911,856	.5: 2,867,524	2,893,862
2,884,800	2,910,886	2,899,838	2,912,883	745: 2,886,982	2,870,000	68: 2,882,142
2,907,225	2,915,915	545: 2,887,899	2,916,948	2,895,349	2,875,033	2,908,562
426: 2,911,846	481: 2,899,835	2,899,839	2,918,883	2,914,966	2,882,754	2,914,398
434: 2,888,833	2,912,877	2,899,840	674: 2,884,808	2,902,229	2,878,113	75: 2,895,821
435: 2,881,630	482: 2,906,141	548: 2,873,617	2,908,188	2,882,755	2,879,154	77: 2,890,951
2,898,775	483: 2,888,835	552: 2,881,638	675: 2,878,691	2,902,887	2,881,067	2,899,296
2,902,878	484: 2,871,717	2,894,413	2,908,189	2,903,913	2,884,319	82: 2,879,158
2,917,939	2,875,637	2,909,941	2,911,851	751: 2,877,667	2,892,697	2,902,359
436: 2,868,032	2,875,638	2,913,923	677: 2,871,725	2,881,642	2,893,859	2,870,006
2,870,647	2,892,359	2,913,924	2,873,621	2,884,812	2,900,244	2,873,184
2,887,897	2,896,470	553: 2,898,776	2,877,665	2,894,417	2,900,245	2,873,185
2,918,828	2,896,471	562: 2,871,722	2,882,751	752: 2,889,719	2,902,357	2,892,700
440: 2,868,033	487: 2,968,034	562.5: 2,890,597	2,883,881	2,890,604	2,905,547	2,901,342
2,880,625	489: 2,874,587	2,914,961	2,884,809	2,890,605	2,914,393	2,902,360
2,896,466	2,905,017	564: 2,910,888	2,885,908	2,891,420	2,916,373	2,904,427
2,902,879	491: 2,894,411	2,915,917	2,890,600	2,891,421	1: 2,885,280	2,904,428
2,911,847	2,896,472	565: 2,876,655	2,892,363	2,900,847	2,890,949	2,905,548
441: 2,903,902	2,901,919	566: 2,893,263	2,893,265	2,901,924	2,905,545	2,905,549
443: 2,867,130	493: 2,876,654	567: 2,871,723	2,901,921	754: 2,868,036	2,905,546	2,905,550
2,869,388	2,883,877	2,887,900	2,903,912	2,884,813	3: 2,867,525	84.1: 2,868,636
457: 2,894,409	2,888,836	568: 2,870,652	2,905,025	2,891,422	2,871,115	2,877,109
458: 2,885,903	2,889,714	2,878,688	2,909,942	2,896,478	2,879,155	2,886,429
459: 2,882,742	2,895,345	2,887,901	2,911,852	2,897,691	2,884,320	2,890,110
2,891,414	2,903,904	2,888,837	2,911,853	757: 2,897,691	2,886,427	2,890,952
2,895,343	2,905,018	569: 2,907,662	679: 2,883,882	759: 2,873,623	2,888,341	2,892,701
459.5: 2,896,467	2,905,019	2,908,186	681: 2,877,666	2,873,624	2,888,342	2,894,832
462: 2,869,389	2,910,887	570: 2,900,838	2,881,639	2,886,985	2,914,394	2,899,297
469: 2,900,836	2,883,878	571: 2,892,360	2,881,640	2,892,365	4: 2,918,364	2,899,298
2,907,226	498: 2,890,595	2,900,839	2,899,843	2,899,846	5: 2,883,278	2,905,551
470: 2,881,632	499: 2,870,650	572: 2,879,674	682: 2,892,361	2,912,884	2,895,818	2,905,552
2,893,260	2,885,904	2,916,962	687: 2,899,397	2,914,967	2,911,296	2,906,618
2,899,833	2,896,473	573: 2,882,745	2,891,419	761: Re.24,619	2,915,378	2,908,563
2,903,903	2,906,142	2,882,746	2,897,688	2,902,888	6: 2,869,999	2,914,399
2,912,873	501: 2,871,718	2,886,979	2,901,922	763: 2,873,625	7: 2,913,331	2,917,382
472: 2,867,131	2,874,588	2,915,918	688: 2,869,388	765: 2,869,400	9: Re.24,724	84.4: 2,876,094
2,867,132	2,913,922	574: 2,878,689	2,914,965	2,873,626	2,867,526	2,885,281
2,869,390	502: 2,877,659	2,882,747	2,917,948	766: 2,910,892	2,870,001	2,890,111
2,870,648	2,899,836	2,898,777	2,874,590	768: 2,900,848	2,870,002	2,913,332
2,871,716	2,912,878	2,905,022	2,880,627	769: 2,871,726	2,875,034	84.5: 2,870,007
2,874,586	503: 2,869,391	2,913,925	2,889,715	777: 2,870,654	2,890,109	2,874,039
2,875,633	2,871,719	575: 2,900,840	2,890,601	780: 2,885,909	2,899,294	2,874,040
2,875,634	2,877,661	579: 2,890,598	2,896,985	2,912,885	2,904,426	2,875,038
2,875,635	2,891,415	580: 2,877,663	2,897,689	781: 2,896,479	2,907,651	2,880,084
2,875,636	504: 2,875,639	2,903,908	2,899,844	785: 2,868,037	2,909,422	2,882,143
2,881,633	2,917,942	581: 2,882,748	2,900,845	2,870,655	2,886,428	2,882,144
2,882,743	507: 2,891,416	2,902,884	2,901,923	2,884,814	2,894,831	2,889,220
2,883,876	509: 2,908,182	582: 2,892,362	2,908,190	2,893,269	2,914,396	2,889,221
2,884,801	512: 2,869,392	590: 2,915,919	689: 2,884,810	2,918,832	2,890,950	2,890,953
2,893,261	2,882,744	594.4: 2,897,687	2,889,716	2,893,269	2,895,819	2,891,857
2,895,344	2,884,803	595: 2,899,842	2,895,348	2,901,923	2,876,091	2,903,350
2,896,468	513: 2,868,035	600: 2,867,134	2,916,949	2,908,190	2,892,698	2,910,357
2,899,834	2,884,804	603: 2,887,902	690: 2,883,883	2,918,832	2,909,246	2,913,333
2,901,917	2,891,417	604: 2,880,626	695: 2,882,752	2,918,833	2,909,423	2,915,383
2,902,880	2,903,905	606: 2,914,963	700: 2,867,135	2,918,834	2,909,424	2,915,384
2,905,013	2,908,183	608: 2,874,589	701: 2,907,231	2,918,835	2,915,379	2,915,385
2,905,015	2,916,946	609: 2,875,642	2,913,927	2,918,836	2,889,218	2,916,374
2,907,227	516: 2,869,393	611: 2,912,882	2,915,920	2,918,837	30: 2,878,114	88: 2,912,322
2,908,181	2,907,228	612: 2,913,926	710: 2,876,657	2,918,838	2,901,341	93: 2,915,386
2,909,077	518: 2,899,837	625: 2,882,749	710.5: 2,876,658	2,918,839	2,912,319	97: 2,887,373
2,910,884	2,917,943	608: 2,874,589	2,876,659	2,918,840	2,874,037	2,915,387
2,911,848	520: 2,869,394	609: 2,875,642	2,876,660	2,918,841	2,875,035	2,872,306
2,912,874	522: 2,870,651	611: 2,912,882	2,876,661	2,918,842	2,877,106	2,875,039
2,912,875	2,896,474	612: 2,913,926	2,876,662	2,918,843	2,900,247	2,893,863
2,912,876	524: 2,881,636	625: 2,882,749	2,876,663	2,918,844	2,912,320	2,899,300
2,913,921	525: 2,912,879	2,885,906	2,876,664	2,918,845	35: 2,873,183	105: 2,884,322
2,915,914	526: 2,895,346	2,887,903	2,876,665	2,918,846	2,877,107	108: 2,871,116
2,916,932	2,905,020	2,902,885	2,876,666	2,918,847	2,900,248	2,910,354
2,916,933	2,911,850	2,916,947	2,876,667	2,918,848	40: 2,876,092	2,913,334
2,916,934	2,912,880	640: 2,906,143	2,876,668	2,918,849	2,876,093	2,913,335
2,916,935	2,914,960	645: 2,873,618	2,876,669	2,918,850	41: 2,918,365	2,915,388
2,916,936	2,917,944	2,875,643	2,876,670	2,918,851	42: 2,919,185	2,915,389
2,916,937	527: 2,869,395	2,876,656	2,876,671	2,918,852	45: 2,875,036	2,875,036
2,916,938	2,909,940	2,882,750	2,876,672	2,918,853	2,892,699	111: 2,877,110
2,916,939	2,912,881	2,884,806	2,876,673	2,918,854	46: 2,875,037	118: 2,867,529
2,916,940	528: 2,869,396	2,903,910	2,876,674	2,918,855	48: 2,895,820	49: 2,893,860
2,916,941	529: 2,875,640	650: 2,873,619	2,876,675	2,918,856	51: 2,870,004	121: 2,875,041
2,916,942	2,903,906	655: 2,890,599	2,876,676	2,918,857	2,884,321	2,885,282
2,916,943	2,905,021	664: 2,893,264	2,876,677	2,918,858	2,906,616	122: 2,885,280
2,916,944	531: 2,867,133	665: 2,871,724	2,876,678	2,918,859	2,906,617	122.5: 2,885,283
2,917,940	2,881,637	2,873,620	2,876,679	2,918,860	52: 2,878,115	2,867,530
473: 2,884,802	2,884,805	2,875,644	2,876,680	2,918,861	2,899,219	2,893,861
2,892,358	2,890,596	2,875,645	2,876,681	2,918,862	2,915,380	2,873,186
2,894,410	2,894,412	2,875,646	2,876,682	2,918,863	53: 2,879,156	2,875,041
2,896,469	2,895,347	2,876,683	2,876,683	2,918,864	2,881,068	2,886,430
2,897,685	2,915,916	2,876,684	2,876,684	2,918,865	2,907,652	2,888,343
2,902,881	532: 2,917,945	2,884,807	2,876,685	2,918,866	55: 2,915,381	2,890,954
2,906,138	533: 2,902,882		2,876,686	2,918,867	59: 2,874,038	2,897,077
2,906,139			2,876,687	2,918,868	2,883,279	2,901,345



## Class 75—Con.

122. 7: 2,902,361  
2,902,362  
2,903,351  
2,904,429  
2,919,186  
123: 2,867,531  
2,871,117  
2,883,281  
2,914,400  
124: 2,868,637  
2,873,187  
2,885,284  
2,885,285  
2,892,702  
2,897,078  
2,900,250  
2,901,346  
2,905,553  
2,908,564  
2,916,375  
2,919,187  
125: 2,868,638  
2,891,858  
2,908,565  
126: 2,867,532  
2,875,042  
2,876,095  
2,876,096  
2,880,085  
2,890,113  
2,890,955  
2,909,425  
2,914,401  
128: 2,888,344  
2,888,345  
2,891,859  
2,892,703  
2,894,833  
2,909,426  
2,919,188  
129: 2,913,337  
130: 2,873,188  
2,877,111  
2,889,222  
2,894,834  
130. 5: 2,867,533  
2,871,118  
2,889,223  
133: 2,910,355  
133. 5: 2,909,427  
134: 2,872,309  
2,875,043  
2,886,431  
135: 2,911,297  
2,919,189  
138: 2,885,286  
2,886,432  
141: 2,870,008  
2,915,390  
142: 2,915,391  
147: 2,880,566  
153: 2,879,159  
157: 2,887,374  
157. 5: 2,887,375  
159: 2,891,860  
2,911,298  
161: 2,874,042  
2,908,567  
162: 2,907,653  
168: 2,882,145  
2,906,619  
2,919,190  
170: 2,880,086  
2,894,835  
2,899,301  
2,899,302  
2,900,251  
2,908,568  
2,910,356  
171: 2,808,639  
2,900,252  
2,900,253  
2,901,347  
2,909,428  
2,912,323  
172: 2,890,114  
2,903,352  
2,903,353  
174: 2,877,112  
2,881,069  
2,882,146  
2,883,282  
2,907,654  
175. 5: 2,867,534  
2,868,640  
2,880,087  
2,880,088  
2,880,089  
2,884,323  
2,892,704  
2,892,705  
2,892,706  
2,893,864

175. 5: 2,899,303  
2,918,367  
176: 2,883,283  
2,884,324  
177: 2,872,310  
178: 2,899,304  
2,909,429  
2,912,324  
200: 2,872,311  
2,894,836  
2,904,430  
201: 2,894,837  
204: 2,895,822  
206: 2,894,838  
207: 2,899,299  
2,908,569  
2,914,402  
208: 2,892,707  
211: 2,877,113  
2,883,284  
2,895,823  
212: 2,872,312  
2,894,839  
214: 2,886,433  
2,889,224  
2,900,254  
2,902,363  
2,902,364  
2,903,354  
2,917,383  
222: 2,917,384  
2,918,368  
223: 2,876,097  
2,877,114  
226: 2,885,287

## Class 76

4: 2,914,968  
5: 2,875,647  
2,883,887  
2,909,945  
24: 2,897,692  
31: 2,868,041  
2,871,728  
2,885,911  
2,895,350  
2,896,481  
36: 2,898,782  
37: 2,894,418  
40: 2,870,657  
2,885,912  
41: 2,875,648  
43: 2,899,847  
48: 2,899,848  
78: 2,889,720  
2,895,351  
82: 2,871,729  
84: 2,896,482  
85: 2,911,857  
89. 2: 2,888,844  
90: 2,912,886  
101: 2,867,137  
2,896,477  
2,900,851  
2,917,952  
102: 2,883,888  
103: 2,884,816  
2,894,419  
104: 2,868,042  
107: 2,873,627  
2,875,649  
2,879,676  
2,882,759  
2,885,913  
2,899,849

## Class 77

3: 2,867,138  
2,867,139  
2,870,658  
2,876,662  
2,877,671  
2,878,693  
2,880,629  
2,882,760  
2,887,906  
2,889,721  
2,891,424  
2,902,890  
2,903,915  
2,903,916  
2,903,917  
2,909,081  
2,909,946  
2,909,947  
2,916,351  
4: 2,869,401  
2,880,630  
2,889,722  
2,901,927  
2,905,027  
2,905,028

5: 2,878,694  
2,883,889  
2,887,907  
2,891,425  
2,891,426  
2,894,420  
2,907,233  
2,909,948  
6: 2,876,663  
2,909,082  
7: 2,868,043  
2,879,677  
2,889,723  
2,899,850  
2,917,953  
11: 2,887,908  
2,887,909  
13: 2,871,730  
2,909,949  
2,910,895  
19: 2,909,083  
2,909,948  
20: 2,887,910  
21: 2,873,628  
2,875,650  
2,910,896  
22: 2,884,818  
2,886,988  
2,897,693  
2,918,833  
25: 2,870,659  
2,893,270  
2,911,858  
2,914,969  
2,915,923  
26: 2,877,620  
2,913,933  
27: 2,898,783  
2,874,596  
2,882,761  
2,889,724  
32: 2,893,271  
2,906,144  
32. 2: 2,870,660  
2,873,629  
32. 3: 2,869,402  
2,903,918  
32. 4: 2,885,914  
2,887,675  
32. 5: 2,893,272  
2,883,890  
32. 7: 2,893,273  
33. 1: 2,913,934  
33. 4: 2,887,911  
33. 5: 2,873,630  
2,876,664  
2,884,819  
2,901,828  
2,909,084  
2,915,924  
34. 4: 2,869,403  
2,893,276  
2,895,352  
34. 5: 2,898,784  
2,902,891  
41: 2,895,353  
42: 2,881,643  
2,911,859  
55: 2,868,044  
2,873,631  
2,882,762  
2,883,891  
2,891,427  
2,891,428  
2,893,274  
2,909,085  
2,911,860  
2,915,925  
58: 2,867,140  
2,869,404  
2,871,731  
2,873,632  
2,874,597  
2,878,695  
2,882,763  
2,883,892  
2,901,929  
2,913,935  
59: 2,879,678  
60: 2,882,764  
61: 2,887,912  
62: 2,874,598  
2,877,672  
2,877,673  
2,877,674  
2,880,631  
2,881,644  
2,884,820  
2,886,989  
2,890,947  
2,897,694  
2,898,722  
2,903,919  
2,903,920  
2,915,926

63: 2,879,679  
2,881,645  
2,884,821  
2,893,275  
2,902,892  
2,914,970  
64: 2,871,732  
2,874,599  
2,880,632  
2,885,915  
2,887,913  
2,895,354  
2,905,029  
65: 2,891,429  
66: 2,897,695  
2,899,851  
67: 2,889,725  
2,897,696  
68: 2,882,765  
2,895,355  
2,898,786  
2,903,921  
2,912,887  
69: 2,869,405  
2,906,145  
70: 2,903,922  
72: 2,888,845  
73: 2,871,733  
2,875,651  
2,907,234  
73. 5: 2,868,045  
2,869,406  
2,884,823  
2,884,824  
2,885,917  
2,888,847  
2,906,148  
2,907,237  
2,915,927  
2,917,954  
1: 2,881,646  
2,909,950  
2,910,897  
9: 2,893,277  
13: 2,888,846  
14: 2,894,421  
17: 2,871,734  
2,877,675  
2,881,647  
2,881,861  
18: 2,884,822  
20: 2,885,916  
2,903,923  
21: 2,905,031  
24: 2,872,832  
39: 2,903,924  
41: 2,910,898  
2,916,952  
42: 2,882,766  
2,914,971  
44: 2,875,652  
2,905,032  
53. 5: 2,899,852  
2,914,972  
61: 2,867,141  
2,886,991  
2,898,788  
2,911,862  
82: 2,871,735  
2,883,893  
2,886,992  
2,891,430  
2,909,086  
2,909,951  
98: 2,891,431

## Class 80

5. 1: Re. 24,714  
2,870,661  
2,870,662  
2,870,663  
2,871,736  
2,873,634  
2,896,484  
2,909,087  
2,909,952  
7: 2,899,853  
2,911,863  
11: 2,887,914  
2,892,366  
2,901,930  
13: 2,863,046  
14: 2,903,925  
2,914,973  
16: 2,883,894  
2,886,990  
2,894,422  
2,905,033  
2,911,864  
19: 2,890,608  
2,896,485  
2,882,767  
2,906,147

25: 2,913,936  
26: 2,878,697  
2,887,915  
30: 2,911,865  
38: 2,868,047  
2,872,833  
2,907,235  
2,909,088  
42: 2,907,236  
43: 2,900,852  
51: 2,886,993  
2,909,609  
52: 2,875,653  
55: 2,870,664  
2,894,423  
2,901,931  
56: 2,883,895  
2,902,893  
2,903,926  
58: 2,871,737  
60: 2,896,486  
2,897,697  
2,897,698  
2,914,974  
2,914,975  
61: 2,901,932

## Class 81

1: 2,889,726  
3: Re. 24,623  
2,867,142  
2,884,823  
2,884,824  
2,885,917  
2,888,847  
2,906,148  
2,907,237  
2,915,927  
3. 1: 2,875,654  
2,892,367  
3. 2: 2,913,937  
3. 32: 2,876,665  
2,892,729  
2,903,927  
3. 34: 2,895,357  
2,897,700  
3. 35: 2,886,994  
3. 4: 2,880,633  
3. 44: 2,913,938  
5. 1: 2,882,768  
2,897,701  
6: 2,889,727  
2,890,610  
7. 5: 2,917,955  
2,868,048  
2,891,432  
9. 3: Re. 24,636  
2,871,738  
2,880,634  
2,898,789  
2,910,899  
2,913,939  
9. 5: 2,868,049  
2,871,739  
2,889,728  
2,894,424  
2,897,702  
2,901,933  
2,902,894  
2,880,635  
9. 51: 2,871,740  
2,876,668  
2,880,636  
2,882,769  
2,884,825  
2,886,995  
2,891,433  
2,915,928  
10: 2,880,637  
15: Re. 24,604  
2,867,143  
2,905,035  
2,868,050  
2,868,051  
2,871,741  
2,873,635  
2,875,656  
2,875,656  
2,876,666  
2,878,698  
2,878,699  
2,883,896  
2,887,916  
2,887,917  
2,890,611  
2,892,368  
2,895,358  
2,897,703  
2,898,790  
2,900,853  
2,900,854  
2,903,928  
2,903,929  
2,906,149

15: 2,906,150  
2,908,193  
2,910,900  
2,911,866  
2,912,888  
2,914,976  
2,915,929  
2,916,953  
2,917,956  
15. 7: 2,869,487  
2,871,742  
15. 8: 2,868,052  
2,882,770  
2,913,940  
17: 2,892,369  
17. 2: 2,896,487  
2,913,941  
2,914,977  
19: 2,886,996  
2,887,918  
2,903,930  
26: 2,872,834  
29: 2,906,151  
33: 2,880,638  
2,903,931  
38: 2,876,667  
2,882,771  
41: 2,907,238  
52. 3: 2,882,772  
2,886,997  
2,895,359  
2,898,791  
2,907,239  
2,907,240  
2,910,901  
2,914,978  
52. 35: 2,893,279  
2,903,932  
2,905,034  
2,907,241  
52. 4: 2,867,144  
2,885,918  
2,887,919  
2,887,920  
2,893,278  
2,897,704  
2,899,854  
2,900,855  
2,912,889  
2,916,954  
2,918,834  
52. 5: 2,887,921  
53: 2,871,743  
2,875,657  
2,879,680  
2,896,488  
2,899,855  
2,901,934  
2,906,152  
2,912,890  
2,915,930  
54: 2,872,833  
2,878,706  
2,898,792  
2,900,856  
2,872,837  
2,909,089  
56: 2,882,773  
2,885,919  
57: 2,868,053  
2,895,360  
2,906,153  
2,907,242  
58. 4: 2,911,867  
60: 2,890,612  
2,891,434  
63: 2,875,658  
64: 2,897,705  
67: 2,905,035  
68: 2,906,154  
71: 2,878,701  
72: 2,895,361  
90: 2,881,648  
2,895,362  
2,905,036  
2,909,900  
99: 2,875,659  
2,887,922  
111: 2,914,979  
121: 2,898,793  
124. 1: 2,896,489  
125: 2,895,363  
128: 2,884,826  
130: 2,900,933  
139: 2,882,774  
145: 2,878,702  
2,914,980  
165: 2,869,409  
2,905,037  
2,913,942  
167: 2,912,891

177: 2,869,410  
2,895,364  
2,915,931  
177. 8: 2,890,613  
177. 9: 2,886,998  
179: 2,879,681  
2,907,243  
2,910,902  
180: 2,873,636  
185: 2,871,744  
2,875,660  
186: 2,895,365  
2,909,954  
330: 2,881,649  
343: 2,906,155  
356: 2,889,730  
380: 2,905,038  
381: 2,910,903  
412: 2,913,943  
414: 2,882,775

## Class 82

1: 2,901,935  
2: 2,883,897  
2,891,435  
2,893,280  
2,897,706  
2,911,868  
2. 5: 2,897,707  
2. 7: 2,877,676  
3: 2,912,892  
4: 2,869,411  
2,887,923  
2,900,858  
2,916,955  
5: 2,875,661  
2,882,776  
2,903,933  
2,909,091  
2,913,944  
12: 2,867,145  
14: 2,877,677  
2,882,777  
2,891,436  
2,896,490  
2,913,945  
19: 2,900,859  
2,906,156  
20: 2,910,904  
2,917,957  
21: 2,876,669  
2,885,920  
24: 2,887,924  
2,900,860  
31: 2,874,600  
2,889,731  
2,910,905  
33: 2,897,708  
34: 2,878,703  
2,878,704  
36: 2,868,054  
2,875,662  
2,878,705  
2,892,370  
2,908,194  
2,908,195  
2,917,958  
40: 2,909,955  
2,912,893  
43: 2,878,706  
2,879,682  
2,911,869  
44: 2,869,412  
2,888,848

## Class 83

17: 2,917,959  
71: 2,918,835  
128: 2,917,960  
140: 2,914,981  
163: 2,916,956  
209: 2,918,971  
240: 2,915,932  
563: 2,918,836  
630: 2,913,946

## Class 84

1: 2,895,366  
1. 01: 2,888,849  
2,888,850  
1. 04: 2,873,637  
2,885,999  
2,901,936  
2,905,039  
1. 08: 2,878,708  
2,913,947  
1. 13: 2,881,650  
1. 14: 2,881,651  
2,893,281  
2,911,870



1. 15: 2, 896, 491 2, 897, 709 2, 909, 092 2, 911, 871	2: 2, 892, 376 2, 900, 863 2. 4: 2, 868, 056 2, 870, 666 2, 878, 709 2, 887, 002 2, 896, 494 2, 903, 938 2, 914, 983 2, 915, 934 2, 918, 840	1: 2, 878, 714 2, 880, 643 2, 881, 654 2, 882, 782 2, 882, 783 2, 882, 784 2, 884, 829 2, 884, 830 2, 887, 927 2, 888, 855 2, 889, 734 2, 889, 735 2, 891, 437 2, 896, 498 2, 896, 499 2, 898, 799 2, 907, 246 2, 907, 247 2, 908, 197 2, 908, 198 2, 909, 958 2, 909, 959 2, 911, 876 2, 911, 877 2, 911, 878 2, 915, 935 2, 915, 936 2, 915, 937 2, 917, 967 2, 896, 500	14: 2, 911, 881 2, 912, 895 2, 915, 938 2, 915, 939 2, 915, 940 2, 916, 961 15: 2, 900, 867 2, 908, 664 2, 870, 672 2, 872, 841 2, 873, 645 2, 883, 902 2, 883, 903 2, 888, 857 2, 889, 738 2, 890, 618 2, 891, 439 2, 891, 440 2, 905, 048 2, 905, 049 2, 906, 162 2, 906, 163 2, 912, 896 2, 912, 897 16. 2: 2, 877, 684 2, 880, 645 2, 882, 788 2, 901, 939 2, 910, 911 2, 911, 882 2, 913, 954 16. 4: 2, 894, 427 2, 898, 742 16. 6: 2, 868, 065 2, 899, 739 2, 890, 619 2, 891, 441 2, 895, 374 2, 896, 503 2, 898, 804 2, 906, 164 2, 916, 962 2, 918, 842 2, 918, 843 16. 8: 2, 868, 066 2, 884, 833 2, 884, 834 2, 896, 504 2, 905, 050 2, 906, 165 2, 876, 674 17: 2, 868, 067 2, 872, 842 2, 874, 607 2, 883, 904 2, 885, 925 2, 895, 375 2, 897, 719 2, 901, 940 2, 909, 095 2, 911, 883 2, 912, 898 2, 912, 899 18: 2, 879, 688 2, 892, 379 18. 4: 2, 893, 287 2, 909, 096 18. 7: 2, 875, 667 2, 898, 805 2, 900, 868 20: 2, 868, 068 2, 872, 843 2, 879, 689 2, 884, 832 2, 890, 620 2, 895, 376 2, 902, 899 2, 916, 963 22: 2, 882, 789 2, 888, 856 2, 893, 288 22. 5: 2, 871, 758 2, 879, 690 23: 2, 879, 691 2, 885, 926 2, 889, 740 2, 897, 720 2, 899, 559 2, 906, 165 2, 913, 955 2, 917, 969 24: 2, 867, 150 2, 868, 069 2, 868, 070 2, 869, 419 2, 871, 759 2, 875, 668 2, 878, 717 2, 878, 718 2, 879, 692 2, 880, 646 2, 881, 658 2, 881, 659 2, 881, 660 2, 882, 790 2, 883, 905	24: 2, 889, 741 2, 890, 621 2, 891, 442 2, 891, 443 2, 894, 428 2, 895, 377 2, 895, 378 2, 896, 505 2, 899, 860 2, 900, 869 2, 901, 941 2, 903, 941 2, 903, 942 2, 903, 943 2, 905, 051 2, 905, 052 2, 906, 167 2, 909, 097 2, 911, 884 2, 912, 900 2, 915, 941 2, 918, 844 26: 2, 898, 806 2, 899, 420 27: 2, 867, 006 2, 887, 006 2, 906, 168 2, 916, 964 28: 2, 869, 421 2, 871, 760 2, 878, 719 2, 880, 647 2, 889, 742 2, 898, 807 2, 909, 098 2, 909, 962 2, 914, 985 2, 916, 965 28. 9: 2, 885, 927 2, 900, 870 2, 905, 053 2, 906, 169 2, 909, 963 28. 93: 2, 870, 673 2, 884, 833 2, 884, 834 29: 2, 868, 071 2, 872, 844 2, 876, 674 2, 883, 906 2, 883, 907 2, 883, 908 2, 887, 007 2, 889, 743 2, 891, 444 2, 902, 900 2, 906, 170 31: 2, 889, 744 2, 897, 721 32: 2, 867, 151 2, 891, 445 2, 909, 964 34: 2, 882, 791 2, 910, 912 39: 2, 870, 674 2, 880, 648 2, 891, 446 2, 899, 861 2, 901, 942 2, 901, 943 2, 905, 054 2, 909, 099 2, 910, 913 40: 2, 868, 072 2, 875, 669 2, 878, 720 2, 893, 289 2, 901, 944 41: 2, 868, 073 2, 875, 670 2, 880, 649 2, 887, 008 2, 917, 970 47: 2, 868, 074 2, 894, 429 2, 914, 986 50: 2, 881, 661 52: 2, 887, 929 53: 2, 874, 609 54: 2, 868, 075 2, 869, 422 2, 878, 721 56: 2, 878, 722 2, 897, 722 2, 917, 971 57: 2, 867, 152 2, 869, 423 2, 872, 845 2, 873, 646 2, 874, 610 2, 878, 723 2, 878, 724 2, 879, 693 2, 885, 928	57: 2, 887, 009 2, 889, 745 2, 890, 622 2, 892, 381 2, 893, 290 2, 894, 430 2, 894, 431 2, 895, 379 2, 896, 506 2, 897, 723 2, 897, 724 2, 897, 725 2, 898, 808 2, 899, 862 2, 900, 871 2, 902, 901 2, 906, 171 2, 906, 172 2, 906, 173 2, 906, 174 2, 907, 248 2, 908, 199 2, 910, 914 2, 913, 956 2, 913, 957 2, 915, 942 2, 916, 966 59: 2, 880, 650 60: 2, 874, 611 2, 874, 612 61: 2, 882, 792 2, 892, 380 2, 896, 507 2, 896, 508 2, 899, 863 2, 914, 987 2, 915, 943 65: 2, 868, 076 2, 868, 077 2, 892, 382 2, 892, 383 77: 2, 876, 676 2, 882, 793 2, 900, 872 2, 910, 915 2, 913, 958 78: 2, 884, 835 2, 890, 623 2, 907, 249 79: 2, 881, 662 2, 887, 930 81: 2, 869, 424 84: 2, 876, 675 86: 2, 871, 761 2, 895, 380 2, 916, 967 87: 2, 869, 425 93: 2, 873, 647 2, 897, 726 2, 902, 902 2, 903, 944 2, 917, 972 97: 2, 878, 725 2, 880, 621 98: 2, 877, 686 2, 878, 726 2, 914, 988 99: 2, 874, 613 2, 877, 687 105: 2, 914, 989 106: 2, 881, 663 2, 890, 624 108: 2, 916, 968 112: 2, 887, 010	Class 89 1: 2, 870, 675 2, 873, 648 2, 882, 794 2, 883, 909 2, 884, 836 2, 900, 873 2, 906, 175 2, 912, 901 2, 913, 959 1. 5: 2, 869, 426 2, 876, 677 2, 877, 688 2, 883, 910 2, 889, 746 2, 891, 447 2, 896, 509 2, 898, 809 2, 905, 055 2, 910, 916 2, 912, 902 2, 918, 845 1. 7: 2, 867, 153 2, 870, 676 2, 870, 677	1. 7: 2, 870, 678 2, 871, 762 2, 874, 614 2, 876, 678 2, 882, 795 2, 884, 837 2, 889, 747 2, 900, 874 2, 908, 200 2, 912, 903 2, 913, 960 2, 915, 945 2, 916, 969 6. 5: 2, 887, 011 7: 2, 872, 846 2, 882, 796 2, 899, 864 8: 2, 907, 250 12: 2, 872, 847 14: 2, 868, 078 2, 870, 679 2, 872, 848 2, 900, 875 2, 916, 970 16: 2, 915, 946 17: 2, 870, 680 26: 2, 889, 748 27: 2, 882, 797 2, 895, 381 33: 2, 873, 649 2, 875, 671 2, 889, 749 2, 889, 750 2, 899, 865 2, 905, 056 2, 910, 917 2, 915, 947 34: 2, 870, 681 2, 874, 615 2, 889, 751 2, 890, 625 2, 895, 382 35: 2, 870, 682 2, 918, 846 2, 910, 915 36: 2, 871, 763 2, 898, 810 37: 2, 868, 080 2, 877, 689 2, 898, 811 37. 5: 2, 889, 752 2, 899, 866 2, 915, 948 40: 2, 870, 683 2, 905, 057 2, 906, 176 41: 2, 876, 679 2, 881, 664 2, 892, 384 2, 903, 945 2, 913, 961 43: 2, 877, 690 44: 2, 879, 694 46: 2, 891, 448 47: 2, 907, 251 125: 2, 918, 847 131: 2, 873, 650 2, 887, 012 133: 2, 870, 684 135: 2, 868, 081 2, 891, 449 2, 898, 812 137: 2, 892, 385 2, 901, 945 140: 2, 872, 849 2, 909, 100 150: 2, 905, 058 155: 2, 887, 931 2, 900, 876 156: 2, 876, 680 159: 2, 872, 850 160: 2, 889, 753 161: 2, 883, 911 173: 2, 900, 877 180: 2, 890, 626 189: 2, 900, 878 190: 2, 868, 082 191: 2, 870, 685 2, 895, 383 2, 902, 903 2, 909, 101 193: 2, 872, 851 2, 887, 013 2, 918, 848 196: 2, 910, 918 198: 2, 873, 651 2, 876, 681 199: 2, 868, 083	Class 90 1: 2, 906, 177 2, 910, 919 2, 918, 849
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## Class 90—Con.

1. 4: 2,871,764  
2,898,813  
1. 6: 2,873,652  
2,882,798  
2,882,799  
2,887,014  
2,887,015  
2,916,971  
2,917,973  
3: 2,869,427  
2,917,974  
4: 2,885,929  
2,888,858  
2,891,450  
2,897,728  
2,906,178  
2,909,102  
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13. 2: 2,896,511  
13. 4: 2,872,852  
13. 5: 2,868,087  
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36. 2: 2,883,914  
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66: 2,897,081 2,902,367 2,915,394	40: Re.24,637 2,868,103 2,869,449 2,870,699 2,874,626 2,876,691 2,881,689 2,885,943 2,891,461 2,891,462 2,892,395 2,898,838 2,900,891 2,901,958 2,901,959 2,902,919 2,907,260 2,909,112 2,912,326 2,912,327 2,912,328	2: Re.24,707 2,868,644 2,871,122 2,873,190 2,875,060 2,878,123 2,879,161 2,881,074 2,890,116 2,891,863 2,891,864 2,895,829 2,899,307 2,903,355 2,903,356 2,903,357 2,904,435 2,905,557 2,905,558 2,906,621 2,907,658 2,910,360 2,913,340 2,915,398 2,918,370 3: 2,874,048 2,904,436 2,914,408 4: 2,873,191 2,878,124 2,879,162 2,899,308 6: 2,888,348 2,910,361 2,912,331 7: 2,875,061 2,895,830 8: 2,885,289 2,890,956 2,892,717 9: 2,881,075 2,904,437 2,906,622 11: 2,912,332 14: 2,872,319 2,872,320 2,874,049 2,879,163 2,879,164 2,881,076 2,919,192 15: 2,910,362 23: 2,889,225 2,899,309 24: 2,904,438 28: 2,873,192 2,893,869 34: 2,868,645 2,880,091 35: 2,908,574 39: 2,916,377 48: 2,872,321 2,872,322 2,875,062 2,878,125 2,879,165 2,880,092 2,892,718 2,906,623 2,912,333 2,919,193 49: 2,897,082 50.5: 2,893,870 2,898,209 52: 2,894,841 54: 2,871,123 2,879,166 2,903,358 56: 2,893,871 2,900,256 2,911,300 2,913,341 57: 2,897,083 59: 2,918,371 63: 2,917,386 66: 2,867,535 2,889,226 68: 2,887,383 2,917,387 71: 2,872,323 2,875,063 2,888,349 2,897,084 2,903,359 2,911,302 2,915,399 2,915,403 2,918,372 77: 2,891,865 2,891,866 2,902,368 2,912,334	77.1: 2,885,290 2,891,867 2,899,310 2,918,373 78: 2,868,646 79: 2,870,016 2,906,624 80: 2,879,167 2,882,162 2,884,327 2,890,957 2,898,210 2,903,360 2,905,559 2,916,378 83: 2,868,647 2,868,648 2,890,117 2,890,118 88: 2,890,958 2,892,719 89: 2,877,117 90: 2,883,285 2,895,831 91: 2,871,124 2,871,125 2,875,064 2,889,227 92: 2,886,438 2,895,832 2,901,352 2,916,379 93: 2,880,093 2,903,361 94: 2,874,050 2,874,051 2,874,052 2,874,053 2,909,431 2,916,380 95: 2,870,017 96: 2,868,649 2,894,842 2,919,194 97: 2,904,439 98: 2,901,353 100: 2,886,439 2,907,659 103: 2,897,085 105: 2,919,195 107: 2,868,650 2,870,018 2,876,100 2,885,291 2,903,362 2,907,660 2,916,381 2,917,388 2,918,374 108: Re.24,683 2,899,311 109: 2,874,054 2,877,118 2,882,163 2,901,354 2,907,661 113: 2,881,077 2,892,720 2,899,312 2,915,400 115: 2,872,324 2,885,291 116: 2,868,651 2,871,126 2,877,119 2,882,164 2,900,257 2,908,575 117: 2,871,127 2,878,126 2,893,872 118: 2,868,652 2,871,128 2,874,055 2,874,056 2,875,065 2,882,165 2,882,166 2,882,167 2,892,721 2,898,211 2,903,363 2,909,432 2,910,363 122: 2,875,066 2,875,067 2,915,401 123: 2,870,019 2,890,959 2,903,364 2,913,342 2,919,196 2,919,197	125: 2,910,364 2,917,389 2,917,745 2,917,746 126: 2,906,625 128: 2,911,303 129: 2,876,101 130: 2,915,402 131: 2,918,375 2,919,198 132: 2,878,127 2,910,365 134: 2,876,102 2,876,103 2,893,873 135: 2,886,440 2,886,441 2,886,442 2,886,443 2,886,444 2,886,445 2,886,446 2,886,447 2,886,448 2,886,449 2,891,868 136: 2,876,104 2,909,433 137: 2,911,304 138: 2,867,536 2,903,365 2,914,409 139: 2,868,653 2,883,286 2,897,086 2,901,355 2,910,366 2,914,410 140: 2,887,384 2,887,385 2,887,386 2,887,387 2,887,388 2,889,313 2,904,440 2,906,626 2,916,382 2,918,376 141: 2,876,105 2,876,106 2,876,107 142: 2,880,094 2,891,866 2,895,833 2,917,390 2,917,391 143: 2,868,654 2,868,655 2,882,168 2,885,292 2,893,874 2,916,383 2,916,384 146: 2,871,129 147: 2,913,343 148: 2,873,193 2,874,058 2,916,385 150: 2,870,018 2,890,119 2,910,367 2,910,368 151: 2,905,560 154: 2,870,020 2,885,287 2,890,120 2,890,960 2,910,368 155: 2,901,356 156: 2,892,722 2,899,314 159: 2,875,069 2,902,369 2,903,366 2,910,369 161: 2,912,335 162: 2,903,367 163: 2,870,021 2,914,411 2,916,386 166: 2,868,656 2,872,325 2,893,875 2,894,843 2,909,434 168: 2,909,435 169: 2,876,109 170: 2,876,110 171: Re.24,621 2,871,130 2,875,069 2,875,070 2,876,111 2,876,112 2,876,113 2,877,120	171: 2,881,078 2,884,328 2,887,389 2,888,350 2,893,876 2,895,834 2,897,087 2,900,258 2,900,259 2,901,357 2,902,370 2,902,371 2,906,627 2,911,305 2,911,306 2,915,404 2,918,377 2,918,378 172: 2,870,022 174: 2,876,114 2,888,351 2,888,352 2,891,870 2,893,877 2,898,212 2,900,260 2,900,261 2,904,441 2,905,561 2,908,576 2,912,336 2,918,379 175: 2,890,121 176: 2,901,358 178: 2,867,537 2,882,169 2,899,317 179: 2,870,023 180: 2,877,121 2,882,170 2,890,122 2,898,213 2,899,318 2,903,370 181: 2,917,391 182: 2,870,024 2,894,844 186: 2,874,059 2,875,071 2,897,088 2,898,214 2,898,215 2,906,628 2,911,307 2,911,308 187: 2,885,293 2,907,662 2,908,577 2,912,337 188: 2,870,025 2,873,194 192: 2,870,026 2,878,128 2,890,123 2,915,405 2,918,380 193: 2,894,845 194: 2,871,131 2,874,060 2,906,629 2,910,370 196: 2,902,372 2,902,373 199: 2,887,390 2,895,835 2,907,063 200: 2,886,450 204: 2,895,836 2,899,319 2,901,359 2,912,338 205: 2,888,353 2,890,961 2,890,962 2,903,371 2,913,344 2,914,411 2,916,386 2,919,199 206: 2,906,630 207: 2,893,878 209: 2,877,122 210: 2,901,360 2,902,374 2,902,375 211: 2,887,391 212: 2,870,027 2,892,723 2,909,436 2,875,079 2,885,294 2,899,320 217: 2,881,079 2,881,080	217: 2,894,846 2,903,372 222: 2,876,115 2,904,442 225: 2,904,443 229: 2,893,879 234: 2,873,663 2,887,035 235: 2,899,884 2,909,984 237: 2,909,114 238: 2,915,957 238.3: 2,907,264 238.4: 2,902,920 251: 2,909,985 254: 2,880,663 257: 2,915,958 259: 2,888,872 2,906,191 275: 2,883,921 2,898,842 277.1: 2,876,692 282: 2,868,109 2,906,192 283: 2,878,746 2,883,922 2,890,643 2,898,843 2,900,894 2,906,193 2,907,265 284: 2,900,895 287: 2,875,681 289: 2,887,036 2,895,402 2,898,844 2,899,885 2,907,266 2,910,928 2,911,901 2,911,902 292: 2,885,949 2,912,921 295: 2,887,037 2,899,886 2,905,074 2,905,075 297: 2,900,896 298: 2,874,629 299: 2,868,110 300: 2,881,692 302: 2,869,451 2,878,747 2,880,664 2,893,306 307: 2,874,630 2,881,693 2,887,038 309: 2,895,403 310: 2,899,887 312: 2,876,693 2,882,811 327: 2,890,644 2,913,976 2,915,000 2,917,988 328: 2,878,748 2,879,707 2,887,039 329: 2,877,702 2,890,645 2,891,463 2,891,464 2,895,404 2,906,194 2,907,703 2,899,888 332: 2,896,527 333: 2,908,213 335: 2,918,860 336: 2,875,682 2,903,958 337: 2,889,765 339: 2,880,665 2,897,744 2,907,267 2,915,001 340: 2,885,950 2,900,897 2,912,922 341: 2,895,405 2,895,406 342: 2,879,708 345: 2,801,465 2,915,959 346: 2,885,951 352: 2,901,964 2,902,921 353: 2,907,268 2,911,903 354: 2,867,162 2,881,694 356: 2,917,989 361: 2,894,446 2,909,986
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## Class 98

1: 2,881,687

2,888,870

2,897,741

2,917,987

1.5: 2,870,698

2,873,661

2,883,920

2,884,844

2,884,845

2,898,836

2,900,890

2,902,915

2,902,916

2,905,071

2: 2,882,809

2,887,031

2,894,441

2,894,442

2,894,443

2,894,444

6: 2,881,688

10: 2,868,101

2,902,917

2,902,918

29: 2,905,072

30: 2,882,810

31: 2,889,763

2,908,211

2,911,898

2,915,955

32: 2,895,398

33: 2,872,858

2,898,837

2,909,981

36: 2,908,212

37: 2,885,940

2,885,941

2,885,942

38: 2,872,859

2,876,690

2,884,846

39: 2,868,102

2,909,111

## Class 99

1: 2,887,382

2,895,828

2,906,620

2,912,330

2,915,397



## Class 99—Con.

376: 2,903,959  
379: 2,895,407  
386: 2,867,163  
2,917,990  
390: 2,910,929  
2,916,984  
391: 2,870,701  
2,901,965  
2,907,269  
392: 2,868,111  
398: 2,894,447  
400: 2,874,631  
403: 2,867,164  
408: 2,899,889  
2,918,861  
410: 2,868,112  
419: 2,909,987  
421: 2,876,694  
2,885,952  
2,887,944  
2,893,307  
2,898,845  
2,910,930  
2,915,002  
2,915,900  
423: 2,867,165  
2,876,695  
425: 2,875,683  
427: 2,882,812  
2,883,923  
2,883,924  
2,895,408  
2,897,745  
435: 2,891,466  
436: 2,896,528  
437: 2,889,766  
443: 2,897,746  
2,898,846  
2,905,076  
444: 2,884,849  
2,894,448  
445: 2,908,214  
446: 2,881,695  
2,905,077

## Class 100

1: 2,883,925  
2,910,931  
4: 2,867,166  
2,879,709  
2,897,747  
2,897,748  
2,898,847  
2,911,904  
5: 2,868,113  
7: 2,917,991  
8: 2,883,926  
12: 2,901,966  
2,905,078  
15: 2,893,308  
19: 2,868,114  
2,882,813  
2,897,749  
20: 2,909,115  
22: 2,871,779  
2,872,860  
25: 2,876,696  
2,882,814  
26: 2,880,666  
2,908,215  
2,908,216  
2,915,003  
2,915,004  
27: 2,873,664  
29: 2,880,667  
35: 2,892,396  
37: 2,917,992  
43: 2,890,646  
2,902,922  
46: 2,915,961  
50: 2,913,977  
52: 2,882,815  
53: 2,882,816  
2,916,985  
70: 2,877,704  
94: 2,905,079  
2,916,986  
98: 2,909,988  
99: 2,887,945  
2,887,946  
100: 2,892,397  
117: 2,912,923  
121: 2,876,697  
2,915,005  
125: 2,906,195  
142: 2,884,850  
2,885,953  
2,909,989  
2,917,993  
145: 2,902,923  
147: 2,876,698

148: 2,901,967  
2,903,960  
160: 2,885,954  
165: 2,869,452  
170: 2,890,647  
179: 2,887,947  
189: 2,871,780  
191: 2,910,932  
198: 2,918,862  
213: 2,887,948  
214: 2,877,705  
2,890,648  
2,910,933  
215: 2,873,665  
219: 2,912,924  
231: 2,890,649  
2,916,987  
232: 2,880,668  
233: 2,918,863  
234: 2,879,710  
2,881,696  
244: 2,897,750  
257: 2,887,949  
264: 2,905,080  
265: 2,887,040  
272: 2,908,217  
282: 2,869,453  
290: 2,896,529

## Class 101

1: 2,885,955  
2: 2,868,115  
2,891,467  
2,906,196  
2,912,925  
3: 2,875,684  
4: 2,883,927  
2,896,530  
2,913,978  
5: 2,891,468  
7: 2,893,309  
8: 2,902,924  
9: 2,887,041  
19: 2,874,632  
2,890,650  
2,896,531  
2,910,934  
2,915,962  
2,916,987  
20: 2,878,749  
25: 2,896,532  
27: 2,872,861  
28: 2,887,042  
2,906,197  
29: 2,897,751  
32: 2,909,990  
35: 2,870,702  
2,880,669  
2,883,928  
2,889,767  
2,899,890  
2,901,968  
2,905,081  
2,909,991  
2,915,963  
36: 2,898,848  
2,917,994  
37: 2,898,849  
38: 2,908,218  
40: 2,875,685  
41: 2,905,082  
44: 2,879,711  
2,895,409  
2,908,219  
2,915,964  
47: 2,867,167  
65: 2,889,768  
2,902,925  
66: 2,889,769  
76: 2,891,469  
2,900,898  
2,909,992  
2,912,926  
79: 2,906,198  
83: 2,899,891  
90: 2,888,873  
2,915,965  
92: 2,912,927  
93: 2,867,168  
2,869,454  
2,869,455  
2,872,862  
2,874,633  
2,874,634  
2,881,697  
2,882,817  
2,884,851  
2,884,852  
2,885,956  
2,887,043  
2,889,770  
2,890,651

93: 2,893,311  
2,893,312  
2,893,313  
2,895,410  
2,895,411  
2,897,752  
2,899,893  
2,901,969  
2,903,961  
2,905,083  
2,906,199  
2,906,200  
2,907,270  
2,909,993  
2,909,994  
2,909,995  
2,909,996  
2,910,935  
2,910,936  
2,911,905  
2,915,966  
2,915,967  
2,915,968  
2,915,969  
2,917,995  
2,917,996  
2,918,864  
2,918,865  
95: 2,869,456  
2,879,712  
96: 2,869,457  
2,875,686  
2,894,449  
101: 2,896,533  
109: 2,903,962  
112: 2,884,853  
115: 2,887,044  
116: 2,878,750  
2,892,398  
2,906,201  
118: 2,893,314  
119: 2,893,315  
122: 2,890,652  
123: 2,881,698  
2,895,412  
2,899,894  
2,907,271  
124: 2,885,957  
2,894,450  
2,918,866  
125: 2,911,906  
126: 2,870,703  
2,881,699  
2,881,700  
2,882,818  
2,894,451  
2,909,116  
2,917,997  
128.1: 2,917,998  
132: 2,873,670  
132.5: 2,867,169  
2,868,116  
2,868,117  
2,880,670  
2,881,701  
2,883,929  
2,884,854  
2,888,874  
2,895,413  
2,896,534  
2,903,963  
2,906,202  
2,907,272  
2,908,220  
134.5: 2,898,850  
2,913,979  
136: 2,894,452  
2,898,851  
137: 2,909,117  
2,911,907  
141: 2,902,926  
142: 2,884,855  
144: 2,915,970  
2,916,988  
147: 2,868,118  
2,873,667  
148: 2,891,470  
2,897,753  
2,913,980  
2,915,006  
2,915,007  
149.1: 2,870,704  
149.2: 2,907,273  
2,909,118  
149.4: 2,872,863  
2,873,668  
2,873,671  
2,875,687  
2,898,852  
2,903,964  
152: 2,870,705  
2,896,535  
153: 2,873,672  
157: 2,891,471  
173: 2,895,414

175: 2,894,453  
2,896,536  
177: 2,875,688  
2,887,045  
178: 2,877,706  
2,890,653  
179: 2,884,856  
180: 2,897,754  
181: 2,911,908  
182: 2,893,310  
191: 2,905,084  
210: 2,887,950  
211: 2,894,454  
213: 2,915,971  
216: 2,874,635  
217: 2,898,853  
218: 2,874,636  
219: 2,905,085  
226: 2,893,316  
227: 2,875,689  
228: 2,895,415  
2,910,937  
231: 2,896,537  
232: 2,887,951  
235: 2,871,781  
2,903,965  
2,917,999  
245: 2,895,416  
247: 2,869,458  
2,870,706  
2,901,970  
248: 2,869,459  
2,887,046  
2,905,086  
260: 2,884,857  
269: 2,900,899  
2,901,971  
2,909,998  
2,913,981  
2,916,989  
275: 2,896,538  
279: 2,871,782  
2,912,928  
283: 2,868,119  
301: 2,889,771  
327: 2,884,858  
329: 2,887,047  
333: 2,891,472  
336: 2,868,120  
2,868,121  
2,878,751  
2,906,203  
348: 2,868,122  
2,903,966  
349: 2,892,399  
2,915,008  
350: 2,873,673  
2,875,690  
2,875,691  
2,891,473  
2,901,972  
2,905,087  
2,908,221  
352: 2,875,692  
363: 2,887,048  
364: 2,887,049  
2,887,050  
365: 2,891,474  
2,893,317  
2,902,927  
366: 2,869,460  
2,893,318  
2,896,539  
2,900,900  
367: 2,887,952  
2,890,654  
368: 2,900,901  
2,900,902  
369: 2,902,928  
2,895,417  
375: 2,882,820  
2,918,867  
377: 2,871,783  
2,874,637  
2,910,938  
378: 2,874,638  
2,893,319  
2,900,903  
2,902,929  
2,909,999  
2,915,010  
2,918,000  
380: 2,877,707  
381: 2,899,893  
2,902,930  
399: 2,902,931  
400: 2,868,123  
401.1: 2,868,124  
2,907,274  
404: 2,902,932  
408: 2,875,693  
409: 2,906,204  
413: 2,907,275

415.1: 2,885,958  
2,894,455  
2,898,854  
2,900,904  
2,903,967  
2,910,939  
2,916,990  
416: 2,906,205  
425: Re.24,739  
2,898,855  
426: 2,869,461  
2,887,051  
2,893,320

## Class 102

2: 2,870,707  
2,873,674  
2,876,699  
2,883,930  
2,895,418  
2,903,968  
4: 2,868,125  
7: 2,889,772  
7.2: 2,874,639  
7.6: 2,892,400  
10: 2,912,929  
14: 2,892,401  
2,909,119  
16: 2,868,126  
2,870,708  
2,892,402  
2,897,755  
18: 2,881,702  
2,892,403  
2,899,896  
2,905,088  
20: 2,873,675  
2,873,676  
2,883,931  
2,883,932  
2,889,773  
2,889,774  
2,889,775  
2,908,222  
2,909,120  
2,911,909  
2,912,930  
2,912,931  
2,912,932  
2,912,933  
2,916,991  
21: 2,897,756  
21.6: 2,871,784  
2,867,170  
2,915,011  
22: 2,867,171  
2,871,785  
2,887,052  
2,916,992  
23: 2,867,172  
2,892,405  
2,892,406  
2,903,969  
24: 2,870,709  
2,887,053  
2,887,953  
2,887,954  
2,892,407  
2,900,905  
2,911,910  
2,913,982  
25: 2,869,462  
2,871,786  
2,916,993  
27: 2,877,708  
2,891,475  
2,891,476  
2,909,121  
28: 2,878,752  
2,880,671  
2,882,819  
2,882,820  
2,887,054  
2,891,477  
2,915,012  
2,916,994  
2,918,001  
30: 2,876,700  
2,916,995  
35.6: 2,913,983  
38: 2,872,864  
2,884,859  
2,892,408  
2,897,757  
39: 2,869,463  
2,877,709  
2,918,868  
41: 2,882,821  
2,902,933  
42: 2,894,456  
2,898,857  
2,915,972

43: 2,902,934  
2,918,002  
2,918,003  
49: 2,858,127  
2,869,464  
2,892,409  
2,892,410  
2,898,856  
2,899,898  
2,899,899  
2,900,906  
2,918,004  
2,918,005  
2,918,869  
2,918,870  
50: 2,870,710  
2,870,711  
2,887,055  
2,911,912  
56: 2,872,865  
2,910,000  
2,918,006  
63: 2,900,907  
64: 2,872,866  
2,911,913  
70: 2,873,678  
2,876,701  
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2, 908, 223	2, 869, 474		2, 882, 830	2, 896, 552	2, 896, 552	2, 893, 882	162: 2, 880, 105
2, 917, 001	2, 884, 866		2, 887, 960	2, 896, 553	2, 896, 553	2, 895, 839	2, 895, 841
117: 2, 874, 643	2, 898, 865		96: 2, 875, 703	2, 913, 999	2, 913, 999	2, 898, 219	2, 914, 414
2, 882, 830	2, 898, 866		2, 875, 704	2, 915, 989	2, 915, 989	2, 898, 219	2, 914, 415
2, 893, 323	2, 888, 879		2, 903, 972	2, 915, 990	2, 915, 990	2, 901, 366	163: 2, 872, 330
2, 899, 092	2, 898, 867		98: 2, 891, 484	216: 2, 910, 014	2, 910, 014	2, 902, 377	164: 2, 883, 298
2, 905, 094	2, 910, 007		102: 2, 887, 067	224: 2, 875, 705	2, 875, 705	2, 913, 345	2, 916, 390
2, 910, 947	2, 912, 938		2, 887, 068	2, 880, 680	2, 880, 680	2, 877, 123	165: 2, 875, 077
2, 911, 920	2, 915, 984		103: 2, 873, 689	2, 884, 872	2, 884, 872	2, 902, 376	2, 875, 078
2, 915, 979	2, 895, 425		128: 2, 881, 711	240: 2, 893, 327	2, 893, 327	2, 907, 664	2, 875, 079
118: 2, 871, 793	154: 2, 871, 796		131: 2, 869, 478	249: 2, 879, 720	2, 879, 720	2, 909, 437	2, 876, 124
2, 880, 676	2, 895, 425		134: 2, 890, 129	250: 2, 888, 882	2, 888, 882	2, 917, 392	2, 879, 170
2, 910, 948	2, 918, 019		135: 2, 896, 549	2, 888, 883	2, 888, 883	2, 906, 632	2, 888, 356
120: 2, 875, 699	157: 2, 883, 938		137: 2, 906, 212	2, 888, 884	2, 888, 884	2, 898, 229	2, 890, 130
2, 878, 755	2, 905, 098		148: 2, 884, 868	2, 914, 000	2, 914, 000	2, 903, 373	2, 890, 131
2, 878, 756	158: 2, 906, 210		149: 2, 872, 879	2, 876, 711	2, 876, 711	2, 874, 057	2, 890, 132
2, 880, 677	161: 2, 867, 175		150: 2, 882, 834	2, 898, 871	2, 898, 871	2, 875, 072	2, 890, 133
2, 883, 937	2, 868, 136		2, 899, 910	264: 2, 887, 962	2, 887, 962	2, 880,	



## Class 106—Con.

- 171: 2,881,085  
2,899,315  
173: 2,899,316  
177: 2,887,396  
2,914,416  
178: 2,872,331  
179: 2,895,842  
180: 2,883,299  
2,895,843  
181: 2,902,382  
185: 2,887,397  
189: 2,902,383  
2,911,315  
192: 2,870,035  
193: 2,868,662  
2,868,663  
2,880,106  
2,892,730  
2,913,348  
194: 2,882,176  
195: 2,895,844  
202: 2,888,357  
203: 2,883,300  
2,887,398  
208: 2,868,664  
2,884,335  
2,892,731  
211: 2,880,107  
213: 2,876,125  
2,881,086  
2,887,399  
218: 2,873,200  
2,893,885  
219: 2,898,223  
228: 2,873,201  
2,877,130  
2,917,399  
230: 2,868,665  
2,873,202  
238: 2,873,203  
239: 2,915,410  
241: 2,900,269  
243: 2,868,666  
2,901,371  
2,914,417  
2,916,392  
2,917,400  
248: 2,875,080  
250: 2,899,328  
252: 2,871,135  
2,872,332  
2,886,455  
2,886,456  
253: 2,911,316  
2,915,411  
256: 2,872,333  
261: 2,886,457  
252: 2,874,062  
265: 2,907,669  
268: 2,875,081  
269: 2,870,036  
2,919,204  
270: 2,871,136  
2,875,082  
2,910,373  
271: 2,872,334  
272: 2,893,886  
273: 2,875,083  
2,891,873  
2,901,372  
2,906,635  
277: 2,886,458  
2,888,358  
2,889,230  
2,892,732  
278: 2,877,127  
2,890,967  
2,894,848  
2,913,349  
279: 2,877,128  
2,877,129  
280: 2,889,231  
281: 2,876,126  
282: 2,886,459  
284: 2,875,084  
2,903,374  
285: 2,871,137  
2,910,374  
286: 2,915,412  
287: 2,876,127  
2,891,874  
2,898,224  
2,899,329  
2,899,330  
2,908,584  
2,908,585  
2,917,401  
288: 2,867,539  
2,882,177  
2,902,384  
2,912,342  
290: 2,877,126
- 292: 2,872,335  
299: 2,871,138  
2,875,085  
2,875,086  
2,889,232  
301: 2,878,134  
303: 2,882,178  
304: 2,905,567  
305: 2,910,375  
307: 2,872,336  
2,893,887  
2,908,586  
2,914,418  
308: 2,878,135  
2,886,460  
2,891,875  
2,902,385  
2,907,670  
309: 2,885,298  
310: 2,894,849  
316: 2,886,461
- Class 107**  
1: 2,868,141  
2,868,142  
2,875,708  
2,879,724  
2,881,714  
2,902,948  
2,905,105  
2,906,214  
2,910,017  
4: 2,892,422  
2,899,914  
2,905,109  
2,917,009  
8: 2,867,179  
2,884,875  
2,892,423  
2,899,915  
9: 2,869,482  
2,876,713  
2,881,715  
2,907,285  
12: 2,869,483  
2,898,873  
2,907,286  
2,909,131  
14: 2,875,709  
2,881,716  
2,882,838  
2,887,072  
2,888,856  
2,890,662  
2,902,949  
2,905,110  
2,914,005  
2,915,992  
2,917,008  
15: 2,896,555  
2,902,950  
2,915,993  
2,915,994  
21: 2,905,111  
2,905,112  
23: 2,887,964  
2,868,143  
2,893,331  
2,896,556  
2,901,988  
31: 2,868,144  
2,915,023  
46: 2,868,145  
47: 2,876,714  
50: 2,884,876  
52: 2,884,877  
54: 2,869,484  
2,873,697  
2,874,649  
2,882,839  
2,888,887  
2,888,888  
2,893,332  
2,896,557  
2,897,772  
2,915,024  
55: 2,908,234  
57: 2,874,650  
2,885,973  
2,900,927  
60: 2,889,786  
63: 2,908,235
- Class 108**  
1: 2,873,698  
2,876,715  
2,881,717  
2,881,718  
2,891,491  
2,905,113
- 1: 2,908,236  
2,912,940  
3: 2,874,651  
2,892,424  
2,901,989  
2,905,114  
5.4: 2,910,018  
6: 2,872,882  
2,891,492  
6.5: 2,874,652  
7: 2,867,180  
2,884,878  
2,890,663  
2,897,773  
2,900,928  
2,910,019  
13: 2,895,432  
16: 2,874,653  
2,875,710  
2,883,946  
2,896,558  
2,918,023  
17: 2,867,181  
2,882,840  
2,900,929  
21: 2,885,974  
2,907,287  
22: 2,873,699  
23: 2,868,146  
2,875,711  
2,902,951  
26: 2,874,654  
2,886,559  
28: 2,873,700  
2,887,073  
2,890,664  
2,899,916  
30: 2,875,712
- Class 109**  
1: 2,871,802  
39: 2,879,725  
59: 2,887,965  
61: 2,869,485  
2,918,883  
63.5: 2,869,486  
2,888,889  
2,889,787  
2,892,425  
2,902,952  
2,917,010  
82: 2,894,463
- Class 110**  
1: 2,893,333  
2,909,132  
7: 2,879,726  
8: 2,869,487  
2,882,841  
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2,895,433  
2,905,111  
2,912,941  
18: 2,871,803  
2,877,723  
2,880,682  
2,882,842  
2,883,947  
2,885,975  
2,895,434  
2,910,021  
2,910,021  
2,911,925  
2,915,025  
21: 2,874,655  
22: 2,883,948  
23: 2,903,980  
28: 2,867,182  
2,873,701  
2,881,719  
2,881,720  
2,882,843  
2,891,493  
2,895,435  
2,898,874  
2,899,917  
2,900,930  
2,905,116  
2,907,288  
2,917,011  
2,918,024  
29: 2,879,727  
40: 2,876,716  
44: 2,894,464  
2,918,025  
69: 2,894,465  
2,884,879  
99: 2,869,488  
2,885,978  
2,901,990  
101: 2,873,702  
2,894,466
- 104: 2,909,133  
2,912,942  
2,912,943  
108: 2,873,703  
162: 2,877,724  
165: 2,895,436  
2,903,981  
172: 2,915,026  
173: Re. 24,606  
2,882,844  
176: 2,910,022
- Class 111**  
3: 2,887,075  
2,890,665  
2,899,918  
2,906,215  
5: 2,876,717  
2,900,931  
2,909,134  
7: 2,874,656  
2,876,718  
2,876,719  
2,888,890  
2,903,982  
2,905,117  
2,912,944  
7.1: 2,874,657  
2,875,713  
2,885,977  
2,893,334  
2,902,953  
7.3: 2,874,658  
10: 2,915,995  
11: 2,871,804  
16: 2,910,023  
52: 2,902,954  
67: 2,890,666  
2,890,667  
2,914,006  
77: 2,871,805  
80: 2,869,489  
2,869,490  
2,888,891  
2,889,788  
85: 2,881,721  
2,884,880  
86: 2,869,489  
2,872,883  
2,885,978  
87: 2,917,012
- Class 112**  
2: 2,872,884  
2,873,704  
2,880,683  
2,883,949  
2,885,979  
2,892,426  
2,901,991  
2,907,289  
2,909,135  
2,911,927  
3: 2,869,492  
2,869,493  
2,915,027  
2,918,884  
9: 2,876,720  
10: 2,867,183  
2,874,659  
11: 2,901,992  
2,910,949  
18: 2,891,494  
2,896,560  
25: 2,868,147  
2,871,806  
26: 2,889,789  
32: 2,877,725  
33: 2,901,993  
34: 2,905,118  
35: 2,906,216  
38: 2,881,722  
2,888,892  
43: 2,903,983  
2,914,007  
44: 2,900,932  
46: 2,868,148  
2,900,933  
49: 2,903,984  
52: 2,878,762  
2,881,723  
2,885,980  
2,898,875  
57: 2,896,561  
2,903,985  
60: 2,902,955  
63: 2,900,934  
65: 2,889,790  
67: 2,899,919  
2,906,217  
68: 2,874,660
- 77: 2,885,981  
2,890,668  
2,894,467  
79: 2,873,705  
2,875,714  
2,876,183  
2,876,441  
2,878,763  
2,879,728  
2,879,729  
2,879,730  
2,880,684  
2,882,845  
2,884,881  
2,889,791  
2,898,876  
2,912,945  
79.5: 2,887,966  
80: 2,879,731  
2,887,076  
94: 2,883,950  
98: 2,889,792  
101: 2,881,724  
103: 2,894,468  
2,896,562  
2,902,956  
104: 2,906,218  
2,911,928  
109: 2,900,935  
113: 2,918,885  
114: 2,875,715  
2,914,008  
122: 2,903,986  
2,915,996  
123: 2,910,024  
2,914,009  
125: 2,868,149  
2,893,335  
127: 2,917,013  
132: 2,893,336  
2,915,997  
135: 2,918,026  
136: 2,894,469  
140: 2,881,725  
141: 2,880,685  
147: 2,900,936  
148: 2,876,721  
152: 2,891,495  
154: 2,884,882  
158: 2,877,726  
2,879,732  
2,887,967  
2,900,937  
2,900,938  
2,905,119  
2,906,219  
160: 2,896,563  
2,895,442  
2,907,290  
2,910,025  
2,911,929  
164: 2,895,438  
166: 2,884,883  
171: 2,900,939  
174: 2,871,807  
176: 2,889,793  
178: 2,874,661  
2,894,470  
181: 2,873,706  
184: 2,900,940  
186: 2,902,957  
199: 2,884,884  
2,893,337  
200: 2,915,998  
203: 2,869,494  
204: 2,895,439  
207: 2,889,794  
209: 2,894,471  
210: 2,868,150  
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2,887,968  
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2,899,920  
211: 2,870,725  
2,875,716  
2,885,982  
2,885,983  
2,887,077  
2,892,427  
2,907,291  
212: 2,905,120  
214: 2,891,496  
215: 2,874,662  
2,906,220  
2,912,946  
216: 2,882,846  
218: 2,871,808  
2,871,809  
2,885,984  
2,900,941  
2,910,026  
219: 2,868,151  
2,872,885  
2,878,764  
2,882,847
- 219: 2,893,338  
2,895,440  
2,905,121  
2,906,221  
2,906,222  
2,910,027  
2,910,028  
2,911,930  
2,912,947  
221: 2,868,152  
2,871,810  
2,873,707  
2,883,951  
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225: 2,910,029  
2,912,948  
228: 2,883,953  
230: 2,869,495  
231: 2,869,496  
2,892,428  
233: 2,907,292  
235: 2,887,969  
2,892,429  
2,900,942  
2,902,958  
2,909,136  
236: 2,870,726  
2,874,663  
2,874,664  
2,915,999  
238: 2,902,959  
240: 2,878,765  
241: 2,910,950  
242: 2,883,954  
2,910,951  
248: 2,874,665  
2,882,848  
2,887,970  
2,895,441  
251: 2,918,886  
252: 2,867,184  
2,902,960  
2,914,010  
2,918,887  
253: 2,885,985  
256: 2,879,733  
2,882,849  
2,897,774  
257: 2,868,153  
258: 2,879,734  
2,883,955  
2,918,027  
260: 2,876,722  
2,877,728  
2,882,850  
2,885,986  
2,895,442  
2,908,237  
2,911,931  
261: 2,906,223  
262: 2,873,708  
2,902,961  
2,905,122  
2,906,224
- Class 113**  
1: 2,874,666  
2,876,723  
2,881,726  
2,892,430  
2,895,443  
2,901,994  
2,905,123  
2,912,949  
8: 2,883,956  
12: 2,915,028  
14: 2,877,729  
22: 2,916,000  
2,918,888  
23: 2,870,727  
24: 2,907,293  
33: 2,911,932  
34: 2,878,766  
35: 2,899,921  
38: 2,872,886  
2,884,885  
2,891,497  
2,901,995  
42: 2,872,887  
2,884,886  
2,899,922  
2,906,225  
44: 2,878,767  
2,881,727  
2,902,962  
2,903,987  
2,908,238  
45: 2,900,943  
46: 2,888,894  
2,890,669  
48: 2,878,769  
49: 2,873,709  
2,887,971
- 50: 2,867,185  
2,871,811  
52: 2,882,851  
2,892,431  
2,902,963  
2,917,014  
57: 2,903,988  
59: 2,869,497  
2,875,717  
2,877,730  
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2,887,972  
2,912,950  
2,914,011  
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60: 2,900,944  
80: 2,887,973  
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93: 2,877,731  
97: 2,881,729  
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99: 2,869,498  
2,870,728  
2,871,812  
2,875,718  
2,909,137  
2,911,933  
2,917,015  
102: 2,872,888  
2,888,895  
103: 2,878,770  
2,906,226  
104: 2,887,079  
2,887,974  
109: 2,875,719  
111: 2,916,001  
116: 2,869,499  
2,874,667  
2,876,724  
2,878,771  
2,882,852  
2,909,138  
2,912,951  
120: 2,876,725  
2,892,432  
2,905,124  
2,905,125  
121: 2,880,686
- Class 114**  
.5: 2,876,726  
2,879,735  
2,885,987  
2,887,975  
2,888,896  
2,889,795  
2,905,126  
2,910,952  
2,914,012  
2,916,002  
16: 2,870,729  
2,873,710  
2,876,727  
2,887,976  
2,887,977  
2,915,030  
2,918,029  
2,918,889  
2,918,890  
20: 2,889,796  
2,899,923  
2,906,227  
22: 2,877,732  
2,880,687  
2,890,670  
23: 2,910,953  
39: 2,893,339  
2,908,239  
40: 2,902,964  
42: 2,883,957  
43: 2,914,013  
43.5: 2,892,433  
2,896,564  
2,905,127  
2,908,240  
2,912,952  
2,916,003  
45: 2,894,472  
51: 2,885,988  
54: 2,870,730  
2,887,080  
2,892,434  
2,918,030  
56: 2,915,031  
60: 2,898,877  
61: 2,876,728  
2,916,004  
2,918,031  
65: 2,915,032  
66.5: 2,875,720  
2,887,081  
2,887,082



66. 5: 2,887,978 2,887,979 2,890,671 2,890,672 2,900,945 2,906,228 2,906,229 2,909,140 2,914,014 2,917,016 73: 2,895,444 2,909,141 75: 2,909,139 78: 2,918,032 98: 2,879,736 103: 2,909,142 122: 2,890,673 2,892,435 2,901,996 125: 2,906,230 126: 2,878,772 2,893,340 2,911,934 144: 2,894,473 145: 2,916,005 150: 2,891,498 153: 2,878,768 2,881,730 165: 2,911,935 166: 2,909,143 167: 2,910,954 179: 2,903,989 183: 2,869,500 2,891,499 185: 2,884,888 2,888,897 2,902,965 2,909,144 201: 2,910,031 202: 2,869,501 2,869,502 2,891,500 2,915,033 2,917,017 206: 2,873,711 207: 2,905,128 208: 2,869,503 2,870,731 2,874,668 2,887,980 2,894,474 2,906,231 2,910,955 2,914,015 210: 2,870,732 2,880,688 2,893,341 2,899,924 2,910,032 218: 2,870,733 2,876,729 219: 2,874,669 2,875,721 2,885,989 2,903,990 2,905,129 2,910,033 220: 2,900,946 221: 2,889,797 2,910,034 2,871,813 2,873,712 2,894,475 2,907,294 2,912,953 2,912,954 235: 2,872,889 2,872,890 2,879,737 2,891,501 2,899,925 2,902,966 2,907,295 2,917,018 236: 2,870,734 240: 2,891,502 Class 115 . 5: 2,914,016 1: 2,894,476 2,908,241 2,909,145 2,914,017 2,916,006 6. 1: 2,914,018 14: 2,884,889 16: 2,887,981 17: 2,879,738 2,886,462 2,903,991 2,905,130 2,909,146	17: 2,911,936 2,911,937 2,911,938 18: 2,875,722 2,877,733 2,887,083 2,890,674 2,895,445 2,900,947 2,914,019 2,914,020 2,916,007 2,916,008 2,910,035 26: 2,873,713 29: 2,875,723 31: 2,918,891 34: 2,895,446 2,905,131 2,915,034 35: 2,880,689 2,885,990 2,917,019 41: 2,878,773 2,893,342 2,902,967 2,905,132 2,905,133 2,908,242 2,908,243 2,912,955 2,916,009 42: 2,884,890 2,894,477 2,896,555 2,916,010 49: 2,907,296 50: 2,872,891 67: 2,918,892 Class 116 27: 2,901,997 28: 2,871,814 2,898,878 34: 2,887,982 2,893,343 2,896,566 2,915,035 2,917,020 35: 2,915,036 2,877,734 57: 2,887,084 2,903,992 2,910,036 2,910,037 60: 2,900,948 63: 2,869,504 2,887,085 2,887,983 2,898,879 2,905,134 67: 2,874,670 2,896,567 2,908,244 2,902,436 2,905,135 2,905,136 86: 2,912,956 91: 2,885,991 102: 2,867,186 2,897,775 103: 2,889,798 106: 2,871,815 2,880,690 109: 2,910,956 112: Re.24,730 2,878,774 2,882,853 2,893,344 2,905,137 114: 2,880,691 2,889,799 2,893,345 2,894,478 2,902,968 2,902,969 2,910,957 2,918,033 2,918,893 114. 5: 2,896,568 115: 2,894,479 2,901,998 115. 5: 2,868,154 116: 2,907,297 117: 2,882,854 2,884,891 2,888,898 2,903,993 118: 2,873,714 2,877,735 2,895,447 2,910,038 2,911,939	119: 2,871,816 2,892,437 2,911,940 124: 2,868,155 2,869,505 2,869,506 2,887,086 2,889,800 2,910,958 124. 1: 2,893,346 2,912,957 2,918,894 124. 4: 2,885,992 2,907,298 129: 2,874,671 2,878,775 2,880,692 2,882,855 2,883,958 2,898,880 2,900,949 2,902,970 2,905,138 2,906,232 2,906,233 2,914,021 2,916,011 2,918,034 132: 2,867,187 133: 2,870,735 2,872,892 2,874,672 2,885,993 2,885,994 2,918,035 2,918,036 134: 2,882,856 135: 2,877,736 2,888,899 2,893,347 2,895,448 2,905,139 137: 2,868,156 2,908,245 142: 2,884,892 2,918,895 2,912,958 155: 2,880,693 173: 2,869,507 2,888,900 2,894,480 2,905,140 2,906,234 2,909,147 Class 117 1: 2,880,108 2: 2,885,299 2,888,359 3: 2,870,037 2,906,636 3. 1: 2,889,233 3. 4: 2,909,442 5. 3: 2,903,375 5. 5: 2,894,850 2,906,637 6: 2,877,131 2,893,888 2,894,851 7: 2,883,301 2,885,300 2,906,638 2,911,317 2,914,419 8: 2,886,463 2,880,112 2,880,113 2,885,303 2,899,335 2,901,375 8. 5: 2,897,089 9: 2,901,373 10: 2,875,087 2,875,088 11: 2,870,038 2,872,337 2,873,204 2,879,172 2,884,336 2,894,853 2,905,568 12: 2,895,846 15: 2,915,413 16: 2,879,173 2,907,671 2,909,443 17: 2,878,136 2,878,137 17. 5: 2,872,338 2,874,063 2,874,064 2,877,132 2,886,464 2,889,234 2,890,968	17. 5: 2,895,847 2,899,331 2,901,374 19: 2,881,087 20: 2,903,376 22: 2,868,667 2,880,109 2,885,301 2,899,332 23: 2,908,587 25: 2,900,270 2,905,569 28: 2,870,039 2,887,400 30: 2,893,889 33: 2,872,339 2,876,128 2,881,088 2,911,318 33. 3: 2,905,570 2,907,672 2,913,350 2,913,351 2,917,402 33. 5: 2,867,541 2,873,205 2,873,206 2,875,089 2,875,089 2,876,129 2,876,130 2,878,134 2,879,173 2,887,401 2,887,402 2,888,361 2,894,854 2,898,225 2,898,226 2,900,271 2,903,377 2,903,378 2,905,571 2,905,572 2,906,639 2,907,673 2,908,588 2,909,444 2,910,376 2,913,352 2,914,420 2,916,394 34: 2,867,542 2,873,207 2,912,343 2,917,403 35: 2,871,139 2,879,175 2,881,089 2,899,333 2,915,414 36: 2,870,040 2,872,340 2,880,110 2,885,302 2,890,969 2,893,890 2,897,090 2,899,334 2,910,377 2,912,344 2,915,415 2,916,395 37: 2,877,133 2,880,111 2,880,112 2,880,113 2,885,303 2,899,335 2,901,375 2,907,674 2,912,345 2,913,353 38: 2,904,447 2,904,448 2,916,396 2,918,386 43: 2,906,640 44: 2,879,176 2,901,376 46: 2,867,543 2,868,668 2,868,669 2,874,065 2,885,304 2,892,733 2,892,734 2,900,272 2,904,450 2,908,589 2,911,319 47: 2,872,341 2,876,131 2,880,114	47: 2,882,179 2,884,337 2,888,362 2,897,091 2,897,092 2,898,227 2,898,228 2,898,229 2,907,675 2,917,404 49: 2,871,140 2,871,141 2,890,970 2,899,336 2,913,354 2,918,387 50: 2,872,342 2,873,208 2,875,090 2,876,132 2,880,115 2,898,230 2,906,641 51: 2,872,343 2,873,209 2,890,134 2,900,273 2,912,346 2,916,397 2,918,388 52: 2,875,091 53: 2,897,093 54: 2,876,133 2,882,180 2,900,274 2,910,375 56: 2,882,181 2,888,363 2,888,363 2,906,642 2,906,643 57: 2,895,848 2,905,573 60: 2,872,344 61: 2,877,134 2,881,090 2,902,386 62: 2,870,041 2,872,345 2,875,092 2,893,891 2,895,849 2,897,094 2,898,231 2,914,421 63: 2,900,275 64: 2,878,139 2,882,182 2,886,465 2,892,735 2,899,337 2,908,590 2,911,320 2,912,347 2,919,205 65: 2,872,346 2,872,347 2,874,066 2,876,134 2,876,136 2,878,140 2,886,466 2,890,971 2,899,338 2,905,574 2,910,379 2,915,416 2,916,396 2,917,405 66: 2,910,380 67: 2,875,093 68: 2,884,338 2,914,422 2,916,398 2,918,389 68. 5: 2,882,183 2,887,403 2,903,379 2,907,677 2,913,355 70: 2,874,067 2,877,135 2,897,095 2,897,096 2,901,377 2,902,388 2,872,348 2,878,141 2,881,091 2,904,450 2,906,644 2,907,678 2,907,679 2,907,680 2,918,390	72: 2,874,068 2,880,116 2,884,339 2,888,364 2,889,235 2,889,236 2,891,876 2,893,892 2,902,389 2,907,675 73: 2,901,378 75: Re.24,702 2,873,210 2,887,404 2,903,380 2,910,381 2,918,391 76: 2,876,135 2,877,136 2,878,142 2,879,177 2,890,134 2,884,340 2,886,467 2,888,365 2,895,850 2,909,445 2,911,321 2,911,322 2,912,348 2,919,206 81: 2,887,405 92: 2,907,681 93: Re.24,602 2,877,137 2,877,138 2,878,143 2,881,092 2,883,302 2,884,341 2,888,366 2,893,893 2,893,894 2,895,851 2,900,277 94: 2,868,670 2,872,349 2,875,092 2,879,179 2,881,093 2,889,237 2,910,382 2,914,423 96: Re.24,601 97: 2,867,544 2,868,671 2,877,139 2,904,451 98: 2,900,278 2,918,392 100: 2,898,232 2,917,406 102: 2,867,545 2,871,142 2,879,180 2,897,097 2,899,339 2,910,383 2,914,423 103: 2,873,211 2,873,212 2,874,069 2,877,140 2,889,238 2,894,855 2,898,233 2,912,349 2,912,350 2,917,407 2,917,408 106: 2,872,350 2,893,895 2,904,452 2,912,351 2,914,424 2,919,207 107: 2,867,546 2,874,070 2,876,137 2,881,094 2,886,468 2,886,469 2,887,406 2,887,407 2,890,135 2,895,852 2,897,098 2,898,234 2,898,235 2,916,400 111: 2,883,303 2,914,425 2,918,393 2,919,208	114: 2,875,096 2,894,856 115: 2,875,094 118: 2,873,213 2,881,095 2,893,896 2,894,857 2,914,426 121: 2,868,672 2,872,351 2,885,305 2,917,409 122: 2,877,141 2,881,096 2,882,184 2,884,342 2,885,306 2,885,307 2,907,682 123: 2,874,071 2,919,209 2,919,210 124: 2,898,236 2,901,379 2,908,591 126: 2,884,343 2,886,470 2,911,321 2,911,322 2,912,348 2,919,211 127: 2,871,143 2,875,095 2,906,645 129: 2,901,380 130: 2,872,352 2,872,353 2,872,354 2,873,214 2,874,072 2,874,073 2,876,138 2,884,344 2,915,417 131: 2,876,139 132: 2,873,215 2,902,390 2,910,384 134: 2,916,402 135. 5: 2,911,324 136: 2,867,548 2,870,042 2,872,355 2,891,877 2,900,279 2,907,683 2,911,325 137: 2,867,549 2,868,673 2,881,097 2,893,897 138: 2,909,446 138. 5: 2,868,674 2,875,097 2,899,340 138. 8: 2,868,675 2,868,676 2,870,043 2,870,044 2,870,045 2,871,144 2,875,098 2,875,099 2,876,067 2,886,471 2,887,408 2,888,367 2,891,878 2,892,737 2,897,099 2,897,100 2,898,237 2,899,341 2,904,452 2,903,381 2,910,385 2,912,352 2,917,410 2,918,394 139. 4: 2,886,472 2,887,409 2,898,238 2,911,326 2,917,411 2,917,412 139. 5: 2,871,145 2,872,356 2,874,074 2,875,100 2,876,140 2,876,141 2,878,144 2,882,185 2,885,308 2,897,101
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## Class 117—Con.

139. 5: 2, 904, 454  
2, 909, 447  
2, 914, 427  
140: 2, 874, 075  
2, 915, 418  
141: 2, 909, 448  
2, 915, 419  
142: 2, 887, 410  
2, 911, 327  
143: 2, 886, 473  
2, 890, 136  
2, 890, 137  
2, 903, 382  
144: 2, 904, 455  
2, 906, 646  
145: 2, 878, 145  
2, 888, 368  
2, 888, 369  
2, 902, 391  
2, 909, 449  
148: 2, 875, 101  
149: 2, 907, 684  
152: 2, 875, 102  
155: 2, 895, 853  
2, 913, 356  
161: 2, 879, 181  
2, 882, 186  
2, 883, 304  
2, 886, 474  
2, 893, 898  
2, 898, 239  
2, 909, 450  
2, 918, 395  
162: 2, 881, 098  
169: 2, 877, 142  
2, 897, 102  
2, 909, 451  
200: 2, 867, 550  
2, 870, 046  
2, 872, 357  
2, 872, 358  
2, 873, 216  
2, 874, 076  
2, 875, 103  
2, 880, 117  
2, 883, 305  
2, 885, 309  
2, 887, 411  
2, 906, 647  
2, 908, 592  
2, 912, 353  
2, 912, 354  
2, 913, 357  
2, 913, 358  
201: 2, 867, 551  
2, 873, 217  
2, 874, 077  
2, 879, 182  
2, 880, 118  
2, 880, 119  
2, 884, 345  
2, 888, 370  
2, 891, 879  
2, 908, 593  
2, 908, 594  
202: 2, 870, 047  
205: 2, 875, 104  
2, 883, 306  
207: 2, 888, 371  
211: 2, 876, 142  
2, 877, 143  
2, 887, 412  
2, 888, 372  
2, 894, 858  
2, 898, 240  
2, 906, 648  
2, 917, 413  
212: 2, 886, 475  
2, 886, 476  
2, 887, 413  
2, 889, 239  
2, 891, 880  
2, 898, 241  
2, 898, 242  
2, 902, 392  
2, 904, 456  
2, 908, 595  
213: 2, 872, 359  
215: 2, 877, 144  
2, 900, 280  
2, 919, 212  
216: 2, 883, 307  
2, 900, 281  
217: 2, 867, 552  
2, 879, 183  
2, 882, 187  
2, 914, 428  
218: 2, 875, 105  
2, 903, 383  
2, 909, 452  
2, 911, 328  
221: 2, 879, 184  
2, 901, 381

221: 2, 917, 414  
222: 2, 873, 218  
223: 2, 879, 185  
2, 895, 854  
2, 898, 243  
2, 917, 415  
224: 2, 919, 213  
226: 2, 880, 120  
227: 2, 873, 219  
2, 877, 145  
2, 881, 099  
2, 885, 310  
2, 900, 282  
228: 2, 881, 100  
229: 2, 904, 457  
230: 2, 893, 899  
2, 906, 649  
231: 2, 914, 429  
2, 914, 430  
232: 2, 867, 553  
2, 883, 308  
2, 893, 900  
2, 898, 244  
2, 916, 403  
2, 917, 416

## Class 118

1: 2, 881, 731  
2, 894, 481  
2, 901, 999  
2: 2, 874, 673  
2, 892, 438  
2, 900, 950  
3: 2, 896, 569  
5: 2, 885, 995  
2, 912, 959  
2, 912, 960  
6: 2, 890, 675  
2, 892, 439  
2, 903, 994  
7: 2, 887, 087  
8: 2, 868, 157  
2, 906, 235  
10: 2, 869, 508  
2, 869, 509  
2, 872, 893  
2, 872, 894  
11: 2, 880, 694  
2, 893, 348  
2, 894, 482  
2, 902, 971  
2, 911, 941  
2, 915, 037  
13: 2, 870, 736  
2, 897, 776  
14: 2, 880, 695  
16: 2, 889, 801  
18: 2, 885, 996  
2, 903, 995  
2, 903, 996  
23: 2, 903, 997  
24: 2, 868, 158  
2, 878, 776  
2, 898, 881  
33: 2, 881, 732  
2, 884, 893  
34: 2, 873, 715  
38: 2, 897, 777  
41: 2, 899, 926  
43: 2, 876, 730  
2, 878, 777  
2, 890, 676  
44: 2, 876, 731  
47: 2, 876, 732  
48: 2, 884, 894  
2, 887, 088  
2, 887, 089  
2, 887, 984  
2, 896, 570  
2, 897, 778  
2, 902, 972  
49: 2, 879, 739  
2, 879, 740  
2, 883, 959  
2, 885, 997  
2, 909, 148  
2, 910, 039  
49. 1: 2, 884, 895  
2, 906, 236  
2, 909, 149  
50: 2, 894, 483  
2, 898, 882  
2, 910, 959  
55: 2, 873, 716  
56: 2, 872, 440  
2, 902, 973  
57: 2, 889, 802  
2, 891, 503  
2, 910, 040  
2, 917, 021  
58: 2, 894, 484  
59: 2, 910, 041  
60: 2, 876, 724

63: 2, 889, 803  
2, 893, 349  
2, 906, 237  
66: 2, 906, 238  
73: 2, 872, 895  
102: 2, 899, 927  
103: 2, 888, 901  
105: 2, 910, 042  
106: 2, 887, 985  
108: 2, 867, 188  
2, 892, 441  
113: 2, 874, 674  
117: 2, 878, 778  
118: 2, 918, 896  
122: 2, 900, 951  
124: 2, 918, 897  
125: 2, 868, 159  
2, 875, 725  
2, 892, 442  
200: 2, 902, 000  
202: 2, 868, 160  
2, 868, 161  
2, 911, 942  
204: 2, 873, 717  
207: 2, 900, 952  
211: 2, 884, 896  
212: 2, 875, 726  
2, 877, 737  
217: 2, 900, 953  
219: 2, 868, 162  
2, 876, 733  
227: 2, 870, 737  
2, 888, 902  
230: 2, 902, 001  
232: 2, 900, 954  
234: 2, 873, 718  
2, 910, 043  
243: 2, 890, 677  
2, 902, 002  
244: 2, 905, 141  
246: 2, 879, 741  
247: 2, 873, 719  
249: 2, 870, 738  
2, 872, 896  
2, 874, 675  
2, 876, 734  
2, 877, 738  
2, 915, 038  
258: 2, 873, 720  
266: 2, 876, 735  
268: 2, 875, 727  
2, 908, 246  
2, 910, 960  
301: 2, 874, 676  
2, 876, 736  
2, 883, 960  
2, 888, 903  
2, 890, 678  
2, 899, 928  
2, 903, 998  
2, 915, 039  
302: 2, 899, 929  
303: 2, 892, 443  
305: 2, 874, 677  
306: 2, 892, 444  
2, 895, 449  
2, 897, 779  
308: 2, 870, 739  
2, 910, 961  
2, 918, 898  
309: 2, 907, 299  
315: 2, 884, 897  
2, 916, 012  
316: 2, 906, 239  
317: 2, 868, 163  
2, 872, 897  
318: 2, 896, 571  
320: 2, 880, 697  
2, 883, 961  
2, 908, 247  
323: 2, 885, 998  
2, 891, 505  
2, 907, 300  
324: 2, 884, 898  
401: 2, 909, 151  
404: 2, 899, 930  
405: 2, 880, 698  
407: 2, 871, 817  
408: 2, 908, 248  
409: 2, 867, 189  
410: 2, 875, 728  
411: 2, 905, 142  
412: 2, 878, 779  
413: 2, 918, 899  
415: 2, 891, 506  
419: 2, 877, 739  
2, 898, 883  
420: 2, 896, 572  
421: 2, 868, 164  
425: 2, 908, 249  
2, 911, 943  
426: 2, 903, 999  
500: 2, 910, 962  
504: 2, 889, 804

505: 2, 883, 962  
600: 2, 871, 818  
602: 2, 885, 999  
620: 2, 868, 165  
623: 2, 910, 963  
626: 2, 869, 510  
2, 894, 485  
627: 2, 889, 805  
630: 2, 877, 740  
637: 2, 871, 819  
2, 873, 721  
2, 876, 737  
2, 880, 696  
2, 880, 699  
2, 892, 445  
2, 892, 446  
2, 894, 486  
2, 902, 974  
2, 904, 000  
2, 910, 964  
2, 911, 944  
2, 911, 945  
2, 918, 900  
638: 2, 869, 511  
641: 2, 906, 240  
642: 2, 890, 679  
643: 2, 868, 166  
2, 889, 806

## Class 119

1: 2, 883, 963  
2, 887, 090  
2, 894, 487  
2, 897, 780  
2, 910, 044  
2: 2, 890, 680  
5: 2, 871, 820  
2, 879, 742  
2, 905, 144  
14. 03: 2, 904, 001  
14. 05: 2, 868, 167  
2, 880, 700  
2, 895, 450  
14. 07: 2, 871, 821  
14. 08: 2, 887, 986  
14. 09: 2, 873, 722  
14. 11: 2, 910, 965  
14. 12: 2, 893, 350  
14. 18: 2, 873, 723  
14. 27: 2, 886, 000  
14. 36: 2, 896, 577  
14. 39: 2, 878, 780  
14. 43: 2, 902, 975  
14. 46: 2, 869, 512  
2, 883, 964  
14. 54: 2, 896, 574  
15: 2, 881, 733  
2, 900, 955  
2, 900, 956  
15. 5: 2, 868, 168  
2, 888, 904  
17: 2, 898, 884  
2, 914, 022  
18: 2, 882, 857  
2, 891, 507  
19: 2, 897, 781  
2, 902, 976  
20: 2, 881, 734  
23: 2, 876, 738  
2, 887, 987  
2, 915, 040  
27: 2, 904, 002  
2, 917, 022  
28: 2, 868, 169  
31: 2, 909, 152  
45: 2, 886, 001  
2, 892, 447  
2, 904, 003  
51: 2, 887, 988  
2, 891, 508  
2, 896, 575  
2, 908, 250  
2, 918, 901  
52: 2, 867, 190  
2, 875, 729  
2, 890, 681  
2, 902, 003  
2, 914, 023  
2, 918, 037  
53: 2, 884, 899  
2, 906, 241  
54: 2, 914, 024  
55: 2, 888, 905  
61: 2, 874, 678  
71: 2, 905, 143  
72: 2, 878, 781  
73: 2, 904, 004  
2, 914, 025  
74: 2, 872, 898  
75: 2, 891, 509  
2, 911, 946  
77: 2, 886, 002  
78: 2, 871, 822

81: Re. 24, 595  
2, 879, 743  
82: 2, 869, 513  
96: 2, 904, 005  
99: 2, 895, 451  
100: 2, 909, 153  
103: 2, 904, 006  
2, 914, 026  
106: 2, 880, 701  
109: 2, 889, 807  
2, 909, 154  
2, 911, 947  
130: 2, 891, 504  
143: 2, 882, 858  
2, 889, 808  
157: 2, 883, 965  
2, 888, 906  
2, 892, 448  
2, 904, 007  
2, 912, 961  
159: 2, 900, 957

## Class 120

1: 2, 870, 740  
2, 896, 576  
9: 2, 907, 301  
14. 1: 2, 911, 948  
14. 5: 2, 883, 966  
18: 2, 881, 739  
19: 2, 902, 977  
22: 2, 899, 931  
28: 2, 893, 351  
31: 2, 877, 741  
33: 2, 918, 038  
34: 2, 905, 145  
2, 906, 242  
36: 2, 876, 739  
2, 891, 510  
2, 917, 023  
42: 2, 871, 823  
42. 01: 2, 916, 013  
42. 03: Re. 24, 649  
2, 868, 170  
2, 870, 741  
2, 881, 735  
2, 881, 736  
2, 882, 859  
2, 884, 900  
2, 896, 577  
2, 898, 885  
2, 898, 886  
2, 898, 887  
2, 876, 744  
2, 905, 146  
2, 905, 147  
2, 907, 302  
2, 916, 014  
42. 06: 2, 876, 740  
42. 1: 2, 883, 968  
2, 910, 045  
42. 15: 2, 879, 744  
2, 904, 008  
42. 16: 2, 874, 679  
2, 914, 028  
42. 18: 2, 868, 171  
42. 4: 2, 871, 824  
2, 877, 744  
2, 880, 702  
2, 883, 969  
2, 891, 511  
2, 911, 949  
2, 914, 027  
42. 6: 2, 886, 003  
2, 898, 888  
2, 898, 889  
2, 899, 936  
2, 900, 960  
44: 2, 915, 041  
45. 4: 2, 870, 742  
2, 878, 782  
2, 902, 978  
45. 6: 2, 872, 899  
2, 868, 172  
46: 2, 871, 825  
2, 880, 703  
2, 882, 860  
47: 2, 898, 173  
2, 914, 029  
2, 917, 024  
47. 4: 2, 883, 969  
48: 2, 878, 783  
50: 2, 881, 737  
51: 2, 888, 905  
2, 905, 148  
57: 2, 889, 810  
90: 2, 876, 741  
91: 2, 895, 452  
92: 2, 895, 453  
96: 2, 872, 900  
2, 893, 352  
2, 899, 937  
2, 868, 174  
2, 872, 903  
2, 876, 746  
2, 914, 030

108: 2, 899, 932  
112: 2, 906, 243

## Class 121

1: 2, 869, 514  
2, 918, 039  
7: 2, 910, 046  
9: 2, 914, 031  
10: 2, 871, 826  
2, 882, 861  
2, 886, 004  
2, 907, 303  
11: 2, 875, 730  
2, 905, 149  
13: 2, 872, 901  
2, 875, 731  
2, 881, 738  
2, 899, 933  
2, 899, 934  
2, 900, 959  
2, 914, 032  
16: 2, 917, 025  
17: 2, 867, 191  
2, 872, 902  
2, 884, 901  
2, 887, 989  
2, 911, 951  
20: 2, 876, 742  
2, 881, 739  
21: 2, 870, 743  
2, 896, 579  
2, 899, 935  
2, 914, 033  
25: 2, 906, 244  
2, 909, 155  
30: 2, 890, 682  
2, 892, 449  
2, 894, 488  
2, 897, 782  
2, 906, 245  
32: 2, 889, 811  
33: 2, 884, 902  
35: 2, 896, 580  
36: Re. 24, 639  
2, 894, 489  
38: 2, 867, 192  
2, 870, 744  
2, 871, 827  
2, 875, 732  
2, 875, 733  
2, 876, 743  
2, 876, 744  
2, 876, 745  
2, 877, 745  
2, 879, 745  
2, 884, 903  
2, 886, 005  
2, 886, 006  
42. 1: 2, 883, 968  
2, 910, 045  
42. 15: 2, 879, 744  
2, 904, 008  
42. 16: 2, 874, 679  
2, 914, 028  
42. 18: 2, 868, 171  
42. 4: 2, 871, 824  
2, 877, 744  
2, 880, 702  
2, 883, 969  
2, 891, 511  
2, 911, 949  
2, 914, 027  
42. 6: 2, 886, 003  
2, 898, 888  
2, 898, 889  
2, 899, 936  
2, 900, 960  
44: 2, 915, 041  
45. 4: 2, 870, 742  
2, 878, 782  
2, 902, 978  
45. 6: 2, 872, 899  
2, 868, 172  
46: 2, 871, 825  
2, 880, 703  
2, 882, 860  
47: 2, 898, 173  
2, 914, 029  
2, 917, 024  
47. 4: 2, 883, 969  
48: 2, 878, 783  
50: 2, 881, 737  
51: 2, 888, 905  
2, 905, 148  
57: 2, 889, 810  
90: 2, 876, 741  
91: 2, 895, 452  
92: 2, 895, 453  
96: 2, 872, 900  
2, 893, 352  
2, 899, 937  
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2, 872, 903  
2, 876, 746  
2, 914, 030

40: 2, 879, 748  
2, 882, 862  
2, 887, 991  
2, 891, 514  
2, 895, 454  
2, 896, 583  
2, 897, 786  
2, 908, 251  
41: 2, 867, 193  
2, 867, 194  
2, 870, 745  
2, 871, 828  
2, 871, 829  
2, 871, 830  
2, 873, 724  
2, 874, 681  
2, 874, 682  
2, 875, 734  
2, 877, 742  
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2, 880, 706  
2, 882, 863  
2, 882, 864  
2, 883, 970  
2, 883, 971  
2, 884, 906  
2, 884, 906  
2, 886, 008  
2, 886, 009  
2, 886, 010  
2, 889, 812  
2, 889, 813  
2, 891, 515  
2, 893, 356  
2, 894, 490  
2, 894, 491  
2, 894, 492  
2, 895, 455  
2, 896, 584  
2, 896, 585  
2, 896, 586  
2, 897, 787  
2, 897, 788  
2, 897, 789  
2, 898, 590  
2, 900, 962  
2, 900, 963  
2, 902, 008  
2, 902, 979  
2, 905, 152  
2, 906, 247  
2, 908, 252  
2, 909, 156  
2, 909, 157  
2, 910, 048  
2, 910, 967  
2, 911, 954  
2, 911, 954  
2, 912, 962  
2, 915, 044  
2, 915, 045  
2, 916, 016  
2, 917, 027  
2, 918, 041  
2, 918, 904  
42: 2, 878, 785  
2, 910, 968  
2, 910, 969  
43: 2, 918, 905  
44: 2, 880, 707  
2, 891, 516  
2, 896, 587  
2, 897, 790  
2, 898, 891  
2, 900, 964  
2, 902, 005  
2, 904, 010  
2, 906, 248  
2, 907, 304  
2, 910, 047  
2, 910, 966  
2, 911, 952  
2, 915, 042  
2, 915, 043  
2, 916, 015  
2, 917, 026  
2, 918, 040  
2, 918, 902  
2, 918, 903  
39: 2, 884, 904  
2, 893, 355  
2, 899, 937  
40: 2, 868, 174  
2, 872, 903  
2, 876, 746  
2, 878, 784  
46. 4: 2, 893, 357  
46. 5: 2, 868, 176  
2, 872, 905  
2, 878, 786  
2, 879, 748  
2, 880, 708  
2, 881, 740  
2, 882, 866  
2, 882, 867  
2, 884, 907  
2, 886, 011  
2, 889, 814  
2, 889, 815  
2, 891, 517



46. 5: 2,891,518 2,892,450 2,896,588 2,896,589 2,897,792 2,899,939 2,908,253 2,910,050 2,910,051 2,910,970 2,910,971 2,914,034 2,914,035 2,915,047 2,916,018 2,916,019 2,918,042 2,918,906 48: 2,869,515 2,880,817 2,904,011 68: 2,871,831 70: 2,918,907 73: 2,869,516 85: 2,902,980 86: 2,870,747 2,873,725 2,899,940 2,899,941 90: 2,904,012 2,911,955 93: 2,910,052 2,915,048 95: 2,882,868 97: 2,870,748 2,902,009 98: 2,911,956 119: 2,878,787 2,896,590 123: 2,868,177 2,876,747 132: 2,882,869 147: 2,917,028 148: 2,918,908 150: 2,870,749 2,878,788 2,887,093 2,914,036 2,914,037 158: 2,917,029 164: 2,882,870 2,887,094 2,889,818 179: 2,884,908 194: 2,893,358 2,914,038 2,916,020	240: 2,887,992 2,896,592 2,897,794 336: 2,904,016 351: 2,918,044 356: 2,898,982 2,902,981 379: 2,879,750 2,907,305 2,914,039 406: 2,869,517 2,877,746 2,879,751 2,895,456 2,897,795 2,907,306 2,877,747 435: 2,870,751 451: 2,904,017 2,904,018 459: 2,872,908 2,876,749 2,877,748 2,881,742 476: 2,914,040 478: 2,868,180 2,869,518 2,869,519 2,871,833 2,878,791 2,878,792 2,882,871 2,884,909 2,886,013 2,897,796 2,897,797 2,902,982 2,905,154 2,905,155 2,905,156 2,918,910 479: 2,869,520 2,875,736 2,884,910 2,899,942 480: 2,879,752 481: 2,869,521 2,891,522 485: 2,905,157 494: 2,916,021 499: 2,871,834 504: 2,916,022 510: 2,883,973 2,884,911 2,894,494	32: 2,887,995 2,891,523 2,893,360 2,894,495 2,897,800 2,898,894 2,900,966 2,902,011 2,904,020 2,907,308 2,908,259 2,909,160 2,910,054 2,911,959 2,914,042 2,914,044 2,916,023 2,917,031 2,918,911 41: 2,881,744 2,911,960 41.04: 2,886,016 2,896,594 41.05: 2,902,985 2,904,021 41.1: 2,871,836 2,905,158 41.11: 2,911,961 2,911,962 2,916,024 41.12: 2,877,751 2,879,755 2,890,687 2,897,801 2,902,986 2,912,963 41.16: 2,902,987 41.27: 2,878,794 41.31: 2,898,895 41.33: 2,898,896 41.38: 2,898,897 41.39: 2,911,963 41.49: 2,896,595 2,897,802 41.5: 2,890,686 41.51: 2,887,097 41.6: 2,893,361 41.61: 2,909,161 41.65: 2,911,964 41.72: 2,895,458 2,914,045 41.73: 2,909,162 41.86: Re.24,650 2,902,012 2,907,309	90: Re.24,633 2,869,525 2,870,755 2,870,756 2,870,757 2,871,837 2,871,838 2,871,839 2,872,909 2,872,910 2,873,729 2,873,730 2,874,684 2,874,685 2,875,740 2,877,752 2,878,795 2,878,796 2,880,710 2,880,711 2,880,712 2,881,745 2,882,876 2,882,877 2,882,878 2,884,914 2,887,098 2,887,996 2,891,525 2,897,805 2,902,014 2,902,015 2,904,024 2,905,160 2,905,161 2,907,310 2,907,311 2,907,312 2,908,260 2,908,261 2,908,262 2,915,051 2,917,033 92: 2,915,052 97: 2,868,182 2,875,741 2,879,756 2,893,363 98: 2,890,689 2,895,460 2,908,263 99: 2,873,731 2,891,526 2,899,947 2,906,251 2,876,753 2,883,975 2,908,264 103: 2,867,196 2,878,797 2,887,997 2,887,998 2,887,999 2,897,806 2,897,807 2,910,055 2,910,974 2,914,050 117: 2,867,197 2,871,840 2,876,754 2,905,162 119: 2,868,183 2,869,526 2,869,527 2,870,758 2,871,841 2,871,842 2,871,843 2,871,844 2,873,732 2,875,742 2,876,755 2,876,756 2,880,713 2,882,879 2,882,880 2,882,881 2,883,976 2,884,915 2,884,916 2,888,913 2,890,690 2,891,527 2,891,528 2,891,529 2,893,364 2,893,365 2,894,498 2,894,499 2,895,461 2,896,598 2,899,948 2,899,949	119: 2,899,950 2,899,951 2,900,967 2,906,252 2,906,253 2,911,966 2,914,051 2,915,053 2,916,027 2,918,046 2,918,912 2,918,913 120: 2,872,911 2,896,599 2,900,968 2,902,988 122: 2,877,753 2,882,882 2,886,019 2,888,001 2,911,967 124: 2,876,757 2,886,020 2,889,820 127: 2,878,798 2,881,746 2,886,021 2,886,022 2,914,052 133: 2,884,917 2,895,462 136: 2,881,747 139: 2,867,198 2,871,845 2,872,912 2,877,754 2,884,918 2,884,919 2,891,530 2,892,453 2,894,500 2,895,463 2,895,464 2,898,899 2,898,900 2,898,901 2,902,016 2,902,017 2,910,696 2,910,975 2,914,053 2,914,054 2,916,028 2,916,029 2,917,034 140: 2,867,199 2,868,184 2,869,528 2,869,529 2,870,759 2,871,846 2,875,743 2,879,754 2,880,714 2,882,883 2,882,884 2,886,023 2,887,099 2,888,002 2,890,691 2,890,692 2,891,531 2,891,532 2,891,533 2,893,366 2,893,367 2,895,465 2,896,600 2,897,808 2,897,809 2,899,952 2,900,969 2,902,018 2,902,019 2,902,989 2,904,025 2,907,313 2,908,265 2,910,056 2,910,057 2,910,976 2,914,055 2,914,056 2,917,035 2,918,048 142.5: 2,916,030 143: 2,906,254 145: 2,884,920 146.5: 2,872,945 2,888,507 2,894,051	146.5: 2,902,526 148: 2,871,280 2,876,270 2,878,298 2,885,458 2,899,478 2,902,527 2,874,202 2,898,392 2,915,574 169: 2,870,760 2,872,496 2,878,299 2,899,479 2,904,610 2,867,200 2,869,531 2,875,744 2,876,758 2,877,755 2,879,757 2,881,748 2,887,100 2,888,914 2,892,454 2,893,368 2,893,369 2,893,370 2,894,501 2,895,466 2,896,601 2,896,602 2,899,953 2,900,970 2,904,026 2,904,027 2,905,163 2,905,164 2,905,165 2,909,166 2,912,966 2,912,967 2,916,031 180: 2,868,185 2,882,885 2,904,028 2,868,186 185: 2,881,749 2,915,054 188: Re.24,593 2,868,187 2,868,188 2,869,532 2,876,759 2,878,799 2,881,750 2,882,886 2,893,371 2,899,954 2,900,971 2,906,255 2,917,036 190: 2,874,686 191: 2,873,733 2,878,800 2,881,751 2,886,024 2,887,101 193: 2,883,977 2,902,020 195: 2,867,201 2,867,202 2,873,734 2,875,745 2,875,746 2,877,756 2,879,758 2,896,603 2,902,021 196: 2,867,203 2,889,821 2,898,902 2,902,022 2,894,502 198: 2,879,759 2,918,915 2,898,903 2,902,023 2,908,266 2,878,801 11: 2,881,752 2,886,025 12: 2,888,003 13: 2,900,972 19: 2,878,802 2,917,037 20: 2,876,760 22: 2,896,604 23: 2,894,503 2,918,049	24: 2,900,973 2,909,167 25: 2,918,050 26: 2,869,533 27: 2,888,004 29: 2,917,038 30: 2,905,166 2,910,058 2,905,167 Class 125 6: 2,867,204 11: 2,870,761 2,872,913 2,877,758 2,882,887 2,875,744 2,889,822 2,891,534 2,894,504 2,897,810 2,900,974 2,902,024 2,902,025 2,904,029 2,907,314 2,907,315 2,909,168 2,914,057 2,914,058 2,896,601 12: 2,886,026 13: 2,874,687 2,893,372 2,909,169 16: 2,896,605 20: 2,906,256 21: Re.24,660 2,869,534 2,876,761 2,912,968 23: 2,867,205 2,874,688 2,881,753 2,882,888 2,888,915 2,888,916 2,899,823 2,912,969 2,912,970 26: 2,884,921 33: 2,872,914 2,873,735 2,880,715 2,905,168 35: 2,890,693 39: 2,890,694 2,912,971 Class 126 9: 2,893,373 2,897,811 2,907,316 2,917,039 19: 2,897,812 21: 2,918,916 24: 2,878,803 25: 2,868,189 2,902,026 2,904,030 2,909,170 2,912,972 2,918,051 30: 2,912,973 37: 2,879,760 38: 2,867,206 2,896,606 39: 2,883,978 2,897,813 40: 2,879,761 41: 2,867,207 2,868,190 2,880,716 2,907,317 43: 2,877,759 59.5: 2,876,762 2,902,990 2,902,991 2,912,974 2,914,059 90: 2,883,979 93: 2,902,027 2,876,763 110: 2,869,535 2,879,762 2,880,717 2,891,535 2,893,374 2,897,814 2,898,904 113: 2,870,762 2,887,102
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## Class 126—Con.

- 113: 2,888,006  
2,897,815  
116: 2,873,736  
2,880,718  
2,916,032  
127: 2,875,747  
146: 2,882,331  
164: 2,889,824  
165: 2,893,375  
190: 2,877,760  
191: 2,873,737  
194: 2,917,040  
198: 2,889,825  
200: 2,877,761  
2,908,254  
202: 2,881,754  
204: 2,904,031  
208: 2,914,060  
214: 2,887,103  
215: 2,871,848  
261: 2,893,376  
262: 2,896,607  
2,896,608  
2,914,061  
263: 2,914,062  
2,918,052  
270: 2,888,007  
2,909,171  
271: 2,872,915  
2,902,028  
2,906,257  
2,907,318  
271.1: 2,881,755  
271.2: 2,882,889  
2,891,536  
2,904,032  
273: 2,882,890  
276: 2,867,208  
299: 2,908,267  
301: 2,875,748  
304: 2,910,059  
307: 2,918,053  
340: 2,879,763  
343.5: 2,872,916  
2,877,762  
2,877,763  
2,884,922  
2,893,377  
2,907,319  
350: 2,875,749  
360: 2,900,975  
2,902,029  
362: 2,878,804  
2,906,258  
374: 2,896,609  
2,898,905  
381: 2,914,063  
386: 2,909,172  
391: 2,912,975
- Class 127**  
4: 2,873,220  
7: 2,876,143  
28: 2,871,146  
2,919,214  
30: 2,900,283  
2,910,386  
2,910,387  
2,910,388  
32: 2,884,346  
33: 2,894,859  
34: 2,902,393  
37: 2,900,284  
40: 2,871,147  
2,892,737  
2,914,431  
45: 2,885,311  
2,908,596  
46: 2,868,677  
2,890,972  
2,911,329  
47: 2,916,404  
48: 2,890,138  
50: 2,898,245  
2,917,417  
56: 2,899,342  
58: 2,871,148  
63: 2,901,382  
2,910,389  
67: 2,883,309  
71: 2,884,347  
2,907,685  
2,908,597  
2,913,359  
2,916,405
- Class 128**  
1: 2,871,849  
2,886,027  
2,900,976
- 1.2: 2,888,917  
2,917,041  
2: 2,881,756  
2,882,891  
2,888,918  
2,898,906  
2,904,033  
2,905,169  
2,907,320  
2,908,268  
2,918,054  
2.05: 2,869,536  
2,875,750  
2,896,610  
2.07: 2,916,033  
2.1: 2,902,030  
2,896,611  
3: 2,867,209  
2,911,968  
7: 2,907,321  
12: 2,908,269  
20: 2,893,378  
23: 2,883,980  
24: 2,876,764  
2,917,042  
25: 2,886,028  
2,902,455  
2,893,380  
2,915,055  
27: 2,869,537  
2,918,917  
28: 2,872,917  
2,883,981  
29: 2,867,210  
2,869,538  
2,870,763  
2,880,719  
2,881,757  
2,887,104  
2,887,105  
2,893,381  
2,902,992  
2,904,034  
2,904,035  
2,907,322  
2,908,270  
2,914,064  
2,915,056  
30: 2,879,764  
2,891,537  
2,895,467  
2,899,955  
33: 2,869,539  
2,874,689  
2,878,805  
2,880,720  
2,891,538  
2,894,505  
2,895,468  
2,898,907  
2,902,993  
2,904,036  
2,905,170  
2,906,259  
2,907,323  
2,908,271  
2,909,173  
2,910,060  
2,910,977  
2,915,057  
2,917,043  
38: 2,893,382  
39: 2,880,721  
41: Re.24,630  
2,918,055  
45: 2,914,065  
49: 2,867,211  
53: 2,905,171  
56: 2,876,765  
57: 2,884,923  
2,889,826  
2,895,469  
2,895,470  
2,909,174  
60: 2,868,191  
2,896,612  
62: 2,888,008  
2,912,976  
64: 2,915,058  
66: 2,904,037  
2,911,969  
2,914,066  
67: 2,879,765  
2,904,038  
68: 2,893,383  
69: 2,886,029  
2,904,039  
70: 2,910,061  
71: 2,907,324  
75: 2,886,030  
2,893,384  
2,911,970  
76: 2,882,892  
2,896,613
- 76.5: 2,875,751  
2,897,816  
2,899,956  
78: 2,871,850  
2,886,031  
2,906,260  
79: 2,868,192  
2,899,957  
80: 2,871,851  
2,871,852  
2,874,690  
2,883,982  
2,886,032  
2,906,261  
2,918,056  
81: 2,918,057  
2,918,058  
2,918,059  
83: 2,875,752  
2,875,753  
83.5: 2,888,919  
84: 2,871,853  
2,875,753  
2,909,175  
87: 2,889,827  
2,904,040  
89: 2,868,193  
91: 2,878,806  
92: 2,874,691  
2,910,978  
94: 2,875,754  
2,916,034  
121: 2,872,918  
127: 2,875,755  
2,916,035  
131: 2,893,385  
2,896,614  
132: 2,891,539  
2,896,615  
2,904,041  
133: 2,895,471  
134: 2,868,194  
2,888,009  
2,912,977  
2,917,044  
136: 2,867,212  
2,882,893  
2,884,924  
138: 2,874,695  
2,868,195  
141: 2,876,766  
2,882,894  
2,882,895  
2,888,920  
2,891,540  
2,891,541  
2,897,817  
2,898,908  
2,905,172  
2,908,272  
2,910,062  
2,910,979  
2,917,045  
2,918,060  
142: 2,871,854  
2,872,919  
2,872,920  
2,872,921  
2,872,922  
2,874,696  
2,875,756  
2,878,807  
2,882,896  
2,882,897  
2,886,033  
2,888,100  
2,889,828  
2,892,456  
2,893,386  
2,894,506  
2,894,507  
2,896,616  
2,898,909  
2,900,977  
2,902,031  
2,906,262  
2,906,263  
2,914,067  
2,915,059  
2,918,061  
2,918,918  
143: 2,888,011  
144: 2,881,758  
2,910,063  
145: 2,896,617  
2,895,474  
146: 2,868,196  
2,874,693  
2,875,757  
2,875,759  
2,877,764  
2,888,012  
2,893,387  
2,894,508  
2,895,472  
2,902,033
- 146: 2,905,173  
2,912,978  
2,915,060  
148: 2,890,695  
151: 2,876,767  
2,888,921  
152: 2,881,759  
2,910,980  
153: 2,868,197  
2,888,013  
2,918,062  
156: 2,877,765  
2,893,388  
2,896,618  
2,898,910  
2,905,174  
157: 2,875,758  
158: 2,888,014  
159: 2,873,738  
2,904,042  
172: 2,888,922  
173: 2,902,994  
184: 2,872,923  
186: 2,917,048  
188: 2,868,198  
2,869,540  
2,870,764  
2,890,696  
2,891,542  
2,915,061  
192: 2,906,264  
195: 2,871,855  
198: 2,883,983  
2,887,106  
2,906,265  
201: 2,890,697  
203: 2,877,766  
2,912,979  
206: 2,868,199  
214: 2,868,200  
2,876,768  
2,876,769  
2,880,722  
2,882,898  
2,884,924  
2,887,107  
2,893,389  
2,896,619  
2,898,912  
2,907,325  
2,910,981  
2,912,980  
2,915,062  
2,915,063  
215: 2,870,765  
2,875,760  
2,876,770  
2,876,771  
2,895,476  
2,896,624  
2,896,625  
2,900,979  
2,902,036  
2,906,266  
2,914,068  
2,918,064  
284: 2,868,205  
2,890,700  
2,895,477  
2,897,818  
2,897,819  
2,898,912  
2,905,176  
2,910,982  
2,916,037  
285: Re.24,666  
2,880,726  
2,917,049  
287: 2,893,393  
2,896,626  
2,914,069  
288: 2,880,727  
289: 2,871,859  
2,881,761  
2,888,926  
2,894,511  
2,896,627  
2,900,980  
2,902,037  
2,902,038  
2,905,177  
2,918,065  
291: 2,890,701  
2,891,545  
2,904,046  
293: 2,909,176  
2,911,974  
295: 2,873,740  
2,877,769  
2,883,985  
2,891,546  
2,904,047  
296: 2,898,913
- 221: 2,868,201  
2,899,959  
2,899,960  
2,904,045  
224: 2,870,767  
227: 2,873,739  
2,874,696  
2,879,767  
2,887,109  
2,917,047  
232: 2,869,545  
234: 2,902,035  
248: 2,879,768  
2,891,543  
249: 2,898,911  
2,910,064  
251: 2,881,760  
2,888,925  
2,908,273  
252: 2,868,202  
2,868,203  
2,876,772  
2,876,773  
2,889,829  
2,917,048  
253: 2,876,774  
2,893,392  
260: 2,872,925  
2,888,016  
2,916,036  
261: 2,869,546  
263: 2,879,769  
2,879,770  
264: 2,882,900  
265: 2,911,973  
270: 2,877,767  
2,884,925  
2,905,175  
271: 2,875,762  
272: 2,876,775  
2,878,808  
2,882,902  
2,886,035  
2,894,510  
2,895,475  
2,896,622  
2,898,912  
275: 2,886,036  
2,915,065  
276: 2,900,978  
278: 2,890,699  
280: 2,891,544  
283: 2,868,204  
2,869,547  
2,869,548  
2,874,697  
2,877,768  
2,895,476  
2,896,624  
2,896,625  
2,900,979  
2,902,036  
2,906,266  
2,914,068  
2,918,064  
284: 2,868,205  
2,890,700  
2,895,477  
2,897,818  
2,897,819  
2,898,912  
2,905,176  
2,910,982  
2,916,037  
285: Re.24,666  
2,880,726  
2,917,049  
287: 2,893,393  
2,896,626  
2,914,069  
288: 2,880,727  
289: 2,871,859  
2,881,761  
2,888,926  
2,894,511  
2,896,627  
2,900,980  
2,902,037  
2,902,038  
2,905,177  
2,918,065  
291: 2,890,701  
2,891,545  
2,904,046  
293: 2,909,176  
2,911,974  
295: 2,873,740  
2,877,769  
2,883,985  
2,891,546  
2,904,047  
296: 2,898,913
- 303: 2,868,206  
2,873,741  
2,874,698  
2,876,776  
2,878,809  
2,888,927  
2,905,178  
303.15: 2,888,017  
303.17: 2,888,928  
303.18: 2,894,512  
304: 2,876,777  
2,898,914  
305: 2,869,549  
2,873,742  
2,886,037  
2,886,038  
314: 2,896,628  
321: 2,887,110  
2,887,111  
326: 2,880,728  
2,898,915  
2,910,066  
327: 2,882,903  
2,893,394  
328: 2,898,916  
2,918,919  
334: 2,895,478  
2,897,820  
2,910,067  
335.5: 2,909,177  
337: 2,881,762  
339: 2,869,550  
2,891,547  
2,910,983  
346: 2,876,778  
349: 2,892,458  
2,893,395  
2,896,629  
2,912,981  
350: 2,867,213  
2,898,917  
351: 2,883,986  
2,912,982  
352: 2,868,207  
355: 2,867,214  
2,881,763  
360: 2,888,929  
361: 2,917,050  
379: 2,869,551  
395: 2,884,926  
399: 2,867,215  
404: 2,880,729  
410: 2,872,926  
417: 2,887,112  
2,895,479  
418: 2,882,904  
419: 2,899,178  
2,915,066  
425: 2,908,275  
426: 2,918,920  
429: 2,867,216  
2,888,930  
432: 2,875,763  
2,878,810  
435: 2,877,770  
2,877,771  
444: 2,880,730  
451: 2,884,927  
453: 2,895,480  
454: 2,880,731  
2,896,630  
2,907,331  
456: 2,869,552  
460: 2,890,702  
462: 2,883,987  
464: 2,892,459  
2,893,396  
465: 2,899,961  
2,900,981  
469: 2,912,983  
2,915,067  
470: 2,883,988  
2,912,984  
475: 2,880,732  
2,884,928  
2,896,631  
476: 2,895,481  
2,900,982  
477: 2,875,764  
479: 2,897,821  
482: 2,882,905  
2,888,931  
2,900,983  
483: 2,881,764  
2,882,906  
2,897,822  
484: 2,896,632  
2,911,975  
485: 2,891,548  
489: 2,881,765  
2,912,985  
491: 2,887,113  
492: 2,882,907  
2,908,276  
493: Re.24,640
- 498: 2,869,554  
505: 2,869,553  
510: 2,870,768  
519: 2,899,962  
520: 2,910,984  
522: 2,889,830  
2,917,051  
524: 2,873,743  
2,879,771  
2,891,549  
525: 2,887,114  
2,898,918  
2,908,277  
526: 2,896,633  
528: 2,875,765  
2,876,779  
530: 2,905,179  
533: 2,869,555  
535: 2,891,550  
2,891,551  
536: 2,878,811  
540: 2,904,048  
2,905,180  
541: 2,893,397  
542: 2,870,769  
2,878,812  
2,897,823  
2,899,963  
546: 2,888,018  
547: 2,867,217  
548: 2,872,927  
2,875,766  
2,899,964  
554: 2,873,744  
2,880,733  
556: 2,900,984  
558: 2,896,634  
2,914,070  
563: 2,895,482  
568: 2,896,635
- Class 129**  
1: 2,878,813  
2,879,772  
2,889,831  
2,891,552  
2,906,267  
2,910,068  
2,912,986  
5: 2,879,773  
8: 2,886,039  
2,895,483  
11: 2,894,513  
12: 2,871,860  
2,882,908  
13: 2,895,484  
2,902,039  
16: 2,871,861  
2,871,862  
2,876,780  
2,888,932  
2,895,485  
2,900,985  
2,910,069  
16.1: 2,908,278  
2,918,921  
16.7: 2,874,699  
2,877,772  
2,883,989  
2,889,832  
16.8: 2,878,814  
2,881,766  
2,886,040  
2,910,985  
2,911,976  
17: 2,875,767  
2,891,553  
2,907,332  
19: 2,918,066  
20: 2,888,933  
2,902,996  
23: 2,878,815  
2,891,554  
2,906,268  
24: 2,871,863  
2,878,816  
2,878,817  
2,879,775  
2,888,934  
2,898,919  
2,909,179  
2,915,068  
26: 2,887,115  
28: 2,906,269  
29: 2,877,773  
2,917,052  
38: 2,898,920  
41: 2,911,977



**Class 130**

5: 2,905,181  
6: 2,898,921  
27: 2,867,218  
2,875,768  
2,880,734  
2,905,182  
2,906,270  
30: 2,882,909  
2,891,555  
2,902,997  
2,905,183  
2,910,070  
2,911,978  
31: 2,868,208

**Class 131**

2: 2,907,686  
4: 2,911,979  
7: 2,874,700  
9: 2,902,998  
10: 2,867,219  
2,883,900  
2,890,703  
2,893,399  
2,915,069  
2,916,038

11: 2,918,922  
15: 2,914,071  
2,886,041  
2,886,042  
2,890,704  
2,893,400  
17: 2,872,360  
2,887,414  
2,890,973  
2,897,103  
2,905,576  
2,905,576  
21: 2,896,636  
2,909,180  
2,910,071  
31: 2,917,053  
37: 2,870,770  
58: 2,868,209  
59: 2,873,745  
66: 2,868,210  
2,868,211

82: 2,891,556  
84: 2,911,980  
88: 2,891,557  
94: 2,874,701  
2,881,767  
2,886,043  
2,888,935  
2,902,040  
2,904,049  
2,912,987  
2,918,923

108: 2,880,735  
109: 2,873,746  
125: 2,884,929  
126: 2,881,768  
134: 2,900,986  
135: 2,869,556  
2,882,910  
136: 2,867,220  
2,882,911

140: 2,914,072  
144: 2,869,557  
149: 2,873,747  
2,893,401  
2,911,981  
174: 2,868,212  
2,890,705  
2,894,514  
2,897,824  
2,900,987

175: 2,884,930  
2,910,986  
2,911,982  
178: 2,870,771  
182: 2,902,999  
183: 2,909,181  
186: 2,906,271  
187: 2,869,558  
2,910,987

188: 2,893,402  
189: 2,910,072  
194: 2,873,748  
197: 2,908,279  
201: 2,911,983  
207: 2,883,991  
208: 2,872,928

2,881,769  
2,881,770  
2,881,771  
2,881,772  
2,900,988  
2,900,989  
2,904,050  
2,905,184  
2,908,280

208: 2,909,182  
2,911,984  
2,916,039  
2,917,054  
220: 2,884,931  
2,881,773  
2,918,067  
231: 2,910,073  
235: Re.24,721  
2,874,702  
2,882,909  
2,877,774  
2,883,992  
2,891,558  
2,905,185  
2,908,281  
237: 2,868,213  
2,888,936  
242: 2,880,736  
243: 2,894,515  
246: 2,886,044  
2,891,559  
256: 2,867,221  
2,871,864  
2,879,776  
2,907,333  
2,910,074

**Class 132**

1: 2,874,703  
2,906,272  
5: 2,907,334  
7: 2,869,559  
2,871,865  
2,875,769  
2,876,781  
2,889,833  
2,890,934  
2,899,965  
2,906,273  
9: 2,895,486  
31: 2,910,988  
32: 2,893,404  
33: 2,871,866  
2,888,937  
2,905,186  
34: 2,874,704  
2,896,637  
2,903,000  
2,906,274  
39: 2,867,222  
2,903,001  
40: 2,867,223  
2,875,770  
2,888,019  
2,899,966  
2,904,051  
2,910,989  
41: 2,870,772  
2,874,705  
2,878,818  
2,892,460  
2,906,275  
42: 2,874,706  
2,884,932  
2,884,933  
2,896,638  
45: 2,879,777  
2,879,778  
2,915,070  
2,915,071  
46: 2,868,214  
2,883,993  
2,884,934  
2,893,403  
2,910,990  
48: 2,888,938  
2,897,825  
2,898,922  
57: 2,904,052  
73: 2,887,116  
73.5: 2,888,020  
73.6: 2,877,775  
2,880,737  
74.5: 2,876,782  
75.4: 2,918,924  
75.5: 2,890,706  
75.8: 2,917,056  
79: 2,874,707  
2,902,041  
84: 2,868,215  
2,880,738  
2,917,057  
88.5: 2,917,058  
91: 2,872,928  
2,873,749  
92: 2,870,773  
2,872,930  
2,893,405  
93: 2,896,639  
107: 2,887,117  
109: 2,889,835  
110: 2,895,487  
114: 2,897,826

**Class 133**

1: 2,874,703  
2,906,272  
5: 2,907,334  
7: 2,869,559  
2,871,865  
2,875,769  
2,876,781  
2,889,833  
2,890,934  
2,899,965  
2,906,273  
9: 2,895,486  
31: 2,910,988  
32: 2,893,404  
33: 2,871,866  
2,888,937  
2,905,186  
34: 2,874,704  
2,896,637  
2,903,000  
2,906,274  
39: 2,867,222  
2,903,001  
40: 2,867,223  
2,875,770  
2,888,019  
2,899,966  
2,904,051  
2,910,989  
41: 2,870,772  
2,874,705  
2,878,818  
2,892,460  
2,906,275  
42: 2,874,706  
2,884,932  
2,884,933  
2,896,638  
45: 2,879,777  
2,879,778  
2,915,070  
2,915,071  
46: 2,868,214  
2,883,993  
2,884,934  
2,893,403  
2,910,990  
48: 2,888,938  
2,897,825  
2,898,922  
57: 2,904,052  
73: 2,887,116  
73.5: 2,888,020  
73.6: 2,877,775  
2,880,737  
74.5: 2,876,782  
75.4: 2,918,924  
75.5: 2,890,706  
75.8: 2,917,056  
79: 2,874,707  
2,902,041  
84: 2,868,215  
2,880,738  
2,917,057  
88.5: 2,917,058  
91: 2,872,928  
2,873,749  
92: 2,870,773  
2,872,930  
2,893,405  
93: 2,896,639  
107: 2,887,117  
109: 2,889,835  
110: 2,895,487  
114: 2,897,826

133: 2,902,042  
138: 2,883,994  
141: 2,909,183

**Class 134**

1: 2,883,310  
2,884,348  
2,894,860  
2,910,990  
2,911,330  
2,919,215  
2,880,121  
2,911,881  
2,892,738  
2,900,285  
3: Re.24,596  
2,876,144  
2,879,186  
2,883,311  
2,895,856  
2,915,420  
4: 2,913,360  
2,907,687  
2,917,418  
6: 2,881,101  
2,915,421  
7: 2,872,361  
2,895,857  
2,901,383  
8: 2,874,078  
2,876,145  
2,906,650  
2,908,598  
2,915,422  
9: 2,876,146  
2,882,188  
2,915,423  
13: 2,877,146  
20: 2,881,102  
2,904,458  
22: 2,884,349  
2,894,861  
2,911,331  
2,916,406  
23: 2,877,777  
2,907,688  
25: 2,875,107  
2,910,391  
29: 2,870,048  
2,897,104  
30: 2,916,407  
32: 2,883,312  
38: 2,898,246  
41: 2,878,146  
46: 2,880,739  
56: 2,893,407  
2,897,827  
2,907,828  
2,910,075  
57: 2,877,778  
2,878,819  
2,883,408  
2,895,489  
2,896,640  
2,900,990  
2,915,072  
58: 2,867,224  
2,871,867  
2,886,046  
2,891,560  
2,896,641  
2,904,053  
2,912,988  
2,914,073  
2,915,073  
62: 2,894,516  
63: 2,899,967  
64: 2,879,779  
2,900,991  
68: 2,910,992  
70: 2,869,560  
72: 2,884,935  
76: 2,912,989  
77: 2,894,517  
93: 2,896,642  
99: 2,872,931  
2,877,779  
2,896,643  
2,896,644  
2,897,829  
2,897,830

99: 2,918,068  
102: 2,891,561  
103: 2,912,990  
108: 2,918,925  
109: 2,867,225  
110: 2,889,836  
111: 2,896,645  
112: 2,887,118  
114: 2,909,184  
118: 2,910,076  
122: 2,872,932  
2,878,820  
2,893,409  
2,896,646  
2,900,992  
2,918,069  
123: 2,910,993  
126: 2,878,821  
2,878,822  
2,892,462  
130: 2,918,926  
131: 2,894,518  
132: 2,918,070  
133: 2,896,647  
135: 2,900,993  
140: 2,889,837  
143: 2,888,939  
144: 2,893,410  
2,918,071  
147: 2,894,519  
2,896,648  
148: 2,884,936  
155: 2,882,912  
156: 2,881,776  
161: 2,903,002  
166: 2,877,781  
167: 2,878,823  
168: 2,910,077  
176: 2,907,335  
184: 2,896,649  
186: 2,881,777  
188: 2,880,740  
199: 2,867,226  
200: 2,918,927

**Class 135**

1: 2,869,561  
2,872,933  
2,873,750  
2,875,771  
2,880,741  
2,891,562  
2,895,490  
2,896,650  
2,898,923  
2,900,994  
2,910,994  
2,914,074  
2,915,074  
2,917,059  
3: 2,876,783  
4: 2,874,708  
2,879,780  
2,889,838  
2,894,520  
2,897,831  
2,898,924  
2,904,054  
5: 2,869,562  
2,874,709  
2,881,778  
2,882,913  
2,886,047  
2,892,463  
2,914,075  
6: 2,873,751  
2,889,839  
7.1: 2,870,774  
2,888,021  
2,889,840  
2,896,651  
15: 2,893,411  
22: 2,906,277  
2,917,060  
23: 2,877,782  
25: 2,889,841  
27: 2,910,078  
35: 2,875,772  
42: 2,906,278  
45: 2,889,842  
2,899,968  
46: 2,871,868  
2,905,187  
2,911,985  
47: 2,912,991  
52: 2,873,752  
60: 2,888,022  
62: 2,910,995

4: 2,877,283  
2,882,329  
2,886,618  
2,888,508  
2,890,259  
2,892,879  
2,902,528  
2,906,800  
2,906,801  
2,907,808  
2,911,456  
2,912,477  
2,913,510  
2,914,594  
2,915,575  
2,916,537  
5: 2,881,236  
2,890,260  
2,896,005  
2,902,529  
6: 2,886,619  
2,903,496  
2,905,738  
2,905,739  
2,906,802  
9: 2,890,261  
2,915,576  
13: 2,915,577  
20: 2,881,238  
2,902,530  
2,908,740  
24: 2,870,234  
25: 2,871,281  
26: 2,903,497  
27: 2,900,431  
28: 2,899,586  
29: 2,880,257  
2,881,237  
30: 2,880,258  
33: 2,887,522  
2,889,388  
2,911,457  
34: 2,886,620  
43: 2,874,203  
2,882,330  
2,896,006  
2,898,393  
2,904,611  
65: 2,897,523  
67: 2,899,480  
68: 2,883,443  
71: 2,867,678  
73: 2,906,803  
83: 2,894,052  
2,905,740  
84: 2,901,522  
86: 2,901,523  
2,906,652  
2,912,478  
2,913,511  
2,914,596  
2,914,596  
87: 2,894,053  
89: 2,873,303  
2,877,284  
2,904,612  
2,904,613  
2,915,578  
2,919,298  
2,919,299  
90: 2,886,621  
2,898,394  
2,900,432  
2,901,525  
2,902,531  
2,905,741  
2,918,514  
2,918,515  
2,918,517  
95: 2,903,498  
100: 2,874,204  
2,895,000  
102: 2,897,249  
107: 2,897,250  
2,903,499  
111: 2,870,235  
2,877,285  
2,880,259  
2,889,389  
112: 2,909,587  
121: 2,907,809  
133: 2,875,262  
2,876,272  
2,879,315  
2,904,614  
134: 2,906,804  
135: 2,876,271  
2,901,526  
137: 2,874,079  
2,880,122  
138: 2,879,187  
2,880,123  
143: 2,880,260

145: 2,909,588  
2,913,512  
2,918,518  
146: 2,872,497  
2,872,498  
2,900,433  
2,904,615  
2,912,479  
2,915,579  
148: 2,889,390  
155: 2,919,216  
157: 2,872,362  
161: 2,900,434  
162: 2,899,481  
168: 2,880,261  
2,892,006  
2,901,527  
169: 2,876,723  
170: 2,881,239  
2,886,622  
2,889,391  
2,890,262  
2,906,805  
2,914,597  
171: 2,902,532  
173: 2,879,316  
2,886,623  
2,907,810  
2,916,538  
177: 2,872,499  
2,886,624  
2,889,392  
2,896,007  
2,906,806  
178: 2,872,500  
2,883,444

179: 2,872,360  
2,887,414  
2,890,973  
2,897,103  
2,905,575  
2,905,576  
2,896,636  
2,909,180  
2,910,071  
31: 2,917,053  
37: 2,870,770  
58: 2,868,209  
59: 2,873,745  
66: 2,868,210  
2,868,211  
82: 2,891,556  
84: 2,911,980  
88: 2,891,557  
94: 2,874,701  
2,881,767  
2,886,043  
2,888,935  
2,902,040  
2,904,049  
2,912,987  
2,918,923  
108: 2,880,735  
109: 2,873,746  
125: 2,884,929  
126: 2,881,768  
134: 2,900,986  
135: 2,869,556  
2,882,910  
136: 2,867,220  
2,882,911  
140: 2,914,072  
144: 2,869,557  
149: 2,873,747  
2,893,401  
2,911,981  
174: 2,868,212  
2,890,705  
2,894,514  
2,897,824  
2,900,987  
175: 2,884,930  
2,910,986  
2,911,982  
178: 2,870,771  
182: 2,902,999  
183: 2,909,181  
186: 2,906,271  
187: 2,869,558  
2,910,987  
188: 2,893,402  
189: 2,910,072  
194: 2,873,748  
197: 2,908,279  
201: 2,911,983  
207: 2,883,991  
208: 2,872,928  
2,881,769  
2,881,770  
2,881,771  
2,881,772  
2,900,988  
2,900,989  
2,904,050  
2,905,184  
2,908,280

209: 2,872,360  
2,887,414  
2,890,973  
2,897,103  
2,905,575  
2,905,576  
2,896,636  
2,909,180  
2,910,071  
31: 2,917,053  
37: 2,870,770  
58: 2,868,209  
59: 2,873,745  
66: 2,868,210  
2,868,211  
82: 2,891,556  
84: 2,911,980  
88: 2,891,557  
94: 2,874,701  
2,881,767  
2,886,043  
2,888,935  
2,902,040  
2,904,049  
2,912,987  
2,918,923  
108: 2,880,735  
109: 2,873,746  
125: 2,884,929  
126: 2,881,768  
134: 2,900,986  
135: 2,869,556  
2,882,910  
136: 2,867,220  
2,882,911  
140: 2,914,072  
144: 2,869,557  
149: 2,873,747  
2,893,401  
2,911,981  
174: 2,868,212  
2,890,705  
2,894,514  
2,897,824  
2,900,987  
175: 2,884,930  
2,910,986  
2,911,982  
178: 2,870,771  
182: 2,902,999  
183: 2,909,181  
186: 2,906,271  
187: 2,869,558  
2,910,987  
188: 2,893,402  
189: 2,910,072  
194: 2,873,748  
197: 2,908,279  
201: 2,911,983  
207: 2,883,991  
208: 2,872,928  
2,881,769  
2,881,770  
2,881,771  
2,881,772  
2,900,988  
2,900,989  
2,904,050  
2,905,184  
2,908,280

210: 2,872,360  
2,887,414  
2,890,973  
2,897,103  
2,905,575  
2,905,576  
2,896,636  
2,909,180  
2,910,071  
31: 2,917,053  
37: 2,870,770  
58: 2,868,209  
59: 2,873,745  
66: 2,868,210  
2,868,211  
82: 2,891,556  
84: 2,911,980  
88: 2,891,557  
94: 2,874,701  
2,881,767  
2,886,043  
2,888,935  
2,902,040  
2,904,049  
2,912,987  
2,918,923  
108: 2,880,735  
109: 2,873,746  
125: 2,884,929  
126: 2,881,768  
134: 2,900,986  
135: 2,869,556  
2,882,910  
136: 2,867,220  
2,882,911  
140: 2,914,072  
144: 2,869,557  
149: 2,873,747  
2,893,401  
2,911,981  
174: 2,868,212  
2,890,705  
2,894,514  
2,897,824  
2,900,987  
175: 2,884,930  
2,910,986  
2,911,982  
178: 2,870,771  
182: 2,902,999  
183: 2,909,181  
186: 2,906,271  
187: 2,869,558  
2,910,987  
188: 2,893,402  
189: 2,910,072  
194: 2,873,748  
197: 2,908,279  
201: 2,911,983  
207: 2,883,991  
208: 2,872,928  
2,881,769  
2,881,770  
2,881,771  
2,881,772  
2,900,988  
2,900,989  
2,904,050  
2,905,184  
2,908,280

210: 2,872,360  
2,887,414  
2,890,973  
2,897,103  
2,905,575  
2,905,576  
2,896,636  
2,909,180  
2,910,071  
31: 2,917,053  
37: 2,870,770  
58: 2,868,209  
59: 2,873,745  
66: 2,868,210  
2,868,211  
82: 2,891,556  
84: 2,911,980  
88: 2,891,557  
94: 2,874,701  
2,881,767  
2,886,043  
2,888,935  
2,902,040  
2,904,049  
2,912,987  
2,918,923  
108: 2,880,735  
109: 2,873,746  
125: 2,884,929  
126: 2,881,768  
134: 2,900,986  
135: 2,869,556  
2,882,910  
136: 2,867,220  
2,882,911  
140: 2,914,072  
144: 2,869,557  
149: 2,873,747  
2,893,401  
2,911,981  
174: 2,868,212  
2,890,705  
2,894,514  
2,897,824  
2,900,987  
175: 2,884,930  
2,910,986  
2,911,982  
178: 2,870,771  
182: 2,902,999  
183: 2,909,181  
186: 2,906,271  
187: 2,869,558  
2,910,987  
188: 2,893,402  
189: 2,910,072  
194: 2,87



## Class 137—Con.

116. 5: 2,888,027	266: 2,873,759	456: 2,879,789	512. 1: 2,902,049	598: 2,869,581	625. 13: 2,884,007	31: 2,870,791
2,893,415	268: 2,918,077	2,896,660	512. 15: 2,890,716	599: 2,877,796	625. 17: 2,918,939	2,873,763
2,894,526	269. 5: 2,908,283	2,912,997	512. 2: 2,911,004	2,878,830	625. 19: 2,889,852	2,875,789
117: 2,869,567	270: 2,880,748	458: 2,879,790	512. 3: 2,896,661	2,902,056	625. 2: 2,905,196	2,876,799
2,905,191	2,881,786	459: 2,900,997	512. 4: 2,888,034	599. 1: 2,875,780	625. 20: 2,902,055	2,884,955
2,916,041	2,893,419	460: 2,879,791	2,912,999	2,918,936	625. 25: 2,910,081	2,891,564
118: 2,877,787	2,903,011	2,882,921	513. 7: 2,871,879	599. 2: 2,898,935	625. 27: 2,886,063	34: 2,899,977
2,902,043	2,911,994	2,906,286	514: 2,888,950	2,899,976	2,887,126	37: 2,880,760
119: 2,867,230	271: 2,881,787	461: 2,911,997	2,914,085	601: 2,878,831	625. 29: 2,867,237	38: 2,890,722
2,893,416	2,893,420	464: 2,871,876	514. 3: 2,917,076	2,884,005	2,876,798	2,895,508
2,906,281	2,903,012	467: 2,869,576	514. 5: 2,889,850	2,907,346	2,887,127	2,897,838
121: 2,868,218	296: 2,869,576	2,884,949	514. 7: 2,877,793	604: 2,874,719	625. 3: 2,875,783	2,913,009
122: 2,877,788	310: 2,891,567	2,902,046	2,917,077	2,881,800	2,912,011	39: 2,884,956
132: 2,881,780	315: 2,889,848	468: 2,895,500	515. 3: 2,900,998	607: 2,893,425	2,914,088	40: 2,876,800
2,884,942	2,894,529	469: 2,871,877	2,912,000	609: 2,882,929	2,918,087	41: 2,877,802
155: 2,869,568	2,895,495	2,874,718	2,918,083	613: 2,870,788	2,913,006	43: 2,887,129
2,875,775	2,905,192	2,888,946	516. 13: 2,870,783	2,891,576	2,884,954	44: 2,893,435
2,904,058	2,906,283	2,917,072	516. 25: 2,900,999	2,918,086	2,915,087	2,896,668
2,914,078	316: 2,886,054	474: 2,912,998	516. 29: 2,912,001	614: 2,887,124	2,917,797	2,909,196
170. 1: 2,883,999	2,895,497	478: 2,878,828	517: 2,876,794	614. 11: 2,908,290	2,893,429	45: 2,878,836
172: 2,872,935	2,909,188	2,880,751	2,886,061	2,912,005	2,911,009	2,891,578
2,872,936	318: 2,875,777	480: 2,884,950	2,888,035	614. 14: 2,915,086	2,869,583	2,891,579
2,882,920	320: 2,877,790	482: 2,876,792	2,890,717	614. 17: 2,893,426	2,893,430	2,899,979
2,896,657	2,895,498	484: 2,888,031	522: 2,882,924	614. 18: 2,869,718	2,906,293	2,909,197
188: 2,869,569	321: 2,881,788	484. 2: 2,886,058	2,884,004	614. 19: 2,869,582	2,912,012	46: 2,884,009
2,907,340	322: 2,889,849	484. 4: 2,895,501	2,907,344	620: 2,878,832	2,867,238	2,886,065
192: 2,879,784	329. 02: 2,911,995	484. 8: 2,890,713	2,908,286	2,908,754	2,890,293	2,899,881
197: 2,868,219	329. 04: 2,904,060	486: 2,871,878	525: 2,913,000	2,880,755	625. 47: 2,872,944	2,910,023
2,880,744	329. 06: 2,879,786	2,888,032	525. 3: 2,881,795	2,881,801	2,905,197	2,886,228
199: 2,902,044	329. 3: 2,893,421	2,895,502	2,908,287	2,882,930	2,910,091	2,868,229
2,908,282	331: 2,907,342	487: 2,877,791	527: 2,901,000	2,894,953	625. 48: 2,875,784	2,891,580
202: 2,867,231	332: 2,918,078	487. 5: 2,909,190	527. 2: 2,918,934	2,893,427	627: 2,880,757	2,898,939
2,884,943	340: 2,896,658	489: 2,894,531	527. 4: 2,888,036	2,893,428	627. 5: 2,867,239	2,894,534
2,909,186	2,898,932	2,906,287	2,913,001	2,896,664	2,877,798	2,906,294
2,916,042	2,900,995	489. 5: 2,879,792	527. 8: 2,886,062	2,896,665	2,905,198	49: 2,886,066
204: 2,869,570	2,918,079	2,881,792	528: 2,888,037	2,898,936	628: 2,879,798	2,894,535
2,884,944	344: 2,879,787	2,884,951	529: 2,873,760	2,902,051	629: 2,875,785	2,895,509
2,918,075	2,880,749	490: 2,870,781	2,875,779	2,902,052	2,911,010	2,909,198
205: 2,903,010	2,888,029	2,918,080	533. 11: 2,899,974	2,904,072	630: 2,869,584	2,916,053
2,917,068	2,892,466	491: 2,882,922	534: 2,888,038	2,904,073	630. 12: 2,879,799	50: 2,870,792
205. 5: 2,881,781	2,912,996	2,890,714	535: 2,895,503	2,907,347	630. 15: 2,879,800	2,871,885
2,893,417	2,915,081	493: 2,886,059	538: 2,896,662	2,909,193	2,888,953	2,876,801
206: 2,884,945	351: 2,871,872	2,904,066	539: 2,895,504	2,912,006	2,904,074	2,898,940
207: 2,871,870	353: 2,915,082	493. 1: Re.24,664	2,896,663	2,913,005	630. 19: 2,918,088	2,908,295
2,880,745	354: 2,881,789	493. 3: 2,908,284	2,903,014	2,918,937	633: 2,871,883	2,913,010
2,880,746	355. 12: 2,911,996	493. 7: 2,894,530	2,918,088	621: Re.24,734	2,898,937	51: 2,890,723
2,886,053	355. 17: 2,893,422	493. 8: 2,888,947	540: 2,908,288	2,873,762	634: 2,881,803	53: 2,874,722
2,898,931	355. 21: 2,896,659	493. 9: 2,872,938	541: 2,912,002	2,867,235	635: 2,887,128	54: 2,895,510
209: 2,870,778	355. 23: 2,887,121	494: 2,879,793	542: 2,879,794	2,868,227	2,888,040	55: 2,867,241
2,873,758	356: 2,910,086	2,884,952	2,882,925	2,870,789	2,898,938	2,884,957
2,884,000	360: 2,870,780	2,890,715	2,909,192	2,871,882	2,901,002	2,888,042
2,884,946	362: 2,911,001	495: 2,868,224	543. 15: 2,905,188	2,872,942	636. 2: 2,879,801	2,888,954
2,888,944	364: 2,903,423	2,884,033	543. 17: 2,899,975	2,875,781	2,888,041	2,891,581
2,909,187	375: 2,910,998	2,887,122	544: 2,891,572	2,875,782	2,890,719	2,898,941
211: 2,881,782	2,916,044	2,891,568	2,914,086	2,876,796	2,890,720	2,899,982
2,918,931	382: 2,886,055	2,899,972	2,916,048	2,876,797	637: 2,891,577	56: 2,903,016
2,918,932	384. 8: 2,906,284	2,906,288	546: 2,903,015	2,879,796	637. 1: 2,884,008	2,874,723
215: 2,869,571	386: 2,875,778	2,917,073	547: 2,912,003	2,882,931	779: 2,879,802	2,879,803
216: 2,871,871	2,910,999	496: 2,914,083	549: 2,880,753	2,888,951	2,890,721	2,879,804
2,878,826	389: 2,881,790	2,916,046	552: 2,882,926	2,889,851	780: 2,907,350	2,894,536
2,884,947	390: 2,871,873	499: 2,904,067	552. 5: 2,904,070	2,894,533	782: 2,905,199	2,897,839
2,890,709	2,884,948	501: 2,881,793	553: 2,873,761	2,896,666	784: 2,914,089	2,897,840
2,892,465	2,885,030	2,881,794	2,891,573	2,902,053	785: 2,910,092	2,898,942
2,899,971	391: 2,804,061	2,909,191	2,918,935	2,904,075	787: 2,877,799	2,913,011
217: 2,876,789	2,904,062	2,915,084	554: 2,872,940	2,903,291	791: 2,913,007	61: 2,881,804
2,891,565	2,906,285	2,916,047	557: 2,918,085	2,906,292	2,917,081	62: 2,872,945
2,916,043	2,909,189	502: 2,918,933	559: 2,910,087	2,907,348	793: 2,869,585	63: 2,878,837
218: 2,869,572	392: 2,871,874	503: 2,868,225	560: 2,870,785	2,908,291	2,893,431	2,894,537
2,875,776	2,884,001	504: 2,872,939	2,882,927	2,908,292	2,895,506	2,914,090
2,877,789	2,888,945	2,914,084	561: 2,868,226	2,909,194	2,913,008	64: 2,872,946
2,893,418	2,898,933	2,917,074	2,881,796	2,911,005	2,918,089	2,872,947
2,897,835	2,904,063	2,917,075	2,905,194	2,911,006	796: Re.24,710	2,894,538
219: 2,868,220	394: 2,874,716	505: 2,870,782	2,912,004	2,912,007	2,897,841	2,898,943
2,870,779	2,892,467	2,888,033	563: 2,877,794	2,914,087	797: 2,913,007	2,916,054
2,878,827	2,914,081	2,894,532	2,881,797	2,916,049	2,917,081	65: 2,868,220
223: 2,869,573	400: 2,893,424	2,887,123	2,895,505	2,916,050	2,907,348	2,890,724
2,880,747	2,902,045	2,918,081	565: 2,881,798	2,874,720	2,908,291	2,896,669
2,887,120	403: 2,867,232	505. 12: 2,891,569	2,907,345	2,881,802	2,911,007	2,903,017
2,907,341	408: 2,868,222	505. 13: 2,892,468	571: 2,869,580	2,911,007	2,867,236	66: 2,902,056
2,918,076	2,903,013	2,905,193	576: 2,872,941	2,887,125	2,905,200	2,903,013
228: 2,906,282	409: 2,881,791	505. 22: 2,888,948	577. 5: 2,915,085	2,904,055	2,867,240	68: 2,918,940
236: 2,894,527	410: 2,904,064	505. 18: 2,902,047	578: 2,882,928	2,905,195	2,871,884	69: 2,917,082
2,914,080	411: 2,874,717	2,905,193	580: 2,913,002	2,909,195	2,874,721	74: 2,878,838
238: 2,876,790	412: 2,914,082	505. 25: 2,888,949	587: 2,870,786	2,912,008	2,875,786	2,884,958
2,894,528	413: 2,867,233	2,911,998	588: 2,878,829	2,912,009	2,875,787	2,905,201
240: 2,888,028	414: 2,869,577	2,904,068	591: 2,897,837	2,912,010	2,875,788	2,911,011
2,917,069	416: 2,900,996	2,876,793	593: 2,877,795	2,916,051	2,878,834	2,912,013
244: 2,881,783	425: 2,895,499	2,907,343	2,891,575	2,917,078	2,878,835	2,915,088
246. 11: 2,872,937	430: 2,886,056	2,918,082	594: 2,876,795	624: 2,878,833	2,880,759	76: 2,884,010
246. 12: 2,868,221	433: 2,915,083	506: 2,904,069	595: 2,913,003	2,879,797	2,886,064	2,895,511
2,869,574	434: 2,886,057	2,911,999	596: 2,879,795	2,880,756	2,893,434	78: 2,870,793
2,891,566	2,890,711	508: 2,906,289	2,904,071	2,907,349	2,895,507	2,893,436
2,904,059	444: 2,869,578	2,911,003	2,917,080	2,917,079	2,896,667	84: 2,887,130
246. 13: 2,881,784	449: 2,916,045	509: 2,891,570	2,913,004	625. 11: 2,884,006	2,904,077	87: 2,871,886
246. 21: 2,881,785	454. 2: 2,884,002	510: 2,902,048	596. 1: 2,910,088	2,888,952	2,908,294	2,895,512
247. 15: 2,917,070	454. 4: 2,904,065	512. 1: 2,877,792	597: 2,870,787	2,918,938	2,916,052	2,910,094
247. 29: 2,910,997	454. 5: 2,897,836	2,886,060	2,871,880	625. 12: 2,870,790	2,918,090	2,915,089
247. 35: 2,889,847	454. 6: 2,879,788	2,898,934	2,906,290	2,902,054		
251: 2,869,575						
2,917,071						
264: 2,879,785						



87: 2,916,055	161: 2,894,540	92.3: 2,902,060	160: 2,869,592	86: 2,875,796	208: 2,889,860	29: 2,874,738
89: 2,867,243	2,903,020	92.8: 2,888,960	168: 2,868,243	2,908,300	2,891,588	2,884,969
2,901,003	165: 2,915,092	2,898,950	172: 2,879,812	89: 2,912,019	2,893,451	31: 2,890,732
2,917,084	166: 2,884,961	93: 2,907,356	186: 2,875,793	120: 2,888,047	2,893,452	2,916,066
90: 2,870,794	167: 2,878,840	93.2: 2,868,238	193: 2,880,765	2,893,448	2,897,858	33: 2,869,600
2,873,764	171: 2,906,297	2,882,934	198: 2,868,244	2,899,990	2,898,959	2,910,101
2,886,067	181: 2,892,469	93.6: 2,868,239	207: 2,901,008	122: 2,904,083	2,898,960	34: 2,880,773
2,897,842	186: 2,898,946	2,877,808	208: 2,867,249	132: 2,869,595	2,899,993	2,912,025
2,918,941	187: 2,874,727	102: 2,877,809	2,869,593	2,884,028	2,899,994	35: 2,888,967
2,886,068	188: 2,890,727	109: 2,898,951	2,874,735	2,913,021	2,901,011	36: 2,884,970
2,906,295	2,897,843	118: 2,913,015	2,869,594	2,913,022	2,902,070	2,894,550
2,913,012	2,915,093	123: 2,879,807	209: 2,870,799	133: 2,880,768	2,903,028	50: 2,890,733
94.3: 2,884,959	192: 2,869,587	123.5: 2,879,808	2,870,800	2,890,728	2,904,085	2,892,477
2,889,853	2,870,796	124: 2,898,952	2,871,894	135: 2,872,956	2,906,306	2,899,996
94.5: 2,918,942	2,899,986	147: 2,878,841	2,881,809	2,873,775	2,908,302	2,908,304
96: 2,873,765	2,901,004	Class 141	2,882,939	2,891,586	2,911,020	52: 2,884,971
2,880,761	2,914,094	1: 2,896,673	2,906,301	2,897,857	2,912,023	2,893,455
2,893,437	195: 2,882,932	4: 2,875,792	210: 2,918,095	2,902,068	2,917,090	2,902,071
2,893,438	196: 2,881,806	5: 2,889,856	217: 2,903,025	2,905,209	2,918,952	2,905,215
2,898,943	2,905,208	6: 2,892,472	218: 2,884,024	2,912,020	2,870,733	61: 2,870,809
2,898,944	198: 2,914,095	7: 2,913,016	225: 2,916,060	2,913,023	2,869,596	2,871,899
97: 2,894,939	199: 2,918,947	10: 2,871,891	234: 2,874,736	143: 2,913,024	2,879,816	2,917,092
2,899,983	201: 2,888,957	12: 2,879,809	237: 2,872,953	155: 2,912,021	2,884,966	76: 2,884,972
2,917,085	207: 2,918,948	18: 2,912,018	242: 2,897,854	158: 2,884,029	2,912,024	114.5: 2,888,968
99: 2,881,805	232: 2,897,846	20: 2,908,297	248: 2,868,245	159: 2,876,810	2,870,807	125: 2,886,081
2,898,945	241: 2,870,796	21: 2,881,808	250: 2,877,813	2,880,769	2,887,136	2,918,954
2,899,984	243: 2,875,791	24: 2,870,797	263: 2,872,954	2,916,062	2,889,861	130: 2,918,955
2,905,206	247: 2,872,948	25: 2,872,950	267: 2,874,737	160: 2,914,100	2,904,086	Class 146
Class 139	255: 2,876,804	27: 2,877,810	285: 2,910,098	2,914,101	2,917,091	2: 2,867,254
1: 2,873,766	256: 2,897,847	28: 2,872,950	286: 2,868,246	2,914,102	2,896,678	2,898,961
2,884,011	257: 2,892,470	29: 2,913,017	2,897,855	168: 2,890,729	2,893,453	2,904,089
2,888,044	260: 2,897,848	27: 2,916,057	2,901,009	2,892,474	2,867,253	3: 2,886,082
2,911,012	266: 2,886,070	28: 2,901,006	2,914,097	169: 2,895,515	2,891,589	6: 2,897,861
2,918,943	273: 2,918,947	30: 2,874,732	287: 2,908,299	2,905,210	2,897,859	17: 2,908,305
7: 2,918,944	291: 2,884,015	32: 2,873,767	290: 2,871,895	170: 2,894,543	2,916,064	28: 2,868,251
8: 2,915,090	303: 2,868,235	34: 2,876,246	2,904,081	171: 2,898,955	2,895,517	2,880,774
11: 2,886,069	336: 2,881,807	35: 2,884,021	292: 2,880,766	174: 2,884,965	2,895,518	2,896,679
13: 2,869,586	350: 2,884,017	39: 2,867,247	293: 2,882,940	Class 144	2,911,021	2,906,307
2,893,439	353: 2,897,849	43: 2,882,935	294: 2,893,445	1: 2,888,965	2,913,026	2,913,028
28: 2,893,439	371: 2,874,728	44: 2,887,133	295: 2,904,082	2,892,476	2,918,953	31: 2,903,031
2,893,440	383: 2,869,588	48: 2,870,798	313: 2,886,073	2,905,211	2,896,680	40: 2,882,945
29: 2,903,019	383: 2,869,588	51: 2,879,810	328: 2,911,016	2,913,025	2,870,808	43: 2,888,969
38: 2,896,670	383: 2,869,588	55: 2,902,061	346: 2,875,794	2,884,030	2,875,797	46: 2,868,252
39: 2,884,012	383: 2,869,588	59: 2,882,938	349: 2,916,061	2,887,134	2,884,032	59: 2,884,973
2,884,013	383: 2,869,588	61: 2,903,023	353: 2,881,810	2,911,018	2,884,032	61: 2,867,255
2,891,582	383: 2,869,588	65: 2,868,240	360: 2,907,358	2,912,022	2,913,027	67: 2,869,601
2,899,985	383: 2,869,588	69: 2,888,045	361: 2,868,247	3: 2,902,069	2,873,777	68: 2,894,551
2,905,202	383: 2,869,588	70: 2,897,851	375: 2,867,248	2,905,212	2,880,772	2,897,862
2,905,203	383: 2,869,588	71: 2,888,963	392: 2,906,302	2,917,089	2,881,813	2,918,956
2,908,296	383: 2,869,588	72: 2,884,022	Class 142	2,918,951	2,882,943	2,876,817
41: 2,874,724	390: 2,888,958	73: 2,901,007	48: 2,902,064	4: 2,888,048	2,884,967	70: 2,884,036
44: 2,870,795	391: 2,892,471	75: 2,897,852	49: 2,913,019	27: 2,870,804	2,895,519	71.5: 2,884,036
2,874,725	402: 2,884,019	79: 2,880,763	55: 2,867,807	32: 2,870,805	2,903,029	72: 2,901,014
2,915,091	402: 2,884,019	82: 2,879,811	2,880,767	2,877,814	2,904,088	76: 2,901,015
46: 2,868,231	403: 2,867,244	86: 2,898,954	2,884,025	2,880,770	2,916,065	78: 2,875,798
2,896,671	403: 2,867,244	87: 2,874,733	56: 2,914,098	2,886,076	2,896,597	2,884,974
52: 2,913,013	403: 2,867,244	89: 2,893,444	Class 143	2,886,077	2,884,034	2,877,816
54: 2,918,092	403: 2,867,244	90: 2,898,954	6: 2,870,801	2,888,049	2,884,968	2,905,216
56: 2,918,945	403: 2,867,244	91: 2,913,018	2,876,808	2,904,084	2,897,860	2,910,102
58: 2,907,352	403: 2,867,244	94: 2,872,951	2,903,026	34: 2,894,544	2,918,907	85: 2,884,975
59: 2,868,232	403: 2,867,244	95: 2,897,853	2,908,299	35: 2,905,213	2,877,815	88: 2,906,309
2,879,805	403: 2,867,244	96: 2,910,097	2,909,988	80: 2,895,516	2,888,052	94: 2,870,810
2,884,960	403: 2,867,244	100: 2,903,024	2,913,019	87: 2,893,449	2,908,303	2,898,962
77: 2,904,078	403: 2,867,244	105: 2,872,952	21: 2,876,809	2,893,450	2,903,032	2,903,032
82: 2,907,353	403: 2,867,244	110: 2,884,023	26: 2,867,250	91: 2,868,249	2,905,217	96: 2,905,217
84: 2,904,079	403: 2,867,244	113: 2,877,812	27: 2,884,026	104: 2,869,677	2,886,083	99: 2,918,957
88: 2,910,095	403: 2,867,244	117: 2,888,046	2,903,027	110: 2,888,050	2,891,590	101: 2,886,083
91: 2,897,844	403: 2,867,244	121: 2,871,893	30: 2,879,813	112: 2,890,730	2,888,053	102: 2,879,817
92: 2,874,726	403: 2,867,244	125: 2,884,964	32: Re.24,588	114: 2,884,031	2,907,360	2,912,026
2,877,803	403: 2,867,244	130: 2,880,764	2,879,814	117: 2,908,301	2,915,096	2,916,067
2,879,806	403: 2,867,244	131: 2,872,951	2,888,964	125: 2,894,545	300: 2,868,250	107: 2,873,779
2,896,672	403: 2,867,244	132: 2,882,937	2,897,856	133: 2,887,135	2,876,813	108: 2,909,201
2,905,204	403: 2,867,244	137: 2,868,241	2,902,065	134: 2,867,251	2,891,590	114: 2,882,946
2,909,199	403: 2,867,244	143: 2,888,962	2,910,099	172: 2,878,842	2,898,956	117: 2,868,253
98: 2,912,014	403: 2,867,244	144: 2,888,963	2,910,100	2,898,956	2,897,860	119: 2,874,739
99: 2,888,955	403: 2,867,244	146: 2,896,676	2,913,020	2,915,095	2,896,681	2,881,815
108: 2,875,790	403: 2,867,244	147: 2,878,841	36: 2,873,773	2,918,906	2,907,361	2,889,862
2,893,441	403: 2,867,244	148: 2,893,446	38: 2,918,950	136: 2,870,806	2,871,896	2,910,103
2,914,092	403: 2,867,244	151: 2,877,809	41: 2,881,811	2,886,078	2,873,778	123: 2,875,799
110: 2,878,839	403: 2,867,244	152: 2,881,812	43: 2,882,941	2,886,079	2,876,815	2,892,478
2,914,093	403: 2,867,244	153: 2,882,938	2,899,988	2,898,957	2,876,816	124: 2,875,846
122: 2,888,956	403: 2,867,244	154: 2,893,447	46: 2,872,955	2,899,991	2,878,844	130: 2,912,027
123: 2,868,233	403: 2,867,244	155: 2,894,545	2,889,958	2,907,359	2,881,814	150: 2,875,780
2,890,725	403: 2,867,244	156: 2,895,513	2,886,079	2,911,019	2,890,731	2,918,959
124: 2,891,583	403: 2,867,244	157: 2,896,680	2,898,957	143: 2,906,303	2,896,682	160: 2,872,958
2,902,057	403: 2,867,244	158: 2,897,855	2,899,991	154: 2,901,010	2,898,958	2,895,520
2,905,207	403: 2,867,244	159: 2,898,959	2,900,730	162: 2,899,992	2,898,959	165: 2,917,093
2,918,093	403: 2,867,244	160: 2,870,803	2,902,067	172: 2,898,958	2,884,035	182: 2,878,847
125: 2,876,802	403: 2,867,244	161: 2,871,894	2,903,028	176: 2,889,859	2,911,022	2,914,103
2,884,014	403: 2,867,244	162: 2,872,956	36: 2,873,773	205: 2,891,557	2,903,030	189: 2,869,602
126: 2,902,058	403: 2,867,244	163: 2,873,775	38: 2,918,950	208: 2,867,252	2,876,812	2,916,069
2,918,946	403: 2,867,244	164: 2,874,736	41: 2,881,811	2,876,813	2,893,454	192: 2,875,800
127: 2,871,888	403: 2,867,244	165: 2,875,796	43: 2,882,941	2,880,771	2,894,549	196: 2,886,683
2,908,296	403: 2,867,244	166: 2,876,807	2,899,988	2,882,942	2,903,030	2,906,310
2,868,234	403: 2,867,244	167: 2,877,808	46: 2,872,955	2,884,965	2,869,599	216: 2,881,816
150: 2,876,803	403: 2,867,244	168: 2,878,841	48: 2,893,446	2,898,956	2,871,897	2,888,954
151: 2,917,086	403: 2,867,244	169: 2,879,809	52: 2,881,812	2,899,991	2,873,779	
154: 2,897,845	403: 2,867,244	170: 2,880,730	2,895,513	2,906,303	2,875,846	
156: 2,890,726	403: 2,867,244	171: 2,881,813	54: 2,870,803	2,916,065	2,878,844	
2,907,354	403: 2,867,244	172: 2,882,938	58: 2,893,447	143: 2,906,303	2,880,771	
	403: 2,867,244	173: 2,883,949	60: 2,875,795	154: 2,901,010	2,882,942	
	403: 2,867,244					



## Class 146—Con.

221. 9: 2,867,256  
241: 2,910,392  
2,910,393

## Class 148

1: 2,875,108  
2,890,139

1.5: 2,868,678  
2,870,049

2,870,050  
2,871,149

2,873,221  
2,873,222

2,876,147  
2,877,147

2,878,147  
2,878,148

2,879,188  
2,879,189

2,879,190  
2,881,103

2,887,415  
2,887,416

2,887,417  
2,891,882

2,892,739  
2,893,901

2,894,862  
2,894,863

2,895,858  
2,897,105

2,898,247  
2,898,248

2,899,343  
2,899,344

2,900,286  
2,900,287

2,900,453  
2,910,394

2,916,408  
2,918,396

1.6: 2,889,240  
2,892,740

2,898,249  
2,899,883

3: 2,867,554  
2,867,555

2,875,109  
2,890,140

2,895,859  
2,895,860

2,901,384  
2,906,651

4: 2,873,223  
2,881,104

6.14: 2,868,680  
2,874,080

2,884,350  
2,890,974

6.15: 2,874,081  
2,875,110

2,875,111  
2,877,148

2,884,351  
2,885,312

2,886,477  
2,891,884

6.16: 2,868,682  
2,882,189

2,894,865  
2,901,385

2,909,455  
2,868,679

6.2: 2,887,418  
2,907,689

2,909,454  
2,911,332

6.21: 2,898,250  
2,902,394

6.24: 2,876,148  
2,876,149

2,876,150  
2,878,149

2,881,106  
2,892,741

2,903,384  
2,914,432

6.27: 2,885,313  
2,881,105

6.3: 2,894,864  
2,899,345

2,917,419  
2,887,419

6.35: 2,898,251  
2,873,224

10: 2,916,409  
2,917,150

2,872,363  
2,877,149

2,879,191  
2,892,742

2,894,866  
2,895,866

11.5: 2,903,385  
2,914,433

12: 2,878,150  
2,878,151

2,881,107  
2,881,108

2,882,190  
2,893,902

2,906,652  
2,915,424

12.1: 2,881,109  
2,879,192

13: 2,898,252  
2,900,288

13.1: 2,885,315  
2,885,316

2,887,420  
2,892,743

2,898,253  
2,897,107

13.2: 2,892,744  
2,914,434

16.5: 2,886,478  
2,910,395

18: 2,895,861  
2,898,254

21.5: 2,879,194  
2,888,373

21.55: 2,872,364  
2,875,112

2,888,374  
2,894,867

2,903,386  
2,867,556

21.56: 2,882,191  
2,890,975

21.7: 2,892,745  
2,887,421

21.8: 2,899,346  
2,901,386

2,906,653  
2,879,193

21.9: 2,887,422  
2,870,051

21.92: 2,879,195  
2,880,125

23: 2,880,126  
2,890,141

2,895,862  
2,897,106

2,898,255  
2,901,387

2,904,459  
2,908,599

24: 2,914,435  
2,868,681

26: 2,876,151  
2,892,746

2,893,903  
2,895,863

31: 2,876,152  
2,905,577

31.5: 2,874,082  
2,906,654

32.5: 2,868,683  
2,870,052

33: 2,874,083  
2,875,152

2,882,192  
2,882,193

2,882,194  
2,882,195

2,883,313  
2,887,423

2,890,142  
2,890,976

2,893,904  
2,873,225

105: 2,913,361  
2,867,557

111: 2,867,558  
2,867,559

112: 2,890,143  
2,875,113

113: 2,875,113  
2,875,114

120: 2,875,114

## Class 150

.5: 2,868,254  
2,876,818

2,878,848  
2,878,849

2,879,818  
2,882,947

2,884,977  
2,884,978

2,886,084  
2,893,456

11.5: 2,917,150  
2,914,104

2,915,097  
2,915,098

2,915,098  
2,870,811

2,873,781

1: 2,895,521  
2,897,863

2,899,997  
2,913,029

1.5: 2,867,257  
2,872,959

2,879,819  
2,881,817

2,887,137  
2,889,863

2,897,864  
2,905,218

1.6: 2,886,085  
2,871,900

1.7: 2,901,016  
2,912,028

1.8: 2,916,070  
2,901,017

3: 2,918,958  
2,903,033

10: 2,894,552  
2,912,029

28: 2,875,801  
2,875,802

2,880,775  
2,887,138

2,888,970  
2,904,090

2,904,091  
2,916,071

30: 2,893,457  
2,899,998

33: 2,914,105  
2,897,865

34: 2,899,999  
2,911,024

35: 2,876,819  
2,884,979

2,909,202  
2,869,603

37: 2,909,203  
2,881,818

38: 2,869,604  
2,871,901

39: 2,878,850  
2,884,980

2,888,055  
2,871,902

40: 2,874,740  
2,875,803

2,878,851  
2,884,037

2,897,866  
2,912,030

2,915,099  
2,891,592

47: 2,908,306  
2,873,782

48: 2,895,522  
2,875,806

49: 2,875,806  
Re. 24,600

52: 2,868,255  
2,869,605

2,869,606  
2,872,960

2,887,139  
2,894,553

2,901,018  
2,903,034

2,907,363  
2,908,307

2,908,308  
2,911,025

2,913,030  
2,917,094

2,918,959

## Class 151

5: 2,877,817  
2,872,961

7: 2,900,000  
2,908,309

2,913,031  
2,906,311

9: 2,898,963  
2,869,607

14: 2,874,741  
2,886,086

15: 2,895,523  
2,882,948

18: 2,886,087  
2,896,684

19: 2,897,867  
2,909,205

21: 2,914,106  
2,886,088

22: 2,901,019  
2,881,819

25: 2,886,089  
2,890,734

33: 2,868,256  
2,895,524

37: 2,870,812

38: 2,870,812

39: 2,884,981  
2,908,310

41.7: 2,909,206  
2,879,820

41.71: 2,873,784  
2,877,818

41.73: 2,877,818  
2,886,090

2,898,961  
2,912,031

41.74: 2,867,258  
2,875,804

41.75: 2,888,971  
2,893,458

2,903,035  
2,908,311

41.76: 2,875,805  
2,884,038

44: 2,884,038

## Class 152

6: 2,912,032  
2,912,033

9: 2,872,962  
2,870,813

44: 2,891,593  
2,900,001

49: 2,903,036  
2,912,034

57: 2,904,092  
2,869,608

86: 2,911,026  
2,879,821

153: 2,898,965  
2,874,742

175: 2,882,949  
2,868,257

187: 2,888,056  
2,894,554

209: 2,878,852  
2,891,594

2,907,365  
2,908,312

210: 2,913,032  
2,888,057

2,904,093  
2,910,104

211: 2,880,776  
2,896,685

213: 2,913,033  
2,897,868

216: 2,900,002  
2,904,094

2,912,035  
2,870,814

218: 2,873,783  
2,903,037

222: 2,909,207  
2,915,101

225: 2,867,259  
2,896,686

2,900,003  
2,910,105

2,912,036  
2,917,095

226: 2,871,903  
2,900,004

228: 2,886,091  
2,887,140

2,905,219  
2,898,967

233: 2,918,960  
2,898,968

236: 2,879,822  
2,911,027

237: 2,882,952  
2,894,985

239: 2,894,559  
2,907,367

302: 2,901,020  
2,896,687

310: 2,878,853  
2,912,037

323: 2,906,312  
2,909,208

327: 2,869,610  
2,874,743

330: 2,879,823  
2,884,039

2,884,982  
2,891,595

2,897,869  
2,902,072

2,905,220  
2,906,313

334: 2,901,021  
2,871,904

341: 2,898,969  
2,900,005



52. 1: 2, 875, 116 2, 880, 128 2, 892, 748	11: 2, 888, 061 12: 2, 890, 740 13: 2, 886, 093	106: 2, 909, 213 2, 909, 214 2, 911, 032	179: 2, 893, 475 2, 893, 476 2, 897, 879	13: 2, 888, 065 2, 891, 605 2, 893, 479	114: 2, 870, 830 115: 2, 869, 631 2, 874, 768	84: 2, 891, 612 2, 894, 573 2, 910, 120
53. 5: 2, 895, 865 53. 6: 2, 874, 084 54: 2, 870, 053	14: 2, 868, 271 2, 875, 809 2, 877, 824	2, 914, 112 2, 914, 113 2, 914, 114	2, 898, 975 2, 900, 216 2, 910, 114	2, 897, 882 2, 915, 113 2, 918, 116	2, 875, 821 2, 876, 832 2, 878, 862	2, 913, 045 2, 915, 114 2, 915, 115
55: 2, 916, 411 78: 2, 902, 397 79: 2, 872, 365	2, 886, 094 2, 886, 095 2, 892, 483	2, 917, 105 2, 917, 106 2, 918, 109	2, 910, 115 2, 916, 087 2, 875, 819	<b>Class 158</b> 1: Re. 24, 682 2, 867, 267	2, 880, 792 2, 880, 793 2, 881, 829	88: 2, 888, 070 2, 918, 120 2, 914, 122
81: 2, 886, 479 83: 2, 870, 054 2, 873, 226	2, 905, 228 2, 907, 371 2, 909, 211	2, 918, 110 2, 918, 111 2, 918, 112	150: 2, 876, 826 2, 913, 041 2, 869, 320	2, 877, 834 2, 918, 117 2, 869, 624	2, 896, 703 2, 896, 704 2, 905, 236	89: 2, 914, 122 90: 2, 898, 984 91: 2, 877, 840
2, 873, 227 2, 876, 154 2, 877, 150	2, 915, 111 2, 871, 913 2, 868, 272	2, 918, 113 2, 869, 619 2, 901, 025	181: 2, 871, 924 2, 877, 832 2, 884, 993	1. 5: 2, 869, 625 2, 879, 836 2, 869, 625	2, 918, 119 2, 869, 632 2, 878, 863	92: 2, 868, 281 2, 884, 051 2, 888, 071
2, 892, 749 2, 915, 425 89: 2, 910, 397	22: 2, 869, 613 2, 871, 914 2, 872, 967	111: 2, 893, 473 2, 917, 107 2, 892, 486	182: 2, 870, 824 2, 871, 924 2, 877, 832	4: 2, 869, 625 2, 872, 971 2, 907, 382	2, 888, 980 2, 891, 608 2, 898, 979	93: 2, 877, 841 2, 879, 840 2, 903, 056
90: 2, 900, 290 2, 905, 578 2, 906, 656	15: 2, 871, 913 17: 2, 868, 272 2, 912, 044	112: 2, 893, 473 2, 917, 107 2, 892, 486	184: 2, 871, 925 2, 901, 028 2, 907, 377	4. 5: 2, 869, 624 2, 895, 544 2, 882, 960	2, 918, 119 2, 869, 632 2, 878, 863	94: 2, 877, 841 2, 879, 840 2, 903, 056
2, 917, 422 92: 2, 870, 055 93: 2, 915, 426	23: 2, 871, 915 2, 890, 741 2, 884, 047	113: 2, 893, 473 2, 917, 107 2, 892, 486	185: 2, 910, 116 2, 871, 926 2, 876, 827	7: 2, 869, 625 2, 895, 544 2, 884, 048	2, 888, 981 2, 908, 325 2, 909, 218	95: 2, 877, 842 96: 2, 879, 841 97: 2, 897, 887
94: 2, 874, 085 95: 2, 914, 437 100: 2, 886, 480	25: 2, 884, 047 2, 886, 096 2, 910, 116	114: 2, 893, 473 2, 917, 107 2, 892, 486	187: 2, 871, 926 2, 876, 827 2, 878, 861	27. 4: 2, 869, 624 2, 895, 544 2, 888, 068	116: 2, 869, 632 2, 878, 863 2, 884, 998	98: 2, 888, 985 2, 897, 888 2, 875, 826
101: 2, 888, 375 2, 890, 146 2, 900, 291	28: 2, 914, 110 2, 914, 111 2, 896, 693	115: 2, 892, 486 2, 903, 046 2, 872, 969	2, 884, 994 2, 891, 603 2, 896, 696	28: 2, 874, 762 2, 874, 763 2, 877, 836	117. 5: 2, 891, 609 2, 913, 043 2, 877, 838	104: 2, 875, 826 2, 882, 961 2, 881, 831
2, 903, 387 102: 2, 899, 347 106: 2, 877, 151	30: 2, 869, 614 2, 896, 693 2, 915, 112	116: 2, 892, 486 2, 903, 046 2, 872, 969	188: 2, 867, 266 2, 879, 835 2, 871, 927	7. 5: 2, 868, 277 2, 912, 096 2, 918, 966	118: 2, 877, 838 2, 875, 822 2, 913, 044	105: 2, 914, 123 106: 2, 878, 864 113: 2, 898, 985
2, 878, 153 2, 914, 109 110: 2, 879, 196	31: 2, 880, 783 42: 2, 888, 062 2, 918, 108	117: 2, 872, 969 2, 877, 826 2, 894, 564	189: 2, 871, 927 2, 876, 829 2, 877, 833	27. 4: 2, 869, 624 2, 895, 544 2, 888, 068	123: 2, 888, 981 2, 898, 981 2, 908, 325	115: 2, 894, 574 2, 918, 121 2, 869, 635
2, 881, 110 2, 890, 977 2, 903, 388	43: 2, 882, 957 2, 897, 876 2, 900, 009	122: 2, 903, 047 2, 871, 920 2, 877, 827	2, 877, 833 2, 880, 788 2, 880, 789	28: 2, 874, 762 2, 874, 763 2, 877, 836	125: 2, 903, 052 2, 869, 633 2, 881, 830	118: 2, 882, 962 2, 885, 000 2, 915, 118
2, 903, 389 2, 915, 427 2, 919, 218	50: 2, 875, 810 2, 877, 825 2, 889, 868	123: 2, 877, 827 2, 889, 869 2, 910, 113	2, 888, 063 2, 898, 976 2, 905, 231	2, 877, 836 2, 884, 996 2, 887, 152	128: 2, 869, 633 2, 895, 545 2, 903, 053	120: 2, 870, 831 124: 2, 894, 575 125: 2, 910, 121
116: 2, 871, 153 2, 886, 481 2, 886, 482	51: 2, 868, 273 2, 894, 563 2, 894, 563	124: 2, 878, 859 2, 893, 474 2, 908, 322	2, 908, 324 2, 881, 824 2, 886, 094	2, 887, 152 2, 894, 567 2, 903, 051	129: 2, 872, 972 2, 913, 044 2, 889, 872	133: 2, 903, 057 2, 908, 327 2, 912, 048
2, 898, 257 2, 905, 579 2, 906, 657	54: 2, 913, 038 56: 2, 893, 471 2, 900, 010	127: 2, 875, 815 2, 900, 011 2, 891, 601	191: 2, 881, 824 2, 886, 094 2, 890, 744	33: 2, 870, 825 2, 888, 979 2, 867, 268	132: 2, 868, 278 2, 891, 609 2, 913, 043	135: 2, 892, 492 2, 875, 827 2, 887, 153
2, 908, 601 2, 917, 423 117: 2, 917, 424	65: 2, 900, 010 69: 2, 878, 858 2, 917, 916	130: 2, 895, 540 2, 904, 101 2, 875, 816	2, 893, 477 2, 897, 880 2, 904, 105	36: 2, 867, 268 2, 870, 826 2, 876, 830	<b>Class 159</b> 2: 2, 910, 119 4: 2, 872, 973	165: 2, 875, 827 166: 2, 887, 153 168: 2, 869, 636
118: 2, 898, 258 120: 2, 909, 204 121: 2, 905, 580	71: 2, 917, 916 72: 2, 907, 373 2, 870, 820	131: 2, 875, 816 2, 875, 817 2, 878, 825	2, 907, 378 2, 914, 117 2, 882, 958	2, 876, 830 2, 884, 996 2, 887, 152	2, 895, 545 2, 903, 053 2, 891, 610	2, 876, 834 2, 884, 052 2, 898, 986
122: 2, 887, 425 2, 890, 147 124: 2, 867, 560	78: 2, 870, 820 2, 879, 830 2, 895, 536	133: 2, 873, 792 2, 914, 115 2, 877, 828	194: 2, 882, 958 196: 2, 876, 828 2, 884, 995	2, 877, 836 2, 884, 996 2, 887, 152	2, 903, 051 2, 891, 610 2, 901, 034	173: 2, 868, 282 2, 868, 283 2, 871, 834
2, 895, 537 2, 896, 694 80: 2, 879, 831	88: 2, 888, 976 2, 909, 212 2, 916, 083	135: 2, 877, 828 2, 867, 264 2, 876, 825	2, 884, 995 2, 900, 013 2, 874, 764	36. 3: 2, 881, 828 2, 902, 086 2, 867, 269	2, 909, 219 2, 901, 034 2, 909, 219	2, 872, 975 2, 872, 976 2, 891, 613
82: 2, 901, 599 86: 2, 899, 456 88: 2, 888, 976	89: 2, 888, 976 2, 909, 212 2, 916, 083	136: 2, 877, 828 2, 867, 264 2, 876, 825	2, 900, 014 2, 905, 232 2, 913, 042	36. 4: 2, 867, 269 2, 874, 764 2, 874, 765	2, 891, 611 2, 911, 036 2, 868, 279	176: 2, 905, 237 2, 868, 284 2, 892, 493
2, 905, 581 2, 909, 456 125: 2, 903, 390	93: 2, 884, 989 95: 2, 905, 229 2, 916, 084	137: 2, 877, 828 2, 867, 264 2, 876, 825	198: 2, 869, 623 2, 871, 928 2, 891, 604	2, 876, 830 2, 884, 997 2, 888, 067	2, 891, 611 2, 911, 036 2, 868, 279	177: 2, 892, 493 2, 915, 968 2, 901, 035
128: 2, 875, 117 2, 891, 885 2, 908, 602	97: 2, 869, 615 103: 2, 875, 811 2, 887, 149	138: 2, 878, 153 2, 893, 474 2, 867, 268	2, 902, 085 2, 914, 119 2, 882, 958	2, 877, 839 2, 880, 790 2, 884, 997	2, 891, 611 2, 911, 036 2, 868, 279	178: 2, 901, 035 180: 2, 873, 800 188: 2, 889, 875
129: 2, 872, 366 130: 2, 900, 292 2, 912, 355	105: Re. 24, 759 Re. 24, 760 2, 869, 616	139: 2, 878, 153 2, 893, 908 2, 895, 866	<b>Class 157</b> 1: 2, 881, 825 2, 903, 049	2, 877, 839 2, 880, 790 2, 884, 997	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 324 2, 906, 325 2, 906, 326
133: 2, 880, 241 2, 890, 148 136: 2, 899, 348	106: Re. 24, 759 Re. 24, 760 2, 869, 616	2, 902, 398 2, 905, 582 2, 906, 658	163: 2, 894, 566 2, 868, 275 2, 868, 323	2, 884, 997 2, 888, 067 2, 896, 700	2, 891, 611 2, 911, 036 2, 868, 279	2, 912, 048 2, 912, 049 2, 906, 326
137: 2, 879, 197 138: 2, 868, 685 2, 899, 349	107: Re. 24, 759 Re. 24, 760 2, 869, 616	2, 906, 658 2, 905, 582 2, 906, 658	166: 2, 887, 151 2, 892, 488 2, 869, 620	2, 896, 700 2, 901, 030 2, 901, 031	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
139: 2, 878, 154 2, 893, 908 2, 895, 866	99: 2, 875, 811 103: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	169: 2, 869, 620 2, 877, 830 2, 881, 823	2, 901, 031 2, 901, 031 2, 901, 031	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
2, 902, 398 2, 905, 582 2, 906, 658	104: 2, 875, 811 106: Re. 24, 759 Re. 24, 760	2, 906, 658 2, 905, 582 2, 906, 658	2, 881, 823 2, 895, 541 2, 907, 375	2, 901, 031 2, 901, 031 2, 901, 031	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
2, 914, 438 2, 908, 259 2, 908, 603	108: 2, 875, 811 110: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	2, 907, 375 2, 912, 046 2, 914, 116	2, 901, 031 2, 901, 031 2, 901, 031	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
140: 2, 908, 259 2, 908, 603 2, 919, 220	109: 2, 875, 811 111: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	171: 2, 874, 756 2, 918, 964 2, 874, 757	2, 901, 031 2, 901, 031 2, 901, 031	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
142: 2, 887, 426	112: 2, 875, 811 114: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	173: 2, 874, 757 2, 897, 878 2, 869, 622	1. 2: 2, 890, 745 2, 893, 478 2, 904, 106	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
<b>Class 155</b> 2: 2, 872, 966 2, 874, 755	115: 2, 875, 811 117: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	177: 2, 869, 622 2, 884, 992 2, 880, 784	1. 21: 2, 871, 929 2, 873, 796 2, 886, 099	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
2, 893, 469 2, 894, 561 2, 905, 227	118: 2, 875, 811 120: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	179: 2, 867, 265 2, 868, 276 2, 870, 823	2, 889, 870 2, 897, 881 2, 907, 380	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
2, 915, 107 5: 2, 892, 481 2, 903, 043	119: 2, 875, 811 121: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	2, 870, 823 2, 871, 922 2, 875, 818	2, 907, 380 2, 918, 965 2, 900, 017	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
2, 903, 043 2, 884, 045 9: 2, 879, 829	122: 2, 875, 811 124: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	2, 875, 818 2, 877, 831 2, 879, 834	1. 22: 2, 900, 017 2, 903, 050 2, 888, 064	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
2, 880, 782 2, 892, 482 2, 893, 470	125: 2, 875, 811 127: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	2, 879, 834 2, 880, 787 2, 882, 959	1. 24: 2, 888, 064 2, 900, 018 2, 906, 322	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048
2, 903, 044 2, 916, 081 2, 917, 103	128: 2, 875, 811 130: 2, 875, 811 2, 887, 149	2, 906, 658 2, 905, 582 2, 906, 658	2, 882, 959 2, 883, 960 2, 885, 068	2, 912, 047 2, 912, 047 2, 912, 047	2, 891, 611 2, 911, 036 2, 868, 279	2, 906, 325 2, 906, 326 2, 912, 048



## Class 160—Con.

329: 2,898,989  
 330: 2,882,964  
     2,884,053  
 332: 2,884,054  
 346: 2,901,037  
 348: 2,868,286  
     2,874,772  
     2,884,055  
     2,898,990  
     2,913,047  
 351: 2,870,832  
     2,887,154  
     2,911,038  
     2,901,038  
 362: 2,884,056  
 368: 2,871,936  
     2,871,937  
     2,878,866  
     2,890,747  
     2,892,497  
     2,907,384  
     2,907,385  
 369: 2,870,833  
     2,891,615  
     2,892,498  
     2,908,991  
 377: 2,888,072  
 378: 2,894,579  
 380: 2,906,327  
 381: 2,915,119  
 392: 2,897,889

## Class 161

1: 2,867,274  
     2,868,287  
     2,870,834  
     2,871,938  
     2,879,842  
     2,880,798  
     2,881,832  
     2,885,001  
     2,886,106  
     2,888,986  
     2,891,617  
     2,895,547  
     2,896,707  
     2,897,890  
     2,898,992  
     2,898,993  
     2,900,021  
     2,902,088  
     2,904,110  
     2,905,239  
     2,906,328  
     2,906,329  
     2,906,330  
     2,906,331  
     2,907,386  
     2,907,387  
     2,912,051  
     2,912,052  
     2,913,048  
     2,915,120  
     2,918,969  
 6: 2,915,121  
 7: 2,878,867  
     2,894,580  
     2,895,548  
     2,897,891  
     2,903,058  
     2,906,332  
 9: 2,870,835  
     2,893,485  
     2,902,089  
 10: 2,869,638  
     2,900,022  
 12: 2,891,618  
     2,869,639  
     2,906,333  
 18: 2,896,708  
 19: 2,895,549  
     2,903,059  
 21: 2,874,773

## Class 162

4: 2,910,398  
     2,916,412  
 10: 2,889,242  
 11: 2,898,260  
 17: 2,893,909  
     2,911,334  
 24: 2,898,994  
 25: 2,904,460  
 37: 2,885,317  
     2,891,886  
 42: 2,886,483  
 55: 2,913,362  
 61: 2,887,427  
 72: 2,901,389  
 82: 2,912,297

83: 2,906,659  
 89: 2,882,965  
 90: 2,899,350  
 102: 2,906,660  
 105: 2,913,363  
 118: 2,892,750  
     2,895,867  
 132: 2,918,398  
 134: 2,905,583  
 135: 2,905,584  
 138: 2,917,425  
 145: 2,887,428  
     2,917,426  
 146: 2,887,429  
     2,899,351  
     2,899,352  
 148: 2,899,352  
 149: 2,887,430  
 152: 2,901,390  
 156: 2,919,221  
 157: 2,905,585  
     2,916,413  
 161: 2,915,428  
 163: 2,888,376  
 164: 2,884,057  
 165: 2,895,868  
     2,899,353  
 166: 2,910,399  
 167: 2,885,318  
     2,901,391  
     2,917,427  
 168: 2,884,058  
     2,890,978  
 169: 2,884,060  
     2,887,431  
 175: 2,903,391  
 178: 2,913,364  
 181: 2,888,377  
     2,902,399  
     2,918,399  
     2,919,222  
 201: 2,886,484  
     2,913,365  
 206: 2,907,690  
 210: 2,888,378  
 211: 2,890,149  
 212: 2,882,966  
 216: 2,904,461  
 224: 2,894,869  
 236: 2,902,090  
 237: 2,905,240  
 238: 2,896,709  
 246: 2,882,967  
     2,901,039  
 255: 2,888,073  
 259: 2,901,040  
 273: 2,903,060  
     2,918,970  
 279: 2,905,241  
 295: 2,903,061  
 303: 2,911,039  
 305: 2,907,388  
     2,911,040  
 306: 2,888,074  
 317: 2,884,061  
 336: 2,911,041  
 339: 2,894,581  
 344: 2,892,499  
 352: 2,893,486  
     2,900,023  
 358: 2,890,748  
 360: 2,882,968  
 369: 2,882,969  
 370: 2,884,059  
 371: 2,893,487  
     2,896,710  
     2,900,024  
     2,911,042  
 374: 2,896,711  
 411: 2,903,062  
     2,903,063  
 415: 2,884,062

## Class 164

10: 2,872,978  
 12: 2,868,288  
     2,876,155  
 14: 2,887,155  
 17: 2,881,833  
 17.5: 2,879,843  
 29: 2,897,892  
 31: 2,897,892  
 35: 2,878,868  
 36: 2,873,801  
     2,880,799  
 37: 2,874,772  
 39: 2,902,091  
 41: 2,870,836  
     2,911,043  
 42: 2,876,835  
     2,888,075  
     2,889,877  
     2,898,995  
 43: 2,869,640  
     2,870,837

43: 2,871,939  
     2,890,749  
 46: 2,868,289  
 47: 2,877,844  
     2,884,063  
     2,898,996  
     2,898,997  
     2,905,242  
     2,908,328  
 48: 2,867,275  
     2,872,979  
     2,874,775  
     2,879,844  
     2,889,882  
     2,895,550  
     2,904,111  
 49: 2,877,845  
     2,877,846  
     2,890,750  
     2,892,500  
     2,908,329  
     2,874,776  
 50: 2,868,290  
 58: 2,896,712  
 59: 2,881,834  
     2,887,156  
 60: 2,870,838  
     2,872,980  
     2,890,751  
     2,894,582  
     2,897,893  
     2,903,064  
     2,903,934  
     2,905,243  
 61: 2,868,291  
     2,870,839  
     2,871,940  
     2,872,981  
     2,876,836  
     2,882,970  
     2,898,998  
     2,910,122  
     2,911,044  
 62: 2,881,835  
 65: 2,900,025  
 66: 2,868,292  
     2,879,845  
 68: 2,870,840  
     2,878,869  
     2,895,551  
     2,895,552  
 70: 2,888,076  
     2,894,583  
     2,895,553  
 73: 2,889,879  
 75: 2,873,802  
 77: 2,875,828  
 85: 2,868,293  
 86: 2,887,157  
 88: 2,906,334  
 89: 2,873,803  
 94: 2,882,971  
 108: 2,875,829  
 110: 2,867,276  
     2,893,488  
 111: 2,869,641  
     2,878,870  
     2,896,713  
     2,909,221  
     2,913,049  
     2,916,090  
 112: 2,878,871  
 113: 2,878,872  
     2,882,972  
     2,884,064  
     2,886,107  
     2,887,158  
     2,901,041  
     2,902,092  
     2,903,244  
 114: 2,906,335  
 115: 2,880,800  
     2,888,077  
     2,911,045  
     2,918,123  
 117: 2,878,873  
 118: 2,876,837  
     2,893,489  
 204: 2,881,836  
 226: 2,909,222

## Class 166

2: 2,878,874  
     2,888,987  
 4: 2,869,642  
 6: 2,886,108  
     2,889,880  
 7: 2,875,835  
 8: 2,907,389  
 9: 2,867,277  
     2,875,831  
     2,875,832  
     2,875,833

9: 2,880,801  
     2,885,002  
     2,885,003  
     2,897,894  
     2,903,065  
     2,910,123  
 10: 2,906,336  
 11: 2,874,777  
     2,876,838  
     2,880,802  
     2,880,803  
     2,889,881  
     2,889,882  
     2,901,043  
     2,906,337  
     2,913,050  
     2,917,112  
 15: 2,888,988  
     2,896,714  
     2,905,245  
     2,906,338  
 21: 2,918,124  
 22: 2,876,839  
     2,876,840  
     2,881,837  
     2,890,752  
     2,900,026  
     2,913,051  
 23: 2,879,846  
 27: 2,888,078  
 29: 2,868,294  
     2,868,295  
     2,887,159  
 31: 2,874,778  
     2,875,835  
     2,876,841  
     2,878,875  
     2,889,228  
     2,896,715  
     2,909,223  
 32: 2,896,716  
 33: 2,867,278  
     2,889,883  
     2,896,717  
     2,900,027  
 35: 2,895,554  
     2,896,718  
     2,906,339  
     2,918,125  
 36: 2,884,065  
     2,911,046  
 38: 2,871,941  
     2,871,942  
     2,872,982  
     2,889,884  
 39: 2,877,847  
     2,906,340  
 40: 2,881,838  
 42: 2,867,279  
     2,869,643  
     2,871,943  
     2,874,779  
     2,875,836  
     2,877,848  
     2,879,847  
     2,882,973  
     2,885,004  
     2,890,753  
     2,891,619  
     2,894,584  
     2,896,719  
     2,915,122  
     2,918,126  
 43: 2,876,842  
     2,894,585  
     2,918,127  
 44: 2,907,390  
 45: 2,871,944  
     2,909,224  
 46: 2,898,999  
     2,902,093  
     2,903,066  
     2,908,330  
 52: 2,871,945  
 54: 2,896,720  
     2,905,246  
 55: 2,876,843  
     2,884,066  
     2,889,885  
     2,896,721  
 55.5: 2,880,804  
     2,899,000  
 57: 2,914,124  
 59: 2,887,160  
     2,890,754  
     2,890,755  
     2,895,555  
 60: 2,893,490  
 61: 2,908,331  
     2,911,047  
 63: 2,870,841  
     2,904,112  
     2,909,225  
     2,915,123

63: 2,915,124  
     2,915,125  
 64: 2,871,946  
 65: 2,891,621  
 67: 2,877,849  
     2,917,113  
 68: 2,879,848  
     2,875,837  
     2,891,622  
 70: 2,870,842  
 75: 2,885,006  
     2,885,005  
 85: 2,903,067  
 88: Re.24,609  
     2,918,972  
 89: 2,889,886  
 95: 2,897,895  
 98: 2,901,044  
     2,910,124  
     2,915,126  
 99: 2,890,756  
     2,906,341  
     2,908,332  
     2,915,127  
 100: 2,873,804  
     2,886,109  
     2,892,501  
     2,903,068  
     2,903,069  
     2,903,070  
     2,903,071  
     2,903,072  
     2,904,113  
     2,905,247  
 103: 2,869,644  
     2,909,227  
     2,884,068  
     2,887,161  
     2,887,162  
     2,893,491  
     2,902,094  
     2,904,114  
     2,916,091  
 105: 2,874,780  
 115: 2,870,843  
     2,904,115  
     2,906,342  
     2,906,343  
     2,911,048  
 119: 2,868,296  
     2,884,069  
     2,893,492  
 120: 2,880,805  
 121: 2,868,297  
     2,884,070  
 124: 2,877,850  
     2,916,092  
 125: 2,885,006  
     2,894,586  
     2,901,045  
 134: 2,897,896  
     2,901,046  
 136: 2,885,007  
 137: 2,884,071  
 138: 2,880,806  
     2,909,225  
 139: 2,884,072  
     2,885,079  
     2,917,114  
 140: 2,873,805  
     2,906,344  
 141: 2,872,983  
 142: 2,905,248  
 144: 2,913,052  
 146: 2,880,807  
     2,912,053  
 152: 2,913,053  
 157: 2,905,249  
 162: 2,896,722  
 165: 2,870,844  
 166: 2,879,850  
     2,896,723  
 167: 2,874,781  
 170: 2,893,493  
     2,902,095  
 171: 2,918,973  
 172: 2,903,073  
 173: 2,867,280  
     2,868,298  
     2,868,299  
     2,881,839  
     2,881,840  
     2,888,989  
     2,918,974  
 176: 2,870,845  
     2,893,494  
 177: 2,890,757  
     2,915,128  
 178: 2,877,851  
 183: 2,894,587  
 184: 2,876,844  
 185: 2,869,645  
     2,869,646  
     2,870,846

186: 2,885,008  
     2,897,897  
 189: 2,906,345  
 192: 2,888,080  
     2,894,588  
 201: 2,878,876  
 204: 2,874,782  
     2,875,837  
     2,885,009  
     2,896,724  
 205: 2,891,623  
 212: 2,874,783  
     2,874,784  
     2,878,877  
     2,881,841  
     2,897,898  
 214: 2,906,346  
 216: 2,879,851  
     2,896,725  
     2,917,115  
 217: 2,886,110  
 218: 2,884,073  
     2,908,333  
 219: 2,871,947  
     2,885,010  
     2,885,011  
     2,887,163  
     2,903,069  
     2,903,070  
     2,903,071  
     2,903,072  
     2,904,113  
     2,905,247  
     2,869,644  
     2,909,227  
     2,884,068  
     2,887,161  
     2,888,990  
     2,900,296  
 226: 2,905,250  
 228: 2,902,096  
     2,905,251  
 235: 2,872,984  
 236: 2,877,852  
 237: 2,871,949  
     2,878,878  
     2,906,347  
 241: 2,871,950  
     2,886,111  
     2,897,899  
 242: 2,900,028  
 243: 2,872,985

## Class 167

14: 2,902,400  
     2,904,462  
 17: 2,868,686  
     2,913,366  
     2,918,400  
 20: 2,884,352  
 22: 2,867,561  
     2,867,562  
     2,868,687  
     2,871,154  
     2,873,228  
     2,874,086  
     2,875,118  
     2,875,834  
     2,876,156  
     2,877,152  
     2,877,153  
     2,878,155  
     2,882,196  
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22: 2,913,367  
     2,913,368  
     2,915,429  
     2,916,414  
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 24: 2,894,870  
     2,906,663  
 28: 2,898,263  
 30: Re.24,750  
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     2,867,563  
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     2,919,223  
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     2,919,226  
 31: 2,874,087  
     2,906,664  
 32: 2,904,463  
     2,904,464  
     2,904,465  
 33: 2,875,124  
     2,875,125  
     2,875,126  
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     2,911,335

38: 2,894,873  
     2,886,486  
     2,904,466  
 38.7: 2,904,467  
     2,908,607  
     2,875,156  
     2,883,322  
     2,895,872  
     2,900,300



39: 2,905,588 2,913,371	63: 2,914,443 2,919,230	78: 2,910,407 2,912,361	31: 2,876,846 2,877,853	8: 2,914,125 2,887,165	448: 2,888,966 2,888,997	47: 2,890,264 2,895,001
42: 2,868,688 2,870,058	65: 2,872,373 2,872,374	2,915,436 2,915,437	2,895,556 2,918,976	2,887,166 2,887,167	2,904,117 2,872,990	2,917,568 2,907,813
2,870,059 2,871,155	2,872,375 2,872,376	81: 2,915,438 2,874,089	32: 2,908,334 35: 2,909,228	2,900,030 2,900,031	2,906,354 2,869,656	2,916,540 2,870,238
2,872,368 2,872,369	2,876,159 2,877,156	2,879,203 2,879,204	36: 2,873,806 37: 2,871,953	13: 2,882,977 15: 2,888,993	460: 2,880,812 464: 2,886,116	2,878,301 2,880,262
2,880,131 2,893,913	2,877,157 2,877,158	2,879,205 2,887,436	2,890,758	2,902,097 2,913,058	465: 2,871,962 2,871,963	50.5: 2,914,599 50.52: 2,871,283
2,895,873 2,897,114	2,880,130 2,880,138	2,887,437 2,888,381	<b>Class 170</b>	19: 2,897,729 2,905,253	482: 2,884,081 488: 2,891,460	2,886,629 2,896,008
2,898,267 2,901,395	2,882,201 2,883,325	2,895,878 2,895,879	15: 2,867,283 38: 2,896,727	20: 2,872,989 2,897,901	512: 2,894,591 522: 2,882,982	50.57: 2,868,862 50.61: 2,892,008
2,907,691 2,913,372	2,885,324 2,888,380	2,897,118 2,897,119	68: 2,874,787 2,876,547	21: 2,910,127 22: 2,881,844	524: 2,873,808 525: 2,917,118	51: 2,872,503 52: 2,871,284
2,914,441	2,889,251 2,890,152	2,899,360 2,907,696	135: 2,901,047 2,913,055	29: 2,918,130 2,918,980	526: 2,879,855 2,912,055	2,873,304 2,873,305
43: 2,875,128 46: 2,880,132	2,890,984 2,890,985	2,907,697 2,914,446	135.27: 2,876,848 135.28: 2,870,847	34: 2,910,128 39: 2,886,113	545: 2,886,117 548: 2,881,846	2,873,306 2,874,205
2,884,356 2,889,246	2,891,890 2,892,753	2,918,410 2,875,130	135.29: 2,877,854 2,881,843	40: 2,897,902 41: 2,888,084	549: 2,881,847 2,898,337	2,876,277 2,887,525
2,900,302 2,900,303	2,894,874 2,895,876	2,876,160 2,877,159	2,881,843 2,888,302	2,907,395 2,876,850	554: 2,870,850 2,902,099	2,892,009 2,904,617
49.5: 2,880,134 51: 2,911,338	2,895,877 2,897,116	2,878,160 2,883,327	2,871,954 2,889,887	2,893,497 2,903,077	555: 2,881,848 2,908,338	2,904,618 2,914,600
51.5: 2,867,565 2,889,247	2,898,268 2,899,358	2,887,438 2,887,439	2,894,589 2,915,129	44: 2,892,504 2,900,031	558: 2,901,049 580: 2,881,849	2,916,541 2,890,265
2,907,692	2,899,359 2,900,304	2,887,440 2,888,382	135.72: 2,891,626 2,910,125	47: 2,868,305 56: 2,877,857	581: 2,897,905 583: 2,880,813	2,902,534 2,908,743
52: 2,868,689 2,908,690	2,902,403 2,902,404	2,895,880 2,895,881	135.74: 2,872,986 2,878,880	57: 2,876,851 63: 2,871,955	597: 2,879,856 599: 2,904,118	2,886,630 2,881,240
2,872,370 2,878,157	2,903,395 2,903,396	2,897,120 2,897,121	2,913,056 2,893,495	67: 2,875,838 2,887,168	611: 2,907,396 620: 2,905,257	2,892,010 2,882,332
2,878,158 2,882,200	2,904,469 2,905,590	2,897,122 2,902,407	147: 2,916,093 159: 2,872,987	72: 2,871,956 75: 2,880,811	624: 2,871,954 691: 2,917,119	2,891,101 2,880,263
2,883,323 2,890,979	2,906,666 2,907,693	2,902,408 2,903,397	2,882,974 2,884,077	77: 2,910,129 79: 2,882,978	710: 2,869,657 719: 2,884,082	2,914,601 2,872,504
2,915,431	2,907,694 2,908,611	2,918,411 2,870,062	2,884,077 2,893,496	88: 2,873,807 96: 2,871,957	2,885,014 730: 2,882,983	2,892,011 2,880,264
53: Re.24,657 2,871,156	2,908,612 2,909,463	2,889,252 2,899,361	2,918,977 2,880,809	2,871,958 2,902,098	736: 2,907,397 2,915,131	2,891,102 2,902,535
2,876,157 2,876,158	2,909,464 2,877,155	84: 2,899,362 2,892,755	2,880,809 2,918,128	103: 2,888,994 136: 2,879,852	2,918,132 740: 2,893,499	2,885,460 2,897,253
2,884,357 2,880,135	2,909,465 2,909,466	2,899,363 2,876,161	160.11: 2,869,649 2,885,012	142: 2,876,852 158: 2,869,730	747: 2,913,060 753: 2,876,853	2,902,536 2,895,002
2,890,980 2,890,981	2,910,403 2,914,444	87: 2,901,399 2,871,161	160.13: 2,892,502 2,868,303	166: 2,887,169 194: 2,894,590	754: 2,898,339 762: 2,895,559	2,897,253 2,872,504
2,892,752 2,893,914	2,915,432 2,916,417	87.1: 2,871,161 2,892,756	2,868,303 2,910,126	197: 2,871,959 200: 2,868,306	2,904,119 2,908,340	2,896,009 2,903,502
2,902,402 2,908,608	2,917,432 2,917,433	90: 2,872,379 2,876,162	160.21: 2,869,650 2,887,164	210: 2,891,459 2,895,558		2,906,808 2,878,302
2,909,451 2,918,403	2,917,434 2,918,405	2,876,163 2,876,164	2,911,050 2,916,094	2,900,032 2,869,653	<b>Class 174</b>	2,905,743 2,906,809
53.1: 2,867,566 2,872,371	2,918,406 2,918,407	2,880,140 2,889,253	2,918,129 2,891,627	2,900,033 2,906,352	5: 2,871,282 2,888,509	2,879,320 2,901,528
2,879,201 2,881,112	2,918,408 2,919,228	2,890,987 2,893,918	160.23: 2,899,229 2,918,978	2,916,096 2,916,097	6: 2,909,589 8: 2,892,880	2,911,459 2,908,744
2,885,321 2,895,874	2,919,229 2,872,377	2,898,269 2,900,306	160.24: 2,917,856 2,888,991	219: 2,874,788 224: 2,913,050	11: 2,904,616 12: 2,903,500	2,874,206 2,876,274
2,899,356	2,908,613 Re.24,642	2,900,307 2,906,668	160.25: 2,888,992 2,889,888	225: 2,868,307 2,882,979	13: 2,908,741 15: 2,875,263	2,881,241 2,879,321
53.2: 2,898,609 54: 2,868,691	68: 2,883,326 2,893,916	92: 2,876,165 2,876,166	160.31: 2,889,888 2,882,975	226: 2,871,960 2,879,853	2,878,300 2,879,317	2,902,537 2,907,814
55: 2,868,692 2,868,693	70: 2,872,378 2,900,305	93: 2,876,167 2,876,168	160.32: 2,903,075 2,913,057	236: 2,882,980 239: 2,874,789	2,883,445 2,886,625	81: 2,908,745 83: 2,900,435
2,875,129 2,880,136	2,902,405 2,904,470	2,882,204 2,888,383	160.34: 2,916,095 2,918,128	240: 2,888,085 241: 2,882,981	2,888,510 2,906,807	84: 2,883,447 2,885,461
2,881,113 2,889,248	74: 2,867,567 2,871,159	2,894,876 2,901,400	160.37: 2,880,810 2,870,848	255: 2,871,961 263: 2,897,903	2,910,524 2,914,598	2,889,393 2,917,569
2,889,249 2,890,982	2,874,088 2,880,139	2,913,373 2,875,131	160.39: 2,870,848 2,885,013	265: 2,906,353 269: 2,897,904	16: 2,897,251 17: 2,867,679	2,918,519 2,877,287
2,893,915 2,899,357	2,884,358 2,890,986	94: 2,889,254 2,905,591	168: 2,903,076 169: 2,872,988	272: 2,869,654 2,888,995	2,870,236 18: 2,886,626	2,900,436 2,870,239
2,906,665 2,912,358	2,892,754 2,894,875	95: 2,918,412 2,870,063	173: 2,869,651 2,892,503	273: 2,886,114 2,900,034	19: 2,903,501 21: 2,894,054	87: 2,870,239 2,872,505
2,916,416 2,917,430	2,904,471 2,906,667	2,906,349 2,891,891	2,906,349 2,909,230	275: 2,904,116 276: 2,878,881	22: 2,886,627 28: 2,892,007	2,890,266 2,910,525
50: 2,870,060 2,870,061	2,907,695 2,909,468	<b>Class 168</b>	<b>Class 171</b>	302: 2,881,581 319: 2,899,002	29: 2,900,263 30: 2,899,482	88: 2,870,240 2,875,264
2,871,157 2,871,158	2,910,404 2,910,405	4: 2,869,647	10: 2,906,350 12: Re.24,585	328: 2,869,305 354: 2,889,889	31: 2,894,055 2,912,480	2,875,264 2,889,394
2,885,322 2,908,610	2,912,359 2,912,360	<b>Class 169</b>	18: 2,905,252 24: 2,909,231	371: 2,890,003 2,903,078	34: 2,872,501 2,886,628	2,890,267 2,904,619
2,900,462 2,917,431	2,914,445 2,916,418	1: 2,884,075 2,891,624	28: 2,901,048 2,911,051	372: 2,903,079 376: 2,873,809	35: 2,872,502 2,876,275	2,913,513 2,884,477
58: 2,872,372 2,880,137	74.6: 2,901,396 2,918,409	2: 2,867,281 2,917,116	58: 2,888,081 2,907,393	379: 2,887,170 383: 2,886,115	2,876,276 2,877,286	89: 2,884,477 2,882,333
2,881,114 2,883,324	2,878,159 2,885,323	4: 2,867,282 2,868,300	61: 2,872,987 63: 2,888,082	387: 2,869,655 397: 2,881,578	2,883,446 2,885,459	90: 2,913,514 2,887,288
2,886,487 2,886,488	2,882,202 2,882,203	5: 2,871,951 2,884,076	99: 2,884,079 105: 2,918,979	401: 2,879,854 413: 2,870,849	2,897,252 2,902,533	92: 2,867,680 2,877,288
2,887,435 2,889,250	2,897,117 2,902,406	11: 2,878,879 2,868,301	115: 2,869,652 2,876,849	2,889,890 2,905,254	2,905,742 2,908,742	2,894,056 2,868,863
2,890,983 2,894,023	77: 2,871,160 2,893,917	22: 2,868,301 2,900,029	126: 2,897,900 128: 2,882,976	414: 2,917,117 415: 2,884,080	2,911,458 36: 2,879,318	94: 2,870,241 2,884,478
2,895,875 2,903,394	2,901,397 2,915,434	23: 2,880,808 2,891,625	130: 2,896,728	441: 2,905,255 2,908,336	42: 2,884,476 2,907,811	2,885,462 2,868,864
2,904,468 2,905,589	78: Re.24,748 2,879,202	24: 2,874,786 2,918,975	<b>Class 172</b>	445: 2,918,131 447: 2,881,845	43: 2,868,861 2,887,524	99: 2,874,207 2,875,265
2,914,442 2,918,404	2,901,398 2,908,614	26: 2,871,952 2,876,845	3: 2,888,083 7: 2,907,394	2,905,256	44: 2,907,812	2,877,289 2,881,242
62: 2,897,115		2,911,049				2,892,012 2,903,503



## Class 174—Con.

102: 2, 873, 307  
2, 913, 515  
107: 2, 881, 243  
108: 2, 886, 631  
2, 894, 057  
116: 2, 900, 437  
117: 2, 888, 511  
2, 897, 254  
120: 2, 917, 570  
121: 2, 907, 815  
126: 2, 904, 621  
135: 2, 870, 242  
138: Re. 24,753  
2, 868, 895  
2, 875, 266  
2, 899, 483  
2, 905, 744  
2, 912, 481  
139: 2, 875, 267  
140: 2, 867, 682  
2, 868, 865  
2, 879, 322  
2, 889, 395  
2, 914, 602  
144: 2, 899, 484  
146: 2, 912, 482  
2, 918, 520  
152: 2, 867, 683  
2, 874, 208  
2, 880, 265  
2, 887, 526  
2, 890, 268  
2, 898, 395  
2, 898, 396  
2, 901, 529  
2, 903, 504  
2, 918, 521  
153: 2, 868, 866  
2, 868, 867  
2, 868, 868  
2, 870, 243  
2, 872, 506  
2, 878, 303  
2, 891, 103  
2, 892, 013  
2, 895, 003  
2, 896, 010  
2, 899, 485  
2, 900, 438  
2, 904, 622  
2, 911, 460  
2, 919, 300  
161: 2, 889, 396  
162: 2, 909, 590  
168: 2, 883, 448  
2, 896, 011  
2, 897, 255  
165: 2, 870, 244  
166: 2, 899, 486  
167: 2, 874, 209  
2, 878, 304  
170: 2, 899, 487  
171: 2, 896, 012  
2, 913, 516  
173: 2, 897, 256  
175: 2, 870, 245  
177: 2, 879, 323  
2, 909, 591  
178: 2, 889, 397  
183: 2, 897, 257  
211: 2, 884, 479  
212: 2, 892, 014

## Class 178

2: 2, 867, 684  
2, 868, 869  
2, 871, 286  
2, 874, 210  
2, 878, 305  
2, 887, 527  
2, 892, 881  
2, 897, 258  
2, 901, 530  
2, 902, 538  
2, 904, 623  
2, 905, 745  
2, 912, 483  
2, 916, 542  
2, 919, 301  
4: 2, 878, 306  
4.1: 2, 873, 308  
2, 889, 398  
2, 904, 624  
2, 905, 746  
2, 912, 484  
2, 912, 485  
2, 913, 517  
5: 2, 870, 246  
2, 908, 746  
5.1: 2, 872, 507  
2, 875, 268  
2, 875, 269

5.1: 2, 875, 270  
2, 879, 324  
2, 881, 244  
2, 883, 449  
2, 889, 399  
2, 890, 269  
2, 892, 882  
2, 905, 747  
2, 907, 816  
2, 909, 592  
2, 910, 526  
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2, 912, 486  
2, 913, 518  
2, 914, 603  
2, 916, 543  
2, 918, 522  
5.2: 2, 868, 870  
2, 870, 247  
2, 870, 248  
2, 872, 508  
2, 875, 271  
2, 876, 278  
2, 877, 290  
2, 878, 307  
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2, 902, 539  
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2, 911, 461  
2, 912, 487  
2, 918, 523  
5.4: Re. 24,685  
Re. 24,688  
Re. 24,747  
2, 868, 871  
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2, 873, 309  
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2, 888, 512  
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2, 891, 104  
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	2,909,609		2,913,530		2,867,693		2,919,314		2,881,268		2,914,622	54:	2,871,967	
	2,914,615		2,913,531		2,868,889	100. 3:	2,880,281		2,881,269		2,914,623		2,871,968	
	2,915,590		2,913,532		2,868,891		2,885,490		2,881,270		2,915,599		2,875,840	
17:	2,871,296		2,913,533		2,870,265		2,885,491		2,882,350		2,915,600		2,886,120	
	2,873,316		2,914,616		2,870,266	100. 4:	2,867,694		2,882,351		2,915,601		2,888,999	
	2,874,223		2,914,617		2,870,267		2,881,264		2,882,352		2,915,602		2,895,560	
	2,875,279		2,914,618		2,870,270		2,883,477		2,882,353		2,915,603		2,901,052	
	2,877,311		2,916,554		2,872,530		2,907,835		2,882,354		2,916,565		2,913,065	
	2,884,488		2,916,555		2,872,531	100. 41:	2,868,892		2,883,479		2,875,285	175:	2,869,662	
	2,886,644		2,916,556		2,873,318		2,868,893		2,883,480		2,886,660		2,888,088	
	2,889,410		2,916,557		2,873,319		2,875,282		2,883,481		2,890,296	175. 1:	2,870,272	
	2,892,036		2,917,586		2,874,227		2,883,478		2,884,492		2,868,899	175. 2:	2,868,899	
	2,895,010		2,918,533		2,874,228		2,900,452		2,884,493		2,873,321		2,900,035	
	2,896,023		2,919,309		2,876,294		2,902,645		2,885,494		2,873,322		2,918,981	
	2,897,276	22:	2,871,299		2,876,295		2,916,561		2,885,495		2,873,323		2,875,841	
	2,901,544		2,872,527		2,876,296		2,917,590		2,885,496		2,875,286	55:	2,869,662	
	2,904,633		2,907,832		2,878,321		2,918,538		2,885,497		2,876,300		2,885,017	
	2,908,762		2,911,479		2,879,340	103:	2,874,229		2,885,498		2,878,328		2,893,502	
	2,910,543		2,913,534		2,879,341		2,907,836		2,886,655		2,880,283		2,902,102	
	2,917,585	23:	2,877,307		2,880,280		2,910,538		2,886,656		2,897,298		2,908,341	
18:	Re. 24,679		2,911,480		2,880,279	107:	2,874,230		2,886,657		2,914,624	175. 21:	2,914,624	
	Re. 26,680	27:	2,868,886		2,880,280		2,874,231		2,886,659		2,890,297	175. 31:	2,890,297	
	2,868,883		2,871,300		2,881,263		2,875,322		2,887,540		2,890,298		2,916,098	
	2,868,884		2,871,301		2,882,347		2,882,348		2,887,541		2,871,307		2,918,982	
	2,868,885		2,871,302		2,883,475		2,891,116		2,887,542		2,875,287	66:	2,916,098	
	2,870,261		2,872,528		2,883,476		2,894,076		2,888,524		2,878,328	67:	2,918,982	
	2,871,297		2,874,225		2,885,488		2,896,024		2,888,525		2,880,283	68:	2,868,308	
	2,871,298		2,876,291		2,885,489		2,901,551		2,888,526		2,882,355		2,906,359	
	2,872,524		2,881,261		2,886,650		2,904,639		2,888,527				2,912,057	
	2,872,525		2,883,471		2,886,651		2,909,619		2,888,528			68. 5:	2,869,663	
	2,872,526		2,885,519		2,886,652		2,915,598		2,889,415		1:	2,869,658		2,870,855
	2,874,224		2,889,412		2,888,522	108:	2,912,522		2,889,416		2,870,851		2,910,132	
	2,875,280		2,892,038		2,889,414		2,912,523		2,889,417		2,872,991		2,918,983	
	2,876,285		2,892,039		2,890,288	110:	2,905,771		2,890,290		2,882,984	69. 1:	2,902,103	
	2,876,286		2,892,040		2,891,115		2,910,545		2,890,291		2,882,985	70:	2,876,855	
	2,876,287		2,892,041		2,892,040		2,911,484		2,890,292		2,885,086		2,896,732	
	2,876,288		2,892,042		2,892,041	111:	2,868,894		2,890,293		2,886,500		2,906,360	
	2,876,289		2,892,043		2,892,042		2,872,532		2,890,294		2,902,100	73:	2,909,233	
	2,876,290		2,892,044		2,892,043		2,873,323		2,890,295		2,906,355		2,911,052	
	2,877,306		2,892,045		2,892,044		2,874,233		2,890,296		2,913,132	74:	2,914,129	
	2,878,320		2,892,046		2,892,045		2,875,324		2,890,297		2,914,126	75:	2,885,018	
	2,879,338	27. 5:	2,876,292		2,892,046		2,876,325		2,890,298		2,875,288		2,893,503	
	2,879,339	27. 51:	2,899,504		2,892,047		2,877,326		2,890,299		2,876,329	77:	2,914,130	
	2,880,276	27. 52:	2,870,262		2,892,048		2,878,327		2,890,300		2,877,330	79:	2,885,019	
	2,880,277	27. 54:	2,867,691		2,892,049		2,879,328		2,890,301		2,878,331	79. 1:	2,907,399	
	2,881,258		2,895,013		2,892,050		2,880,281		2,890,302		2,879,332	79. 2:	2,867,284	
	2,881,259		2,901,547		2,892,051		2,881,264		2,890,303		2,880,814		2,869,664	
	2,881,260		2,903,520		2,892,052	115. 5:	2,897,291		2,890,304		2,881,265		2,869,665	
	2,882,341		2,905,765		2,892,053		2,897,292		2,890,305		2,882,346		2,871,969	
	2,883,462		2,907,834		2,892,054		2,898,325		2,890,306		2,883,463		2,872,993	
	2,884,483		2,909,613		2,892,055		2,899,358		2,890,307		2,884,484		2,874,792	
	2,885,504		2,911,481		2,892,056		2,900,453		2,890,308		2,885,505		2,875,843	
	2,886,645		2,913,532		2,892,057		2,901,554		2,890,309		2,886,646		2,885,020	
	2,887,766		2,915,592		2,892,058		2,902,646		2,890,310		2,887,767		2,885,021	
	2,889,411		2,917,587		2,892,059		2,903,779		2,890,311		2,888,888		2,885,022	
	2,890,286		2,919,310		2,892,060		2,904,910		2,890,312		2,889,409		2,886,647	
	2,891,113	31:	2,897,285		2,892,061		2,906,049		2,890,313		2,890,290		2,887,768	
	2,892,037	39:	2,871,303		2,892,062		2,907,188		2,890,314		2,891,259		2,888,889	
	2,892,893		2,883,472		2,892,063		2,908,327		2,890,315		2,892,037		2,889,410	
	2,892,894		2,870,263		2,892,064		2,909,466		2,890,316		2,893,576		2,890,286	
	2,894,071		2,894,074		2,892,065		2,910,605		2,890,317		2,894,615		2,891,113	
	2,895,011		2,895,017		2,892,066		2,911,744		2,890,318		2,895,654		2,892,037	
	2,895,012		2,896,646		2,892,067		2,912,883		2,890,319		2,896,793		2,892,893	
	2,897,277		2,897,277		2,892,068		2,914,022		2,890,320		2,897,932		2,893,577	
	2,897,278		2,898,413		2,892,069		2,915,161		2,890,321		2,898,071		2,894,712	
	2,897,279		2,899,558		2,892,070		2,916,300		2,890,322		2,899,210		2,895,851	
	2,897,280		2,900,697		2,892,071		2,917,439		2,890,323		2,899,349		2,896,990	
	2,897,281		2,901,836		2,892,072		2,918,578		2,890,324		2,899,488		2,898,129	
	2,897,282		2,902,975		2,892,073		2,919,717		2,890,325		2,899,627		2,899,268	
	2,897,283		2,904,114		2,892,074		2,920,856		2,890,326		2,899,766		2,900,407	



## Class 180—Con.

82: 2, 914, 131  
2, 917, 126  
82.1: 2, 897, 906  
2, 911, 054  
2, 912, 058  
2, 916, 100  
83: 2, 896, 735  
89: 2, 868, 310  
90: 2, 876, 857  
2, 904, 122  
2, 912, 059  
90.6: 2, 909, 234

## Class 181

.5: 2, 868, 311  
2, 869, 666  
2, 870, 856  
2, 871, 970  
2, 872, 994  
2, 872, 995  
2, 872, 996  
2, 874, 794  
2, 874, 795  
2, 877, 859  
2, 878, 886  
2, 879, 860  
2, 880, 816  
2, 882, 988  
2, 884, 084  
2, 884, 085  
2, 885, 023  
2, 887, 172  
2, 888, 089  
2, 889, 000  
2, 889, 001  
2, 894, 595  
2, 894, 596  
2, 894, 597  
2, 897, 907  
2, 900, 037  
2, 900, 038  
2, 902, 106  
2, 902, 107  
2, 905, 258  
2, 906, 363  
2, 907, 400  
2, 908, 342  
2, 910, 133  
2, 910, 134  
2, 912, 060  
23: 2, 908, 343  
24: 2, 893, 507  
2, 900, 039  
2, 902, 108  
26: 2, 876, 858  
27: 2, 869, 667  
2, 869, 668  
2, 869, 669  
2, 877, 862  
2, 905, 259  
30: 2, 896, 736  
31: 2, 871, 971  
2, 871, 972  
2, 872, 997  
2, 873, 812  
2, 878, 887  
2, 880, 817  
2, 881, 850  
2, 885, 024  
2, 888, 090  
2, 890, 760  
2, 891, 629  
2, 896, 737  
2, 900, 040  
2, 903, 084  
2, 904, 123  
2, 904, 124  
2, 912, 061  
2, 913, 067  
2, 915, 134  
2, 917, 127  
32: 2, 873, 813  
2, 905, 260  
33: 2, 870, 857  
2, 870, 858  
2, 874, 796  
2, 882, 989  
2, 882, 990  
2, 887, 173  
2, 897, 908  
2, 915, 135  
35: 2, 869, 670  
2, 896, 738  
36: 2, 892, 507  
2, 917, 128  
40: 2, 881, 851  
42: 2, 886, 121  
2, 904, 125  
2, 909, 235  
2, 914, 132  
2, 916, 101  
2, 918, 984

43: 2, 894, 598  
45: 2, 893, 508  
46: 2, 893, 509  
47: 2, 903, 085  
2, 906, 364  
48: 2, 876, 859  
50: 2, 869, 671  
2, 877, 860  
2, 878, 888  
2, 884, 086  
2, 897, 909  
53: 2, 872, 998  
2, 902, 109  
2, 914, 133  
54: 2, 899, 007  
57: 2, 881, 852  
2, 882, 991  
2, 915, 136  
59: 2, 908, 344  
60: 2, 879, 861  
2, 882, 992  
61: 2, 895, 562  
2, 912, 062  
66: 2, 912, 063  
67: 2, 911, 055  
69: 2, 882, 993

## Class 182

2: 2, 915, 137  
13: 2, 902, 110  
15: 2, 897, 910  
25: 2, 899, 008  
26: 2, 909, 236  
27: 2, 901, 054  
49: 2, 901, 055  
78: 2, 907, 401  
85: 2, 901, 056  
2, 905, 261  
103: 2, 904, 126  
104: 2, 899, 009  
106: 2, 907, 402  
107: 2, 904, 127  
108: 2, 904, 128  
113: 2, 910, 135  
118: 2, 899, 010  
127: 2, 914, 134  
136: 2, 905, 262  
2, 906, 365  
139: 2, 906, 366  
142: 2, 918, 136  
152: 2, 916, 102  
2, 917, 129  
154: 2, 905, 263  
155: 2, 897, 911  
2, 901, 057  
163: 2, 905, 264  
178: 2, 900, 041  
201: 2, 914, 135  
214: 2, 908, 345  
223: 2, 918, 985  
226: 2, 897, 912  
228: 2, 899, 011  
229: 2, 903, 086

## Class 183

2: 2, 869, 672  
2, 881, 853  
2, 886, 122  
2, 888, 091  
2, 891, 630  
2, 892, 508  
2, 899, 012  
2, 902, 111  
2, 911, 056  
2, 911, 057  
2.5: 2, 869, 673  
2, 869, 674  
2, 870, 859  
2, 872, 999  
2, 876, 860  
2, 878, 889  
2, 885, 025  
2, 897, 913  
2, 906, 367  
2, 908, 346  
2, 913, 068  
2.7: 2, 868, 312  
2, 868, 313  
2, 868, 314  
2, 868, 315  
2, 869, 675  
2, 869, 676  
2, 870, 860  
2, 873, 814  
2, 882, 994  
2, 882, 995  
2, 887, 174  
2, 893, 510  
2, 899, 013  
2, 899, 014  
2, 901, 058

2.7: 2, 903, 087  
2, 903, 088  
2, 910, 136  
2, 911, 058  
2, 911, 059  
2, 916, 103  
3: 2, 871, 973  
2, 896, 740  
4.1: 2, 878, 890  
4.3: 2, 875, 844  
2, 881, 854  
2, 886, 123  
2, 886, 124  
2, 910, 137  
4.5: 2, 868, 316  
4.6: 2, 877, 861  
4.7: 2, 880, 818  
5: 2, 869, 677  
2, 873, 815  
6: 2, 879, 862  
2, 889, 002  
2, 906, 368  
7: 2, 867, 285  
2, 867, 286  
2, 867, 287  
2, 868, 317  
2, 868, 318  
2, 868, 319  
2, 869, 678  
2, 870, 861  
2, 871, 974  
2, 873, 000  
2, 875, 845  
2, 876, 861  
2, 881, 855  
2, 881, 856  
2, 881, 857  
2, 884, 087  
2, 885, 026  
2, 887, 175  
2, 887, 176  
2, 888, 092  
2, 893, 511  
2, 895, 563  
2, 896, 741  
2, 897, 914  
2, 900, 042  
2, 903, 089  
2, 906, 369  
2, 907, 403  
2, 908, 347  
2, 908, 348  
2, 911, 060  
2, 917, 130  
2, 918, 137  
9: 2, 907, 404  
13: 2, 889, 003  
2, 911, 061  
15: 2, 869, 679  
2, 889, 004  
2, 896, 742  
2, 902, 112  
2, 905, 265  
18: 2, 874, 797  
21: 2, 871, 975  
22: 2, 886, 125  
2, 889, 005  
24: 2, 881, 858  
2, 910, 138  
25: 2, 870, 862  
26: 2, 873, 816  
2, 882, 996  
2, 886, 126  
2, 892, 509  
30: 2, 874, 798  
2, 908, 349  
32: 2, 884, 088  
34: 2, 868, 320  
2, 874, 799  
2, 878, 891  
2, 884, 089  
2, 885, 027  
2, 887, 177  
2, 894, 599  
36: 2, 888, 093  
2, 891, 631  
37: 2, 868, 321  
2, 875, 846  
2, 886, 127  
2, 889, 006  
2, 889, 007  
2, 890, 761  
2, 895, 564  
2, 905, 266  
2, 905, 267  
2, 911, 062  
2, 914, 136  
2, 916, 104  
40: 2, 886, 128  
2, 890, 762  
2, 911, 067  
41: 2, 887, 178  
2, 888, 094  
2, 892, 510

41: 2, 907, 405  
43: 2, 870, 863  
44: 2, 871, 976  
2, 874, 800  
2, 882, 997  
2, 886, 129  
2, 886, 130  
2, 892, 511  
2, 892, 512  
2, 904, 129  
2, 905, 268  
2, 906, 370  
2, 908, 350  
2, 909, 237  
45: 2, 871, 977  
2, 888, 095  
48: 2, 868, 322  
49: 2, 877, 863  
2, 890, 763  
51: 2, 885, 028  
2, 895, 565  
2, 897, 915  
2, 909, 238  
52: 2, 870, 864  
54: 2, 902, 113  
57: 2, 871, 978  
58: 2, 873, 001  
2, 879, 863  
2, 880, 819  
59: 2, 911, 064  
61: 2, 867, 288  
2, 867, 289  
2, 884, 090  
2, 906, 371  
2, 909, 239  
62: 2, 869, 680  
2, 881, 859  
2, 881, 860  
2, 881, 861  
2, 897, 916  
2, 907, 406  
63: 2, 877, 865  
67: 2, 894, 600  
69: 2, 918, 138  
71: 2, 884, 091  
2, 896, 743  
2, 907, 407  
2, 907, 408  
75: 2, 868, 323  
2, 912, 064  
76: 2, 878, 892  
2, 901, 060  
77: 2, 868, 324  
2, 897, 917  
80: 2, 878, 893  
2, 888, 096  
2, 911, 065  
2, 911, 066  
81: 2, 889, 008  
2, 918, 139  
83: 2, 867, 290  
2, 874, 801  
2, 880, 764  
2, 896, 744  
2, 904, 130  
85: 2, 889, 892  
2, 891, 632  
2, 917, 131  
91: 2, 884, 092  
105: 2, 876, 862  
114: 2, 870, 865  
2, 874, 802  
2, 876, 863  
2, 876, 864  
114.2: 2, 875, 847  
2, 881, 862  
2, 882, 998  
2, 886, 131  
2, 889, 893  
2, 893, 512  
2, 910, 139  
2, 910, 140  
2, 918, 140  
114.6: 2, 894, 601  
2, 868, 325  
115: 2, 868, 326  
2, 868, 327  
2, 868, 328  
2, 870, 866  
2, 870, 867  
2, 870, 868  
2, 871, 979  
2, 875, 848  
2, 875, 849  
2, 877, 864  
2, 891, 633  
2, 900, 044  
2, 901, 061  
2, 907, 409  
2, 909, 240  
2, 909, 241  
2, 911, 067  
2, 915, 138  
2, 915, 139  
2, 915, 140

115: 2, 915, 141  
2, 915, 142  
2, 918, 141  
119: 2, 897, 918  
120: 2, 870, 869  
2, 875, 865  
2, 877, 866  
2, 894, 602  
121: 2, 894, 603  
2, 895, 566  
2, 906, 372  
2, 896, 745

## Class 184

1: 2, 873, 817  
2, 886, 132  
2, 891, 634  
2, 911, 068  
1.5: 2, 877, 867  
3: 2, 871, 980  
2, 884, 093  
2, 885, 029  
2, 887, 179  
2, 903, 090  
2, 907, 410  
6: 2, 870, 870  
2, 871, 981  
2, 871, 982  
2, 873, 002  
2, 874, 803  
2, 874, 804  
2, 875, 850  
2, 878, 894  
2, 880, 820  
2, 881, 863  
2, 886, 133  
2, 887, 180  
2, 888, 097  
2, 893, 513  
2, 899, 015  
2, 899, 016  
2, 907, 411  
2, 908, 351  
2, 908, 352  
2, 908, 353  
2, 909, 242  
2, 910, 141  
2, 910, 142  
2, 910, 143  
2, 913, 069  
2, 914, 137  
2, 917, 132  
2, 918, 142  
2, 918, 986  
7: 2, 879, 864  
2, 882, 999  
2, 888, 098  
2, 905, 269  
2, 905, 270  
13: 2, 912, 065  
15: 2, 871, 983  
2, 883, 000  
2, 886, 134  
2, 893, 515  
2, 896, 746  
2, 905, 271  
2, 908, 354  
2, 908, 355  
2, 917, 133  
17: 2, 893, 516  
27: 2, 873, 003  
2, 899, 017  
31: 2, 883, 001  
32: 2, 886, 135  
55: 2, 873, 818  
2, 878, 895  
2, 887, 181  
2, 889, 009  
2, 890, 765  
2, 897, 919  
2, 899, 018  
103: 2, 903, 091  
105: 2, 869, 681  
2, 878, 896  
106: 2, 868, 329  
2, 899, 019

## Class 185

37: 2, 868, 330  
2, 881, 864  
2, 896, 747  
2, 911, 063  
39: 2, 908, 356  
41: 2, 869, 682  
2, 875, 851  
2, 876, 866  
44: 2, 887, 182

## Class 186

1: 2, 871, 984  
2, 884, 094

1: 2, 893, 517  
2, 894, 604  
2, 896, 748  
2, 900, 045  
2, 900, 046  
2, 902, 114  
2, 902, 115  
2, 904, 131  
2, 912, 066

## Class 187

2: 2, 883, 002  
8.41: 2, 915, 143  
8.43: 2, 892, 513  
2, 902, 116  
8.72: 2, 874, 805  
8.75: 2, 878, 897  
2, 899, 020  
2, 904, 132  
9: 2, 875, 852  
2, 877, 863  
2, 883, 003  
2, 895, 567  
2, 906, 373  
2, 915, 144  
2, 918, 143  
10: 2, 881, 865  
11: 2, 894, 605  
2, 905, 272  
12: 2, 888, 099  
13: 2, 886, 136  
17: 2, 868, 331  
2, 883, 004  
2, 891, 635  
2, 891, 636  
2, 906, 374  
2, 874, 807  
2, 867, 292  
2, 867, 293  
2, 868, 332  
2, 871, 985  
2, 873, 819  
2, 874, 806  
2, 875, 853  
2, 880, 821  
2, 886, 137  
2, 889, 010  
2, 900, 047  
2, 900, 048  
2, 902, 117  
2, 903, 092  
2, 903, 093  
2, 913, 070  
2, 914, 138  
2, 918, 987  
31: 2, 918, 988  
48: 2, 918, 144  
52: 2, 878, 898  
2, 899, 024  
76: 2, 895, 568  
88: 2, 897, 920

## Class 188

1: 2, 870, 871  
2, 875, 854  
2, 889, 011  
2, 890, 766  
2, 900, 049  
2, 901, 015  
2: 2, 878, 899  
2, 899, 022  
2, 909, 245  
3: 2, 867, 294  
2, 887, 183  
2, 905, 273  
2, 912, 067  
4: 2, 868, 333  
2, 886, 138  
2, 887, 184  
2, 887, 185  
5: 2, 871, 986  
2, 877, 869  
2, 885, 030  
2, 886, 139  
6: 2, 868, 334  
17: 2, 892, 514  
18: 2, 871, 987  
2, 875, 855  
2, 880, 118  
20: 2, 873, 820  
26: 2, 871, 988  
29: 2, 909, 244  
32: 2, 870, 872  
2, 895, 569  
2, 903, 094  
33: 2, 870, 873  
2, 871, 989  
2, 873, 821  
2, 877, 870  
42: 2, 893, 518  
46: 2, 911, 069  
52: 2, 892, 515  
53: 2, 883, 005  
2, 887, 186

56: 2, 883, 006  
2, 900, 050  
2, 917, 134  
59: 2, 869, 683  
2, 873, 004  
2, 877, 871  
2, 890, 767  
2, 890, 768  
2, 903, 095  
2, 903, 096  
2, 903, 097  
2, 903, 098  
2, 911, 070  
62: 2, 880, 822  
2, 894, 606  
2, 904, 133  
2, 905, 274  
65.1: 2, 870, 874  
2, 876, 867  
2, 918, 989  
68: 2, 873, 822  
69: 2, 875, 856  
2, 879, 865  
2, 881, 866  
2, 908, 357  
70: 2, 871, 990  
2, 871, 991  
2, 871, 992  
2, 897, 921  
2, 897, 922  
2, 906, 375  
2, 910, 144  
2, 915, 145  
71: 2, 888, 101  
2, 893, 519  
72: 2, 868, 335  
2, 874, 807  
2, 875, 857  
2, 878, 900  
2, 880, 823  
2, 883, 007  
2, 883, 008  
2, 883, 009  
2, 885, 031  
2, 886, 140  
2, 888, 102  
2, 888, 103  
2, 889, 894  
2, 890, 769  
2, 908, 358  
2, 909, 245  
2, 911, 071  
2, 914, 140  
2, 914, 141  
2, 914, 142  
2, 915, 146  
2, 916, 105  
73: 2, 867, 295  
2, 873, 005  
2, 878, 901  
2, 881, 867  
2, 888, 104  
2, 894, 607  
1: 2, 870, 871  
2, 875, 854  
2, 889, 011  
2, 890, 766  
2, 900, 049  
2, 901, 015  
2: 2, 878, 899  
2, 899, 022  
2, 909, 245  
3: 2, 867, 294  
2, 887, 183  
2, 905, 273  
2, 912, 067  
4: 2, 868, 333  
2, 886, 138  
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5: 2, 871, 986  
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6: 2, 868, 334  
17: 2, 892, 514  
18: 2, 871, 987  
2, 875, 855  
2, 880, 118  
20: 2, 873, 820  
26: 2, 871, 988  
29: 2, 909, 244  
32: 2, 870, 872  
2, 895, 569  
2, 903, 094  
33: 2, 870, 873  
2, 871, 989  
2, 873, 821  
2, 877, 870  
42: 2, 893, 518  
46: 2, 911, 069  
52: 2, 892, 515  
53: 2, 883, 005  
2, 887, 186



88: 2,867,298	210: 2,880,826	34: 2,915,149	90 2,870,884	3.5: 2,870,886	38: 2,874,814	84: 2,876,880
2,875,861	218: 2,869,688	2,915,150	2,887,195	2,875,872	40: 2,907,426	2,881,891
2,877,872	2,881,875	2,915,151	2,892,518	2,878,909	41: 2,873,833	2,884,107
2,888,106	2,897,925	2,916,108	92 2,873,529	2,880,832	2,894,611	2,885,048
2,888,107	2,905,279	2,916,109	2,899,029	2,881,880	2,895,577	2,897,933
2,897,923	2,910,148	2,916,110	2,905,288	2,890,772	2,895,578	2,897,934
2,906,377	219.1 2,886,146	2,918,151		2,891,640	2,901,071	2,899,036
2,907,414	219.6: 2,888,110	2,918,993	<b>Class 190</b>	2,896,757	2,906,382	2,899,037
2,911,072	223.1: 2,885,036	35: 2,867,302		2,907,423	2,907,427	2,914,156
2,912,069	2,887,189	2,875,867	8 2,915,154	2,908,364	2,915,156	2,919,000
2,914,143	226.1: 2,873,824	2,896,751	21 2,891,639	2,911,079	2,917,144	85: Re.24,652
2,920,875	234: 2,879,866	2,900,056	37 2,895,574	2,914,151	2,884,101	2,869,701
2,881,868	243: 2,873,825	2,904,141	41 2,873,830	2,916,117	2,897,932	2,869,702
2,889,013	250: 2,871,996	2,914,148		2,916,118	2,892,522	2,876,881
2,905,276	251: 2,869,689	2,918,152		4: 2,867,309	2,902,125	2,880,834
91: 2,880,825	2,885,037	36: 2,867,303		2,867,310	45.1: 2,870,890	2,883,026
92: 2,910,146	2,904,135	2,868,339		2,868,340	2,879,869	2,887,202
94: 2,881,869	2,911,074	2,869,694		2,872,000	2,881,886	2,890,777
2,895,570	264: 2,870,879	2,870,881		2,883,015	2,883,023	2,904,149
95: 2,868,336	2,873,826	2,873,007	43 2,887,196	2,891,641	2,884,102	2,906,383
96: 2,881,870	2,879,867	2,878,905		2,904,145	2,886,152	2,909,256
2,886,142	2,885,038	2,883,011	44 2,875,868	2,904,146	2,886,153	2,914,157
2,890,770	2,889,897	2,883,012	51 2,874,813	2,908,365	2,888,116	2,916,122
2,891,637	2,896,749	2,884,098	53 2,912,080	2,912,084	2,892,523	87: 2,868,341
2,899,023	2,899,025	2,884,099	54 2,875,869	2,912,085	2,900,057	2,891,645
2,909,248	2,911,075	2,884,100		6: 2,892,521	2,900,058	88: 2,870,891
99: 2,895,571	2,917,137	2,885,039		2,895,576	2,901,072	2,873,101
100: 2,916,106		2,888,112	57 2,867,306	2,899,030	2,902,126	2,884,108
106: 2,875,862	<b>Class 189</b>	2,889,019		2,887,197	2,903,107	89: 2,914,158
2,878,903	1: 2,871,997	2,896,752		2,908,362	2,910,157	90: 2,870,892
2,881,871	2,887,190	2,897,927		2,913,080	2,914,152	91: 2,873,834
2,881,872	2,904,139	2,897,928		2,918,998	2,870,887	2,885,049
2,900,053	2,908,361	2,903,104	58 2,896,755	2,873,832	2,873,832	93: 2,897,935
2,908,359	2,914,145	2,904,142		2,881,881	2,883,017	98: 2,876,882
2,914,144	2,895,572	2,904,143	<b>Class 191</b>	2,883,016	46: 2,896,759	99: 2,880,835
109: 2,869,686	2,912,073	2,904,144	12.2 2,912,525	2,883,017	2,905,294	2,895,581
112: 2,916,107	2,918,992	2,905,283	23 2,881,271	2,914,153	48: 2,869,689	103: 2,868,342
134: 2,881,873	2,897,926	2,907,418		2,879,868	2,869,699	104: 2,872,005
139: 2,870,876	2,917,138	2,907,418		2,881,882	2,880,833	2,879,871
140: 2,868,337	7: 2,899,027	2,909,252		2,883,018	2,881,887	2,879,872
151: 2,906,378	11: 2,880,827	2,914,149		2,885,042	2,883,024	2,879,873
2,907,415	2,903,102	2,915,152	29 2,871,308	2,905,290	2,889,905	2,902,128
152: 2,867,299	14: 2,896,750	2,917,139	37 2,872,522	2,905,291	2,893,523	2,903,112
2,871,995	15: 2,875,865	2,918,153	45 2,894,078	2,905,291	2,899,035	2,919,001
2,875,863	2,887,191	2,918,994	49 2,892,904	2,883,019	2,899,034	105: 2,868,343
2,877,873	36.5: 2,913,077	2,917,140		2,885,043	2,899,897	2,886,154
2,885,033	37: 2,881,878	2,915,153		2,917,143	2,901,073	2,888,121
2,887,187	2,905,280	2,917,140	57 2,868,300	2,914,154	2,907,428	2,892,525
2,890,771	17: 2,912,074	2,917,140	59.1 2,877,312	2,916,119	2,912,087	2,901,075
2,894,608	19: 2,893,521	2,905,284		16: 2,894,610	2,872,003	2,902,129
2,897,924	26: 2,888,111	2,905,285	<b>Class 192</b>	2,905,292	53: 2,896,760	2,907,433
2,899,024	2,907,416	2,909,253		2,869,697	2,900,059	2,909,257
2,900,054	2,912,075	2,913,078	.02 2,873,831	2,901,066	2,908,366	2,910,160
2,902,119	2,913,073	2,916,111		2,901,067	2,912,088	2,910,161
2,903,100	28: 2,869,690	2,916,111		2,910,158	55: Re.24,607	2,915,159
2,904,134	2,903,103	2,897,929		2,875,873	2,872,004	107: 2,888,122
2,905,277	2,918,150	2,901,064		2,878,911	2,881,888	2,902,130
2,905,278	29: 2,910,149	2,869,695		2,878,912	2,884,103	2,904,150
2,910,147	31.5: 2,880,828	2,876,873	.034 2,918,154	2,883,020	2,884,104	2,908,368
2,912,070	32: 2,880,829	2,877,876	.052 2,880,831	2,885,046	2,885,046	2,910,162
2,912,071	33: 2,906,379	2,887,193	.072 2,887,196	2,886,149	2,889,022	2,913,085
2,915,148	34: 2,867,300	2,902,122	.084 2,896,756	2,888,115	2,893,527	2,916,123
2,918,148	2,867,301	2,909,254		2,889,021	2,913,082	111: 2,874,816
2,918,143	2,869,692	2,910,154		2,890,773	2,915,157	2,893,528
153: 2,886,143	2,869,693	2,910,154	.092 2,917,141	2,891,642	2,916,121	113: 2,870,893
2,886,144	2,870,880	2,876,876	.094 2,875,870	2,891,643	58: 2,895,579	2,903,113
2,913,071	2,871,998	2,877,877	.096 2,907,421	2,899,031	2,895,580	2,909,258
170: 2,887,188	2,875,866	2,878,905	.098 2,884,109	2,899,032	2,900,060	2,874,817
2,899,025	2,876,871	2,878,905		2,903,108	2,902,127	125: 2,890,778
171: 2,889,014	2,876,872	2,912,077	1 2,889,903	2,909,255	2,907,429	134: 2,888,123
174: 2,909,249	2,877,874	2,901,065	2 2,873,009	2,913,081	59: 2,888,117	139: 2,915,160
176: 2,893,520	2,877,875	2,889,899		2,916,120	2,888,118	142: 2,886,155
181: 2,868,338	2,878,904	2,889,900		2,870,888	2,888,118	2,892,526
2,869,687	2,880,830	2,889,900		2,872,001	60: 2,867,311	2,895,529
2,903,101	2,881,876	2,889,900		2,872,002	61: 2,899,035	144: 2,908,369
2,904,136	2,881,877	2,889,900		2,878,913	2,913,083	2,909,259
2,913,072	2,886,147	2,889,900		2,885,044	66: 2,874,815	146: 2,903,114
2,917,135	2,887,192	2,889,900		2,885,045	2,884,105	2,907,434
187: 2,888,108	2,889,016	2,889,900		2,886,151	2,907,430	149: 2,915,161
195: 2,885,034	2,889,017	2,889,900		2,887,875	67: 2,869,700	150: 2,879,874
2,917,136	2,892,517	2,889,900		2,876,876	2,876,878	2,893,530
196: 2,870,877	2,891,638	2,889,900		2,877,877	2,883,025	2,901,076
2,870,878	2,893,522	2,889,900		2,878,908	2,887,201	2,911,080
2,873,006	2,894,028	2,889,900		2,879,809	2,892,524	2,917,147
2,875,864	2,895,573	2,889,900		2,880,830	2,907,431	
2,878,907	2,896,754	2,889,900		2,881,881	2,908,367	<b>Class 193</b>
2,884,077	2,897,929	2,889,900		2,882,014	2,913,084	1: 2,870,894
2,885,039	2,898,030	2,889,900		2,883,014	2,885,047	2,879,875
2,889,015	2,899,031	2,889,900		2,884,104	2,888,119	2,873,835
2,890,015	2,900,055	2,889,900		2,885,045	2,890,776	2,896,761
2,898,996	2,901,062	2,889,900		2,886,151	2,899,038	9: 2,912,089
2,902,120	2,902,120	2,889,900		2,887,877	71: 2,907,432	2,913,086
2,904,137	2,903,104	2,889,900		2,888,119	75: 2,891,644	25: 2,890,779
2,908,360	2,904,137	2,889,900		2,889,038	79: 2,881,889	27: 2,890,780
2,909,250	2,905,282	2,889,900		2,890,777	81: 2,878,914	2,915,162
2,918,901	2,906,380	2,889,900		2,891,643	2,884,106	30: 2,906,384
197: 2,851,874	2,907,417	2,889,900		2,892,525	2,881,890	31: 2,888,124
2,858,145	2,909,251	2,889,900		30.5: 2,881,884	82: 2,879,870	32: 2,889,906
204: 2,876,869	2,910,150	2,889,900		2,882,022	2,881,890	2,897,936
2,902,121	2,910,151	2,889,900		2,883,022	84: 2,875,875	34: 2,903,115
2,912,072	2,910,152	2,889,900		2,884,101	2,875,876	35: 2,873,011
205: 2,911,073	2,910,153	2,889,900		2,885,046	2,876,879	2,889,907
206: 2,876,870	2,910,154	2,889,900		2,886,151		
2,885,035	2,910,155	2,889,900		2,887,877		
207: 2,874,811	2,910,156	2,889,900		2,888,119		
209: 2,873,833	2,910,157	2,889,900		2,889,038		
	2,910,158	2,889,900		2,890,777		
	2,910,159	2,889,900		2,891,644		
	2,910,160	2,889,900		2,892,525		
	2,910,161	2,889,900		2,893,526		
	2,910,162	2,889,900		2,894,611		
	2,910,163	2,889,900		2,895,577		
	2,910,164	2,889,900		2,896,758		
	2,910,165	2,889,900		2,897,929		
	2,910,166	2,889,900		2,899,030		
	2,910,167	2,889,900		2,900,059		
	2,910,168	2,889,900		2,901,066		
	2,910,169	2,889,900		2,902,126		
	2,910,170	2,889,900		2,903,107		
	2,910,171	2,889,900		2,904,145		
	2,910,172	2,889,900		2,905,290		
	2,910,173	2,889,900		2,906,382		
	2,910,174	2,889,900		2,907,423		
	2,910,175	2,889,900		2,908,364		
	2,910,176	2,889,900		2,909,255		
	2,910,177	2,889,900		2,910,157		
	2,910,178	2,889,900		2,911,079		
	2,910,179	2,889,900		2,912,080		



## Class 193—Con.

2, 917, 148  
36: 2, 873, 836  
2, 874, 818  
37: 2, 886, 156  
2, 887, 203  
39: 2, 891, 646  
40: 2, 903, 116  
2, 911, 081  
2, 916, 125  
41: 2, 896, 762  
43: 2, 867, 312  
2, 878, 915  
2, 886, 157  
2, 889, 023  
2, 905, 295  
2, 911, 082

## Class 194

1: 2, 872, 006  
2, 914, 159  
2: 2, 873, 012  
2, 894, 612  
4: 2, 887, 204  
2, 896, 763  
2, 907, 435  
2, 911, 083  
2, 918, 158  
7: 2, 872, 007  
2, 895, 582  
9: 2, 872, 008  
2, 874, 819  
2, 885, 050  
2, 894, 151  
2, 917, 149  
10: 2, 868, 344  
2, 870, 895  
2, 872, 009  
2, 875, 877  
2, 875, 878  
2, 876, 883  
2, 876, 884  
2, 884, 110  
2, 890, 781  
2, 895, 583  
2, 904, 152  
2, 906, 385  
12: 2, 911, 084  
13: 2, 901, 077  
2, 913, 087  
17: 2, 881, 892  
19: 2, 887, 205  
2, 897, 937  
51: 2, 883, 027  
54: 2, 915, 163  
55: 2, 916, 126  
61: 2, 916, 127  
71: 2, 885, 051  
72: 2, 896, 764  
2, 897, 938  
2, 899, 039  
2, 901, 078  
2, 904, 153  
2, 906, 386  
74: 2, 904, 154  
78: 2, 909, 260  
79: 2, 872, 010  
2, 897, 939  
85: 2, 909, 261  
97: 2, 893, 531  
2, 903, 117  
98: 2, 892, 527  
102: 2, 880, 836

## Class 195

2: 2, 885, 325  
3: 2, 916, 419  
4: 2, 910, 408  
6: 2, 908, 615  
8: 2, 871, 162  
2, 871, 163  
28: 2, 876, 169  
30: 2, 877, 160  
2, 917, 435  
31: 2, 906, 669  
32: 2, 912, 362  
36: 2, 870, 064  
2, 871, 164  
2, 883, 328  
2, 883, 329  
2, 902, 409  
2, 906, 670  
2, 906, 671  
2, 910, 409  
2, 912, 363  
2, 916, 420  
2, 918, 413  
39: 2, 892, 757  
2, 893, 919  
51: 2, 868, 694  
2, 872, 380

51: 2, 872, 381  
2, 875, 132  
2, 875, 133  
2, 875, 134  
2, 876, 170  
2, 876, 171  
2, 877, 161  
2, 877, 162  
2, 879, 206  
2, 880, 141  
2, 882, 205  
2, 888, 384  
2, 889, 255  
2, 890, 153  
2, 902, 410  
2, 902, 411  
2, 903, 398  
2, 904, 472  
2, 905, 592  
2, 908, 616  
2, 915, 439  
62: 2, 893, 920  
63: 2, 871, 165  
66: 2, 878, 161  
2, 881, 115  
2, 893, 921  
2, 897, 123  
67: 2, 886, 489  
2, 888, 385  
2, 890, 988  
2, 905, 593  
70: 2, 898, 270  
2, 903, 399  
71: 2, 891, 892  
2, 901, 401  
78: 2, 890, 989  
80: 2, 885, 326  
2, 886, 490  
2, 902, 412  
2, 911, 339  
81: 2, 910, 410  
96: 2, 895, 882  
100: 2, 872, 382  
103: 2, 904, 473  
103.5: 2, 875, 135  
2, 880, 142  
2, 894, 877  
2, 905, 594  
2, 906, 672  
2, 914, 447  
114: 2, 871, 166  
2, 875, 136  
125: 2, 906, 673  
2, 917, 436  
135: 2, 916, 421  
139: 2, 871, 168  
2, 874, 091  
2, 879, 207  
2, 904, 474

## Class 196

14.5: 2, 898, 271  
14.52: 2, 900, 308  
2, 902, 413  
46: 2, 895, 883  
100: 2, 913, 374  
110: 2, 909, 262

## Class 197

1: 2, 911, 085  
2: 2, 873, 013  
2, 900, 061  
5: 2, 906, 387  
2, 912, 090  
2, 913, 088  
2, 916, 128  
6.7: 2, 904, 155  
8: 2, 904, 156  
9: 2, 891, 647  
2, 904, 157  
12: 2, 891, 648  
2, 897, 940  
13: 2, 869, 703  
14: 2, 875, 879  
2, 891, 649  
16: 2, 879, 876  
2, 919, 002  
17: 2, 868, 345  
2, 870, 896  
2, 875, 880  
2, 879, 877  
2, 880, 837  
2, 886, 158  
2, 889, 024  
2, 889, 025  
2, 891, 650  
2, 894, 613  
2, 896, 765  
2, 897, 941  
2, 900, 062  
2, 900, 063

17: 2, 901, 079  
2, 902, 131  
2, 903, 118  
2, 905, 296  
2, 905, 297  
2, 907, 436  
2, 918, 159  
18: 2, 870, 897  
2, 906, 388  
19: 2, 910, 163  
2, 919, 003  
2, 919, 004  
20: 2, 873, 837  
2, 886, 159  
2, 894, 614  
2, 905, 298  
2, 905, 299  
2, 911, 086  
22: 2, 917, 150  
33: 2, 890, 782  
39: 2, 900, 064  
42: 2, 903, 119  
47: 2, 905, 300  
49: 2, 875, 881  
2, 905, 301  
2, 912, 091  
2, 913, 089  
52: 2, 895, 584  
2, 902, 132  
2, 905, 302  
60: 2, 913, 090  
62: 2, 872, 011  
2, 917, 151  
63: 2, 872, 012  
2, 883, 028  
2, 897, 942  
66: 2, 872, 013  
2, 892, 528  
2, 897, 943  
2, 902, 133  
2, 904, 158  
2, 919, 006  
68: 2, 891, 651  
73: 2, 900, 065  
74: 2, 896, 766  
82: 2, 875, 882  
2, 896, 767  
2, 900, 066  
2, 913, 091  
84: 2, 872, 014  
2, 886, 160  
2, 893, 532  
2, 904, 159  
2, 905, 303  
2, 907, 437  
2, 905, 304  
2, 907, 438  
2, 917, 152  
2, 919, 007  
91: 2, 872, 015  
2, 885, 052  
102: 2, 892, 529  
106: 2, 889, 026  
114: 2, 887, 206  
2, 895, 585  
2, 902, 134  
2, 907, 438  
2, 914, 160  
126: 2, 873, 838  
2, 876, 885  
128: 2, 879, 878  
2, 902, 138  
2, 902, 139  
2, 903, 120  
2, 909, 265  
2, 915, 164  
2, 916, 131  
2, 919, 009  
2, 885, 053  
2, 896, 768  
2, 908, 370  
2, 908, 371  
2, 910, 164  
2, 913, 093  
2, 913, 094  
2, 917, 153  
135: 2, 878, 916  
2, 886, 161  
138: 2, 905, 305  
145: 2, 880, 839  
150: 2, 904, 160  
151: 2, 868, 346  
2, 869, 704  
2, 869, 705  
2, 872, 016  
2, 873, 014  
2, 875, 882  
2, 889, 090  
2, 900, 067  
153: 2, 897, 944  
2, 874, 820  
2, 887, 211  
157: 2, 919, 008  
162: 2, 883, 029  
2, 886, 162

165: 2, 884, 111  
2, 889, 909  
2, 902, 136  
170: 2, 884, 112  
2, 889, 911  
171: 2, 869, 706  
2, 878, 326  
2, 906, 389  
172: 2, 895, 586  
2, 918, 160  
175: 2, 873, 839  
2, 880, 840  
2, 880, 841  
2, 881, 894  
176: 2, 877, 881  
2, 886, 163  
177: 2, 881, 895  
2, 894, 615  
2, 902, 137  
2, 905, 306  
181: 2, 868, 347  
2, 908, 372  
2, 873, 016  
183: 2, 879, 879  
2, 901, 080  
2, 909, 263  
186: 2, 881, 896  
2, 893, 533  
2, 913, 095  
187: 2, 905, 307  
2, 913, 096  
189: 2, 878, 917  
2, 891, 652  
2, 897, 945  
2, 908, 373  
193: 2, 917, 154  
194: 2, 901, 081

## Class 198

6: 2, 879, 880  
7: 2, 876, 886  
2, 881, 899  
2, 883, 030  
2, 883, 034  
2, 888, 127  
2, 889, 028  
2, 889, 912  
2, 890, 786  
2, 892, 530  
2, 895, 588  
2, 895, 589  
2, 897, 948  
10: 2, 880, 842  
2, 885, 056  
2, 897, 946  
14: 2, 891, 653  
2, 879, 881  
16: 2, 879, 881  
2, 905, 308  
2, 906, 390  
19: 2, 880, 843  
2, 884, 113  
2, 885, 055  
2, 885, 058  
2, 886, 164  
2, 886, 165  
2, 887, 209  
2, 887, 210  
2, 889, 027  
2, 891, 654  
2, 901, 082  
2, 902, 138  
2, 902, 139  
2, 903, 120  
2, 909, 265  
2, 915, 164  
2, 916, 131  
2, 919, 009  
2, 907, 443  
2, 910, 167  
2, 917, 157  
2, 883, 031  
2, 888, 125  
2, 903, 121  
2, 889, 029  
2, 892, 531  
2, 868, 348  
2, 897, 949  
2, 897, 950  
2, 908, 377  
37: 2, 873, 019  
2, 877, 885  
38: 2, 876, 888  
2, 896, 769  
2, 897, 951  
2, 901, 089  
39: 2, 889, 030  
2, 889, 031  
2, 904, 163  
2, 905, 310  
41: 2, 873, 843  
2, 876, 889  
2, 881, 901  
2, 897, 952  
50: 2, 907, 444  
53: 2, 896, 770  
54: 2, 896, 771

26: 2, 876, 887  
2, 880, 844  
2, 885, 059  
2, 889, 911  
2, 911, 087  
27: 2, 888, 126  
2, 895, 587  
28: 2, 873, 840  
2, 897, 947  
29: 2, 885, 060  
2, 901, 085  
30: 2, 881, 897  
2, 890, 784  
2, 901, 086  
2, 910, 165  
2, 916, 133  
31: 2, 872, 017  
2, 873, 841  
2, 881, 898  
2, 883, 033  
2, 890, 785  
2, 893, 536  
2, 905, 309  
2, 909, 267  
2, 909, 268  
2, 909, 269  
32: 2, 877, 883  
2, 906, 392  
2, 912, 093  
2, 918, 161  
33: 2, 867, 313  
2, 872, 018  
2, 872, 019  
2, 873, 017  
2, 873, 018  
2, 873, 842  
2, 875, 884  
2, 877, 884  
2, 879, 882  
2, 879, 883  
2, 880, 845  
2, 881, 899  
2, 883, 034  
2, 888, 127  
2, 889, 028  
2, 889, 912  
2, 890, 786  
2, 892, 530  
2, 895, 588  
2, 895, 589  
2, 897, 948  
2, 901, 087  
2, 901, 088  
2, 904, 162  
2, 907, 440  
2, 907, 441  
2, 907, 442  
2, 908, 375  
2, 908, 376  
2, 909, 270  
2, 910, 166  
2, 911, 088  
2, 911, 089  
2, 913, 099  
2, 914, 161  
2, 914, 162  
2, 915, 165  
2, 915, 166  
2, 918, 162  
2, 918, 163  
2, 919, 011  
2, 919, 012  
34: 2, 874, 821  
2, 878, 919  
2, 884, 116  
2, 890, 787  
2, 907, 443  
2, 910, 167  
2, 917, 157  
35: 2, 868, 350  
2, 872, 020  
2, 881, 900  
2, 889, 029  
2, 892, 531  
2, 897, 949  
2, 897, 950  
2, 908, 377  
37: 2, 873, 019  
2, 877, 885  
38: 2, 876, 888  
2, 896, 769  
2, 897, 951  
2, 901, 089  
39: 2, 889, 030  
2, 889, 031  
2, 904, 163  
2, 905, 310  
41: 2, 873, 843  
2, 876, 889  
2, 881, 901  
2, 897, 952  
50: 2, 907, 444  
53: 2, 896, 770  
54: 2, 896, 771

56: 2, 869, 707  
2, 883, 035  
57: 2, 910, 168  
64: 2, 867, 314  
2, 888, 128  
2, 891, 655  
65: 2, 900, 068  
72: 2, 870, 900  
74: 2, 872, 021  
75: 2, 881, 902  
2, 886, 166  
82: 2, 883, 036  
2, 888, 129  
2, 891, 656  
84: 2, 901, 090  
85: 2, 874, 822  
2, 899, 040  
2, 907, 445  
2, 912, 094  
2, 916, 134  
89: 2, 885, 061  
2, 890, 788  
95: 2, 889, 913  
102: 2, 880, 846  
103: 2, 873, 020  
104: 2, 893, 537  
2, 895, 590  
106: 2, 877, 888  
108: 2, 877, 886  
109: 2, 873, 021  
2, 875, 885  
2, 879, 884  
2, 880, 847  
2, 886, 167  
2, 888, 130  
2, 895, 591  
2, 903, 122  
2, 910, 169  
110: 2, 893, 538  
112: 2, 905, 311  
119: 2, 874, 823  
120.5: 2, 901, 081  
122: 2, 912, 095  
127: 2, 897, 953  
2, 915, 167  
128: 2, 868, 351  
131: 2, 878, 920  
2, 880, 848  
2, 912, 096  
2, 915, 168  
134: 2, 895, 592  
135: 2, 908, 378  
137: 2, 868, 352  
2, 872, 022  
2, 878, 921  
2, 878, 922  
2, 889, 914  
139: 2, 880, 849  
2, 893, 539  
2, 902, 142  
2, 904, 164  
2, 919, 013  
144: 2, 916, 135  
151: 2, 873, 844  
2, 916, 136  
155: 2, 885, 062  
158: 2, 869, 708  
2, 878, 923  
2, 912, 097  
159: 2, 907, 446  
160: 2, 868, 353  
2, 895, 593  
165: 2, 907, 447  
2, 916, 137  
2, 916, 138  
167: 2, 906, 393  
170: 2, 887, 212  
176: 2, 889, 915  
2, 889, 916  
177: 2, 868, 354  
2, 869, 709  
2, 870, 901  
2, 884, 116  
2, 885, 063  
2, 890, 789  
2, 893, 540  
2, 896, 772  
2, 915, 169  
2, 918, 164  
179: 2, 884, 117  
2, 889, 032  
2, 889, 917  
2, 881, 657  
2, 891, 658  
180: 2, 885, 064  
181: 2, 870, 902  
2, 897, 954  
182: 2, 872, 023  
183: 2, 881, 903  
2, 899, 041  
184: 2, 892, 532  
185: 2, 878, 924  
2, 880, 850  
2, 889, 033

185: 2, 906, 394  
187: 2, 902, 143  
188: 2, 885, 065  
2, 886, 168  
189: 2, 881, 904  
2, 884, 118  
2, 911, 091  
191: 2, 877, 887  
2, 893, 541  
2, 903, 123  
192: Re.24,611  
2, 868, 355  
2, 869, 710  
2, 875, 886  
2, 876, 890  
2, 880, 851  
2, 885, 066  
2, 889, 918  
2, 892, 533  
2, 895, 594  
2, 901, 092  
2, 901, 093  
2, 907, 448  
2, 911, 090  
193: 2, 904, 165  
194: 2, 887, 213  
2, 912, 098  
195: 2, 877, 888  
2, 906, 395  
2, 907, 449  
196: 2, 877, 889  
198: 2, 869, 711  
2, 909, 271  
199: 2, 875, 887  
200: 2, 910, 170  
201: 2, 867, 315  
2, 896, 773  
202: 2, 869, 712  
2, 873, 022  
2, 892, 534  
2, 896, 774  
2, 897, 955  
2, 904, 166  
2, 909, 272  
2, 909, 273  
2, 916, 139  
203: 2, 868, 356  
2, 874, 824  
2, 875, 888  
2, 869, 713  
2, 900, 069  
204: 2, 901, 094  
2, 883, 037  
2, 900, 070  
2, 907, 450  
2, 909, 274  
209: 2, 893, 542  
210: 2, 888, 131  
211: 2, 881, 905  
213: 2, 869, 714  
2, 899, 042  
2, 908, 379  
218: 2, 878, 925  
2, 894, 616  
219: 2, 899, 043  
220: 2, 868, 357  
2, 872, 024  
2, 875, 889  
2, 876, 891  
2, 877, 890  
2, 885, 067  
2, 899, 044  
2, 901, 095  
2, 917, 158  
221: 2, 873, 845  
2, 891, 659  
2, 893, 543  
2, 896, 775  
225: 2, 901, 096  
226: 2, 873, 846  
229: 2, 885, 068  
2, 886, 169  
2, 900, 071  
2, 906, 396  
230: 2, 869, 716  
2, 873, 847  
2, 878, 926  
2, 885, 069  
232: 2, 873, 848  
2, 880, 852  
2, 900, 072  
233: 2, 896, 776

## Class 199

1: 2, 891, 660  
18: 2, 872, 025  
2, 874, 825  
2, 880, 853  
21: 2, 908, 380



29: 2,887,214	38: 2,890,300	61.39: 2,899,510	80: 2,903,535	87: 2,896,044	103: 2,878,338	116: 2,889,428
32: 2,917,159	2,892,047	61.41: 2,879,350	2,904,651	2,896,045	2,890,308	2,908,786
61: 2,872,026	2,894,081	2,881,275	2,906,833	2,897,311	2,868,925	2,910,561
2,895,595	2,900,463	2,913,546	2,918,545	2,897,312	2,873,326	2,912,546
77: 2,883,038	2,902,554	2,913,547	81: 2,875,291	2,897,313	2,874,245	117: 2,894,099
	2,903,528	2,917,594	2,885,506	2,898,420	2,874,246	2,902,566
<b>Class 200</b>	2,904,648	61.44: 2,868,909	2,899,516	2,900,471	2,876,310	
	2,905,777	2,894,087	2,900,468	2,900,472	2,881,286	118: 2,918,550
1: 2,894,079	2,909,626	61.45: 2,867,699	2,886,667	2,902,558	2,886,668	119: 2,907,849
2,902,549	2,912,532	2,868,910	2,887,546	2,902,559	2,886,669	2,910,562
2,910,551	2,916,570	2,871,310	2,892,051	2,903,536	2,889,425	120: 2,870,294
2: 2,908,775	2,917,591	2,872,538	2,916,576	2,904,653	2,889,426	2,871,314
4: 2,874,237	39: 2,905,778	2,881,276	82: 2,874,242	2,904,654	2,889,427	2,877,321
2,908,776	42: 2,868,905	2,881,277	2,875,292	2,905,784	2,890,309	2,877,322
5: 2,870,273	2,887,463	2,885,503	2,891,120	2,905,785	2,892,058	2,878,341
2,875,287	2,897,302	2,890,308	2,895,024	2,908,780	2,894,095	2,880,289
2,876,301	2,898,413	2,892,049	2,900,469	2,908,781	2,895,029	2,892,061
2,876,302	44: 2,868,906	2,894,088	2,901,570	2,911,493	2,896,047	2,895,031
2,878,329	2,874,240	2,895,023	2,902,557	2,911,494	2,896,048	121: 2,872,549
2,879,345	2,894,082	2,897,306	2,907,842	2,911,495	2,897,316	2,914,636
2,882,357	2,896,036	2,898,415	2,911,492	2,912,537	2,897,317	2,918,551
2,883,482	46: 2,876,304	2,898,416	2,917,596	2,912,538	2,899,519	122: 2,876,311
2,885,499	2,876,305	2,915,604	83: 2,872,541	2,912,539	2,899,520	2,881,289
2,886,661	2,884,494	61.46: 2,868,911	2,878,334	2,912,540	2,902,564	2,883,490
2,892,046	2,890,301	2,866,665	2,879,351	2,913,548	2,902,565	2,884,501
2,895,021	2,892,048	2,900,465	2,883,485	2,914,632	2,903,537	2,884,502
2,905,773	2,892,907	61.47: 2,912,534	2,890,305	2,915,606	2,904,657	2,889,429
2,913,542	2,903,529	2,914,628	2,895,025	2,915,607	2,905,788	2,891,124
2,916,566	2,910,553	61.48: 2,887,545	2,897,310	2,916,578	2,907,847	2,896,051
6: 2,872,535	47: 2,867,697	2,912,535	2,898,418	2,916,579	2,907,848	2,897,318
2,875,288	2,914,626	61.49: 2,885,504	2,900,470	2,916,580	2,908,784	2,897,319
2,876,303	48: 2,871,309	61.5: 2,879,349	2,907,843	2,917,598	2,908,785	2,901,575
2,885,500	2,873,325	2,903,533	2,909,627	2,917,599	2,911,498	2,902,567
2,894,080	2,878,331	2,916,573	2,912,536	2,917,600	2,912,542	2,905,790
2,897,299	2,886,663	61.52: 2,870,280	2,914,630	2,918,547	2,913,551	2,907,850
2,900,460	50: Re.24,696	2,888,530	2,916,577	2,876,308	2,916,584	2,911,503
2,903,527	2,875,289	2,919,318	2,917,597	2,876,309	2,916,585	2,913,554
2,909,624	2,878,332	61.53: 2,885,505	2,918,546	2,884,497	2,917,601	2,914,637
2,912,527	2,879,347	61.54: 2,891,118	2,919,320	2,892,054	2,919,326	2,915,608
2,912,528	2,879,348	2,894,089	2,919,321	2,895,028	2,919,327	123: 2,913,555
8: 2,868,901	2,882,359	2,896,040	84: 2,868,918	2,897,314	2,892,059	124: 2,875,297
2,878,330	2,883,483	61.56: 2,872,539	2,870,284	2,900,473	2,894,096	125: 2,874,248
2,881,272	2,883,484	2,894,090	2,874,243	2,902,560	2,906,838	2,898,424
11: 2,870,274	2,885,501	61.57: 2,894,091	2,877,318	2,904,655	2,912,543	127: 2,903,538
2,870,275	2,885,502	61.58: 2,911,490	2,878,335	2,906,835	2,874,247	129: 2,903,539
2,870,276	2,888,529	61.59: 2,868,912	2,882,365	2,908,782	2,875,294	2,918,557
2,888,528	2,889,420	2,889,422	2,882,366	2,913,549	2,881,287	130: 2,902,568
2,896,033	2,889,421	61.6: 2,877,313	2,885,507	2,891,121	2,884,499	131: 2,870,295
2,900,461	2,890,302	61.7: 2,882,360	2,888,511	2,897,315	2,912,544	2,874,249
2,900,462	2,894,083	61.72: 2,868,915	2,894,092	2,898,421	2,917,602	2,898,425
2,904,647	2,894,084	61.79: 2,875,290	2,894,093	2,904,656	2,917,603	2,900,475
2,905,774	2,894,085	2,911,491	2,899,517	2,905,786	2,898,423	2,916,587
2,908,777	2,900,464	61.81: 2,899,511	2,899,518	2,868,924	2,911,499	133: 2,883,491
2,918,541	2,902,555	61.83: 2,897,307	2,903,532	2,877,319	2,912,545	2,899,521
16: Re.24,586	2,904,649	61.86: 2,871,311	2,904,652	2,878,337	2,879,353	2,901,576
2,878,368	2,907,839	2,914,629	2,905,783	2,894,094	2,883,489	2,905,791
2,880,284	2,907,840	61.89: 2,881,278	2,906,834	2,901,571	2,888,534	2,910,563
2,881,273	2,912,533	61.93: 2,870,281	2,907,844	2,902,561	2,895,030	2,914,638
2,882,358	2,916,571	62: 2,878,333	2,907,845	2,902,562	2,868,926	135: 2,873,327
2,896,034	2,917,592	63: 2,901,567	2,914,631	2,906,836	2,890,310	2,876,312
2,902,550	2,917,593	65: 2,903,530	2,915,605	2,906,837	2,911,500	2,892,062
2,909,625	2,919,316	67: 2,867,700	2,868,919	2,916,581	2,914,633	2,911,504
2,916,567	51: 2,880,285	2,868,913	2,879,352	2,919,322	2,914,634	2,915,609
2,919,315	2,894,086	2,870,282	2,898,419	2,881,282	113: 2,870,290	136: 2,909,631
18: 2,872,536	2,896,037	2,872,540	2,885,508	2,918,548	2,870,291	2,902,569
2,890,298	2,901,564	2,881,279	2,896,042	2,870,288	2,870,292	137: 2,874,250
2,890,299	2,914,627	2,891,119	2,909,628	2,872,545	2,878,339	2,891,125
2,906,832	2,918,543	2,892,050	86.5: 2,872,542	2,880,288	2,878,340	138: 2,867,703
19: 2,889,418	51.08: 2,910,554	2,892,908	2,878,336	2,891,122	2,879,354	2,871,315
2,880,778	51.1: 2,901,565	2,897,308	2,899,512	2,905,787	2,879,355	2,871,316
2,916,568	51.12: 2,919,317	2,899,513	2,899,513	2,909,629	2,887,547	2,873,328
21: 2,879,346	51.14: 2,898,414	2,900,466	2,868,921	2,910,558	2,892,060	2,878,343
24: 2,902,551	51.17: 2,905,779	2,901,568	2,868,922	2,872,546	2,892,061	2,878,344
2,910,552	52: 2,916,572	2,903,531	2,868,923	2,872,547	2,896,049	2,879,357
25: 2,912,529	56: 2,867,698	2,905,780	2,870,285	2,881,283	2,896,050	2,881,290
26: 2,905,775	2,880,286	2,905,781	2,870,286	2,884,498	2,900,474	2,882,370
28: 2,902,552	2,913,545	2,905,782	2,870,287	2,888,533	2,911,501	2,882,371
2,918,542	60: 2,886,664	2,905,783	2,872,543	2,890,307	2,916,586	2,888,536
30: 2,868,903	2,897,303	2,917,595	2,872,544	2,891,123	2,917,604	2,888,537
2,896,035	61.03: 2,881,274	2,919,319	2,874,244	2,892,055	114: 2,870,293	2,889,430
31: 2,872,537	2,901,566	68: 2,868,914	2,875,293	2,898,422	2,877,320	2,890,311
2,873,324	61.05: 2,907,841	73: 2,896,041	2,876,307	2,901,572	2,881,288	2,891,126
2,902,553	61.06: 2,887,544	74: 2,910,557	2,877,314	2,902,563	2,884,500	2,891,127
2,912,530	61.08: 2,903,534	76: 2,916,575	2,877,315	2,907,846	2,888,535	2,891,128
2,912,531	61.09: 2,878,342	77: 2,881,280	2,882,367	2,908,783	2,901,573	2,896,052
2,913,543	61.11: 2,870,279	80: 2,868,916	2,882,368	2,910,559	2,901,574	2,897,320
2,914,625	61.13: 2,882,361	2,868,917	2,882,369	2,919,323	2,904,658	2,897,321
32: 2,868,904	2,884,495	2,870,283	2,883,486	2,919,324	2,905,789	2,901,577
2,886,662	2,916,574	2,876,316	2,883,487	94: 2,883,488	2,910,560	2,906,839
33: 2,897,300	61.15: 2,910,555	2,878,337	2,885,509	2,911,496	2,911,502	2,906,840
2,916,569	61.18: 2,904,650	2,880,287	2,885,511	95: 2,911,497	2,914,635	2,907,851
34: 2,892,905	61.2: 2,896,038	2,882,364	2,888,532	97: 2,870,289	2,917,605	2,873,329
35: 2,897,301	61.21: 2,896,039	2,884,496	2,889,423	2,881,285	2,919,328	2,867,704
2,899,509	61.24: 2,882,362	2,890,306	2,890,306	2,892,057	2,894,097	2,868,928
2,913,544	61.25: 2,868,907	2,898,424	2,892,052	2,916,582	2,894,098	2,870,296
37: 2,877,317	2,868,908	2,898,424	2,892,053	98: 2,881,284	2,909,630	2,871,317
2,887,543	2,874,241	2,899,514	2,895,026	2,885,512	2,913,552	2,879,358
2,892,906	2,876,306	2,899,515	2,895,027	2,912,541	2,872,548	2,889,432
2,905,776	2,908,779	2,900,467	2,896,043	2,913,550	2,875,296	2,892,063
38: 2,870,278	61.26: 2,882,363	2,901,569		2,916,583	2,879,356	2,901,578
2,874,238	2,895,022			2,918,549	2,886,670	2,915,610
2,874,239	61.29: 2,897,305			102: 2,896,046	2,887,548	
2,889,419	61.34: 2,902,556					



## Class 200—Con.

142: 2, 870, 297  
2, 875, 298  
2, 875, 299  
2, 883, 492  
2, 888, 538  
2, 898, 426  
2, 917, 606  
144: 2, 868, 927  
2, 870, 298  
2, 871, 318  
2, 871, 319  
2, 873, 330  
2, 886, 671  
2, 888, 539  
2, 889, 433  
2, 892, 911  
2, 892, 912  
2, 898, 427  
2, 900, 476  
2, 905, 792  
2, 906, 841  
2, 908, 787  
2, 911, 505  
2, 917, 607  
145: 2, 872, 550  
2, 882, 372  
2, 891, 129  
2, 891, 130  
2, 913, 556  
2, 915, 611  
2, 916, 588  
146: 2, 871, 320  
2, 875, 300  
2, 883, 493  
2, 887, 549  
2, 894, 100  
2, 897, 322  
2, 897, 323  
2, 905, 794  
2, 911, 506  
2, 917, 608  
2, 917, 609  
147: 2, 875, 301  
2, 875, 302  
2, 875, 303  
2, 875, 304  
2, 875, 305  
2, 900, 477  
2, 901, 579  
2, 904, 659  
2, 909, 632  
2, 913, 557  
2, 918, 552  
148: 2, 873, 331  
2, 881, 291  
2, 883, 494  
2, 885, 514  
2, 886, 672  
2, 887, 550  
2, 889, 434  
2, 890, 312  
2, 890, 313  
2, 892, 913  
2, 897, 324  
2, 902, 570  
2, 904, 660  
2, 905, 793  
2, 908, 788  
2, 911, 507  
2, 913, 558  
2, 913, 559  
2, 919, 329  
150: 2, 878, 345  
2, 886, 673  
2, 897, 325  
2, 900, 478  
2, 908, 789  
2, 909, 633  
2, 919, 330  
151: 2, 888, 540  
152: 2, 880, 290  
2, 895, 032  
2, 899, 522  
2, 901, 580  
2, 916, 589  
2, 917, 610  
153: Re. 24, 725  
2, 868, 929  
2, 868, 930  
2, 871, 321  
2, 876, 313  
2, 882, 373  
2, 891, 131  
2, 901, 581  
2, 908, 790  
2, 910, 564  
2, 914, 639  
2, 918, 553  
2, 919, 331  
154: 2, 880, 291  
155: 2, 913, 560  
156: 2, 885, 515

157: 2, 881, 292  
2, 919, 332  
159: 2, 877, 323  
2, 886, 674  
2, 903, 540  
2, 907, 852  
160: 2, 904, 661  
2, 919, 333  
161: 2, 907, 853  
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163: 2, 883, 495  
2, 889, 435  
2, 889, 436  
164: 2, 879, 359  
166: 2, 871, 322  
2, 871, 323  
2, 873, 332  
2, 874, 251  
2, 874, 252  
2, 876, 314  
2, 880, 292  
2, 881, 293  
2, 885, 516  
2, 887, 551  
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2, 894, 101  
2, 896, 053  
2, 899, 523  
2, 902, 571  
2, 907, 854  
2, 911, 508  
2, 914, 640  
2, 916, 590  
2, 917, 612  
2, 918, 554  
167: 2, 870, 299  
2, 878, 346  
2, 883, 496  
2, 897, 326  
2, 901, 582  
2, 904, 662  
2, 905, 795  
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168: 2, 870, 300  
2, 873, 333  
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2, 876, 315  
2, 877, 324  
2, 878, 347  
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2, 882, 374  
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2, 886, 675  
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2, 892, 064  
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2, 905, 796  
2, 907, 855  
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2, 916, 591  
2, 916, 592  
169: 2, 873, 334  
2, 918, 556  
170: 2, 891, 134  
2, 895, 033  
2, 907, 856  
172: 2, 872, 551  
2, 872, 552  
2, 884, 503  
2, 885, 518  
2, 891, 135  
2, 898, 428  
2, 906, 842  
2, 911, 509  
2, 919, 334

## Class 201

48: Re. 24, 597  
2, 870, 301  
2, 872, 553  
2, 874, 253  
2, 875, 307  
2, 876, 318  
2, 876, 319  
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2, 884, 504  
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48: 2, 886, 678  
2, 886, 680  
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2, 887, 552  
51: 2, 872, 554  
2, 873, 335  
2, 880, 294  
55: 2, 867, 705  
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2, 871, 324  
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2, 873, 336  
2, 874, 254  
2, 874, 255  
2, 877, 328  
2, 883, 499  
2, 883, 500  
2, 885, 519  
2, 887, 553  
2, 887, 554  
56: 2, 871, 326  
2, 880, 292  
2, 881, 296  
2, 883, 501  
2, 884, 506  
2, 887, 555  
57: 2, 868, 932  
62: 2, 868, 933  
2, 870, 302  
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2, 870, 304  
2, 871, 327  
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63: 2, 867, 706  
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2, 875, 306  
2, 875, 309  
2, 876, 321  
2, 877, 327  
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2, 878, 355  
2, 879, 360  
2, 879, 362  
2, 880, 295  
2, 883, 502  
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2, 886, 682  
2, 886, 683  
2, 887, 556  
64: 2, 880, 296  
2, 885, 522  
2, 889, 257  
2, 894, 880  
66: 2, 874, 256  
67: 2, 873, 342  
2, 876, 322  
2, 878, 356  
2, 879, 363  
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2, 880, 297  
2, 880, 298  
2, 882, 376  
2, 885, 523  
2, 887, 557  
68: 2, 870, 307  
69: 2, 868, 936  
2, 868, 937  
2, 870, 308  
2, 875, 310  
73: 2, 877, 329  
2, 877, 329  
2, 878, 357  
2, 882, 377  
2, 885, 524  
2, 885, 525  
2, 887, 558  
74: 2, 874, 257  
2, 874, 258

## Class 202

6: 2, 875, 137  
2, 879, 208  
2, 892, 758  
2, 895, 884  
2, 898, 272  
2, 901, 402  
9: 2, 868, 695  
12: 2, 914, 448  
14: 2, 872, 390  
2, 874, 092  
2, 905, 595  
2, 906, 674  
2, 908, 617  
20: 2, 874, 093  
22: 2, 893, 922  
2, 910, 411  
25: 2, 874, 094  
2, 874, 095  
2, 907, 698  
28: 2, 878, 162  
29: 2, 885, 327  
31: 2, 872, 383  
2, 872, 384  
2, 878, 163  
33: 2, 877, 163  
34: 2, 919, 231  
37: 2, 876, 172  
2, 882, 206  
39: 2, 868, 696  
2, 875, 138  
2, 886, 491  
2, 901, 403  
39.5: 2, 876, 173  
2, 878, 164  
2, 878, 165  
2, 878, 166  
2, 880, 143  
2, 890, 154  
2, 891, 894  
2, 900, 309  
2, 901, 404  
2, 910, 412  
2, 916, 422  
40: 2, 868, 697  
2, 874, 096  
2, 878, 167  
2, 894, 878  
2, 901, 405  
2, 905, 596  
2, 905, 597  
2, 912, 365  
41: 2, 901, 406  
42: 2, 874, 097  
2, 880, 144  
2, 893, 923  
2, 893, 924  
2, 900, 310  
2, 901, 407  
45: 2, 894, 879  
46: 2, 868, 698  
2, 868, 699  
2, 870, 065  
2, 878, 168  
2, 889, 256  
2, 893, 925  
2, 902, 414  
2, 909, 469  
2, 919, 232  
50: 2, 899, 364  
51: 2, 891, 895  
52: 2, 884, 359  
2, 886, 492  
2, 887, 441  
2, 889, 257  
2, 894, 880  
56: 2, 868, 700  
2, 904, 475  
57: 2, 870, 066  
2, 874, 098  
2, 874, 099  
2, 874, 100  
2, 876, 174  
2, 882, 207  
2, 884, 360  
2, 884, 361  
2, 884, 362  
2, 884, 363  
2, 886, 493  
2, 886, 494  
2, 888, 386  
2, 900, 311  
2, 905, 598  
2, 906, 675  
2, 906, 676  
2, 911, 340  
2, 912, 366  
59: 2, 907, 699  
60: 2, 871, 169  
64: 2, 890, 155  
66: 2, 873, 230  
2, 888, 387  
2, 893, 931

87: 2, 899, 365  
91: 2, 895, 885  
93: 2, 871, 170  
95: 2, 881, 117  
109: 2, 903, 400  
136: 2, 872, 386  
141: 2, 872, 385  
2, 873, 231  
158: 2, 876, 175  
2, 880, 145  
2, 895, 886  
160: 2, 868, 701  
2, 881, 118  
2, 890, 156  
2, 893, 927  
2, 900, 312  
2, 917, 437  
161: 2, 903, 401  
167: 2, 885, 328  
168: 2, 878, 169  
172: 2, 894, 881  
174: 2, 908, 618  
180: 2, 880, 146  
185: 2, 875, 139  
2, 877, 164  
201: 2, 886, 495  
205: 2, 899, 366  
222: 2, 895, 887  
235: 2, 892, 759  
247: 2, 878, 170

## Class 203

1: 2, 881, 906  
12: 2, 912, 099  
75: 2, 867, 316  
125: 2, 891, 661  
135: 2, 904, 167  
2, 912, 100  
150: 2, 884, 119  
2, 895, 596  
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183: 2, 868, 358  
220: 2, 915, 170  
227: 2, 875, 890  
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240: 2, 894, 617  
260: 2, 904, 168  
263: 2, 919, 015  
305: 2, 892, 535  
355: 2, 889, 034  
399: 2, 881, 907

## Class 204

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3: 2, 880, 147  
9: 2, 879, 209  
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11: 2, 870, 068  
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13: 2, 917, 438  
14: 2, 902, 416  
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15: 2, 872, 391  
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16: 2, 878, 171  
22: 2, 917, 439  
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41: 2, 886, 499  
42: 2, 874, 102  
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44: 2, 886, 500  
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162: 2, 872, 396  
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2, 887, 445



162: 2, 889, 259 2, 890, 990 2, 903, 404 2, 905, 608 2, 906, 680 2, 914, 452	196: 2, 876, 190 2, 893, 938 2, 893, 939 2, 908, 623 2, 910, 419 2, 910, 420 2, 916, 429 2, 918, 420	3: 2, 917, 161 2, 919, 016 8: 2, 886, 170 14: 2, 881, 908 2, 909, 275 16: 2, 880, 854 2, 900, 073 19: 2, 872, 027 2, 883, 039 20: 2, 868, 359 2, 893, 544 2, 910, 171 21: 2, 870, 903 2, 880, 855 24: 2, 897, 957	45.15: 2, 874, 828 45.19: 2, 908, 382 2, 913, 101 45.2: 2, 868, 364 2, 868, 366 2, 868, 367 2, 889, 036 45.24: 2, 899, 048 45.28: 2, 894, 618 45.31: 2, 895, 601 2, 895, 602 2, 905, 313 2, 905, 314 45.33: 2, 911, 093 45.34: 2, 872, 031 2, 873, 023 2, 889, 920 2, 893, 546 46: 2, 868, 368 2, 872, 032 2, 874, 829 2, 880, 859 2, 884, 124 2, 884, 125 2, 895, 603 2, 897, 959 2, 901, 098 2, 903, 126 2, 904, 170 2, 904, 171 2, 905, 315 2, 911, 094 2, 916, 141 2, 917, 163 47: 2, 874, 830 2, 877, 893 2, 886, 172 2, 890, 790 2, 893, 547 2, 901, 099 2, 915, 176 2, 917, 164 2, 917, 165 48: 2, 894, 619 2, 907, 453 50: 2, 910, 176 51: 2, 895, 604 52: 2, 876, 892 2, 889, 921 53: 2, 894, 620 55: 2, 895, 605 56: 2, 872, 033 2, 872, 034 2, 878, 928 2, 881, 911 2, 882, 044 2, 888, 132 2, 888, 133 2, 889, 922 2, 889, 923 2, 891, 663 2, 895, 606 2, 895, 607 2, 895, 608 2, 896, 778 2, 901, 101 2, 901, 101 2, 903, 127 2, 906, 397 2, 906, 398 2, 909, 277 2, 912, 102 2, 913, 102 2, 913, 103 2, 914, 166 2, 915, 177 2, 918, 168 2, 919, 019 57: 2, 878, 929 2, 887, 218 2, 890, 791 2, 919, 020 58: 2, 875, 891 2, 880, 860 59: 2, 867, 317 2, 867, 318 2, 867, 319 2, 868, 369 2, 874, 831 2, 876, 893 2, 876, 894 2, 876, 895 2, 880, 861 2, 880, 862 2, 883, 045 2, 884, 126 2, 885, 072 2, 889, 038 2, 897, 960 2, 906, 399 2, 909, 278 2, 914, 167	60: 2, 873, 852 2, 885, 073 2, 887, 219 2, 894, 621 2, 901, 102 2, 911, 095 2, 913, 104 62: 2, 873, 024 2, 881, 912 2, 881, 913 2, 888, 134 2, 900, 074 2, 917, 166 2, 919, 021 2, 919, 022 63.2: 2, 880, 863 2, 889, 039 2, 897, 961 2, 902, 146 63.3: 2, 870, 906 2, 892, 539 2, 893, 548 63.5: 2, 874, 832 2, 897, 962 64: 2, 918, 169 65: Re.24, 667 2, 867, 320 2, 868, 370 2, 869, 721 2, 869, 721 2, 872, 035 2, 872, 036 2, 873, 025 2, 874, 833 2, 874, 834 2, 874, 835 2, 875, 892 2, 876, 896 2, 876, 897 2, 876, 898 2, 877, 894 2, 878, 930 2, 878, 931 2, 881, 914 2, 881, 915 2, 883, 046 2, 883, 047 2, 887, 220 2, 887, 221 2, 888, 135 2, 889, 040 2, 889, 041 2, 890, 792 2, 891, 664 2, 891, 665 2, 892, 540 2, 893, 549 2, 893, 550 2, 894, 622 2, 896, 779 2, 896, 780 2, 896, 781 2, 899, 049 2, 899, 051 2, 899, 051 2, 903, 126 2, 905, 318 2, 908, 383 2, 909, 279 2, 911, 096 2, 912, 103 2, 912, 104 2, 913, 105 2, 917, 167 66: 2, 888, 136 69: 2, 880, 864 72: 2, 878, 932 2, 879, 886 2, 880, 865 2, 895, 609 2, 897, 963 2, 903, 129 73: 2, 915, 178 75: 2, 883, 048 2, 904, 495 2, 919, 023 2, 915, 448 77: 2, 889, 924 78: 2, 874, 836 2, 892, 541 79: 2, 868, 371 2, 878, 933 2, 913, 106 2, 914, 168 80: 2, 876, 899 2, 884, 127 2, 890, 793 2, 901, 103 83.5: 2, 880, 866 84: 2, 869, 722 2, 873, 852 2, 884, 128 2, 885, 074	84: 2, 890, 794 2, 899, 052 2, 910, 177 2, 914, 169  <b>Class 207</b> 1: 2, 880, 867 2, 883, 049 2, 893, 551 2, 893, 552 2, 896, 782 2, 914, 170 2, 894, 623 2, 899, 053 2, 914, 171 3: 2, 893, 553 2, 896, 783 2, 901, 104 2, 902, 147 2, 905, 317 4: 2, 884, 129 2, 887, 222 2, 887, 223 2, 900, 075 2, 904, 173 2, 909, 281 9: 2, 894, 624 2, 913, 107 10: 2, 870, 907 2, 879, 887 2, 893, 554 2, 893, 555 2, 903, 130 2, 908, 384 2, 908, 385 15: 2, 867, 321 17: 2, 887, 224 2, 894, 625 2, 899, 054 2, 907, 454 19: 2, 872, 037  <b>Class 208</b> 2: 2, 916, 432 5: 2, 886, 506 2, 906, 687 6: 2, 885, 336 7: 2, 905, 615 8: 2, 885, 337 2, 913, 388 11: 2, 871, 180 2, 881, 126 2, 885, 338 2, 885, 339 2, 903, 407 2, 910, 424 2, 911, 349 15: 2, 892, 769 17: 2, 875, 145 2, 894, 896 2, 904, 493 19: 2, 900, 322 2, 915, 454 21: 2, 885, 340 2, 885, 341 2, 903, 408 2, 915, 447 22: 2, 903, 409 23: 2, 870, 080 2, 879, 219 2, 904, 494 2, 913, 389 25: 2, 872, 409 2, 879, 220 2, 889, 260 2, 890, 161 2, 897, 708 2, 901, 350 2, 913, 390 2, 914, 455 2, 917, 446 2, 917, 447 26: 2, 881, 127 2, 904, 495 27: 2, 890, 963 2, 915, 448 28: 2, 889, 261 29: 2, 915, 449 31: 2, 880, 159 2, 882, 215 2, 907, 709 2, 915, 450 2, 915, 451 33: 2, 904, 496 2, 906, 688 34: 2, 889, 262 35: 2, 903, 410 2, 909, 475 37: 2, 903, 411 38: 2, 914, 456	39: 2, 899, 373 2, 919, 239 40: 2, 895, 895 2, 913, 391 41: 2, 903, 412 42: 2, 868, 713 45: 2, 871, 181 46: 2, 890, 162 47: 2, 899, 374 2, 904, 497 2, 911, 351 2, 919, 240 48: 2, 868, 714 2, 874, 112 2, 875, 146 2, 890, 993 2, 893, 941 2, 899, 375 2, 908, 624 49: 2, 904, 498 50: 2, 871, 182 2, 873, 244 53: 2, 879, 221 2, 884, 368 2, 895, 896 2, 899, 376 2, 906, 689 2, 910, 425 54: 2, 871, 183 2, 874, 113 2, 880, 160 2, 908, 625 2, 908, 626 55: 2, 868, 715 2, 871, 184 2, 871, 185 2, 901, 413 2, 904, 499 2, 905, 617 2, 906, 690 56: 2, 873, 245 57: 2, 895, 897 2, 903, 413 2, 904, 500 2, 915, 452 2, 917, 448 58: 2, 888, 393 59: 2, 875, 147 2, 885, 342 2, 885, 343 2, 885, 344 2, 905, 618 2, 909, 476 60: 2, 882, 216 62: 2, 882, 217 2, 899, 377 63: 2, 900, 323 64: 2, 875, 148 2, 891, 901 2, 905, 619 2, 906, 691 2, 908, 627 2, 915, 453 2, 915, 454 2, 917, 449 65: 2, 867, 576 2, 880, 161 2, 880, 162 2, 885, 345 2, 890, 163 2, 890, 994 2, 890, 995 2, 891, 902 2, 895, 898 2, 897, 131 2, 897, 132 2, 899, 378 2, 901, 414 2, 901, 415 2, 902, 426 2, 902, 427 2, 905, 620 2, 905, 621 2, 908, 628 2, 909, 477 2, 915, 455 2, 916, 433 66: 2, 889, 263 2, 893, 942 2, 908, 629 2, 910, 426 2, 916, 434 2, 917, 450 68: 2, 873, 246 2, 911, 352 70: 2, 895, 899 2, 915, 456 72: 2, 895, 900 73: 2, 875, 149 2, 895, 901 2, 895, 902 2, 913, 392
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## Class 208—Con.

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81: 2,917,455  
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84: 2,890,996  
85: 2,879,222  
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87: 2,868,716  
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91: 2,880,163  
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92: 2,914,459  
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94: 2,868,717  
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2,897,139  
2,902,438  
2,914,466  
166: 2,870,087  
2,881,135  
2,893,950  
2,913,404  
2,917,455  
167: 2,886,520  
2,903,420  
2,906,705  
173: 2,868,720  
2,880,170  
2,889,271  
174: 2,868,721  
2,901,421  
183: 2,902,439  
187: 2,903,421  
189: 2,891,002  
2,912,374  
2,915,460  
190: 2,903,422  
2,915,461  
195: 2,914,467  
197: 2,886,521  
198: 2,879,227  
199: 2,871,187  
203: 2,872,412  
2,908,637  
204: 2,893,951  
2,893,952  
2,897,140  
2,916,442  
206: 2,882,224  
2,918,426

208: 2,877,176  
2,899,385  
209: 2,897,141  
210: 2,889,272  
2,889,273  
2,902,440  
212: 2,883,336  
2,889,274  
2,897,142  
213: 2,892,773  
2,897,143  
2,901,422  
2,911,359  
2,912,375  
2,913,405  
2,914,468  
2,917,456  
214: 2,893,953  
2,900,331  
216: 2,867,581  
2,878,180  
2,880,171  
2,883,337  
2,891,003  
2,894,903  
2,900,332  
2,905,636  
2,910,432  
2,910,433  
217: 2,885,352  
2,916,443  
2,916,444  
2,918,427  
218: 2,892,774  
224: 2,893,954  
230: 2,884,377  
231: 2,906,706  
236: 2,892,775  
2,907,710  
2,914,469  
237: 2,899,386  
244: 2,876,196  
246: 2,902,441  
250: 2,898,292  
251: 2,891,004  
2,897,144  
2,910,434  
252: 2,919,245  
253: 2,891,005  
2,902,442  
257: 2,891,006  
263: 2,868,722  
2,878,181  
2,885,353  
2,911,360  
264: 2,898,286  
2,901,423  
2,904,505  
2,908,638  
2,914,470  
2,915,445  
266: 2,882,225  
274: 2,900,333  
284: 2,885,354  
285: 2,874,115  
2,883,338  
2,885,355  
2,889,195  
295: 2,916,446  
297: 2,872,413  
305: 2,870,088  
307: 2,897,145  
309: 2,909,482  
2,909,483  
310: 2,867,582  
2,879,228  
2,886,522  
2,893,955  
2,904,506  
2,904,507  
2,908,639  
311: 2,904,508  
2,905,637  
2,911,361  
2,914,471  
312: 2,886,523  
2,902,443  
320: 2,868,723  
321: 2,878,182  
2,912,376  
323: 2,874,116  
2,902,444  
325: 2,906,707  
327: 2,897,583  
2,898,295  
330: 2,914,472  
334: 2,914,473  
337: 2,894,904  
338: 2,905,638  
344: 2,910,435  
347: 2,909,485  
348: 2,899,387  
2,901,424

350: 2,900,334  
351: 2,908,640  
352: 2,901,425  
353: 2,912,377  
2,915,462  
354: 2,881,136  
355: 2,901,426  
357: 2,904,509  
361: 2,885,359  
364: 2,895,909  
2,897,146  
366: 2,893,956  
2,897,147  
2,904,510  
2,907,711

## Class 209

3: 2,881,916  
2,887,225  
2,903,131  
5: 2,907,455  
11: 2,875,893  
2,907,456  
12: 2,874,837  
2,890,795  
18: 2,874,838  
20: 2,915,179  
34: 2,902,148  
44: 2,903,132  
71: 2,897,964  
72: 2,868,372  
2,876,900  
2,880,868  
2,884,130  
2,885,075  
2,902,149  
2,904,174  
2,908,386  
2,908,387  
2,913,108  
2,917,168  
73: 2,908,388  
74: 2,868,373  
2,881,917  
2,892,542  
2,905,319  
2,907,457  
75: 2,867,322  
2,885,076  
2,909,282  
76: 2,893,108  
79: 2,912,105  
80: 2,917,169  
82: 2,896,784  
2,907,458  
84: 2,904,175  
86: 2,869,723  
2,875,894  
88: 2,873,854  
2,877,895  
2,891,667  
2,901,105  
2,903,133  
2,905,320  
2,867,323  
2,873,855  
2,881,918  
2,902,150  
98: 2,895,610  
99: 2,908,389  
103: 2,901,106  
104: 2,879,888  
2,895,611  
106: 2,915,180  
2,917,170  
107: 2,891,668  
2,917,171  
108: 2,903,134  
110: 2,872,038  
2,894,627  
2,906,400  
111: 2,868,374  
2,872,039  
2,881,919  
2,894,626  
2,895,612  
2,902,151  
2,905,318  
112: 2,875,895  
115: 2,905,321  
121: 2,868,375  
2,872,040  
2,876,901  
2,886,173  
122: 2,902,152  
123: 2,885,050  
127: 2,880,042  
2,899,055  
133: 2,885,077  
138: 2,891,669  
2,913,109  
139: 2,887,226

144: 2,910,178  
2,913,110  
2,913,111  
2,914,172  
147: 2,904,176  
158: 2,899,056  
159: 2,880,869  
2,906,401  
2,919,024  
162: 2,893,556  
166: 2,875,896  
2,885,078  
2,894,628  
2,901,107  
2,904,177  
2,914,173  
2,914,174  
2,919,025  
167: 2,919,026  
169: 2,875,897  
2,892,543  
170: 2,905,322  
172.5: 2,868,376  
2,877,896  
2,877,897  
2,889,043  
2,889,925  
2,893,557  
2,894,629  
2,899,057  
2,899,058  
2,910,179  
2,917,172  
2,917,173  
173: 2,879,889  
208: 2,902,153  
209: 2,887,227  
211: 2,870,908  
2,878,934  
2,889,044  
2,897,965  
2,909,283  
2,913,112  
213: 2,918,170  
215: 2,900,076  
216: 2,904,178  
217: 2,891,670  
219: 2,868,377  
2,901,108  
2,912,106  
2,913,113  
232: 2,874,839  
2,912,107  
236: 2,903,135  
238: 2,868,378  
250: 2,874,840  
254: 2,893,558  
269: 2,880,870  
2,883,051  
2,914,175  
2,917,175  
273: 2,872,041  
2,896,785  
2,908,390  
2,913,114  
2,917,174  
274: 2,916,142  
279: 2,915,181  
283: 2,877,900  
284: 2,870,909  
294: 2,915,182  
300: 2,900,077  
310: 2,880,871  
315: 2,908,391  
316: 2,901,109  
318: 2,908,392  
329: 2,974,841  
330: 2,901,110  
2,912,108  
344: 2,901,111  
365: 2,893,559  
2,914,176  
366.5: 2,915,183  
367: 2,889,026  
379: 2,913,115  
393: 2,911,097  
394: 2,879,890  
2,883,052  
2,893,560  
395: 2,910,180  
396: 2,870,910  
403: 2,899,059  
2,899,060  
408: 2,899,061  
444: 2,902,154  
458: 2,875,898  
2,912,109  
464: 2,872,042  
2,904,179  
491: 2,889,045  
493: 2,883,053  
504: 2,907,459

## Class 210

4: 2,875,151  
5: 2,893,957  
11: 2,897,148  
14: 2,881,137  
18: 2,889,275  
21: 2,903,423  
2,919,246  
31: 2,911,362  
32: 2,874,117  
2,911,363  
35: 2,891,007  
2,902,445  
37: 2,878,183  
2,884,378  
40: 2,887,451  
43: 2,903,424  
48: 2,897,149  
49: 2,877,177  
52: 2,912,378  
53: 2,914,474  
54: 2,885,357  
55: 2,872,414  
58: 2,868,724  
59: 2,904,511  
63: 2,872,415  
2,897,150  
64: 2,873,248  
67: 2,878,026  
70: 2,874,842  
72: 2,892,544  
73: 2,889,927  
2,913,116  
75: 2,875,899  
80: 2,879,891  
82: 2,878,935  
83: 2,900,078  
85: 2,883,054  
90: 2,878,936  
2,879,892  
2,912,110  
91: 2,868,379  
93: 2,884,131  
94: 2,869,724  
2,901,112  
95: 2,909,284  
97: 2,867,324  
2,867,325  
2,899,062  
104: 2,877,326  
2,880,872  
105: 2,902,155  
106: 2,867,327  
107: 2,911,098  
108: 2,879,893  
2,887,228  
109: 2,902,156  
2,904,180  
110: 2,907,460  
111: 2,868,380  
114: 2,881,920  
119: 2,912,111  
120: 2,874,843  
123: 2,884,132  
130: 2,895,613  
133: 2,894,630  
136: 2,884,133  
2,912,112  
137: 2,869,725  
138: 2,907,461  
140: 2,907,462  
142: 2,869,726  
143: 2,868,381  
144: 2,878,937  
2,917,175  
147: 2,870,911  
2,880,873  
149: 2,905,324  
150: 2,874,844  
152: 2,894,631  
153: 2,889,046  
154: 2,885,079  
158: 2,901,113  
159: 2,904,181  
2,918,171  
160: 2,885,080  
162: 2,910,181  
163: 2,889,928  
166: 2,881,921  
2,888,138  
167: 2,874,845  
168: 2,897,966  
169: 2,877,898  
2,899,063  
2,900,079  
2,902,157  
2,919,027



171: 2,887,229	380: 2,893,562	<b>Class 211</b>	60: 2,913,125	126: 2,901,120	21: 2,869,734	1: 2,880,889
2,900,080	2,907,465		2,914,185	2,901,121	2,912,122	2,881,928
173: 2,886,174	383: 2,899,066		2,917,181	2,907,470	2,913,129	2,881,929
2,896,786	388: 2,902,160		2,919,032	2,916,161	34: 2,905,337	2,883,070
2,897,967	2,910,185		62: 2,911,105	129: 2,893,566	35: 2,895,622	2,883,071
2,900,081	390: 2,899,067		64: 2,869,729	2,914,189	2,919,036	2,883,072
2,900,082	391: 2,877,901		65: 2,884,137	132: 2,896,793	41: 2,918,179	2,883,073
2,915,184	392: 2,867,330		2,904,188	133: 2,883,066	42: 2,899,082	2,884,144
174: 2,911,099	2,918,172		2,912,114	134: 2,891,679	49: 2,891,681	2,888,152
180: 2,917,176	396: 2,885,083		2,916,154	2,894,641	55: 2,911,111	2,888,153
184: 2,902,158	400: 2,906,402		2,917,182	2,901,122	58: 2,888,150	2,888,154
187: 2,879,894	401: 2,873,028	10: 2,885,085	2,917,182	135: 2,873,035	2,902,177	2,889,057
193: 2,878,938	2,880,875	2,915,189	2,916,155	2,888,147	2,912,123	2,894,647
194: 2,889,929	2,895,614	11: 2,876,907	2,916,156	2,891,680	2,916,162	2,896,796
197: 2,889,047	2,916,145	2,890,798	2,902,166	2,897,977	2,895,623	2,899,084
200: 2,901,114	402: 2,894,635	13: 2,875,902	2,905,334	2,905,334	2,900,089	2,900,090
202: 2,878,939	2,899,068	2,883,061	2,908,396	2,915,193	2,910,189	2,901,126
2,907,463	404: 2,889,931	2,889,934	72: 2,902,170	136: 2,896,794	2,919,037	2,901,127
205: 2,874,118	405: 2,899,069	2,893,564	74: 2,879,900	2,907,471	63: 2,877,905	2,902,178
207: 2,911,364	2,916,146	2,894,638	2,889,051	2,909,289	66: Re.24,727	2,904,192
208: 2,886,175	406: 2,896,787	2,899,073	2,897,974	2,912,119	2,883,067	2,905,338
2,891,008	407: 2,914,180	2,901,116	2,899,079	2,915,194	2,903,142	2,905,339
2,907,712	408: 2,909,286	2,905,328	2,906,412	141: 2,902,174	2,917,189	2,906,416
211: 2,891,671	409: 2,889,048	2,905,329	2,912,115	142: 2,901,123	68: 2,908,401	2,907,477
213: 2,870,912	415: Re.24,677	2,906,405	2,914,186	143: 2,872,048	70: 2,883,068	2,907,478
219: 2,899,064	416: 2,902,161	2,906,406	2,917,183	2,915,195	81: 2,896,795	2,908,403
221: 2,888,139	2,913,120	2,914,182	75: 2,916,157	2,918,176	128: 2,918,180	2,908,404
222: 2,873,027	429: 2,869,727	2,915,190	77: 2,880,882	144: 2,902,175	144: 2,867,333	2,908,405
2,877,899	431: 2,916,147	16: 2,915,191	78: 2,883,063	2,867,332	2,869,735	2,910,192
2,885,081	437: 2,904,186	17: 2,873,034	2,887,232	2,892,547	2,874,851	2,911,114
2,887,230	438: 2,886,180	26: 2,881,924	2,902,171	2,893,567	2,888,151	2,912,125
2,914,178	2,902,162	2,903,137	2,911,107	2,895,619	2,910,190	2,913,130
2,915,185	439: 2,895,615	30: 2,889,935	81: 2,917,184	2,908,399	145: 2,891,682	2,915,199
2,876,902	440: 2,873,029	31: 2,916,149	83: 2,905,333	2,910,187	2,914,194	2,915,200
2,893,561	2,877,902	34: 2,889,936	85: 2,883,064	2,912,120	2,915,201	2,915,201
2,915,186	2,888,141	2,902,167	86: 2,876,908	2,917,187	2,916,164	2,918,183
2,919,028	2,902,163	2,916,150	2,888,146	2,919,033	2,918,183	2,919,039
230: 2,902,159	443: 2,873,858	37: 2,896,789	2,896,791	148: 2,869,731	2,867,336	2,867,337
232: 2,874,846	444: 2,873,030	38: 2,901,117	2,903,140	2,872,049	2,911,112	2,873,036
2,909,285	446: 2,914,181	40: 2,899,074	2,912,116	2,875,904	2,911,113	2,877,906
234: 2,904,182	2,915,187	2,899,075	2,916,158	2,894,642	2,885,093	2,886,189
236: 2,916,143	447: 2,906,403	2,899,076	87: 2,885,088	2,894,643	22: 2,903,143	2,903,144
237: 2,904,183	2,915,188	2,906,408	2,887,233	2,895,620	24: 2,906,415	2,867,338
238: 2,878,940	448: 2,893,563	2,908,394	88: 2,878,945	2,897,978	32: 2,897,980	2,885,096
242: 2,876,903	450: 2,889,932	2,916,151	89: 2,881,926	2,908,400	33: 2,916,163	2,900,091
2,891,672	453: 2,870,914	2,917,179	2,912,117	2,913,128	40: 2,880,884	2,904,193
2,908,393	457: 2,884,135	41: 2,873,859	2,916,159	2,914,190	2,889,056	2,904,194
2,913,117	2,891,674	2,884,136	90: 2,870,916	2,919,034	2,892,551	2,919,040
264: 2,910,182	2,905,326	2,885,087	2,900,085	149: 2,901,124	2,909,292	2,870,921
272: 2,880,874	2,907,466	2,887,231	2,900,087	150: 2,875,905	2,914,195	2,870,922
2,917,177	458: 2,911,101	2,897,973	2,911,108	153: 2,876,910	2,915,198	2,875,907
275: 2,888,140	460: 2,886,181	2,902,168	92: 2,883,065	2,888,145	2,893,569	2,878,947
2,905,325	2,900,084	2,872,046	93: 2,895,617	2,914,191	2,880,886	2,881,930
278: 2,897,968	462: 2,877,903	7,879,897	94: 2,889,938	162: 2,905,335	2,893,571	2,883,074
282: 2,867,328	463: 2,905,327	2,911,103	95: 2,917,185	163: 2,918,177	2,897,981	2,889,058
291: 2,873,856	464: 2,885,084	2,914,183	96: 2,868,386	165: 2,905,621	2,912,124	2,894,648
2,874,847	469: 2,907,467	2,879,898	2,884,138	168: 2,911,110	2,886,188	2,900,092
292: 2,886,177	470: 2,890,796	2,880,879	96: 2,868,387	170: 2,915,197	2,884,140	2,901,128
293: 2,873,857	2,913,121	2,889,937	2,911,109	175: 2,877,602	2,893,572	2,905,340
2,900,083	471: 2,867,331	2,907,468	97: 2,917,186	2,885,090	2,880,887	2,905,341
295: 2,868,382	2,894,636	2,919,031	100: 2,875,903	177: 2,887,234	2,899,083	2,910,193
298: 2,876,904	2,897,969	2,886,142	2,877,904	2,890,801	2,889,939	2,915,202
2,876,905	473: 2,888,142	2,896,788	2,902,172	2,894,644	66: 2,876,911	2,875,909
299: 2,911,100	2,896,788	2,886,145	103: 2,876,909	2,907,472	69: 2,889,940	2,916,165
301: 2,875,900	474: 2,897,970	2,891,677	104: 2,889,052	2,917,188	72: 2,869,736	2,875,906
305: 2,917,178	476: 2,883,057	2,896,790	105: 2,916,160	2,892,548	75: 2,868,393	2,872,052
2,919,029	480: 2,873,031	2,901,118	105.1: 2,870,917	2,893,568	2,905,336	2,872,053
307: 2,872,043	483: 2,903,136	2,904,187	105.2: 2,870,918	2,900,088	2,901,188	2,872,054
2,883,055	484: 2,875,901	2,905,330	2,890,799	2,902,176	180: 2,899,081	2,880,891
315: 2,910,188	486: 2,902,164	2,908,393	2,918,175	2,914,192	181: 2,868,391	2,878,948
2,913,118	2,902,165	2,916,152	105.3: 2,880,883	2,884,143	184: 2,869,732	2,876,919
321: Re.24,736	487: 2,883,058	2,916,152	106: 2,890,800	2,899,083	2,869,733	2,875,909
322: 2,884,134	488: 2,890,797	2,917,180	2,897,975	2,884,139	2,885,091	2,876,910
323: 2,868,383	2,919,030	2,918,174	113: 2,885,089	2,885,091	77: 2,876,912	2,875,907
2,872,044	492: 2,918,173	2,873,860	2,897,976	2,889,055	78: 2,876,913	2,875,908
2,891,673	493: 2,897,971	2,901,119	2,908,398	2,905,336	100: 2,870,919	2,872,055
2,904,184	502: 2,898,293	2,886,183	114: 2,915,192	2,901,188	112: 2,907,475	2,880,891
2,914,179	512: 2,897,972	2,912,113	119: 2,886,185	2,892,549	120: 2,885,094	2,889,941
331: 2,894,632	2,906,404	54: 2,911,104	119.02: 2,889,053	2,892,550	146: 2,909,293	2,914,197
2,901,115	513: 2,878,944	55: 2,879,899	119.03: 2,913,127	2,892,551	148: 2,919,038	2,878,949
332: 2,874,848	519: 2,874,850	2,906,409	119.1: 2,868,388	2,892,552	151: 2,881,927	2,876,919
2,892,546	2,883,059	2,909,287	2,904,188	2,892,553	166: 2,876,912	2,889,942
333: 2,886,178	520: 2,881,922	2,913,124	2,896,792	2,892,554	171: 2,904,191	2,889,943
334: 2,885,082	521: 2,868,384	2,914,184	2,910,186	2,892,555	212: 2,891,683	2,874,856
336: 2,883,056	2,879,895	58: 2,886,184	2,914,188	2,892,556	221: 2,891,684	2,873,865
341: 2,894,633	523: 2,880,876	59: 2,895,616	119.17: 2,879,901	2,892,557	224: 2,907,476	2,873,866
346: 2,878,941	2,899,070	60: 2,880,881	2,899,090	2,892,558	112: 2,907,475	2,873,867
2,916,144	524: 2,873,032	2,881,925	121: 2,912,118	2,892,559	126: 2,872,050	2,873,868
347: 2,874,849	525: 2,881,923	2,883,062	123: 2,868,389	2,892,560	15: 2,872,052	2,873,869
360: 2,867,329	526: 2,869,728	2,893,565	2,904,190	2,892,561	17: 2,912,121	2,873,870
2,907,464	527: 2,899,071	2,899,078	124: 2,868,390	2,892,562	20: 2,906,413	2,873,871
363: 2,904,185	530: 2,880,877	2,902,169	2,902,173	2,892,563	12: 2,872,051	2,873,872
364: 2,876,906	2,888,143	2,903,138	126: Re.24,731	2,892,564	15: 2,872,052	2,873,873
369: 2,889,930	528: 2,869,728	2,903,139	2,873,861	2,892,565	17: 2,912,121	2,873,874
370: 2,870,913	529: 2,891,675	2,903,140	2,886,186	2,892,566	20: 2,906,413	2,873,875
2,872,045	541: 2,889,933	2,903,141	2,891,678	2,892,567		2,873,876
2,886,179			2,894,640	2,892,568		2,873,877
371: 2,910,184				2,892,569		2,873,878
374: 2,878,943				2,892,570		2,873,879
375: 2,894,634				2,892,571		2,873,880
376: 2,899,065				2,892,572		2,873,881
377: 2,913,119				2,892,573		2,873,882



Class 214—Con.		Class 215		Class 216		Class 217		Class 218		Class 219		Class 220	
16. 1:	2,901,130	83. 28:	2,901,133	313:	2,909,297	55:	2,873,040	10. 79:	2,879,366	29:	2,894,106	30:	2,900,481
	2,911,115	83. 3:	2,879,906		2,917,192		2,878,953		2,886,685		2,900,481		2,916,595
	2,915,203		2,894,651	314:	2,872,058	1:	2,880,898		2,886,942		2,916,595		2,927,777
	2,916,166	83. 32:	2,883,076		2,901,136	6:	2,905,350		2,870,277		2,927,777		2,931,335
	2,916,167	83. 36:	2,870,923		2,905,344		2,869,745		2,870,311		2,931,335		2,938,510
	2,916,168		2,916,169	317:	2,899,092		2,883,082		2,870,312		2,938,510		2,945,036
	2,917,190	84:	2,889,945	318:	2,886,196		2,884,148		2,873,347		2,945,036		2,952,336
	2,917,191		2,889,946	330:	2,910,201		2,885,104		2,874,259		2,952,336		2,959,579
16. 4:	2,969,739		2,895,627	332:	2,874,861		2,900,100		2,875,312		2,959,579		2,966,794
	2,896,800		2,904,196		2,877,911	9:	2,867,342		2,875,313		2,966,794		2,973,331
	2,907,479		2,910,197		2,877,912		2,881,934		2,876,326		2,973,331		2,980,579
	2,915,204		2,914,199		2,877,913		2,908,413		2,877,332		2,980,579		2,987,615
16. 6:	2,917,191		2,914,200	340:	2,910,202	10:	2,893,583		2,879,367		2,987,615		2,994,559
	2,896,801		2,915,207	372:	2,893,577	11:	2,870,930		2,881,299		2,994,559		3,001,335
	2,907,479	85:	2,880,893		2,917,193		2,877,917		2,889,439		3,001,335		3,008,710
	2,873,037		2,889,060	373:	2,910,928		2,879,911		2,889,440		3,008,710		3,015,335
	2,876,914		2,900,094	375:	2,916,170		2,881,935		2,889,441		3,015,335		3,022,335
	2,877,907	86:	Re. 24,719	378:	2,893,578		2,887,239		2,890,312		3,022,335		3,029,335
	2,878,949		2,913,131	379:	2,893,579		2,889,063		2,890,313		3,029,335		3,036,335
	2,879,903	89:	2,872,057	390:	2,897,989		2,889,064		2,891,336		3,036,335		3,043,335
	2,879,904		2,902,181	392:	2,902,183		2,892,559		2,892,526		3,043,335		3,050,335
	2,879,905	92:	2,869,741		2,902,184		2,907,485		2,899,527		3,050,335		3,057,335
	2,880,892	93:	2,879,907		2,904,200		2,889,065		2,899,528		3,057,335		3,064,335
	2,884,145	95:	2,885,098	394:	2,875,911		2,917,197		2,902,573		3,064,335		3,071,335
	2,884,146		2,900,095		2,889,061		2,880,899		2,902,574		3,071,335		3,078,335
	2,888,155		2,904,197		2,893,580		2,881,936		2,902,575		3,078,335		3,085,335
	2,890,803		2,904,198		2,901,137		2,893,584		2,903,544		3,085,335		3,092,335
	2,890,804	103:	2,889,947		2,913,132		2,909,300		2,903,545		3,092,335		3,099,335
	2,891,685		2,892,557	396:	2,889,062	19:	2,869,747		2,903,546		3,099,335		3,106,335
	2,892,552		2,901,134		2,896,803	21:	2,918,187		2,903,547		3,106,335		3,113,335
	2,895,626	130:	2,874,860		2,909,298	31:	2,886,198		2,904,665		3,113,335		3,120,335
	2,901,131		2,886,192	450:	2,885,102	32:	2,896,807		2,906,843		3,120,335		3,127,335
	2,906,417		2,886,193		2,887,237	37:	2,884,149		2,906,844		3,127,335		3,134,335
	2,907,480	131:	2,879,908		2,889,950	38:	2,872,064		2,908,791		3,134,335		3,141,335
	2,908,406		2,897,986		2,895,628		2,885,105		2,910,567		3,141,335		3,148,335
	2,911,116		2,912,130		2,896,804		2,891,689		2,910,568		3,148,335		3,155,335
	2,912,126		2,914,201	500:	2,917,194		2,897,992		2,912,555		3,155,335		3,162,335
	2,912,127	134:	2,876,920	501:	2,914,204	40:	2,874,863		2,912,556		3,162,335		3,169,335
	2,914,198	138:	2,870,924	505:	2,905,345		2,880,900		2,914,643		3,169,335		3,176,335
	2,915,205		2,873,871	506:	2,872,059		2,880,901		2,915,612		3,176,335		3,183,335
	2,918,185		2,878,950		2,876,922		2,906,421		2,916,594		3,183,335		3,190,335
18:	2,888,156		2,878,951		2,879,909		2,916,173		2,917,613		3,190,335		3,197,335
	2,892,553		2,880,894		2,887,238	41:	2,869,746		2,918,642		3,197,335		3,204,335
	2,893,575		2,890,805		2,895,629		2,884,150		2,919,643		3,204,335		3,211,335
	2,893,576		2,896,802		2,901,138		2,884,151		2,920,644		3,211,335		3,218,335
	2,897,983		2,903,145		2,907,484		2,886,199		2,921,645		3,218,335		3,225,335
	2,904,195	140:	Re. 24,746		2,908,412		2,893,585		2,922,646		3,225,335		3,232,335
	2,910,194		2,868,399		2,915,209		2,894,654		2,923,647		3,232,335		3,239,335
	2,911,117		2,876,921	508:	2,879,910		2,901,140		2,924,648		3,239,335		3,246,335
18. 2:	2,868,396		2,881,931		2,888,158		2,904,204		2,925,649		3,246,335		3,253,335
	2,891,686		2,883,077		2,905,346		2,913,134		2,926,650		3,253,335		3,260,335
	2,910,195		2,887,236	510:	2,885,103		2,914,206		2,927,651		3,260,335		3,267,335
	2,910,196		2,892,558	512:	2,883,079		2,915,211		2,928,652		3,267,335		3,274,335
	2,894,649		2,897,987		2,903,147		2,888,159		2,929,653		3,274,335		3,281,335
23:	2,880,299		2,910,198		2,913,133		2,916,174		2,930,654		3,281,335		3,288,335
24:	2,868,397		2,914,202		2,918,186		2,917,175		2,931,655		3,288,335		3,295,335
25:	2,886,191	145:	2,871,120	514:	2,880,897		2,903,148		2,932,656		3,295,335		3,302,335
26:	2,897,984		2,870,925	515:	2,904,201		2,906,422		2,933,657		3,302,335		3,309,335
27:	2,902,179	147:	2,870,926	516:	2,873,502		2,913,135		2,934,658		3,309,335		3,316,335
28:	2,872,054		2,880,895	517:	2,867,339		2,914,207		2,935,659		3,316,335		3,323,335
29:	2,901,132		2,881,932	518:	2,914,205		2,915,212		2,936,660		3,323,335		3,330,335
30:	2,908,407		2,886,194	521:	2,867,340		2,916,176		2,937,661		3,330,335		3,337,335
31:	2,874,858		2,890,806	522:	2,877,914		2,917,181		2,938,662		3,337,335		3,344,335
32:	2,892,554		2,903,146	523:	2,873,873		2,918,186		2,939,663		3,344,335		3,351,335
33:	2,894,650		2,908,409	620:	2,894,653		2,919,191		2,940,664		3,351,335		3,358,335
34:	2,873,866		2,914,203		2,896,805		2,920,196		2,941,665		3,358,335		3,365,335
35:	2,876,915	152:	2,868,400	650:	2,900,098		2,921,201		2,942,666		3,365,335		3,372,335
36:	2,907,481		2,868,401	651:	2,893,582		2,922,202		2,943,667		3,372,335		3,379,335
37:	2,905,343		2,869,743		2,906,420		2,923,203		2,944,668		3,379,335		3,386,335
38:	2,872,055		2,884,147		2,909,299		2,924,204		2,945,669		3,386,335		3,393,335
39:	2,873,867		2,885,099	652:	2,870,929		2,925,205		2,946,670		3,393,335		3,400,335
40:	2,877,908		2,885,100		2,874,862		2,926,206		2,947,671		3,400,335		3,407,335
41:	2,909,294		2,889,948		2,890,807		2,927,207		2,948,672		3,407,335		3,414,335
42:	2,872,056		2,902,182	653:	2,886,197		2,928,208		2,949,673		3,414,335		3,421,335
43:	2,889,943		2,910,199		2,890,807		2,929,209		2,950,674		3,421,335		3,428,335
44:	2,869,740		2,910,200		2,904,202		2,930,210		2,951,675		3,428,335		3,435,335
45:	2,873,868		2,912,132		2,916,171		2,931,211		2,952,676		3,435,335		3,442,335
46:	2,883,075		2,915,208		2,919,043		2,932,212		2,953,677		3,442,335		3,449,335
47:	2,892,555		2,894,652	654:	2,869,742		2,933,213		2,954,678		3,449,335		3,456,335
48:	2,897,985		2,911,121		2,873,874		2,934,214		2,955,679		3,456,335		3,463,335
49:	2,899,088		2,912,122		2,875,912		2,935,215		2,956,680		3,463,335		3,470,335
50:	2,908,408		2,913,123	302:	2,875,913		2,936,216		2,957,681		3,470,335		3,477,335
51:	2,915,206		2,877,909		2,905,347		2,937,217		2,958,682		3,477,335		3,484,335
52:	2,873,869		2,885,101		2,897,990		2,938,218		2,959,683		3,484,335		3,491,335
53:	2,876,916		2,890,996	658:	2,897,990		2,939,219		2,960,684		3,491,335		3,498,335
54:	2,889,059		2,904,199		2,917,195		2,940,220		2,961,685		3,498,335		3,505,335
55:	2,899,089		2,906,419	671:	2,877,915		2,941,221		2,962,686		3,505,335		3,512,335
56:	2,911,118		2,908,410	672:	2,867,341		2,942,222		2,963,687		3,512,335		3,519,335
57:	2,906,418												



39: 2,909,637 2,909,638 2,911,513 2,914,648 2,916,598 2,917,617 40: 2,875,317 2,885,527 2,899,532 2,902,580 2,914,649 41: 2,888,546 2,888,547 2,899,533 2,902,581 2,907,860 2,918,561 43: 2,867,712 2,872,560 2,880,301 2,885,548 2,892,066 2,906,850 2,907,861 44: 2,868,945 2,872,561 2,872,562 2,881,303 2,896,062 2,899,534 2,901,587 2,902,582 2,903,552 2,904,667 2,907,862 2,908,796 2,910,571 2,911,514 2,914,650 2,915,613 2,915,614 2,916,599 45: 2,878,861 46: 2,868,946 2,873,352 2,883,513 2,889,445 2,915,615 50: 2,902,583 2,912,561 2,918,562 56: 2,903,553 57: 2,874,262 2,885,528 58: 2,890,320 59: 2,890,321 2,896,440 60: 2,894,111 2,906,851 2,910,572 61: 2,874,263 2,906,852 62: 2,873,353 67: 2,882,384 2,886,690 2,886,691 2,887,560 2,904,668 69: 2,867,713 2,868,947 2,884,510 2,885,529 2,896,692 2,886,693 2,887,561 2,890,322 2,891,137 2,899,535 2,901,588 2,902,584 2,902,585 2,902,586 2,903,554 2,903,555 2,903,556 2,903,557 2,906,853 2,907,863 2,908,797 2,908,798 2,908,799 2,909,639 2,909,640 2,909,641 70: 2,899,536 73: 2,868,948 2,868,949 2,896,063 2,909,642 74: 2,882,385 2,900,484 2,902,587 2,903,558 2,907,864 2,907,865 2,907,866 2,908,800 2,908,801 2,916,600 2,916,601 2,918,563 2,919,341 75: 2,872,563 2,887,562 2,892,067 2,898,441 2,900,485 2,903,559 2,903,560 2,906,854 2,876,330 2,902,588 2,912,562 2,914,651 2,916,602 78: 2,876,331 2,878,362 2,892,919 2,901,589 2,903,561 2,912,563 2,916,603 79: 2,875,318 2,883,514 2,892,920 2,899,537 2,905,802 2,905,803 2,906,855 2,911,515 2,913,567 80: 2,888,549 2,898,442 81: 2,892,921 2,895,037 2,908,802 82: 2,899,538 84: 2,908,803 2,918,564 85: 2,876,332 2,877,336 2,885,530 2,891,138 2,894,112 2,896,064 2,916,604 86: 2,872,564 2,883,515 2,889,446 2,892,068 2,905,804 2,908,804 87: 2,868,952 2,892,922 2,907,867 89: 2,879,373 2,879,374 2,883,516 2,906,856 2,912,564 90: 2,882,386 91: 2,876,333 92: 2,903,562 95: 2,874,264 96: 2,882,387 2,894,113 97: 2,870,321 2,877,337 98: 2,867,714 2,870,322 2,892,069 2,897,338 2,903,563 2,915,617 99: 2,878,363 2,885,531 2,896,065 2,898,443 100: 2,880,303 101: 2,875,319 2,894,114 2,897,339 102: 2,886,694 104: 2,873,354 2,919,342 2,919,343 107: 2,880,304 2,885,532 2,902,589 2,903,564 110: 2,899,539 113: 2,871,337 114: 2,878,364 2,878,365 2,888,550 117: 2,867,715 2,871,338 2,872,565 2,881,304 2,883,517 2,892,923 2,897,340 2,901,590 2,909,643 2,909,644 118: 2,883,518 2,892,924 2,902,590 2,914,652 120: 2,874,265 121: 2,877,338 2,884,511 2,906,857 2,906,858 124: 2,874,266 2,898,444 2,903,565 2,912,565 125: 2,868,953 2,885,533 2,892,070 2,892,071 2,900,486 2,903,566 2,908,805 2,911,517 2,914,653 126: 2,900,487 2,916,605 127: 2,892,925 2,898,445 2,917,618 130: 2,868,954 2,868,955 2,871,334 2,873,355 2,876,334 2,880,305 2,881,305 2,885,534 2,886,695 2,890,323 2,897,341 2,897,342 2,900,488 2,903,567 2,906,859 2,909,646 131: 2,873,356 2,892,072 2,909,647 132: 2,872,566 135: 2,877,339 2,897,343 2,906,860 2,906,861 136: 2,900,489 2,914,654 137: 2,868,956 2,870,323 2,871,339 2,879,375 2,879,376 2,886,696 2,897,344 2,899,532 2,901,591 2,901,592 2,905,805 2,909,648 2,909,649 138: 2,873,357 2,898,446 2,903,568 142: 2,889,447 143: 2,870,324 2,885,535 146: 2,868,957 2,909,650 2,909,659 147: 2,904,668 149: 2,890,324 150: 2,871,340 2,889,448 151: 2,892,926 152: 2,890,325 2,909,651 2,913,568 153: 2,903,569 155: 2,876,335 2,894,115 156: 2,876,336 Class 220 1: 2,869,749 2,894,655 2,1: 2,889,952 2,2: 2,889,067 3: 2,895,633 3,3: 2,867,349 2,913,136 3,4: 2,894,656 2,895,634 2,900,101 3,6: 2,867,344 2,870,931 2,875,914 2,885,106 2,886,201 2,908,416 3,7: 2,875,915 2,916,177 2,917,199 3,8: 2,877,919 2,891,693 2,878,955 2,879,912 3,9: 2,878,955 2,879,912 3,94: 2,881,940 4: 2,869,750 2,873,875 2,878,956 2,887,242 2,892,561 2,893,588 2,897,994 2,899,096 2,899,097 2,904,208 2,907,488 2,916,178 2,918,190 2,919,045 5: 2,876,923 2,893,589 2,895,635 6: 2,897,995 2,914,210 7: 2,868,406 2,868,407 2,892,562 8: 2,876,924 2,880,902 2,887,243 2,904,209 2,907,487 9: 2,873,041 2,889,953 2,890,102 2,911,125 11: 2,904,210 12: 2,905,417 14: 2,869,751 15: 2,874,865 2,892,563 2,892,564 2,895,636 2,897,996 2,899,098 2,905,352 2,916,179 2,919,046 17: 2,885,107 2,910,206 18: 2,876,925 2,881,941 19: 2,875,916 2,904,211 2,905,353 2,910,207 2,912,133 20: 2,874,866 2,896,809 2,912,134 2,913,137 20,5: 2,905,354 2,912,135 21: 2,886,202 2,903,150 22: 2,884,154 2,888,160 2,897,997 2,914,211 23: 2,870,932 23,2: 2,903,151 23,4: 2,884,155 2,889,954 2,894,657 2,896,810 2,915,213 23,83: 2,906,427 23,86: 2,916,180 24: 2,886,203 2,890,810 2,907,488 24,3: 2,867,343 2,870,933 24,5: 2,891,694 2,899,099 2,905,355 2,904,212 26: 2,867,346 2,867,347 2,873,042 2,884,156 2,886,204 2,888,161 2,897,998 2,913,138 2,914,212 2,919,047 27: 2,907,489 2,908,418 29: 2,897,999 30: 2,878,957 30,5: 2,877,920 2,892,565 2,867,348 2,902,185 2,906,428 2,915,214 32: 2,907,490 33: 2,870,934 35: 2,873,876 2,888,162 2,905,356 36: 2,872,063 2,889,068 38: 2,879,913 2,888,163 39: 2,876,926 2,877,921 2,887,244 2,889,069 2,893,590 2,900,103 2,906,429 2,910,208 2,919,048 40: 2,867,350 2,869,752 2,872,065 2,879,914 2,883,083 2,895,637 2,907,491 2,918,191 41: 2,881,942 2,884,157 42: 2,885,108 2,901,142 2,905,357 43: 2,867,351 44: 2,867,352 2,873,877 2,874,867 2,918,192 46: 2,873,878 2,875,917 2,880,903 2,898,000 2,903,152 2,903,153 2,910,209 48: 2,899,100 52: 2,868,408 2,868,409 2,874,868 2,884,158 2,890,811 2,899,101 2,899,102 2,904,213 2,915,215 2,918,193 2,919,049 53: 2,870,935 55: 2,872,066 2,873,043 2,875,918 2,883,084 2,892,566 55,3: 2,917,200 55,7: 2,873,879 2,873,880 2,881,943 2,884,159 2,900,104 60: 2,868,410 2,884,160 2,906,430 2,913,139 2,913,140 62: 2,916,181 63: 2,876,927 2,884,161 2,896,811 2,908,419 2,912,136 2,916,182 64: 2,875,919 2,897,922 2,914,213 2,918,194 65: 2,872,067 2,912,137 2,916,183 69: 2,872,068 2,877,923 2,890,812 2,893,591 2,916,184 73: 2,869,753 77: 2,893,592 81: 2,907,492 82: 2,867,353 2,883,085 83: 2,875,920 85: 2,868,411 2,878,958 2,879,915 2,885,109 2,896,812 2,901,143 2,907,493 2,912,138 88: 2,870,936 2,881,944 2,889,955 2,917,201 89: 2,868,412 2,875,921 2,889,070 2,889,071 2,905,358 2,915,216 90: 2,873,044 2,873,881 2,903,154 90,4: 2,914,214 91: 2,901,144 93: 2,889,956 94: 2,881,945 2,886,205 2,886,206 2,896,813 96: 2,879,916 97: 2,878,959 2,879,917 2,889,072 2,891,695 2,912,139 102: 2,900,105 105: 2,900,106 106: 2,888,164 110: 2,916,185 112: 2,874,869 2,874,870 113: 2,881,946 2,887,245 2,891,696 2,905,359 2,917,202 2,919,050 115: 2,887,246 2,889,957 2,893,593 2,899,104 2,906,431 116: 2,896,814 117: 2,896,815 Class 221 1: 2,893,594 2: 2,885,110 4: 2,878,960 9: 2,868,413 2,905,360 10: 2,889,073 2,892,567 2,902,186 11: 2,869,754 13: 2,874,871 2,885,111 16: 2,878,961 20: 2,914,215 22: 2,870,937 25: 2,887,247 2,889,958 33: 2,885,112 34: 2,881,947 2,885,113 2,901,145 2,913,144 35: 2,881,948 42: 2,889,959 43: 2,904,214 44: 2,877,403 46: 2,884,162 64: 2,896,816 67: 2,872,071 2,877,924 2,887,248 2,890,813 68: 2,915,217 70: 2,912,140 71: 2,885,114 75: 2,918,195 77: 2,888,165 81: 2,888,166 2,904,215 85: 2,872,069 90: 2,884,163 2,896,817 2,904,216 93: 2,869,755 102: 2,915,218 104: 2,913,141 105: 2,913,142 106: 2,916,186 108: 2,889,074 112: 2,874,872 113: 2,888,167 2,915,219 115: 2,903,155 116: 2,873,882 122: 2,876,928 124: 2,918,196 125: 2,875,922 2,880,904 2,898,001 129: 2,885,115 2,893,596 131: 2,888,168 2,899,070 2,899,071 133: 2,873,045 154: 2,916,187 156: 2,891,697 2,907,494 163: 2,916,188 166: 2,889,960 167: 2,888,169 168: 2,881,949 171: 2,873,883 2,877,925 175: 2,878,962 2,889,961 2,890,814 176: 2,880,905 178: 2,896,818 182: 2,889,075 183: 2,870,938 2,915,197 186: 2,875,923 188: 2,868,414 190: 2,878,963 2,901,146 2,914,216 195: 2,917,203 198: 2,885,116 200: 2,917,204 201: 2,908,420 203: 2,874,873 2,880,906 2,896,819 206: 2,886,207 207: 2,876,929 2,891,698 2,906,432 208: 2,908,421 210: 2,896,820 2,917,205 211: 2,885,117 2,892,568 2,903,156 2,910,210 2,918,198 212: 2,869,756 213: 2,870,939 220: 2,900,107 2,906,433 222: 2,877,926 224: 2,895,638 225: 2,881,950 227: 2,873,046 232: 2,889,076 233: 2,870,940 236: 2,879,918 2,910,211 238: 2,893,597 240: 2,902,187 246: 2,877,927 248: 2,893,598 258: 2,911,127 259: 2,896,821 260: 2,873,047 2,876,930 2,893,599 2,903,157 261: 2,903,158 263: 2,878,964 264: 2,903,159 266: 2,895,639 268: 2,900,108 2,913,143 277: 2,879,919 279: 2,876,931 288: 2,886,208 290: 2,903,160 293: 2,889,962
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**Class 221—Con.**

295: 2,877,928  
297: 2,906,434  
298: 2,875,924  
299: 2,880,907  
2,886,209  
2,892,569  
309: 2,899,105

**Class 222**

1: 2,872,070  
2,873,048  
2,873,049  
2,877,929  
2,886,210  
2,893,595  
2,893,600  
2,893,601  
2,900,109  
2,905,361  
2,918,199  
3: 2,895,640  
2,904,217  
2,915,220  
5: Re.24,718  
2,878,965  
2,890,815  
2,894,658  
2,904,218  
14: 2,869,757  
16: 2,913,145  
20: 2,892,570  
23: 2,879,920  
25: 2,906,435  
26: 2,880,908  
2,886,211  
2,898,002  
29: 2,869,758  
30: 2,872,072  
33: 2,877,930  
35: 2,874,874  
2,874,875  
39: 2,875,925  
41: 2,888,170  
43: 2,892,571  
2,917,206  
47: 2,888,171  
48: 2,869,759  
2,895,641  
54: 2,880,909  
55: 2,872,073  
2,872,074  
2,900,110  
2,913,146  
2,917,207  
56: 2,891,699  
2,905,362  
57: 2,909,303  
63: 2,887,249  
2,902,188  
2,907,495  
64: 2,867,354  
2,919,052  
65: 2,880,910  
67: 2,883,086  
68: 2,885,118  
70: 2,870,941  
2,872,075  
2,872,076  
2,876,932  
2,881,951  
2,905,363  
2,913,147  
72: 2,885,119  
2,894,659  
74: 2,900,111  
76: 2,869,760  
2,885,120  
2,887,250  
2,904,219  
2,914,217  
2,919,053  
77: 2,889,077  
2,893,602  
78: 2,870,942  
2,873,884  
79: 2,877,931  
2,888,172  
2,915,221  
80: 2,895,642  
81: 2,873,885  
2,903,161  
82: 2,899,106  
83: 2,877,932  
2,893,603  
2,911,129  
85: 2,876,933  
86: 2,881,952  
89: 2,912,141  
90: 2,868,415  
2,878,966  
2,895,643  
91: 2,873,886

92: 2,891,700  
2,907,496  
94: 2,873,887  
2,881,953  
2,905,364  
95: 2,889,078  
98: 2,875,926  
99: 2,873,888  
2,896,822  
2,903,162  
100: 2,872,077  
2,883,087  
102: 2,874,876  
2,876,934  
2,881,954  
2,901,147  
105: 2,880,911  
2,896,823  
107: 2,878,967  
2,898,003  
108: 2,894,660  
109: 2,889,079  
2,889,080  
2,915,223  
129: 2,893,604  
2,898,004  
2,912,142  
129.1: 2,878,968  
129.4: 2,880,912  
2,903,163  
2,912,143  
130: 2,909,304  
131: 2,872,078  
2,879,921  
2,887,251  
2,914,218  
133: 2,878,969  
134: 2,873,889  
2,895,644  
2,914,219  
135: 2,898,005  
2,919,054  
136: 2,867,355  
2,873,890  
140: 2,904,220  
142.2: 2,886,212  
142.3: 2,890,816  
142.4: 2,907,497  
2,872,079  
143: 2,899,107  
2,899,108  
144: 2,873,891  
2,875,927  
145: 2,876,933  
2,893,605  
2,914,220  
146: 2,868,416  
2,904,221  
2,914,221  
148: 2,867,356  
2,904,222  
151: 2,899,108  
153: 2,889,081  
2,892,572  
2,915,224  
154: 2,898,006  
158: 2,869,761  
2,873,050  
161: 2,889,082  
162: 2,874,877  
2,885,121  
2,895,645  
2,904,223  
2,914,222  
164: 2,906,436  
168: 2,896,824  
168.5: 2,910,212  
174: 2,893,606  
175: 2,915,222  
176: 2,894,661  
177: 2,874,879  
2,874,880  
2,885,122  
2,904,224  
2,905,437  
2,906,438  
178: 2,872,080  
180: 2,868,417  
2,900,112  
181: 2,878,970  
2,881,955  
2,887,252  
2,895,646  
182: 2,870,943  
183: 2,872,081  
2,878,971  
2,888,173  
2,899,109  
2,904,225  
2,906,439  
185: 2,881,956  
2,889,963  
2,901,148  
187: 2,885,123

189: 2,879,922  
2,886,213  
2,895,647  
2,903,164  
2,904,226  
190: 2,908,422  
191: 2,893,607  
193: 2,878,972  
2,879,923  
2,886,214  
2,889,083  
2,893,608  
194: 2,914,223  
198: 2,905,365  
199: 2,902,189  
2,907,498  
205: 2,892,573  
207: 2,879,924  
2,884,164  
2,904,227  
211: 2,896,825  
212: 2,867,357  
2,878,973  
2,884,165  
2,885,124  
2,888,174  
213: 2,879,925  
2,908,423  
214: 2,880,913  
215: 2,899,110  
2,903,169  
219: 2,903,609  
227: 2,913,148  
229: 2,913,149  
233: 2,881,957  
235: 2,895,648  
238: 2,899,111  
242: 2,894,662  
249: 2,872,082  
250: 2,877,933  
2,881,958  
2,883,088  
2,891,701  
2,908,424  
256: 2,886,215  
262: 2,908,425  
272: 2,907,499  
282: 2,868,216  
2,894,663  
303: 2,898,008  
308: 2,873,892  
310: 2,913,150  
311: Re.24,822  
318: 2,894,664  
2,915,225  
320: 2,878,976  
321: 2,880,914  
2,885,125  
2,889,964  
323: 2,877,934  
2,884,166  
2,889,965  
2,913,151  
325: 2,899,112  
326: 2,873,893  
2,876,936  
2,877,935  
327: 2,872,083  
2,887,253  
330: 2,904,228  
333: 2,872,084  
2,885,126  
334: 2,881,959  
335: 2,913,152  
336: 2,878,995  
339: 2,898,010  
340: 2,915,226  
359: 2,878,975  
365: 2,919,055  
367: 2,901,149  
368: 2,888,175  
2,898,011  
2,917,208  
370: 2,881,960  
2,901,150  
373: 2,868,418  
376: 2,872,085  
378: 2,894,665  
382: 2,869,762  
386.5: 2,902,190  
387: 2,895,650  
388: 2,869,763  
391: 2,889,085  
394: Re.24,599  
2,867,358  
2,868,419  
2,869,764  
2,877,936  
2,883,089

394: 2,883,090  
2,886,217  
2,889,086  
2,890,817  
2,892,574  
2,892,575  
2,892,576  
2,898,012  
2,900,114  
2,904,229  
2,906,440  
2,912,144  
2,914,224  
396: 2,873,051  
2,888,176  
2,899,114  
399: 2,895,651  
410: 2,893,610  
416: 2,900,115  
421: Re.24,695  
2,874,881  
425: 2,902,191  
442: 2,895,652  
445: 2,889,966  
447: 2,903,165  
450: 2,887,254  
452: 2,877,937  
2,895,653  
2,904,230  
453: 2,887,255  
455: Re.24,699  
2,881,961  
2,896,826  
2,898,013  
2,899,115  
456: 2,880,915  
2,901,151  
2,910,213  
463: 2,913,153  
466: 2,909,305  
473: 2,868,421  
2,881,962  
477: 2,900,116  
2,919,056  
478: 2,903,166  
479: 2,891,702  
480: 2,873,894  
2,891,703  
2,903,167  
481: 2,885,127  
2,912,145  
481.5: 2,898,014  
484: 2,898,015  
2,916,189  
2,919,057  
485: 2,867,359  
2,907,501  
490: 2,896,827  
498: 2,878,976  
2,889,087  
2,889,967  
501: 2,898,016  
502: 2,877,938  
2,901,152  
507: 2,885,128  
509: 2,907,944  
512: 2,917,209  
2,917,210  
2,918,200  
513: 2,913,154  
515: 2,908,426  
517: 2,883,091  
2,886,218  
2,916,190  
519: 2,885,129  
2,898,017  
2,915,227  
521: 2,868,422  
2,886,219  
522: 2,873,895  
523: 2,889,088  
2,904,231  
525: 2,901,153  
527: 2,887,256  
528: 2,894,666  
529: 2,876,937  
2,895,654  
2,895,655  
2,898,018  
531: 2,912,146  
536: 2,893,611  
2,893,612  
539: 2,904,232  
540: 2,889,089  
541: 2,867,360  
542: 2,895,656  
543: 2,874,882  
2,891,704  
2,911,128  
545: 2,886,220  
548: 2,873,896  
551: 2,898,019  
553: 2,903,168  
555: 2,889,090  
2,916,191

557: 2,878,977  
2,907,502  
566: 2,893,613  
567: 2,873,897  
570: 2,873,052  
2,909,306  
574: 2,867,361  
2,889,968

**Class 223**

1: 2,905,366  
2,912,147  
2: 2,875,928  
2,879,926  
2,909,307  
2,917,211  
10: 2,914,225  
28: 2,906,441  
34: 2,879,927  
37: 2,894,667  
2,905,367  
2,913,155  
38: 2,880,916  
2,884,167  
2,884,168  
42: 2,868,423  
43: 2,869,765  
2,890,818  
46: 2,872,086  
2,884,169  
2,905,368  
2,909,308  
48: 2,885,130  
49: 2,872,087  
52.1: 2,886,221  
2,907,503  
57: 2,875,929  
63: 2,868,424  
67: 2,889,969  
68: 2,874,883  
2,879,928  
2,880,917  
2,885,131  
2,889,970  
2,894,668  
2,901,154  
2,902,192  
2,913,157  
2,915,228  
69: 2,887,257  
70: 2,881,963  
2,883,092  
2,898,020  
2,915,229  
71: 2,889,971  
73: 2,908,427  
74: 2,869,766  
75: 2,898,021  
2,898,022  
2,898,023  
2,902,193  
2,914,226  
76: 2,874,884  
2,915,230  
77: 2,883,093  
83: 2,870,945  
2,883,094  
2,889,991  
84: 2,915,231  
85: 2,870,946  
2,876,938  
87: 2,910,214  
2,912,148  
88: 2,869,767  
2,873,898  
2,875,930  
2,876,939  
2,877,939  
2,877,940  
2,877,941  
2,881,964  
2,886,222  
2,891,705  
2,903,169  
2,904,233  
2,907,504  
2,908,428  
2,915,232  
2,917,212  
90: 2,875,931  
2,883,095  
91: 2,872,088  
2,875,932  
2,879,929  
2,886,223  
2,886,224  
2,889,092  
2,891,706  
2,898,024  
2,904,234  
2,908,429  
2,913,158

92: 2,895,657  
2,912,149  
2,914,227  
93: 2,872,089  
2,876,940  
2,891,707  
2,899,117  
2,916,193  
94: 2,872,090  
2,881,965  
2,900,117  
2,906,442  
95: 2,868,425  
2,879,930  
2,884,170  
2,902,194  
2,904,235  
2,905,369  
2,907,505  
2,908,430  
2,909,309  
2,914,228  
2,918,201  
96: 2,889,093  
2,889,094  
2,893,614  
2,900,118  
2,908,431  
2,914,229  
98: 2,872,091  
2,873,053  
2,873,054  
2,873,899  
2,876,941  
2,878,978  
2,880,928  
2,884,171  
2,910,215  
2,912,150  
102: 2,872,092  
2,878,979  
2,883,096  
104: 2,873,890  
105: 2,891,708  
107: 2,880,918  
2,887,258  
109: 2,873,901  
111: 2,888,177  
2,894,669  
2,903,170  
114: 2,876,942  
2,883,097  
2,889,972  
120: 2,867,362

**Class 227**  
25: 2,886,227  
27: 2,870,947  
30: 2,873,055  
49: 2,878,981

**Class 228**  
18: 2,895,660  
21: 2,880,920  
23: 2,887,259  
25: 2,873,903  
2,896,830  
26: 2,887,260  
29: 2,880,823  
31: 2,868,426  
2,889,099  
36: 2,875,935  
38: 2,874,887  
40: 2,887,261  
48: 2,873,056  
2,886,228  
2,888,182  
54: 2,896,831  
58: 2,885,132  
60: 2,870,948  
63: 2,885,133  
2,889,824  
2,894,670  
64: 2,888,427  
67: 2,873,904

**Class 224**  
1: 2,873,902  
2,884,172  
2,919,058  
2: 2,867,363  
2,869,768  
2,893,615  
2,903,171  
2,910,216  
2,917,213  
2,917,214  
3: 2,915,233  
4: 2,889,973  
2,891,709  
2,895,658  
5: 2,884,173  
2,889,095  
2,902,195  
2,908,432  
7: 2,904,236  
2,914,230  
15: 2,902,196  
20: 2,889,974  
28: 2,903,172  
31: 2,892,577  
32: 2,890,819  
36: Re.24,656  
2,889,096  
38: 2,880,919  
42.1: 2,888,178  
2,907,506  
2,908,433  
2,914,231  
42.23: 2,913,159  
42.32: 2,905,370  
42.42: 2,874,885  
2,889,097  
2,908,434  
42.44: 2,911,130  
42.45: 2,904,237  
2,918,202  
42.46: 2,884,174  
2,896,828  
45: 2,867,364  
2,875,933  
2,875,934  
2,888,179  
2,907,507

**Class 229**  
1.5: 2,867,365  
2,885,134  
2,886,229  
2,910,219  
2,918,203  
2.5: 2,872,093  
2,873,057  
2,885,135  
2,885,136  
2,888,183  
2,900,119  
2,917,216  
2,918,204  
3.1: 2,887,262  
2,906,443  
3.5: 2,872,094  
2,919,059  
4.5: 2,898,025  
2,907,508  
2,917,217  
5.5: 2,884,175  
2,888,184  
2,903,173  
2,884,176  
5.7: 2,899,118  
2,902,198  
6: 2,875,936  
2,885,137  
7: 2,886,230  
2,889,976  
8: 2,884,177  
14: 2,867,366  
2,867,367  
2,868,428

46: 2,869,769  
2,892,578  
48: 2,886,225  
2,896,829  
50: 2,912,151

**Class 225**

6: 2,890,820  
7: 2,876,943  
12: 2,892,579  
19: 2,889,975  
25: 2,879,931  
2,910,217  
26: 2,910,218  
32: 2,908,435  
39: 2,878,980  
2,888,180  
43: 2,890,821  
48: 2,889,098  
51: 2,888,181  
2,890,822  
52: 2,893,616  
89: 2,879,932  
99: 2,913,160  
100: 2,911,131  
101: 2,911,132  
2,915,234  
105: 2,902,197  
106: 2,874,886  
2,886,226

**Class 227**  
25: 2,886,227  
27: 2,870,947  
30: 2,873,055  
49: 2,878,981

**Class 228**  
18: 2,895,660  
21: 2,880,920  
23: 2,887,259  
25: 2,873,903  
2,896,830  
26: 2,887,260  
29: 2,880,823  
31: 2,868,426  
2,889,099  
36: 2,875,935  
38: 2,874,887  
40: 2,887,261  
48: 2,873,056  
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2,888,182  
54: 2,896,831  
58: 2,885,132  
60: 2,870,948  
63: 2,885,133  
2,889,824  
2,894,670  
64: 2,888,427  
67: 2,873,904

**Class 229**  
1.5: 2,867,365  
2,885,134  
2,886,229  
2,910,219  
2,918,203  
2.5: 2,872,093  
2,873,057  
2,885,135  
2,885,136  
2,888,183  
2,900,119  
2,917,216  
2,918,204  
3.1: 2,887,262  
2,906,443  
3.5: 2,872,094  
2,919,059  
4.5: 2,898,025  
2,907,508  
2,917,217  
5.5: 2,884,175  
2,888,184  
2,903,173  
2,884,176  
5.7: 2,899,118  
2,902,198  
6: 2,875,936  
2,885,137  
7: 2,886,230  
2,889,976  
8: 2,884,177  
14: 2,867,366  
2,867,367  
2,868,428



14: 2, 870, 949 2, 872, 095 2, 877, 942 2, 878, 982 2, 879, 933 2, 885, 138 2, 885, 139 2, 886, 231 2, 893, 617 2, 894, 671 2, 895, 661 2, 896, 832 2, 896, 833 2, 898, 026 2, 898, 027 2, 902, 199 2, 906, 444 2, 906, 445 2, 912, 132 2, 914, 232 15: 2, 900, 120 2, 907, 509 2, 908, 436 2, 910, 220 16: 2, 970, 950 2, 875, 937 2, 891, 710 2, 901, 155 2, 901, 156 2, 902, 200 2, 903, 174 2, 907, 510 2, 912, 153 2, 914, 233 17: 2, 867, 368 2, 875, 938 2, 881, 967 2, 884, 178 2, 886, 232 2, 886, 233 2, 889, 101 2, 889, 777 2, 891, 711 2, 893, 618 2, 899, 119 2, 902, 201 2, 903, 175 2, 907, 511 2, 907, 512 2, 909, 310 2, 911, 135 20: 2, 867, 369 22: 2, 913, 161 23: 2, 874, 889 2, 887, 263 2, 887, 264 2, 899, 120 2, 902, 202 2, 910, 221 2, 915, 235 2, 917, 218 2, 917, 219 2, 917, 220 27: 2, 869, 770 2, 873, 058 2, 875, 939 2, 879, 934 2, 894, 672 2, 899, 121 2, 903, 176 2, 913, 162 28: 2, 867, 370 2, 872, 096 2, 873, 059 2, 880, 921 2, 883, 098 2, 884, 179 2, 887, 265 2, 895, 662 2, 899, 122 2, 900, 121 2, 901, 157 2, 909, 311 29: 2, 888, 185 2, 893, 619 30: 2, 868, 429 2, 875, 940 2, 896, 834 31: 2, 873, 060 2, 880, 922 2, 880, 923 2, 889, 102 2, 902, 203 2, 907, 513 2, 914, 234 33: 2, 916, 194 34: 2, 868, 430 2, 870, 951 2, 874, 890 2, 875, 941 2, 878, 983 2, 889, 978 2, 893, 620 2, 893, 621 2, 893, 622	34: 2, 896, 835 2, 903, 177 2, 903, 178 2, 905, 371 2, 912, 154 2, 914, 235 2, 914, 236 2, 917, 221 35: 2, 875, 942 2, 895, 663 2, 901, 158 36: 2, 894, 673 2, 898, 028 37: 2, 874, 891 2, 876, 944 2, 878, 984 2, 880, 924 2, 896, 836 2, 902, 204 39: 2, 875, 943 2, 885, 140 2, 893, 623 2, 900, 122 2, 901, 159 2, 908, 437 40: 2, 878, 985 2, 899, 123 2, 901, 160 2, 904, 238 41: 2, 877, 943 2, 878, 986 2, 878, 987 2, 881, 968 2, 884, 180 2, 884, 181 2, 898, 029 2, 904, 239 2, 914, 237 2, 917, 222 42: 2, 888, 186 43: 2, 879, 935 2, 881, 969 2, 894, 674 2, 901, 161 44: 2, 867, 371 2, 870, 952 2, 872, 097 2, 881, 970 2, 886, 234 2, 889, 100 2, 891, 712 45: 2, 876, 945 2, 889, 103 2, 900, 123 2, 918, 205 51: 2, 868, 431 2, 868, 432 2, 870, 953 2, 891, 713 2, 891, 714 2, 896, 837 2, 901, 162 2, 904, 243 2, 904, 245 2, 904, 246 2, 903, 180 2, 913, 167 2, 904, 240 2, 909, 312 2, 919, 060 52: 2, 868, 433 2, 868, 434 2, 869, 771 2, 889, 104 2, 891, 715 2, 896, 838 2, 900, 124 2, 908, 438 2, 911, 136 2, 915, 236 2, 916, 195 2, 916, 196 2, 918, 206 53: 2, 880, 925 2, 894, 675 2, 917, 223 55: 2, 869, 772 2, 873, 905 2, 875, 944 2, 892, 580 2, 914, 238 56: 2, 867, 372 2, 816, 197 62: 2, 896, 839 62.5: 2, 870, 954 2, 884, 182 2, 889, 979 2, 891, 716 2, 904, 241 2, 906, 446 66: 2, 868, 435 2, 870, 955 2, 885, 141 2, 888, 187 68: 2, 884, 183 2, 890, 825	72: 2, 872, 098 2, 913, 163 2, 917, 224 73: 2, 867, 373 2, 872, 099 2, 874, 892 2, 877, 944 2, 894, 676 2, 895, 664 2, 907, 514 2, 910, 222 77: 2, 868, 436 78: 2, 889, 105 2, 913, 164 87: 2, 875, 945 2, 913, 165 90: 2, 868, 437 2, 892, 581 92.1: 2, 872, 100 2, 873, 906 2, 873, 907 2, 881, 971 2, 884, 184 92.8: 2, 909, 313 92.9: 2, 878, 988 <b>Class 230</b> 2: 2, 889, 106 2, 891, 717 3: 2, 917, 225 3: 2, 894, 677 10: 2, 914, 239 24: 2, 895, 665 34: 2, 914, 240 38: 2, 902, 205 42: 2, 875, 946 45: 2, 902, 206 47: 2, 888, 188 52: 2, 909, 314 53: 2, 909, 315 55: 2, 872, 101 2, 872, 102 56: 2, 899, 124 2, 899, 125 2, 867, 374 2, 867, 375 2, 902, 207 2, 917, 226 58: 2, 883, 099 2, 894, 678 2, 905, 372 2, 907, 515 2, 913, 166 69: 2, 888, 189 2, 893, 624 2, 894, 679 2, 901, 163 2, 904, 242 2, 904, 243 2, 904, 244 2, 904, 245 2, 904, 246 2, 913, 167 83: 2, 902, 208 95: 2, 892, 582 101: 2, 886, 235 2, 888, 190 2, 894, 680 2, 899, 126 2, 899, 127 2, 903, 181 2, 905, 373 2, 905, 374 2, 919, 061 102: 2, 886, 236 105: 2, 887, 266 108: 2, 911, 137 111: 2, 888, 191 114: 2, 870, 956 2, 874, 893 2, 902, 209 2, 905, 375 2, 914, 241 2, 917, 227 115: 2, 874, 894 2, 914, 242 116: 2, 877, 945 2, 881, 972 2, 906, 447 2, 911, 138 2, 912, 155 2, 916, 198 2, 918, 207 117: 2, 868, 438 2, 875, 947 2, 884, 185 2, 885, 142 2, 888, 192 2, 888, 193 2, 895, 666 2, 898, 030 2, 899, 128 2, 900, 125	117: 2, 915, 237 118: 2, 918, 208 119: 2, 873, 908 2, 889, 107 120: 2, 895, 667 122: 2, 868, 439 2, 870, 957 2, 870, 958 125: 2, 914, 243 127: 2, 876, 946 2, 898, 031 2, 910, 223 130: 2, 868, 440 2, 900, 126 2, 903, 182 132: 2, 879, 936 133: 2, 912, 156 134: 2, 868, 441 2, 869, 773 2, 869, 774 2, 907, 959 2, 875, 948 2, 878, 989 2, 880, 926 2, 884, 186 2, 884, 187 2, 889, 980 2, 891, 719 2, 892, 583 2, 894, 681 2, 895, 668 2, 899, 129 2, 910, 224 2, 912, 157 2, 915, 238 2, 915, 239 2, 915, 240 2, 916, 199 139: 2, 898, 032 140: 2, 919, 062 141: 2, 876, 947 143: 2, 868, 442 2, 873, 909 2, 901, 164 147: 2, 898, 033 2, 898, 034 152: 2, 892, 584 2, 905, 376 153: 2, 877, 946 2, 877, 947 2, 885, 143 162: 2, 888, 194 2, 916, 200 169: 2, 896, 840 172: 2, 878, 990 2, 915, 241 181: 2, 898, 108 182: 2, 899, 130 186: 2, 868, 443 2, 881, 973 2, 913, 168 187: 2, 883, 100 201: 2, 880, 927 202: 2, 893, 625 205: 2, 902, 210 206: 2, 869, 775 2, 898, 072 2, 918, 210 207: 2, 867, 376 2, 883, 101 210: 2, 876, 948 2, 906, 448 212: 2, 873, 061 229: 2, 912, 158 232: 2, 893, 626 239: 2, 918, 209 241: 2, 898, 035 249.5: 2, 909, 316 250: 2, 905, 377 256: 2, 900, 127 259: 2, 867, 377 2, 878, 991 2, 910, 225 2, 912, 159 273: 2, 874, 898 274: 2, 900, 128 <b>Class 231</b> 2: 2, 892, 585 <b>Class 232</b> 4: 2, 903, 183 7: 2, 869, 776 2, 884, 188 16: 2, 869, 777 2, 869, 778 17: 2, 873, 062 2, 902, 211 35: 2, 872, 103 2, 874, 895 2, 874, 896 2, 889, 951 2, 905, 378	43.1: 2, 873, 063 2, 907, 516 43.2: 2, 896, 841 43.5: 2, 885, 144 44: 2, 869, 780 2, 901, 165 2, 914, 244 2, 868, 444 <b>Class 233</b> 1: 2, 899, 131 2, 917, 228 2: 2, 911, 139 2, 911, 140 7: 2, 867, 378 2, 907, 517 10: 2, 873, 064 11: 2, 876, 949 2, 878, 992 2, 917, 229 14: 2, 869, 777 2, 893, 629 2, 905, 379 2, 906, 449 2, 910, 226 2, 917, 230 15: 2, 878, 993 2, 880, 929 17: 2, 874, 897 18: 2, 889, 982 20: 2, 873, 910 2, 883, 102 2, 893, 628 21: 2, 895, 669 2, 898, 037 23: 2, 872, 104 2, 906, 450 2, 913, 169 2, 916, 201 26: 2, 878, 994 2, 885, 145 2, 908, 907 27: 2, 872, 105 2, 875, 949 2, 878, 995 2, 883, 103 2, 887, 267 2, 889, 983 2, 893, 629 2, 905, 380 2, 906, 451 45: 2, 869, 781 2, 881, 974 <b>Class 235</b> 1: 2, 869, 782 3: 2, 869, 783 6: 2, 880, 930 2, 911, 141 22: 2, 883, 104 32: 2, 881, 975 52: 2, 878, 996 58: 2, 912, 160 2, 916, 202 59: 2, 900, 131 60: 2, 868, 445 2, 868, 446 2, 880, 931 2, 883, 105 2, 886, 237 2, 894, 682 2, 896, 842 2, 904, 247 2, 904, 248 2, 905, 381 2, 905, 382 2, 917, 231 2, 918, 211 60.15: 2, 917, 232 60.23: 2, 906, 454 60.28: 2, 918, 212 60.34: 2, 911, 142 60.38: 2, 919, 233 60.5: 2, 907, 317 61: 2, 867, 379 2, 867, 380 2, 867, 381 2, 868, 447 2, 868, 448 2, 868, 449 2, 868, 450 2, 868, 451 2, 869, 784 2, 869, 785 2, 869, 786 2, 869, 788 2, 870, 960 2, 870, 961 2, 879, 963	61: 2, 872, 106 2, 872, 107 2, 872, 108 2, 872, 109 2, 872, 110 2, 872, 111 2, 872, 112 2, 872, 113 2, 872, 114 2, 873, 911 2, 877, 948 2, 877, 949 2, 877, 950 2, 881, 976 2, 888, 195 2, 889, 109 2, 890, 826 2, 892, 586 2, 894, 683 2, 895, 670 2, 896, 843 2, 898, 038 2, 901, 166 2, 901, 167 2, 906, 455 2, 910, 227 2, 911, 143 2, 911, 144 2, 912, 161 2, 916, 203 2, 916, 204 2, 916, 205 2, 916, 206 2, 916, 207 2, 918, 213 2, 918, 214 61.1: 2, 889, 110 2, 890, 827 2, 899, 318 2, 910, 228 61.11: 2, 868, 452 2, 869, 789 2, 869, 790 2, 877, 951 2, 883, 107 2, 885, 146 2, 889, 984 2, 890, 828 2, 900, 130 2, 909, 319 2, 910, 229 2, 915, 243 61.5: 2, 873, 067 2, 873, 068 2, 902, 212 2, 911, 145 2, 916, 208 61.6: 2, 879, 937 2, 883, 106 2, 884, 189 2, 891, 720 2, 899, 132 2, 901, 168 2, 911, 147 2, 913, 170 2, 915, 242 61.7: 2, 873, 912 2, 880, 932 2, 891, 721 2, 900, 132 2, 902, 213 2, 902, 214 2, 913, 171 2, 914, 245 2, 916, 209 61.8: 2, 901, 169 2, 913, 172 61.9: 2, 896, 844 2, 902, 215 62: 2, 915, 244 63: 2, 868, 453 2, 868, 454 2, 872, 115 2, 879, 938 2, 884, 190 2, 886, 238 2, 909, 320 64: 2, 875, 950 64.3: 2, 893, 630 66: 2, 917, 234 73: 2, 889, 985 2, 893, 631 74: 2, 879, 939 78: 2, 888, 196 79: 2, 880, 933 2, 898, 039 2, 910, 230 80: 2, 911, 148 81: 2, 907, 518 82: 2, 881, 977 83: 2, 904, 249 88: 2, 908, 439 91: 2, 904, 250	92: 2, 867, 382 2, 868, 455 2, 874, 899 2, 880, 934 2, 883, 108 2, 888, 197 2, 888, 198 2, 889, 111 2, 891, 722 2, 893, 632 2, 894, 684 2, 901, 170 2, 902, 216 2, 906, 456 2, 907, 519 2, 907, 520 2, 910, 231 2, 918, 215 2, 918, 216 2, 919, 063 2, 919, 064 94: 2, 903, 184 97: 2, 910, 232 98: 2, 878, 997 2, 889, 986 2, 893, 633 2, 908, 440 2, 913, 173 99: 2, 878, 998 2, 907, 521 2, 916, 205 2, 916, 206 103.5: 2, 874, 900 2, 879, 940 125: 2, 907, 522 2, 907, 523 2, 918, 217 131: 2, 896, 847 132: 2, 868, 456 2, 887, 268 2, 889, 987 2, 896, 845 2, 900, 133 2, 904, 251 137: 2, 917, 235 138: 2, 908, 441 144: 2, 869, 791 2, 870, 962 2, 885, 147 2, 914, 247 145: 2, 896, 846 2, 913, 174 146: 2, 915, 245 150: 2, 894, 685 151: 2, 878, 999 2, 893, 634 2, 898, 040 2, 901, 171 2, 907, 524 2, 910, 233 152: 2, 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**Class 235—Con.**

164: 2, 913, 179  
 165: 2, 899, 133  
 166: 2, 892, 588  
 167: 2, 895, 674  
 2, 896, 848  
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 168: 2, 873, 914  
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 169: 2, 890, 830  
 170: 2, 890, 831  
 2, 898, 042  
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 172: 2, 885, 149  
 173: 2, 886, 242  
 2, 892, 589  
 174: 2, 905, 383  
 2, 906, 458  
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 2, 910, 240  
 175: 2, 888, 201  
 176: 2, 881, 979  
 2, 888, 202  
 2, 894, 687  
 2, 904, 252  
 2, 914, 249  
 2, 917, 236  
 178: 2, 898, 043  
 179: 2, 917, 237  
 180: 2, 873, 915  
 2, 888, 203  
 2, 900, 136  
 2, 910, 241  
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 2, 915, 246  
 182: 2, 873, 065  
 2, 899, 134  
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 183: 2, 875, 952  
 2, 883, 109  
 2, 891, 725  
 2, 903, 185  
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 2, 913, 180  
 2, 915, 247  
 2, 919, 065  
 184: 2, 884, 193  
 2, 887, 270  
 2, 889, 988  
 2, 891, 726  
 2, 894, 688  
 2, 903, 186  
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 186: 2, 874, 903  
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 2, 879, 941  
 2, 892, 590  
 189: 2, 883, 110  
 2, 889, 989  
 191: Re. 24,634  
 192: 2, 919, 066  
 193: 2, 891, 727  
 2, 912, 164  
 2, 912, 165  
 194: 2, 880, 935  
 2, 891, 728  
 2, 893, 636  
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 46: 2, 898, 047  
 48: 2, 868, 457  
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 56: 2, 914, 251  
 59: 2, 912, 166  
 62: 2, 909, 321  
 66: 2, 909, 322  
 68: 2, 870, 965  
 2, 886, 246  
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 69: 2, 868, 458  
 80: 2, 909, 323  
 84: 2, 876, 951  
 86: 2, 913, 185  
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 91: 2, 905, 388  
 92: 2, 868, 460  
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 6: 2, 873, 916  
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 10: 2, 873, 917  
 12.3: 2, 895, 678  
 14: 2, 870, 966  
 56: 2, 910, 244  
 58: 2, 912, 167  
 59: 2, 888, 204  
 64: 2, 918, 219  
 66: 2, 901, 176  
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 20: 2, 879, 944  
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 35: 2, 884, 201  
 35: 2, 904, 258  
 57: 2, 896, 853  
 61: 2, 900, 138  
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 67: 2, 901, 179  
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 69: 2, 889, 992  
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 76: 2, 895, 680  
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 129: 2, 896, 855  
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 305: 2, 914, 256  
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 310: 2, 887, 272  
 315: 2, 907, 528  
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 332: 2, 895, 683  
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 337: 2, 887, 273  
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 341: 2, 889, 998  
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 342: 2, 886, 251  
 351: 2, 909, 329  
 354: 2, 886, 252  
 355: 2, 918, 221  
 361: 2, 898, 050  
 371: 2, 887, 274  
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 407: 2, 910, 247  
 408: 2, 904, 262  
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 412: 2, 884, 205  
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 2, 913, 187  
 413: 2, 880, 940  
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 427: 2, 879, 948  
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 431: 2, 889, 999  
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 500: 2, 915, 252  
 521: 2, 896, 865  
 530: 2, 884, 206  
 533: 2, 898, 051  
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 553: 2, 904, 265  
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 559: 2, 895, 688  
 562: 2, 881, 980  
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 2, 892, 077  
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1.3: 2, 913, 569  
 2, 917, 619  
 1.4: 2, 896, 066  
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 2, 881, 306  
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 2, 875, 320  
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 2, 916, 606  
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 2.13: 2, 904, 671  
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 2.17: 2, 908, 806  
 3: 2, 877, 340  
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 4: 2, 875, 321  
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 6.41: 2, 894, 116  
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 6.42: 2, 878, 366  
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 6.46: 2, 885, 537  
 7.1: 2, 875, 322  
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 2, 918, 565  
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 7.35: 2, 888, 551  
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 7.5: 2, 887, 563  
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 7.7: 2, 881, 307  
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 10: 2, 871, 343  
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 41.55: 2, 876, 340  
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 46.15: 2, 904, 672  
 46.35: 2, 906, 864  
 47: 2, 878, 371  
 49: 2, 916, 610  
 51.11: 2, 867, 719  
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 51.12: 2, 878, 372  
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 53: 2, 885, 539  
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 61.13: 2, 901, 595  
 61.4: 2, 898, 450  
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 73: 2, 897, 348  
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 81: 2, 878, 373  
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 90: 2, 895, 039  
 93: 2, 887, 568  
 103: 2, 907, 873  
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 128: 2, 887, 569  
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 138: 2, 895, 040  
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 28: 2, 874, 909  
 32: 2, 867, 385  
 32.5: 2, 877, 955  
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 35: 2, 880, 941  
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 36: 2, 900, 140  
 37: 2, 888, 211  
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 39: 2, 909, 331  
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 43: 2, 894, 696  
 2, 903, 192  
 46: 2, 867, 386  
 2, 875, 955  
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255: 2,888,213	55.12: 2,868,470	75.5: 2,883,122	130: 2,893,659	42: 2,894,703	143: 2,887,286	23: 2,901,196
256: 2,876,958	2,868,471	2,886,257	2,915,260	2,896,880	145: 2,898,061	2,909,343
2,887,277	2,869,799	2,887,280	2,872,127	2,896,881	148: 2,869,809	2,912,195
2,891,733	2,870,975	2,901,192	2,873,930	2,908,454	149: 2,896,885	24: 2,893,665
257: 2,894,698	2,873,073	2,916,227	2,876,962	2,910,254	150: 2,869,810	2,908,456
2,902,227	2,873,926	2,874,916	2,914,271	44: 2,912,190	151: 2,914,273	25: 2,904,287
2,902,228	2,877,958	2,874,917	2,919,079	46: 2,915,261	153: 2,873,077	2,904,288
2,905,938	2,891,736	76: 2,894,702	131: 2,885,158	48: 2,912,191	2,903,207	26: 2,883,132
259: 2,896,867	2,893,653	2,916,228	135: 2,875,963	50: 2,906,474	154: 2,893,663	2,904,289
260: 2,870,970	2,898,055	78.4: 2,918,226	150: 2,881,988	2,911,168		2,905,411
2,902,229	2,900,142	78.5: 2,890,003	2,907,535	2,919,084	<b>Class 245</b>	2,908,457
262: 2,885,157	2,904,275	78.6: 2,915,257	2,912,185	55: 2,896,882	1: 2,910,256	27: 2,867,397
2,907,530	2,907,531	78.7: 2,887,961	151: 2,909,341	59: 2,877,966	6: 2,885,164	2,872,139
264: 2,873,922	2,907,532	79: 2,911,164	152: 2,872,128	63: 2,872,132	10: 2,893,664	2,889,124
275: 2,867,387	2,909,337	82: 2,874,918	153: 2,900,144	2,906,475		2,889,125
2,898,053	2,911,161	2,886,258	156: 2,877,963	2,916,231		2,914,276
2,917,248	2,911,162	2,912,182	156.1: 2,869,802	74: 2,915,262	<b>Class 246</b>	2,915,266
280: 2,873,923	2,912,178	83: 2,868,474	156.2: 2,879,011	76: 2,872,133	2: 2,900,497	27.8: 2,894,705
282: 2,918,224	2,912,179	2,887,281	157: 2,872,129	2,879,958	2,910,578	2,917,256
285: 2,868,464	2,914,264	2,893,654	2,896,879	2,895,692	2,916,612	28: 2,872,140
2,868,465	2,914,265	84.1: 2,884,211	2,919,080	2,912,192	3: 2,891,142	2,876,972
289: 2,891,734	2,917,250	2,890,004	158: 2,904,284	77: 2,867,393	2,903,572	28.9: 2,879,018
295: 2,913,189	2,919,076	84.2: 2,903,201	2,872,130	2,867,394	2,903,573	2,893,666
299: 2,916,219	2,894,700	2,903,202	2,900,145	2,868,481	5: 2,868,962	2,903,210
301: 2,869,795	55.14: 2,914,266	2,911,165	158.4: 2,912,186	2,869,804	2,900,498	2,904,290
	55.2: 2,879,012	2,915,258	2,912,187	2,872,134	2,914,662	2,907,537
<b>Class 242</b>	2,889,121	2,919,077		2,873,076	33: 2,895,042	2,908,458
1: 2,909,335	2,903,199	84.21: 2,879,954	<b>Class 243</b>	2,873,932	34: 2,880,307	2,916,234
1.1: 2,896,868	2,905,404	2,891,738	16: 2,893,660	2,875,964		29: 2,885,166
2,904,269	2,908,449	2,901,193	32: 2,888,218	2,876,967	2,884,516	2,916,235
2,904,270	2,916,223	2,904,281	36: 2,900,146	2,877,967	2,884,517	30: 2,899,154
2: 2,901,190	2,917,249	2,918,227		2,879,015	2,887,570	2,905,412
4: 2,868,466	55.3: 2,872,124	84.3: 2,910,252	<b>Class 244</b>	2,881,990	2,896,068	31: 2,898,064
2,872,123	2,876,960	84.45: 2,896,874	2: 2,883,125	2,881,991	2,903,574	32: 2,877,972
2,891,735	2,896,871	84.5: 2,910,253	3: 2,876,963	2,881,992	38: 2,874,272	35: 2,880,948
2,894,699	2,904,274	2,913,193	2,892,599	2,883,126	41: 2,881,308	2,916,236
2,904,271	2,908,450	84.53: 2,896,875	2,898,058	2,883,127	2,888,553	37: 2,876,973
2,905,399	55.42: 2,872,125	84.54: 2,896,876	6: 2,877,964	2,883,128	2,902,593	37.3: 2,900,151
2,914,260	55.5: 2,892,596	2,893,655	7: 2,881,989	2,884,212	46: 2,895,043	2,901,197
2,916,220	55.51: 2,873,927	2,903,203	2,868,476	2,887,285	63: 2,905,810	2,919,086
2,916,221	55.53: 2,889,122	2,906,471	7: 2,868,476	2,888,219	75: 2,905,811	38: 2,908,459
7: 2,884,210	2,905,405	2,914,269	2,879,013	2,890,844	77: 2,899,544	39: 2,914,277
2,905,400	56: 2,883,121	85: 2,895,691	2,886,260	2,891,742	118: 2,875,325	40: 2,890,847
2,905,401	56.1: 2,915,255	2,902,233	12: 2,868,477	2,892,601	122: 2,916,613	2,893,667
2,914,261	58.2: 2,904,276	85.1: 2,873,929	2,876,964	2,893,662	127: 2,899,545	2,898,065
9: 2,886,255	2,916,224	2,918,228	2,876,965	2,899,151	130: 2,881,309	2,908,460
2,893,651	58.2: 2,898,056	86: 2,869,800	2,879,014	2,902,236	2,887,571	2,917,257
2,899,141	58.3: 2,899,143	2,888,217	2,880,945	2,894,633	2,891,143	2,917,258
2,912,177	58.4: 2,899,144	2,907,534	2,884,633	2,885,159	134: 2,898,452	41: 2,886,267
2,914,262	58.6: 2,899,145	2,867,390	2,885,159	2,899,149	161: 2,880,308	42: 2,869,812
13: 2,873,924	61: 2,896,872	2,896,877	2,907,536	2,899,149	169: 2,880,309	2,884,213
2,883,119	65: 2,872,126	2,912,183	2,912,188	2,881,993	2,896,069	2,886,268
2,895,690	66: 2,881,983	2,913,194	14: 2,868,478	2,885,163	182: 2,891,144	2,887,287
2,916,222	2,877,959	2,914,270	2,869,803	2,900,148	2,915,623	2,888,220
18: 2,870,971	2,881,984	86.51: 2,912,184	2,872,131	2,903,205	219: 2,902,594	2,900,152
2,898,054	2,890,000	86.6: 2,919,078	2,873,074	2,912,193	249: 2,892,078	2,902,237
2,905,402	2,901,191	86.7: 2,905,407	2,879,955	2,899,152	251: 2,902,595	2,905,413
23: 2,889,120	67.1: 2,880,943	94: 2,908,453	2,893,660	2,869,805	2,906,865	2,912,196
25: 2,868,467	2,914,267	2,917,253	2,892,600	2,896,806	318: 2,906,477	2,914,278
2,868,468	67.2: 2,903,195	96: 2,890,005	2,903,204	2,916,232	423: 2,915,263	2,918,237
2,870,972	67.4: 2,896,873	2,906,472	2,911,167	2,868,482	428: 2,886,266	44: 2,867,398
2,883,120	68: 2,873,928	104: 2,879,009	15: 2,867,391	2,869,806	2,894,704	2,876,974
2,888,214	2,877,960	2,903,196	2,877,965	2,896,884	2,898,062	2,879,019
2,893,652	2,909,338	107: 2,904,282	2,891,740	2,903,206	449: 2,914,274	2,883,133
2,896,869	2,916,225	2,915,259	2,912,189	2,918,234	477: 2,918,236	2,891,747
2,899,142	68.2: 2,903,200	107.3: 2,869,801	2,913,196		<b>Class 248</b>	2,893,668
2,902,230	68.3: 2,889,123	2,913,195	2,916,230	103: 2,909,342	1: 2,875,966	2,900,153
2,906,468	2,904,277	107.4: 2,883,123	2,918,229	110: 2,872,136	2,877,969	2,904,291
2,913,190	2,909,339	2,886,259	2,873,075	2,906,476	2,913,197	2,904,292
2,913,191	68.5: 2,915,226	2,899,146	2,891,741	2,869,807	111: 2,869,807	2,905,414
27: 2,867,388	71: 2,868,472	110: 2,891,739	2,919,081	2,874,921	115: 2,874,921	2,908,461
2,905,403	71.3: 2,874,914	110.2: 2,877,962	2,919,956	2,873,933	4: 2,891,743	2,909,344
35.5: 2,869,796	2,879,008	115: 2,909,340	2,905,410	2,886,265	5: 2,891,743	2,913,202
2,888,215	2,902,231	117: 2,892,598	2,870,978	2,908,455	8: 2,913,199	45: 2,869,813
2,915,253	2,906,469	118.3: 2,883,124	2,874,920	2,876,969	9: 2,869,811	2,900,154
36: 2,881,982	71.5: 2,914,268	118.32: 2,875,961	2,879,957	2,891,746	2,880,947	
2,918,225	71.6: 2,912,181	2,879,010	2,886,262	2,877,970	2,891,744	46: 2,881,996
43: 2,869,797	71.8: 2,881,985	2,906,473	2,887,284	2,872,137	2,895,063	2,891,748
2,910,251	72: 2,868,473	118.4: 2,868,475	2,918,230	2,900,150	2,903,208	2,899,155
45: 2,869,798	2,876,961	2,881,986	2,918,231	2,904,286	2,915,261	48: 2,869,814
2,888,216	2,906,470	2,890,842	2,918,232	2,881,994	2,885,165	2,875,968
2,915,254	2,907,533	2,898,057	2,918,233	2,879,959	2,891,745	2,899,156
46.2: 2,887,279	2,908,452	118.5: 2,905,408	31: 2,880,946	2,910,255	2,911,169	2,903,212
46.5: 2,887,278	72.1: 2,890,001	118.6: 2,874,919	2,886,263	2,874,922	2,912,194	48.1: 2,879,961
54: 2,870,973	2,894,701	2,899,147	2,904,285	2,898,059	15: 2,881,995	2,895,694
2,876,959	2,904,278	118.61: 2,881,987	2,919,083	2,876,970	2,891,746	2,896,886
2,879,953	2,904,279	2,902,235	2,919,083	2,883,129	2,903,209	2,911,170
2,896,870	74: 2,890,976	118.62: 2,880,944	36: 2,893,661	135: 2,867,395	16: 2,901,195	49: 2,891,749
2,904,272	2,904,280	118.7: 2,887,282	40: 2,885,160	2,869,808	2,913,200	2,896,887
2,904,273	2,911,163	125: 2,902,234	41: 2,899,150	2,879,017	18: 2,915,265	2,899,159
54.1: 2,873,925	74.1: 2,874,915	128: 2,875,967	42: 2,867,392	2,898,060	19: 2,913,201	2,912,197
55: 2,868,469	2,874,916	2,887,283	2,868,479	2,895,693	2,916,233	2,914,279
2,870,974	74.2: 2,891,737	2,893,657	2,873,931	2,867,396	20: 2,879,960	54: 2,867,399
2,874,913	75.4: 2,890,002	2,905,409	2,876,966	2,917,255	22: 2,868,484	2,873,078
2,877,957	75.42: 2,892,597	2,911,166	2,885,161	2,918,235	2,875,967	2,896,888
2,886,256	75.44: 2,900,143	2,916,229	2,886,264	2,919,085	2,883,130	2,903,213
55.1: 2,890,841	75.47: 2,902,232	129.53: 2,893,658	2,890,843		2,883,131	2,905,415
55.11: 2,867,389	2,917,252	129.8: 2,899,148			2,890,846	2,912,198
2,913,192					2,914,275	2,918,238
2,914,263						



## Class 248—Con.

55: 2,893,669 2,918,239	120: 2,888,222 2,890,849 2,892,603 2,903,217 2,903,218 2,904,297 2,906,480 2,906,481 2,905,416 2,919,088 2,868,485 2,883,670 2,905,417 2,891,751 2,899,160 2,872,141 2,879,963 2,885,167 2,914,280 65: 2,911,171 67.5: 2,915,267 67.7: 2,913,203 2,916,237 68: 2,868,486 2,874,923 2,917,259 70: 2,880,949 2,881,938 2,886,269 71: 2,885,168 2,885,169 2,891,752 2,896,889 2,900,155 2,903,214 2,913,204 2,918,240 2,919,089 72: 2,875,969 2,901,199 2,904,293 73: 2,893,671 74: 2,884,214 2,886,270 2,890,848 2,901,200 2,904,294 2,912,199 2,915,268 75: 2,879,020 80: 2,872,142 81: 2,872,143 87: 2,894,706 88: 2,887,288 90: 2,876,976 94: 2,905,418 95: 2,906,478 2,908,462 2,908,463 96: 2,902,238 97: 2,904,295 2,907,538 98: 2,914,281 99: 2,894,708 2,900,156 2,903,215 2,917,260 101: 2,875,970 2,890,006 2,899,161 2,903,216 2,910,257 2,910,258 102: 2,880,950 2,893,672 103: 2,912,200 104: 2,907,539 105: 2,890,007 106: 2,881,999 2,909,345 2,909,346 108: 2,882,000 2,906,479 110: 2,905,419 113: 2,907,540 2,909,347 2,911,172 2,911,173 117.1: 2,879,021 117.7: 2,904,296 2,912,201 2,915,269 118: 2,910,259 119: 2,886,271 2,895,695 2,900,157 2,901,201 2,916,238 120: 2,868,487 2,870,980 2,870,981 2,873,934 2,873,935 2,888,221	205: 2,896,892 2,906,484 206: 2,875,973 2,886,277 2,890,852 2,908,467 2,915,271 208: 2,880,952 2,891,754 2,895,699 2,896,893 2,902,241 210: 2,870,983 2,880,953 2,883,134 2,895,700 2,912,204 2,912,205 211: 2,873,937 2,884,216 2,896,894 2,907,541 214: 2,888,224 2,918,244 215: 2,892,605 216: 2,892,606 2,911,175 2,914,284 2,917,263 220.5: 2,891,755 2,915,272 221: 2,879,964 2,903,223 2,907,542 2,907,543 222: 2,891,756 2,911,176 223: 2,868,489 2,872,144 2,872,145 2,893,675 2,913,210 224: 2,891,757 2,919,096 225: 2,876,971 2,893,676 226: 2,867,401 2,867,402 2,879,023 2,882,003 2,884,217 2,885,170 2,896,895 2,898,069 2,898,070 2,901,203 2,905,423 2,908,468 2,914,285 2,916,243 2,919,097 228: 2,868,490 2,877,974 2,890,011 2,893,677 2,916,244 229: 2,876,984 2,872,146 2,875,974 2,896,896 2,900,159 2,907,546 2,907,545 2,912,206 2,913,211 2,915,273 230: 2,883,135 2,883,136 2,907,544 2,908,469 2,910,261 231: 2,908,470 237: 2,888,225 238: 2,880,954 2,906,485 2,912,207 239: 2,896,897 2,909,352 240: 2,905,424 242: 2,890,012 2,898,071 2,906,486 2,916,245 243: 2,883,137 2,905,425 2,909,353 244: 2,902,242 245: 2,876,978 2,896,898 2,901,205 246: 2,901,206 247: 2,887,291 2,908,471 248: 2,906,487	251: 2,888,226 2,896,899 262: 2,873,081 2,896,900 2,896,902 2,913,212 263: 2,880,955 2,895,701 2,899,166 2,902,243 2,912,208 2,918,245 264: 2,905,426 2,916,246 265: 2,894,710 2,913,213 2,914,286 266: 2,912,209 269: 2,879,965 273: 2,880,956 2,890,853 2,916,247 274: 2,886,278 2,903,224 276: 2,911,177 278: 2,896,901 279: 2,888,227 284: 2,882,004 287: 2,916,248 289: 2,883,138 291: 2,884,218 2,911,178 293: 2,895,702 2,901,207 2,904,299 300: 2,873,082 302: 2,877,971 304: 2,910,262 305: 2,884,219 309: 2,884,220 2,902,244 310: 2,867,403 311: 2,879,966 2,883,139 2,893,678 2,903,225 313: 2,877,976 316: 2,877,975 2,879,967 2,888,228 2,909,354 317: 2,898,073 2,902,245 2,909,355 2,915,274 318: 2,879,968 323: 2,894,707 324: 2,867,404 2,870,985 2,889,128 2,919,098 327: 2,915,275 2,916,249 339: 2,906,488 2,911,179 340: 2,904,300 341: 2,900,160 343: 2,882,005 2,898,074 2,898,075 2,898,076 2,907,545 2,907,546 2,913,214 2,914,287 345: 2,916,250 346: 2,888,229 2,895,703 2,901,208 2,905,427 2,906,489 2,908,472 2,911,180 2,912,210 349: 2,873,938 351: 2,872,147 2,873,939 2,893,679 2,904,301 354: 2,888,230 2,895,704 2,903,226 2,906,490 2,912,211 356: 2,888,231 2,890,854 2,903,227 357: 2,891,758 2,891,759 2,911,181 358: 2,867,405 2,873,940 2,876,979 2,888,232	358: 2,894,711 2,900,161 2,900,162 2,903,228 2,904,302 2,910,263 2,912,212 2,913,215 2,917,264 2,917,265 359: 2,876,980 2,903,229 2,908,473 361: 2,867,406 2,879,969 2,884,221 2,889,129 2,895,705 2,899,167 2,902,246 2,902,247 2,904,303 2,905,474 2,909,356 2,912,213 2,913,216 2,914,288 2,915,276 2,917,266 2,917,267 362: 2,910,264 363: 2,895,706 2,905,428 2,910,265 2,914,289	14: 2,895,044 2,902,597 2,910,580 15: Re.24,590 2,868,965 2,871,344 2,874,273 2,875,328 2,876,341 2,880,310 2,892,930 2,907,874 2,916,614 2,916,615 16: 2,878,375 2,899,549 17: 2,874,274 2,883,524 2,894,123 2,896,073 2,901,598 2,901,599 2,905,813 2,907,875 2,912,570 2,914,665 2,915,624 20: 2,868,968 2,868,967 2,871,345 2,871,346 2,872,568 2,872,569 2,873,359 2,873,360 2,873,361 2,874,275 2,874,276 2,874,277 2,874,278 2,875,329 2,875,330 2,876,342 2,876,343 2,914,291 17: 2,889,130 2,889,131 32: 2,919,100 38: 2,918,247 43: 2,904,304 58: 2,903,230 59: 2,908,475 60: 2,879,970 2,880,957 63: 2,883,140 2,887,292 2,898,077 2,903,231	14: 2,895,044 2,902,597 2,910,580 15: Re.24,590 2,868,965 2,871,344 2,874,273 2,875,328 2,876,341 2,880,310 2,892,930 2,907,874 2,916,614 2,916,615 16: 2,878,375 2,899,549 17: 2,874,274 2,883,524 2,894,123 2,896,073 2,901,598 2,901,599 2,905,813 2,907,875 2,912,570 2,914,665 2,915,624 20: 2,868,968 2,868,967 2,871,345 2,871,346 2,872,568 2,872,569 2,873,359 2,873,360 2,874,275 2,874,276 2,874,277 2,874,278 2,875,329 2,875,330 2,876,342 2,876,343 2,914,291 17: 2,889,130 2,889,131 32: 2,919,100 38: 2,918,247 43: 2,904,304 58: 2,903,230 59: 2,908,475 60: 2,879,970 2,880,957 63: 2,883,140 2,887,292 2,898,077 2,903,231	2: 2,914,290 2,868,491 2,918,246 15: 2,901,209 2,919,099 16: 2,890,013 2,914,291 17: 2,889,130 2,889,131 32: 2,919,100 38: 2,918,247 43: 2,904,304 58: 2,903,230 59: 2,908,475 60: 2,879,970 2,880,957 63: 2,883,140 2,887,292 2,898,077 2,903,231	1: 2,898,453 2: 2,870,325 2,879,382 2,882,390 2,896,070 2,910,579 2,917,622 6: 2,867,720 2,868,963 2,870,326 2,875,326 2,875,327 2,877,343 2,877,344 2,883,521 2,883,522 2,883,523 2,885,540 2,894,120 2,896,071 2,896,072 2,899,546 2,899,547 2,904,674 2,906,866 2,914,664 2,917,623 2,918,571 8: 2,888,554 2,899,548 2,905,812 13: 2,868,964 2,877,344 2,885,541 2,885,542 2,885,543 2,887,572 2,889,452 2,890,328 2,901,597 2,902,596 2,912,569 2,918,572	20: 2,905,816 2,906,867 2,906,868 2,907,876 2,908,812 2,908,813 2,908,814 2,909,654 2,912,571 2,912,572 2,912,573 2,912,574 2,913,577 2,914,666 2,915,625 2,915,626 2,915,627 2,916,616 2,916,617 2,901,598 2,918,373 27: 2,867,721 2,867,722 2,912,570 2,914,665 2,915,624 2,868,968 2,868,969 2,868,970 2,868,971 2,868,972 2,870,327 2,870,328 2,870,329 2,871,347 2,871,348 2,871,350 2,871,351 2,871,352 2,872,570 2,872,571 2,872,572 2,872,573 2,872,574 2,872,575 2,872,576 2,872,577 2,873,362 2,873,363 2,873,364 2,873,365 2,873,366 2,874,279 2,874,280 2,874,281 2,874,282 2,874,283 2,874,284 2,874,285 2,874,286 2,874,287 2,875,331 2,875,332 2,875,333 2,875,334 2,875,335 2,875,336 2,876,346 2,876,347 2,876,348 2,876,349 2,876,350 2,876,351 2,876,352 2,876,353 2,877,346 2,877,347 2,877,348 2,878,370 2,878,371 2,878,382 2,878,383 2,879,384 2,879,385 2,879,386 2,880,314 2,880,315 2,880,316 2,880,317 2,880,318 2,880,319 2,880,320 2,881,311 2,881,312 2,881,313 2,881,314 2,882,396 2,882,397 2,882,398 2,882,399 2,882,400 2,883,525 2,883,526 2,883,527 2,883,528
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27: 2,883,529	27: 2,900,502	31: 2,897,364	40: 2,876,356	43.5: 2,908,820	71: 2,881,324	83.6: 2,886,714
2,883,530	2,900,503	2,898,462	2,877,351	2,910,587	2,883,547	2,888,571
2,883,531	2,900,504	2,900,506	2,881,322	2,917,629	2,883,548	2,894,142
2,883,532	2,900,505	2,900,507	2,886,709	2,918,578	2,883,549	2,895,052
2,883,533	2,901,602	2,900,508	2,894,134	2,918,579	2,884,529	2,897,372
2,883,534	2,901,603	2,901,612	2,898,463	44: 2,892,086	2,885,558	2,898,472
2,883,535	2,901,614	2,901,613	2,898,464	2,910,588	2,885,559	2,903,594
2,883,536	2,901,605	2,915,636	2,898,465	45: 2,906,878	2,885,560	2,904,691
2,884,521	2,901,606	2,867,725	2,901,614	48: 2,917,630	2,886,712	2,905,826
2,884,522	2,901,607	2,867,726	2,901,615	49.5: 2,868,988	2,888,568	2,909,663
2,884,523	2,901,608	2,868,973	2,906,875	2,868,989	2,888,569	2,911,536
2,885,547	2,901,609	2,868,974	2,911,529	2,873,378	2,888,570	2,913,581
2,885,548	2,901,610	2,868,975	2,911,530	2,875,341	2,892,091	2,914,677
2,885,549	2,901,611	2,868,976	2,915,637	2,876,358	2,895,050	2,916,626
2,885,550	2,902,600	2,868,977	2,916,619	2,877,353	2,897,368	2,917,632
2,885,551	2,902,601	2,868,978	41.9: 2,868,986	2,879,394	2,899,560	2,917,633
2,885,552	2,903,578	2,868,979	2,871,361	2,879,395	2,902,603	2,919,351
2,885,553	2,903,579	2,868,980	2,871,362	2,879,396	2,902,604	84: 2,890,348
2,886,701	2,903,580	2,868,981	2,871,363	2,880,324	2,903,590	2,908,823
2,886,702	2,903,581	2,870,330	2,871,364	2,882,412	2,907,881	84.5: 2,868,990
2,886,703	2,903,582	2,870,331	2,873,375	2,883,543	2,910,591	2,868,991
2,886,704	2,903,583	2,870,332	2,873,376	2,883,544	2,911,534	2,870,339
2,887,575	2,903,584	2,871,354	2,874,295	2,885,556	2,911,535	2,883,553
2,887,576	2,903,585	2,871,355	2,874,296	2,887,583	71.5: 2,880,326	2,898,473
2,887,577	2,904,679	2,871,356	2,875,339	2,887,584	2,900,516	2,907,884
2,887,578	2,904,680	2,871,357	2,878,387	2,890,342	2,910,592	85: 2,876,361
2,888,556	2,904,681	2,872,578	2,880,323	2,890,343	77: 2,885,561	86: 2,901,631
2,888,557	2,904,682	2,872,579	2,882,405	2,892,087	2,910,593	90: 2,873,379
2,888,558	2,904,683	2,872,580	2,882,406	2,892,946	78: 2,874,302	2,909,664
2,888,559	2,904,684	2,872,581	2,882,407	2,894,138	2,896,085	2,912,590
2,888,560	2,904,685	2,872,582	2,882,408	2,894,139	79: 2,883,550	91: 2,876,362
2,889,454	2,905,817	2,873,368	2,882,409	2,897,365	80: 2,878,394	2,890,349
2,889,455	2,905,818	2,873,369	2,882,410	2,897,366	2,882,413	2,892,947
2,889,456	2,905,819	2,873,370	2,882,411	2,898,467	2,904,689	92: 2,909,665
2,889,457	2,906,869	2,873,371	2,883,541	2,898,468	2,907,882	93: 2,905,827
2,890,025	2,906,870	2,873,372	2,884,527	2,899,556	2,912,589	2,916,627
2,890,329	2,906,871	2,874,288	2,886,710	2,901,627	83: 2,874,303	95: 2,875,344
2,890,330	2,906,872	2,874,289	2,887,582	2,901,628	2,882,414	2,880,327
2,890,331	2,906,873	2,874,290	2,888,563	2,906,879	2,882,415	2,883,554
2,890,332	2,906,874	2,874,291	2,888,564	2,910,589	2,884,530	2,901,632
2,890,333	2,907,877	2,874,292	2,888,565	2,910,590	2,900,517	2,909,666
2,890,334	2,907,878	2,874,293	2,888,566	2,911,533	2,900,518	98: 2,879,404
2,890,335	2,907,879	2,875,337	2,889,461	2,912,586	2,902,605	2,899,562
2,891,148	2,907,880	2,876,354	2,889,462	2,914,675	2,905,825	99: 2,878,393
2,891,149	2,908,815	2,876,355	2,890,336	2,916,620	2,906,882	103: 2,870,340
2,891,150	2,909,656	2,877,349	2,890,337	2,916,621	2,916,625	2,913,582
2,891,151	2,909,657	2,877,350	2,890,338	2,918,580	2,917,631	104: 2,894,143
2,891,152	2,909,658	2,878,385	2,890,339	52: 2,885,557	83.1: 2,867,727	105: 2,871,367
2,891,153	2,909,659	2,878,386	2,890,340	2,890,140	83.3: 2,867,728	2,881,329
2,891,154	2,910,581	2,879,387	2,890,341	2,900,512	2,870,333	2,883,555
2,891,155	2,910,582	2,879,388	2,891,161	2,909,660	2,875,348	2,888,572
2,892,080	2,910,583	2,879,389	2,891,162	53: 2,870,336	2,879,399	2,891,167
2,892,081	2,910,584	2,879,390	2,891,163	2,870,337	2,879,400	2,894,144
2,892,082	2,910,585	2,879,391	2,894,135	2,887,585	2,879,401	2,904,692
2,892,083	2,910,586	2,879,392	2,894,136	2,890,344	2,881,325	2,911,537
2,892,084	2,911,526	2,880,321	2,894,137	2,897,367	2,881,326	106: 2,870,341
2,892,933	2,911,527	2,880,322	2,896,083	2,898,469	2,881,327	2,872,586
2,892,934	2,911,528	2,881,315	2,900,509	2,898,470	2,882,416	2,872,587
2,892,935	2,912,575	2,881,316	2,901,616	2,900,513	2,884,531	2,875,345
2,892,936	2,912,576	2,881,317	2,901,617	2,901,629	2,884,532	2,875,346
2,892,937	2,912,577	2,881,318	2,901,618	2,908,821	2,884,533	2,876,363
2,892,938	2,912,578	2,881,319	2,901,619	2,912,587	2,885,562	2,889,464
2,892,939	2,912,579	2,881,320	2,901,620	54: 2,898,471	2,889,465	2,891,168
2,892,940	2,912,580	2,881,321	2,901,621	55: 2,872,584	2,890,347	2,904,693
2,892,941	2,912,581	2,882,401	2,901,622	58: 2,891,166	2,891,166	2,912,591
2,892,942	2,912,582	2,882,402	2,901,623	2,888,567	2,895,051	2,915,639
2,892,943	2,912,583	2,882,403	2,901,624	2,892,088	2,895,051	2,916,628
2,894,127	2,912,584	2,882,404	2,903,586	2,906,880	2,897,369	2,917,634
2,894,128	2,912,585	2,883,537	2,903,587	59: 2,887,586	2,897,371	108: 2,868,992
2,894,129	2,913,577	2,883,538	2,905,821	60: 2,884,528	2,899,561	2,874,307
2,894,130	2,913,579	2,883,539	2,906,876	64: 2,903,588	2,900,519	2,875,347
2,894,131	2,913,580	2,883,540	2,906,877	65: 2,874,299	2,901,630	2,899,563
2,894,132	2,914,667	2,884,524	2,908,816	2,874,300	2,903,591	2,915,640
2,894,133	2,914,668	2,884,525	2,911,531	2,879,397	2,903,592	200: 2,884,540
2,895,046	2,914,669	2,884,526	2,911,532	2,886,711	2,904,690	201: 2,897,373
2,895,047	2,914,670	2,885,554	2,917,628	2,890,345	2,907,883	2,916,629
2,895,048	2,914,671	2,886,706	2,919,348	2,891,165	2,908,822	202: 2,868,993
2,896,076	2,914,672	2,886,707	43: 2,868,987	2,895,049	2,909,661	2,892,948
2,896,077	2,914,673	2,886,708	2,870,335	2,899,557	2,909,662	2,895,053
2,896,078	2,914,674	2,887,579	43.5: 2,872,583	2,899,558	2,914,676	2,877,354
2,896,079	2,915,628	2,887,580	2,873,377	2,900,514	2,915,638	2,905,828
2,896,080	2,915,629	2,887,581	2,874,297	2,900,515	2,918,581	2,906,883
2,896,081	2,915,630	2,888,561	2,874,298	2,902,602	2,919,530	2,913,583
2,896,082	2,915,631	2,888,562	2,875,340	2,903,589	83.6: 2,871,365	204: 2,911,538
2,897,355	2,915,632	2,889,459	2,876,357	2,906,881	2,871,366	205: 2,885,563
2,897,356	2,915,633	2,889,460	2,877,352	2,916,622	2,874,304	2,904,694
2,897,357	2,915,634	2,891,157	2,878,388	2,916,623	2,874,305	2,913,584
2,897,358	2,915,635	2,891,158	2,879,393	2,919,349	2,874,306	206: 2,875,348
2,897,359	2,917,624	2,891,159	2,883,542	66: 2,872,585	2,876,360	2,892,092
2,897,360	2,917,625	2,891,160	2,885,555	2,880,325	2,878,390	2,900,520
2,897,361	2,917,626	2,892,085	2,891,164	2,881,323	2,878,391	2,904,695
2,897,363	2,918,574	2,897,627	44: 2,896,084	2,883,545	2,879,402	207: 2,867,729
2,898,456	2,918,575	2,898,466	2,898,466	2,883,546	2,879,403	2,868,994
2,898,457	2,918,576	2,898,467	2,899,555	2,890,346	2,881,328	2,903,595
2,898,458	2,918,577	2,898,468	2,900,510	2,892,089	2,882,417	2,913,585
2,898,459	2,919,345	2,898,469	2,900,511	2,892,090	2,882,418	208: 2,900,521
2,898,460	2,919,346	2,898,470	2,901,625	2,912,588	2,883,551	2,900,522
2,898,461	2,919,347	2,898,471	2,901,626	68: 2,878,389	2,883,552	209: 2,892,093
2,899,550	2,871,353	2,871,358	2,904,686	2,894,141	2,884,534	210: 2,868,995
2,899,551	2,872,577	2,871,359	2,904,687	2,904,688	2,884,535	2,872,588
2,899,552	2,873,367	2,871,360	2,905,822	2,905,824	2,884,536	2,894,145
2,899,553	2,878,384	2,873,373	2,905,823	70: 2,899,559	2,884,537	211: 2,877,355
2,899,554	2,886,705	2,873,374	2,908,817	71: 2,874,301	2,884,538	2,879,405
2,900,500	2,889,458	2,874,294	2,908,818	2,878,392	2,884,539	2,892,094
2,900,501	2,891,156	2,875,338	2,908,819	2,879,398	2,886,713	



## Class 250—Con.

211: 2,896,086  
2,898,474  
2,900,523  
2,911,539  
2,912,592  
212: 2,907,885  
213: 2,870,342  
2,871,368  
2,873,380  
2,874,308  
2,875,349  
2,875,350  
2,879,406  
2,882,419  
2,883,556  
2,884,541  
2,885,564  
2,890,350  
2,891,169  
2,892,095  
2,892,096  
2,895,054  
2,896,087  
2,896,088  
2,898,475  
2,903,596  
2,904,696  
2,904,697  
2,905,829  
2,905,830  
2,906,884  
2,907,886  
2,908,824  
2,909,667  
2,909,668  
2,914,678  
2,914,679  
2,915,641  
2,916,630  
2,918,582  
2,919,352  
214: 2,871,369  
2,877,356  
2,892,499  
2,900,524  
2,901,633  
2,904,698  
2,904,699  
2,907,887  
2,908,825  
2,909,669  
2,912,593  
2,915,642  
2,916,631  
2,918,583  
215: 2,896,089  
216: 2,884,542  
217: 2,872,589  
2,887,587  
2,889,465  
2,892,950  
2,903,597  
2,903,598  
2,907,888  
2,907,889  
2,911,540  
2,915,643  
218: 2,876,364  
2,886,715  
2,888,573  
2,895,055  
219: 2,872,590  
2,878,395  
2,883,557  
2,883,558  
2,883,559  
2,884,543  
2,886,716  
2,897,370  
2,916,624  
2,916,632  
220: 2,870,343  
2,871,370  
2,886,717  
2,886,718  
2,892,951  
222: 2,879,407  
2,906,885  
2,907,890  
223: 2,880,328  
2,916,633  
225: 2,904,700  
2,913,586  
226: 2,871,371  
230: 2,882,420  
231: 2,885,565  
2,894,146  
233: 2,875,342  
2,878,396  
2,892,097  
234: 2,894,147  
235: 2,899,564

## Class 251

1: 2,877,977  
2,883,141  
2,912,214  
3: 2,872,148  
2,880,958  
2,886,279  
2,903,232  
2,903,233  
2,909,357  
2,911,182  
2,914,292  
5: 2,890,855  
2,898,078  
2,899,816  
8: 2,902,248  
2,908,476  
13: 2,885,171  
2,886,280  
2,894,712  
2,912,215  
14: 2,885,172  
2,890,014  
2,905,429  
2,908,477  
21: 2,894,713  
2,918,248  
25: 2,872,149  
2,910,266  
2,919,101  
26: 2,882,006  
30: 2,888,233  
2,888,234  
2,893,680  
2,894,714  
2,898,079  
2,900,163  
31: 2,918,249  
33: 2,889,132  
35: 2,880,959  
2,917,268  
2,918,250  
36: 2,903,234  
2,914,293  
40: 2,872,150  
2,916,251  
41: 2,876,981  
44: 2,879,024  
2,891,760  
45: 2,870,986  
46: 2,868,492  
2,877,978  
2,895,707  
2,913,217  
49: 2,868,493  
51: 2,883,142  
54: 2,905,430  
2,907,547  
57: 2,883,143  
2,886,281  
58: 2,872,151  
2,874,924  
2,883,144  
2,894,715  
2,908,478  
61: 2,874,925  
2,874,926  
2,879,971  
2,882,007  
2,882,008  
2,883,145  
2,885,173  
2,892,608  
2,905,431  
2,919,102  
62: 2,891,761  
2,899,168  
2,917,269  
63: 2,896,903  
2,905,432  
64: 2,868,494  
73: 2,884,222  
75: 2,872,152  
76: 2,869,815  
2,885,174  
77: 2,895,708  
82: 2,898,080  
85: 2,902,249  
2,907,548  
86: 2,868,495  
2,875,975  
88: 2,876,982  
2,879,025  
2,887,293  
2,888,235  
2,888,236

96: 2,917,270  
98: 2,872,153  
100: 2,874,927  
2,912,216  
107: 2,899,169  
118: 2,915,277  
120: 2,874,928  
2,888,237  
2,902,250  
121: 2,873,083  
122: 2,899,170  
2,915,278  
2,917,271  
129: 2,874,929  
2,887,294  
2,902,251  
2,916,252  
130: 2,890,015  
133: 2,869,817  
2,872,154  
134: Re.24,663  
137: 2,869,818  
2,890,016  
2,901,210  
2,911,183  
138: 2,899,171  
2,900,164  
145: 2,901,211  
2,918,251  
147: 2,868,496  
2,896,904  
148: 2,873,941  
2,894,716  
149: 2,880,960  
151: 2,873,942  
159: 2,883,146  
161: 2,893,681  
2,916,253  
162: 2,885,175  
163: 2,892,609  
164: 2,889,133  
165: 2,872,155  
167: 2,895,709  
2,906,491  
168: 2,902,252  
172: 2,868,497  
2,868,498  
2,882,009  
2,883,147  
2,885,176  
2,886,282  
2,889,134  
2,900,165  
2,914,294  
2,916,254  
173: 2,913,218  
2,911,184  
2,873,251  
2,876,197  
174: 2,877,979  
2,890,017  
2,890,856  
175: 2,873,943  
2,876,984  
2,886,283  
2,892,610  
2,900,166  
2,904,305  
2,911,185  
180: 2,893,683  
187: 2,885,177  
191: 2,911,186  
192: 2,876,985  
199: 2,869,819  
200: 2,876,986  
205: 2,883,148  
209: 2,902,253  
2,917,272  
211: 2,874,930  
214: 2,876,987  
2,912,217  
216: 2,914,295  
218: 2,874,931  
229: 2,892,611  
239: 2,873,084  
248: 2,917,273  
251: 2,905,433  
261: 2,873,085  
263: 2,894,717  
274: 2,884,223  
282: 2,873,086  
288: 2,913,219  
289: 2,892,612  
291: 2,879,026  
292: 2,879,027  
303: 2,885,178  
305: 2,902,254  
306: 2,882,010  
2,883,149  
2,884,224  
2,912,218  
309: 2,898,081  
312: 2,895,710  
314: 2,868,499

315: 2,885,179  
2,912,219  
316: 2,911,187  
320: 2,908,479  
321: 2,875,976  
2,900,167  
325: 2,906,492  
326: Re.24,735  
327: 2,870,987  
2,891,762  
2,911,188  
328: 2,893,684  
2,908,480  
2,913,220  
331: 2,875,977  
2,880,961  
2,885,180  
2,892,613  
2,916,255  
332: 2,903,235  
2,910,267  
333: 3,875,978  
2,876,988  
2,891,763  
2,898,082  
2,901,212  
334: 2,893,685  
340: 2,883,150  
346: 2,906,493  
347: 2,892,614  
352: 2,901,213  
357: 2,893,686  
2,893,687  
2,894,718  
358: 2,886,284  
2,888,238  
359: 2,887,295  
366: 2,896,905  
2,903,236  
367: 2,904,306

## Class 252

1: 2,893,958  
2: 2,880,172  
3: 2,895,910  
2,902,446  
5: 2,901,427  
7: 2,881,138  
2,901,428  
8: 2,897,151  
8.5: 2,867,584  
2,868,725  
2,868,726  
2,871,188  
2,871,189  
2,873,251  
2,876,197  
2,885,358  
2,890,169  
2,894,906  
2,895,911  
2,900,335  
2,900,336  
2,900,337  
2,901,429  
2,911,365  
2,911,366  
2,912,380  
8.55: 2,868,727  
2,873,252  
2,873,253  
2,874,119  
2,877,179  
2,877,180  
2,882,226  
2,882,227  
2,885,359  
2,888,399  
2,888,400  
2,888,401  
2,889,276  
2,889,277  
2,889,278  
2,891,009  
2,891,909  
2,894,907  
2,894,908  
2,898,294  
2,901,430  
2,902,447  
2,906,708  
2,908,641  
2,908,642  
2,908,643  
2,910,436  
2,913,408  
2,914,475  
2,914,476  
8.7: 2,913,407  
8.75: 2,918,428  
8.8: 2,877,178  
13: 2,900,338

15: 2,878,184  
18: 2,889,279  
2,895,913  
21: 2,879,229  
2,890,170  
22: 2,870,089  
2,903,426  
28: 2,875,152  
2,885,360  
2,886,524  
2,890,171  
2,891,010  
2,892,776  
2,898,295  
2,913,409  
2,917,457  
32: 2,886,525  
2,892,777  
2,898,296  
2,910,437  
2,917,458  
32.5: 2,871,190  
2,874,120  
2,882,228  
2,915,464  
32.7: 2,882,229  
2,883,339  
2,885,361  
2,885,362  
2,893,959  
2,899,388  
2,905,639  
2,906,709  
2,907,713  
2,911,367  
2,916,447  
2,916,448  
2,916,449  
33: 2,880,173  
2,883,340  
2,902,448  
2,902,449  
33.2: 2,872,416  
2,889,280  
2,908,644  
33.3: 2,890,172  
2,907,714  
2,913,410  
2,913,411  
2,916,450  
33.4: 2,878,185  
2,900,339  
2,902,449  
2,914,477  
2,915,465  
2,915,466  
2,916,451  
2,918,429  
2,918,430  
33.6: 2,868,728  
2,882,230  
2,892,778  
2,902,450  
34: 2,911,368  
34.7: 2,894,909  
35: 2,892,780  
2,899,389  
36: Re.24,681  
2,883,341  
2,888,402  
2,898,297  
37: 2,895,914  
37.2: 2,901,431  
37.5: 2,882,231  
37.7: 2,880,174  
39: 2,868,729  
2,874,121  
2,909,485  
2,915,467  
40: 2,886,526  
2,900,340  
2,908,645  
2,911,369  
2,915,468  
2,915,469  
2,918,431  
40.5: 2,871,191  
2,877,181  
2,892,781  
41: 2,870,090  
2,876,198  
2,898,298  
2,916,452  
2,916,453  
42: 2,878,186  
2,878,187  
2,878,188  
42.1: 2,874,122  
2,883,342  
2,903,427  
2,908,646  
42.7: 2,880,175  
2,891,910  
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277:	2, 899, 180	140:	2, 896, 926	2, 898, 313	2, 907, 736		2, 884, 395		2, 878, 223		
286:	2, 912, 231	144:	2, 906, 510	2, 898, 314	2, 907, 737		2, 888, 420		2, 878, 224		
288:	2, 915, 299	147:	2, 915, 301	2, 867, 590	2, 909, 495		2, 867, 597		2, 878, 225		
295:	2, 913, 229	151:	2, 880, 976	2, 872, 425	2, 909, 496		2, 868, 752		2, 878, 226		
300:	2, 901, 226	154:	2, 873, 955	2, 873, 260	2, 912, 396		2, 868, 753		2, 878, 227		
306:	2, 904, 317	158:	2, 867, 421	2, 879, 236	2, 915, 488		2, 871, 214		2, 878, 228		
		161:	2, 879, 978	2, 886, 542	2, 919, 253		2, 874, 137		2, 878, 229		
			2, 883, 166	2, 918, 438			2, 875, 166		2, 878, 230		
			2, 884, 235	2, 868, 744	23:	2, 867, 594	2, 876, 205		2, 878, 231		
			2, 902, 268	2, 878, 196		2, 868, 745	2, 878, 200		2, 878, 232		
			2, 904, 318	2, 881, 143		2, 870, 103	2, 879, 242		2, 878, 233		
			2, 869, 843	2, 885, 373		2, 871, 210	2, 882, 253		2, 878, 234		
			2, 895, 722	2, 885, 374		2, 877, 195	2, 884, 396		2, 878, 235		
			2, 880, 977	2, 893, 977		2, 882, 251	2, 886, 546		2, 878, 236		
				2, 894, 921		2, 883, 353	2, 887, 460		2, 878, 237		
				2, 888, 412		2, 889, 295	2, 889, 297		2, 878, 238		
				2, 888, 413		2, 894, 923	2, 889, 298		2, 878, 239		
				2, 888, 414		2, 912, 392	2, 889, 299		2, 878, 240		
				2, 888, 415		2, 912, 393	2, 891, 025		2, 878, 241		
				2, 889, 291		2, 912, 394	2, 891, 026		2, 878, 242		
				2, 890, 181		2, 914, 495	2, 891, 921		2, 878, 243		
				2, 891, 016		2, 916, 466	2, 894, 927		2, 878, 244		
				2, 893, 962		2, 917, 476	2, 896, 719		2, 878, 245		
				2, 894, 918		2, 871, 207	2, 909, 497		2, 878, 246		
				2, 895, 926		2, 878, 197	2, 912, 397		2, 878, 247		
				2, 898, 312		2, 883, 351	2, 912, 398		2, 878, 248		
				2, 901, 445		2, 890, 183	2, 914, 496		2, 878, 249		
				2, 901, 446		2, 891, 020	2, 906, 721		2, 878, 250		
				2, 902, 456		2, 891, 918	2, 908, 658		2, 878, 251		
				2, 904, 522		2, 906, 718	2, 910, 448		2, 878, 252		
				2, 905, 648		2, 911, 383	2, 914, 499		2, 878, 253		
				2, 906, 717		2, 867, 591	2, 916, 468		2, 878, 254		
				2, 907, 718		2, 867, 592	2, 917, 477		2, 878, 255		
				2, 907, 719		2, 873, 261	2, 870, 104		2, 878, 256		
				2, 909, 493		2, 874, 135	2, 870, 105		2, 878, 257		
				2, 910, 446		2, 875, 165	2, 870, 106		2, 878, 258		
				2, 911, 379		2, 877, 193	2, 871, 211		2, 878, 259		
				2, 911, 380		2, 886, 543	2, 876, 203		2, 878, 260		
				2, 911, 381		2, 887, 458	2, 880, 188		2, 878, 261		
				2, 911, 382		2, 890, 184	2, 883, 355		2, 878, 262		
				2, 912, 391		2, 894, 922	2, 885, 377		2, 878, 263		
				2, 913, 424		2, 899, 397	2, 888, 421		2, 878, 264		
				2, 913, 425		2, 901, 449	2, 889, 399		2, 878, 265		
				2, 914, 493		2, 907, 723	2, 891, 927		2, 878, 266		
				2, 915, 483		2, 908, 005	2, 894, 928		2, 878, 267		
				2, 916, 464		2, 908, 006	2, 896, 719		2, 878, 268		
				2, 917, 472		2, 909, 494	2, 897, 168		2, 878, 269		
				2, 917, 473		2, 915, 484	2, 899, 399		2, 878, 270		
				2, 880, 154		2, 915, 485	2, 901, 450		2, 878, 271		
				2, 882, 249		2, 872, 426	2, 902, 451		2, 878, 272		
				2, 884, 388		2, 878, 198	2, 904, 526		2, 878, 273		
				2, 901, 447		2, 879, 199	2, 906, 720		2, 878, 274		
				2, 879, 234		2, 880, 187	2, 908, 659		2, 878, 275		
				2, 880, 185		2, 883, 352	2, 910, 451		2, 878, 276		
				2, 891, 018		2, 891, 021	2, 912, 399		2, 878, 277		
				2, 893, 975		2, 891, 022	2, 914, 497		2, 878, 278		
				2, 893, 976		2, 891, 023	2, 916, 469		2, 878, 279		
				2, 905, 649		2, 893, 964	2, 918, 449		2, 878, 280		
				2, 913, 426		2, 893, 965	2, 918, 450		2, 878, 281		
				2, 916, 465		2, 896, 966	2, 920, 451		2, 878, 282		
				2, 919, 252		2, 897, 165	2, 922, 452		2, 878, 283		
				2, 880, 186		2, 901, 450	2, 924, 453		2, 878, 284		
				2, 897, 164		2, 907, 724	2, 926, 454		2, 878, 285		
				2, 901, 448		2, 907, 725	2, 928, 455		2, 878, 286		
				2, 872, 421		2, 907, 726	2, 930, 456		2, 878, 287		
				2, 874, 134		2, 907, 727	2, 932, 457		2, 878, 288		
				2, 882, 250		2, 907, 728	2, 934, 458		2, 878, 289		
				2, 907, 720		2, 907, 729	2, 936, 459		2, 878, 290		
				2, 895, 928		2, 907, 730	2, 938, 460		2, 878, 291		
				2, 907, 721		2, 907, 731	2, 940, 461		2, 878, 292		
				2, 868, 740		2, 907, 732	2, 942, 462		2, 878, 293		
				2, 904, 523		2, 912, 395	2, 944, 463		2, 878, 294		
				2, 917, 474		2, 918, 440	2, 946, 464		2, 878, 295		
				2, 894, 920		2, 918, 441	2, 948, 465		2, 878, 296		
				2, 904, 524		2, 907, 733	2, 950, 466		2, 878, 297		
				2, 908, 657		2, 907, 734	2, 952, 467		2, 878, 298		
				2, 914, 494		2, 915, 486	2, 954, 468		2, 878, 299		
				2, 879, 235		2, 916, 467	2, 956, 469		2, 878, 300		
				2, 875, 168		2, 867, 593	2, 958, 470		2, 878, 301		
				2, 917, 475		2, 870, 102	2, 960, 471		2, 878, 302		
				2, 872, 422		2, 873, 262	2, 962, 472		2, 878, 303		
				2, 872, 423		2, 877, 194	2, 964, 473		2, 878, 304		
				2, 885, 371		2, 881, 144	2, 966, 474		2, 878, 305		



41: 2,890,190 2,892,804 2,898,320 2,899,402 2,902,460 2,910,450 2,913,432 2,916,469	45.4: 2,905,652 2,912,408 2,912,409 2,915,493 2,916,472 2,917,484 2,918,449 2,919,261	45.9: 2,889,310 2,894,933 2,895,940 2,897,177 2,897,178 2,901,459 2,901,502 2,902,466	53: 2,886,554 2,907,751 2,880,195 2,892,809 2,885,385 2,874,147 2,885,386 2,917,487	77.5: 2,899,411 2,900,368 2,901,467 2,902,474 2,904,535 2,906,738 2,910,456 2,911,390	80: 2,891,931 2,904,541 2,883,370 2,882,261 2,882,262 2,891,932 2,892,820 2,892,821	93.7: 2,908,670 2,908,671 2,909,510 2,909,511 2,911,399 2,912,419 2,912,420 2,912,421
41.5: 2,871,216 2,880,191 2,883,358 2,884,402 2,885,381 2,889,307 2,891,924 2,891,925 2,891,926 2,892,805 2,892,806 2,892,807 2,894,929 2,895,937 2,897,173 2,900,358 2,901,456 2,903,437 2,906,722 2,914,503 2,916,470 2,919,260	45.5: 2,867,601 2,867,602 2,867,603 2,868,761 2,868,762 2,868,763 2,870,115 2,870,116 2,870,117 2,870,118 2,872,431 2,872,432 2,872,433 2,874,929 2,877,206 2,877,207 2,877,208 2,878,732 2,879,252 2,879,253 2,879,254 2,879,255 2,879,256 2,882,258 2,882,259 2,882,290 2,883,360 2,883,361	45.95: 2,871,219 2,871,220 2,875,176 2,876,210 2,877,209 2,877,210 2,879,258 2,881,151 2,883,364 2,883,365 2,887,466 2,890,201 2,891,036 2,900,361 2,900,362 2,904,529 2,906,732 2,906,733 2,907,742 2,909,504 2,919,259	53: 2,886,554 2,907,751 2,880,195 2,892,809 2,885,385 2,874,147 2,885,386 2,917,487 58: 2,897,180 2,911,388 59: 2,868,708 2,875,179 63: 2,886,555 2,890,205 2,890,206 2,895,943 2,904,532 2,908,665 64: 2,875,180 65: 2,895,944 67: 2,870,121 2,874,148 2,886,556 2,891,037 2,895,945 2,909,506 2,913,434 2,917,488 67.5: 2,881,152 2,884,407 2,901,463 67.6: 2,892,810 2,898,324 2,900,367 2,901,464 2,914,508 2,915,502 2,918,452 2,918,453 69: 2,867,607 2,870,122 70: 2,871,223 2,881,153 2,881,154 2,902,472 2,915,503 72: 2,870,123 2,886,557 2,892,811 72.5: 2,871,224 73: 2,876,211 2,876,212 2,888,436 2,889,311 2,893,979 2,905,656 2,909,507 2,915,504 75: 2,870,124 2,888,437 2,891,928 2,891,929 2,891,930 2,892,812 2,892,813 2,892,814 2,892,815 2,894,934 2,895,946 2,897,181 2,899,408 2,899,409 2,899,410 2,901,465 2,901,466 2,902,473 2,904,533 2,904,534 2,905,657 2,906,737 2,907,752 2,907,753 2,911,389 2,912,413 2,912,414 2,913,433 2,914,509 2,916,474 77: 2,889,312 77.5: 2,867,608 2,871,225 2,871,226 2,871,227 2,873,266 2,874,149 2,877,212 2,881,155 2,882,260 2,887,469 2,888,438 2,888,439 2,888,440 2,894,935	77.5: 2,899,411 2,900,368 2,901,467 2,902,474 2,904,535 2,906,738 2,910,456 2,911,390 78: 2,867,609 2,867,805 2,868,769 2,868,770 2,878,235 2,880,196 2,880,197 2,887,470 2,888,441 2,890,207 2,891,038 2,892,816 2,892,817 2,893,980 2,900,369 2,902,475 2,904,536 2,904,537 2,904,538 2,907,754 2,907,755 2,908,666 2,910,457 2,912,415 2,914,510 2,916,475 2,916,476 2,917,490 2,918,454 2,918,455 78.3: 2,870,125 2,878,236 2,879,260 2,884,408 2,890,208 2,890,209 2,870,126 2,870,127 2,874,150 2,875,181 2,883,367 2,883,368 2,890,210 2,894,936 2,895,947 2,895,948 2,904,539 2,917,491 2,917,492 2,898,326 2,917,493 78.5: 2,867,610 2,870,128 2,872,438 2,876,213 2,891,039 2,892,818 2,892,819 2,902,476 2,911,391 2,913,437 2,917,494 79: 2,875,182 79.1: 2,906,739 2,919,262 79.3: 2,867,611 2,872,437 2,875,183 2,877,213 2,879,261 2,883,369 2,888,442 2,899,412 2,900,370 2,898,667 2,909,508 2,913,438 2,914,511 79.5: 2,875,184 2,876,214 2,879,262 2,888,443 2,888,444 2,888,445 2,900,371 2,906,740 2,911,392 2,911,393 2,911,394 2,918,456 79.7: 2,877,214 2,904,540 2,906,741 80: 2,874,151 2,878,237	80: 2,891,931 2,904,541 2,883,370 2,882,261 2,882,262 2,891,932 2,892,820 2,892,821 2,895,949 2,910,458 2,912,416 2,915,506 82: 2,891,933 2,894,937 2,898,325 2,911,395 82.1: 2,914,512 82.3: 2,912,417 83.3: 2,889,313 83.7: 2,872,438 84.1: 2,908,668 2,915,507 2,893,982 2,905,658 2,917,495 2,905,659 2,871,229 2,878,238 2,883,371 2,897,182 2,901,468 2,917,496 85.7: 2,914,513 86.1: 2,870,129 2,877,215 2,885,387 2,885,388 2,892,822 2,892,823 2,892,824 2,910,459 2,912,418 87.1: 2,891,934 87.3: 2,913,439 87.5: 2,888,446 2,892,824 2,893,983 2,905,660 2,909,509 2,911,396 2,914,514 2,915,508 2,915,509 2,917,497 2,917,498 2,919,263 2,915,510 87.7: 2,883,372 2,894,938 2,898,326 2,898,327 2,899,413 2,903,440 2,913,440 2,914,515 2,918,457 2,876,216 2,877,216 2,914,516 2,911,397 2,916,477 2,892,825 2,895,950 2,913,441 2,914,516 89.7: 2,886,558 2,901,469 2,875,185 2,886,559 2,874,152 2,877,217 2,888,447 2,902,477 2,875,186 2,875,187 2,900,370 2,878,239 2,890,211 2,917,499 2,901,470 2,907,756 2,911,398 2,915,511 2,915,512 93.7: 2,874,153 2,878,240 2,880,198 2,880,199 2,882,263 2,887,471 2,890,212 2,891,935 2,892,826 2,898,328 2,899,414 2,905,661 2,908,669	93.7: 2,908,670 2,908,671 2,909,510 2,909,511 2,911,399 2,912,419 2,912,420 2,912,421 2,913,442 2,914,517 2,919,264 2,919,265 2,919,266 94.2: 2,908,672 2,908,673 2,913,443 2,913,444 94.8: 2,893,981 2,901,471 94.9: 2,867,612 2,868,772 2,868,773 2,870,130 2,870,131 2,872,439 2,878,241 2,879,263 2,880,200 2,880,201 2,881,156 2,882,264 2,884,409 2,885,389 2,886,560 2,886,561 2,887,472 2,887,473 2,888,448 2,889,314 2,890,213 2,890,214 2,891,040 2,891,041 2,891,042 2,891,043 2,891,044 2,891,936 2,891,937 2,893,985 2,897,183 2,897,184 2,898,329 2,898,330 2,899,415 2,899,416 2,899,417 2,899,418 2,899,419 2,900,372 2,900,373 2,900,374 2,904,542 2,906,742 2,906,743 2,907,757 2,908,674 2,908,675 2,909,512 2,909,513 2,910,460 2,910,461 2,911,400 2,912,422 2,912,423 2,912,424 2,912,425 2,913,445 2,913,446 2,913,447 2,913,448 2,913,449 2,914,518 2,914,519 2,914,520 2,915,513 2,915,514 2,915,515 2,915,516 2,916,478 2,916,479 2,916,480 2,916,481 2,917,500 2,917,501 2,918,458 2,918,459 2,918,460 2,918,461 2,919,267 2,919,268 96.5: 2,881,157 2,887,474 2,901,472 2,903,441



## Class 260—Con.

96. 5: 2, 905, 662	157: 2, 881, 160	226: 2, 912, 430	239. 55: 2, 897, 199	243: 2, 910, 473	256. 4: 2, 871, 240	290: 2, 893, 995
2, 906, 744	158: 2, 875, 193	227: 2, 899, 423	2, 899, 427	2, 910, 474	2, 874, 157	2, 898, 338
2, 912, 426	159: 2, 897, 191	230: 2, 891, 946	2, 899, 428	2, 910, 475	2, 876, 222	2, 900, 387
97: 2, 906, 745	160: 2, 895, 951	231: 2, 891, 056	2, 900, 382	2, 910, 476	2, 876, 223	2, 907, 770
2, 909, 514	161: 2, 886, 562	2, 891, 057	2, 902, 482	2, 914, 527	2, 876, 224	2, 909, 525
97. 5: 2, 870, 132	2, 900, 379	232: 2, 879, 268	2, 902, 483	2, 914, 528	2, 881, 171	2, 890, 222
2, 908, 676	162: 2, 871, 234	2, 912, 431	2, 903, 448	2, 916, 459	2, 884, 423	2, 872, 452
97. 6: 2, 878, 242	163: 2, 888, 452	2, 915, 530	2, 904, 449	2, 917, 512	2, 892, 840	2, 883, 887
97. 7: 2, 894, 939	2, 906, 747	233: 2, 898, 334	2, 904, 445	2, 918, 464	2, 899, 434	2, 893, 996
105: 2, 887, 475	164: 2, 878, 244	233. 3: 2, 867, 615	2, 904, 546	2, 919, 271	2, 909, 522	2, 902, 490
109: 2, 897, 185	2, 900, 380	2, 876, 217	2, 906, 750	2, 919, 272	2, 913, 462	2, 905, 687
112: 2, 868, 773	167: 2, 917, 504	2, 883, 375	2, 907, 758	244: 2, 867, 618	2, 917, 513	2, 915, 522
2, 879, 264	168: 2, 877, 218	2, 894, 944	2, 907, 759	2, 894, 949	2, 876, 225	2, 868, 792
2, 888, 449	173: 2, 870, 136	2, 910, 457	2, 908, 682	2, 905, 669	2, 872, 448	2, 868, 793
2, 891, 045	174: 2, 888, 453	233. 5: 2, 868, 780	2, 909, 519	246: 2, 918, 465	2, 876, 225	2, 872, 453
2, 900, 375	177: 2, 891, 048	2, 883, 376	2, 910, 471	247: 2, 916, 490	2, 887, 487	2, 883, 388
2, 912, 427	178: 2, 913, 450	2, 884, 412	2, 911, 403	247. 1: 2, 871, 239	2, 899, 435	2, 891, 064
2, 917, 502	180: 2, 882, 269	2, 884, 413	2, 913, 456	2, 875, 202	2, 898, 337	2, 901, 486
117: 2, 890, 215	188: 2, 908, 679	2, 891, 947	2, 913, 457	2, 891, 059	2, 875, 204	2, 903, 459
118: 2, 881, 158	192: 2, 884, 410	2, 914, 526	2, 916, 486	2, 901, 479	2, 891, 062	2, 917, 515
123: 2, 882, 265	2, 912, 429	234: 2, 868, 781	2, 917, 510	2, 902, 487	2, 868, 791	2, 877, 229
123. 5: 2, 881, 159	193: 2, 890, 216	2, 893, 990	2, 919, 270	2, 904, 548	2, 870, 152	2, 878, 254
124: 2, 870, 133	196: 2, 877, 219	2, 897, 193	2, 868, 784	247. 2: 2, 867, 619	2, 873, 274	2, 883, 389
2, 891, 046	2, 909, 516	2, 908, 681	2, 875, 199	2, 868, 786	2, 875, 205	2, 885, 402
2, 894, 940	199: 2, 891, 049	2, 917, 506	2, 900, 383	2, 870, 145	2, 880, 209	2, 916, 493
125: 2, 898, 331	2, 904, 543	235: 2, 897, 194	2, 918, 463	2, 870, 146	2, 881, 172	2, 891, 065
2, 905, 664	203: 2, 890, 217	236. 5: 2, 870, 140	2, 901, 475	2, 887, 488	2, 892, 458	2, 901, 487
137: 2, 870, 134	2, 906, 748	239: 2, 868, 782	2, 904, 547	2, 889, 328	2, 891, 063	2, 902, 491
139: 2, 875, 188	204: 2, 899, 420	2, 878, 245	2, 879, 269	2, 897, 201	2, 897, 201	2, 904, 549
2, 875, 189	2, 915, 518	2, 881, 165	2, 917, 509	2, 906, 753	2, 899, 436	2, 910, 478
2, 878, 243	205: 2, 873, 270	2, 888, 454	2, 890, 218	2, 918, 466	2, 901, 481	294: 2, 871, 241
2, 900, 376	2, 899, 421	2, 893, 991	2, 891, 949	247. 5: 2, 867, 620	2, 901, 482	2, 874, 160
2, 900, 377	207: 2, 870, 137	2, 898, 992	2, 881, 166	2, 870, 147	2, 905, 673	2, 882, 273
2, 900, 378	207. 1: 2, 891, 942	2, 897, 195	2, 881, 167	2, 870, 148	2, 906, 754	2, 885, 403
2, 910, 462	209: 2, 868, 778	2, 900, 381	2, 888, 455	2, 883, 381	2, 907, 764	2, 895, 957
2, 915, 517	2, 871, 236	2, 913, 453	2, 899, 422	2, 885, 399	2, 907, 765	2, 903, 460
2, 917, 503	2, 885, 393	2, 913, 454	2, 876, 220	2, 899, 432	2, 907, 766	294. 3: 2, 880, 211
140: 2, 897, 186	210: 2, 868, 779	239. 1: 2, 880, 203	2, 878, 248	2, 900, 384	2, 907, 767	2, 885, 404
141: 2, 867, 613	2, 871, 235	2, 892, 832	2, 882, 271	2, 870, 149	2, 909, 523	2, 891, 066
2, 894, 941	2, 871, 236	2, 899, 424	2, 887, 479	2, 870, 150	2, 909, 524	2, 897, 204
2, 897, 187	2, 885, 393	2, 899, 425	2, 887, 480	2, 910, 477	2, 911, 407	2, 898, 340
2, 914, 521	2, 885, 394	239. 3: 2, 876, 218	2, 888, 458	2, 919, 275	2, 919, 275	2, 908, 686
143: 2, 872, 440	2, 891, 050	2, 877, 220	2, 891, 955	2, 903, 454	2, 876, 226	2, 914, 532
2, 892, 827	2, 893, 987	2, 883, 377	2, 898, 330	2, 905, 670	2, 876, 227	2, 914, 533
144: 2, 871, 230	2, 902, 478	2, 884, 414	2, 899, 429	2, 913, 459	2, 902, 489	2, 874, 161
2, 885, 390	209. 5: 2, 901, 474	2, 891, 058	2, 901, 476	2, 914, 529	2, 903, 456	2, 881, 173
2, 885, 391	209. 6: 2, 881, 161	239. 5: 2, 870, 141	2, 901, 477	2, 868, 787	2, 905, 684	2, 881, 175
2, 897, 188	2, 902, 479	2, 873, 271	2, 903, 450	2, 882, 274	2, 882, 272	2, 882, 274
145: 2, 870, 135	210: 2, 868, 779	2, 875, 196	2, 903, 451	2, 872, 446	2, 908, 684	2, 886, 570
2, 885, 392	2, 870, 138	2, 884, 416	2, 903, 452	2, 872, 447	2, 880, 210	2, 891, 957
2, 887, 476	2, 872, 442	2, 886, 564	2, 905, 666	2, 876, 221	2, 883, 382	2, 892, 842
2, 891, 047	2, 881, 162	2, 889, 318	2, 905, 667	2, 878, 249	2, 872, 450	2, 909, 526
2, 891, 938	2, 881, 163	2, 897, 196	2, 906, 752	2, 878, 250	2, 874, 158	2, 911, 408
2, 891, 939	2, 882, 270	2, 899, 426	2, 907, 760	2, 880, 207	2, 888, 460	294. 8: 2, 889, 330
2, 906, 746	2, 885, 395	2, 910, 468	2, 907, 761	2, 894, 950	2, 890, 220	2, 891, 958
146: 2, 868, 774	2, 891, 051	2, 910, 469	2, 910, 472	2, 905, 671	2, 893, 994	2, 898, 341
2, 868, 775	2, 891, 943	2, 910, 470	2, 912, 433	2, 913, 460	2, 903, 457	2, 901, 488
2, 871, 231	2, 894, 943	2, 910, 471	2, 917, 511	2, 914, 530	2, 903, 458	2, 910, 479
2, 873, 267	2, 895, 952	2, 911, 402	240. 1: 2, 912, 434	248. 5: 2, 891, 060	2, 905, 685	294. 9: 2, 868, 794
2, 873, 268	2, 908, 680	2, 912, 432	2, 886, 565	2, 894, 951	2, 905, 686	2, 868, 795
2, 875, 190	2, 916, 483	2, 913, 455	2, 892, 834	2, 912, 435	2, 908, 685	2, 870, 155
2, 880, 202	2, 916, 484	2, 917, 507	2, 892, 835	249: 2, 889, 323	2, 914, 534	2, 914, 534
2, 882, 266	210. 5: 2, 895, 953	2, 917, 508	2, 892, 836	2, 907, 762	2, 916, 492	2, 919, 277
2, 882, 267	2, 897, 192	239. 55: 2, 867, 616	2, 892, 837	249. 5: 2, 911, 406	2, 878, 252	295: 2, 870, 156
2, 883, 373	211: 2, 870, 139	2, 868, 783	2, 892, 838	2, 914, 531	2, 878, 253	2, 871, 242
2, 883, 374	2, 875, 194	2, 870, 142	2, 893, 938	249. 6: 2, 868, 788	2, 885, 401	2, 873, 276
2, 889, 315	2, 884, 411	2, 870, 143	2, 899, 430	2, 901, 480	2, 880, 221	2, 877, 230
2, 901, 473	2, 891, 052	2, 873, 272	2, 916, 487	249. 7: 2, 868, 789	2, 891, 954	2, 891, 067
2, 909, 515	2, 891, 053	2, 873, 273	2, 916, 488	2, 899, 433	2, 907, 768	2, 891, 068
2, 916, 482	2, 891, 944	2, 874, 154	2, 883, 380	2, 902, 488	2, 870, 153	2, 894, 972
2, 919, 269	2, 903, 443	2, 875, 197	2, 875, 198	2, 913, 461	2, 883, 383	2, 894, 972
147: 2, 868, 776	2, 903, 444	2, 875, 200	2, 875, 201	2, 918, 467	2, 887, 489	2, 897, 203
2, 871, 232	2, 913, 451	2, 876, 219	2, 876, 220	249. 8: 2, 907, 763	2, 891, 955	2, 899, 437
2, 875, 191	2, 913, 452	2, 877, 221	2, 877, 222	249. 9: 2, 867, 621	2, 901, 483	2, 900, 388
2, 879, 265	2, 916, 485	2, 877, 223	2, 877, 224	2, 885, 400	2, 901, 484	2, 904, 551
2, 897, 189	2, 917, 505	2, 877, 225	2, 877, 226	2, 900, 385	2, 912, 436	2, 904, 552
2, 897, 190	211. 3: 2, 867, 614	2, 878, 246	2, 878, 247	250: 2, 874, 156	2, 918, 470	2, 906, 755
2, 908, 677	2, 875, 195	2, 878, 247	2, 881, 169	2, 889, 324	2, 867, 622	2, 908, 687
148: 2, 898, 332	211. 5: 2, 872, 443	2, 880, 204	2, 886, 566	2, 889, 325	2, 872, 451	2, 892, 275
149: 2, 882, 268	2, 872, 444	2, 880, 205	2, 886, 575	2, 890, 326	2, 876, 228	2, 884, 415
2, 887, 477	2, 881, 164	2, 881, 168	2, 887, 481	2, 891, 953	2, 877, 225	2, 894, 953
151: 2, 871, 233	2, 885, 396	2, 883, 378	2, 887, 482	2, 900, 386	2, 877, 226	2, 905, 688
152: 2, 879, 266	2, 891, 945	2, 883, 379	2, 887, 483	2, 903, 672	2, 883, 384	2, 912, 437
2, 893, 986	2, 893, 988	2, 884, 417	2, 888, 459	2, 905, 672	2, 883, 385	2, 916, 494
2, 910, 463	2, 893, 989	2, 884, 418	2, 889, 322	2, 916, 491	2, 883, 386	296: 2, 867, 623
2, 912, 428	2, 902, 480	2, 884, 419	2, 890, 219	2, 918, 468	2, 897, 202	2, 868, 796
153: 2, 873, 269	2, 903, 445	2, 884, 420	2, 891, 952	2, 918, 469	2, 897, 769	2, 888, 461
2, 875, 192	2, 903, 446	2, 884, 421	2, 892, 839	2, 919, 273	2, 919, 276	2, 909, 527
2, 889, 316	2, 909, 518	2, 885, 397	2, 894, 946	251: 2, 880, 208	2, 877, 227	297: 2, 868, 797
2, 891, 940	2, 910, 465	2, 885, 398	2, 894, 947	2, 884, 422	2, 887, 485	2, 874, 162
2, 891, 941	2, 914, 524	2, 887, 478	2, 894, 948	2, 889, 327	2, 892, 841	2, 891, 959
2, 892, 828	212: 2, 898, 333	2, 888, 456	2, 898, 336	2, 891, 061	2, 901, 485	2, 909, 528
2, 892, 829	2, 902, 481	2, 888, 457	2, 899, 431	2, 893, 993	2, 894, 952	2, 909, 529
2, 892, 830	2, 902, 482	2, 889, 320	2, 900, 478	2, 915, 521	2, 895, 956	2, 915, 524
2, 892, 831	2, 902, 483	2, 890, 321	2, 902, 485	2, 919, 274	2, 875, 207	297. 5: 2, 875, 207
2, 903, 442	216: 2, 879, 267	2, 891, 948	2, 902, 486	252: 2, 875, 203	2, 874, 159	2, 918, 471
2, 910, 464	2, 886, 563	2, 892, 833	2, 902, 487	2, 884, 667	2, 877, 228	2, 868, 798
154: 2, 908, 678	223: 2, 891, 054	2, 893, 943	2, 908, 683	2, 903, 455	2, 879, 272	2, 870, 157
155: 2, 888, 450	2,					



299: 2,881,179	314.5: 2,897,207	340.9: 2,867,627	348.5: 2,870,171	397.4: 2,889,342	399: 2,877,243	419: 2,872,464
2,881,180	2,900,390	2,880,212	2,873,283	2,891,077	2,911,420	2,895,976
2,881,181	2,908,690	2,887,492	2,879,277	2,891,078	2,868,812	2,911,423
2,881,182	2,910,482	2,887,493	2,887,498	2,891,079	2,878,271	2,915,537
301: 2,895,958	2,914,537	2,887,494	2,899,446	2,891,973	2,892,852	2,916,502
302: 2,870,158	2,914,538	2,891,967	2,903,465	2,891,974	2,892,853	423: 2,872,465
2,914,535	2,917,518	2,893,999	2,919,283	2,891,975	2,894,009	2,915,538
303: 2,868,799	315: 2,883,393	2,894,000	348.6: 2,891,970	2,894,006	2,898,352	424: 2,881,195
2,899,438	316: 2,884,425	2,894,001	2,892,849	2,897,215	2,909,533	425: 2,876,242
304: 2,876,231	2,893,998	2,894,002	2,898,349	2,900,398	2,909,534	2,879,282
2,915,525	2,918,475	2,894,958	351: 2,919,284	2,900,399	2,909,634	2,917,525
2,917,516	318: 2,885,406	343: 2,872,456	355: 2,882,280	2,902,497	401: 2,880,219	426: 2,878,275
305: 2,919,278	319: 2,870,162	343.2: 2,872,457	357: 2,872,459	2,904,562	2,903,466	428: 2,867,639
306: 2,910,480	2,873,281	2,877,236	364: 2,872,460	2,905,676	402.5: 2,877,244	2,872,466
306.6: 2,868,800	2,875,212	2,881,186	366: 2,895,967	2,908,693	403: 2,870,179	428.5: 2,871,250
2,873,277	2,877,234	2,884,427	367: 2,913,465	2,908,694	2,882,285	2,883,405
2,875,208	2,883,394	2,887,495	368: 2,870,172	2,910,485	2,885,414	429: 2,868,816
2,885,405	2,886,573	2,889,337	369: 2,871,244	2,910,486	2,895,973	2,870,180
2,889,331	2,890,223	2,895,963	370: 2,871,244	2,910,487	2,899,449	2,882,288
2,891,960	2,891,965	2,895,964	371: 2,874,168	2,911,418	2,907,777	2,894,024
306.7: 2,877,231	2,908,691	2,902,494	372: 2,901,490	2,912,444	404: 2,871,247	2,898,354
2,877,232	2,909,530	2,886,576	373: 2,870,173	2,901,491	2,877,245	2,909,541
2,879,273	2,916,496	2,897,210	374: 2,900,392	2,909,537	2,877,246	2,910,492
2,883,390	2,916,497	2,904,556	375: 2,918,481	2,918,481	2,881,193	2,915,539
2,886,571	2,919,280	2,904,557	376: 2,911,417	2,918,482	2,892,854	2,916,503
2,905,689	2,873,281	2,912,440	377: 2,891,971	2,919,286	2,894,010	2,916,504
2,911,419	2,904,553	2,919,282	378: 2,914,542	397.45: 2,867,631	2,898,353	2,916,505
2,871,243	2,904,554	2,912,441	380: 2,888,467	2,867,632	2,901,495	429.1: 2,867,640
2,891,961	2,911,410	2,915,531	381: 2,891,074	2,867,633	2,905,679	2,868,817
2,898,342	326.3: 2,882,276	2,915,532	382: 2,898,350	2,867,634	2,909,535	2,874,174
2,899,439	2,884,426	2,915,533	383: 2,883,399	2,867,635	2,875,218	2,871,251
2,915,526	2,886,574	2,915,533	384: 2,895,968	2,867,636	2,875,219	2,872,467
307: 2,868,801	2,891,071	343.6: 2,874,165	385: 2,894,004	2,867,637	2,876,240	2,874,176
2,870,159	2,897,209	2,875,213	386: 2,872,461	2,867,638	2,877,250	2,877,250
2,870,160	2,898,344	2,892,844	387: 2,886,577	2,870,177	2,878,272	2,892,855
2,870,161	2,900,391	2,868,804	388: 2,905,674	2,870,178	2,878,273	2,899,451
2,876,232	2,901,489	2,868,805	389: 2,907,775	2,873,284	2,881,194	2,899,452
2,883,391	2,902,492	2,870,165	390: 2,908,692	2,873,285	2,890,228	2,901,496
2,886,572	2,909,531	2,890,225	391: 2,905,675	2,873,286	2,891,081	2,902,503
2,891,962	2,917,519	2,892,845	392: 2,868,808	2,874,172	2,891,082	2,904,568
2,895,959	326.5: 2,876,234	2,892,846	393: 2,891,972	2,874,173	2,891,976	2,909,542
2,895,960	2,878,264	2,897,211	394: 2,894,005	2,875,217	2,902,499	429.2: 2,870,789
2,905,690	2,881,184	2,916,500	395: 2,899,430	2,876,238	2,907,778	429.3: 2,911,424
2,908,688	2,898,345	2,887,496	396: 2,895,968	2,877,241	2,874,175	2,870,181
2,908,689	2,902,493	2,870,166	397: 2,870,176	2,877,242	2,891,083	2,880,221
2,915,527	2,911,411	2,870,167	398: 2,878,269	2,878,269	2,909,536	2,886,579
2,916,495	2,911,412	2,885,408	399: 2,880,217	2,880,217	405: 2,909,537	2,888,475
2,918,472	2,916,498	2,905,699	400: 2,880,218	2,880,218	406: 2,894,964	2,894,966
2,918,473	327: 2,870,163	2,905,700	401: 2,881,191	2,881,191	407: 2,910,489	2,898,355
2,919,279	2,872,455	2,907,772	402: 2,883,402	2,883,402	408: 2,880,220	2,898,356
307.5: 2,905,691	2,877,235	2,907,773	403: 2,893,403	2,893,403	409: 2,894,965	2,898,357
308: 2,867,624	2,891,072	2,916,501	404: 2,883,404	2,883,404	2,903,467	2,913,469
2,875,209	2,894,956	346.1: 2,874,166	405: 2,883,405	2,883,405	2,904,566	429.7: 2,867,641
2,875,210	2,900,392	2,900,396	406: 2,885,412	2,885,412	2,904,567	2,867,642
2,884,424	2,900,393	2,918,479	407: 2,885,413	2,885,413	2,905,679	2,868,819
2,898,343	2,905,695	2,870,168	408: 2,887,499	2,887,499	2,907,779	2,868,820
2,914,536	2,905,696	2,879,275	409: 2,888,472	2,888,472	2,909,538	2,870,182
2,894,954	2,911,413	2,881,187	410: 2,888,473	2,888,473	410: 2,882,286	2,872,468
2,897,205	2,911,414	2,892,847	411: 2,889,343	2,889,343	2,912,447	2,873,287
2,905,692	2,918,476	2,894,003	412: 2,889,344	2,889,344	2,909,539	2,873,288
2,917,517	329: 2,890,224	2,898,347	413: 2,889,345	2,889,345	2,910,490	2,885,415
309.2: 2,876,233	2,891,966	2,904,558	414: 2,891,080	2,891,080	2,902,500	2,885,416
2,899,440	2,899,444	2,905,701	415: 2,892,851	2,892,851	2,905,680	2,885,417
2,881,183	330.5: 2,876,235	2,888,465	416: 2,894,007	2,894,007	2,905,681	2,892,856
2,889,332	2,914,539	2,911,416	417: 2,894,962	2,894,962	2,905,682	2,904,569
2,889,333	332: 2,882,277	2,912,442	418: 2,894,963	2,894,963	2,910,490	2,905,683
2,891,069	332.1: 2,882,278	2,914,541	419: 2,895,972	2,895,972	2,912,448	429.9: 2,868,821
2,893,997	332.2: 2,876,236	346.6: 2,903,463	420: 2,897,216	2,897,216	2,872,463	2,872,469
2,913,463	332.5: 2,900,394	346.8: 2,867,628	421: 2,897,217	2,897,217	2,878,274	2,881,196
309.6: 2,867,625	333: 2,881,185	2,885,409	422: 2,897,218	2,897,218	2,879,281	2,883,406
2,868,802	2,910,483	2,891,968	423: 2,899,448	2,899,448	2,886,578	2,884,431
2,875,210	2,913,464	2,872,458	424: 2,900,400	2,900,400	2,898,358	2,898,358
2,889,334	2,914,540	2,915,534	425: 2,902,499	2,902,499	2,910,491	2,914,547
2,895,961	338: 2,898,346	347.2: 2,870,169	426: 2,904,565	2,904,565	2,914,546	2,915,540
2,899,441	339: 2,874,164	2,879,276	427: 2,904,566	2,904,566	410.9: 2,868,813	430: 2,880,222
2,915,528	2,904,555	2,899,447	428: 2,905,679	2,905,679	2,882,287	2,906,761
2,918,474	340.2: 2,873,282	2,891,073	429: 2,906,758	2,906,758	2,890,230	431: 2,871,252
2,892,843	2,887,491	2,894,957	430: 2,907,776	2,907,776	2,891,084	2,873,289
2,899,442	2,891,073	2,894,957	431: 2,908,695	2,908,695	2,894,011	2,877,251
2,906,756	2,907,771	2,900,395	432: 2,909,534	2,909,534	2,917,523	2,883,407
310: 2,868,803	2,915,529	2,870,170	433: 2,912,446	2,912,446	2,917,524	2,883,408
2,873,278	2,918,477	2,874,167	434: 2,913,466	2,913,466	2,917,525	2,883,409
2,877,233	340.3: 2,888,463	2,882,279	435: 2,914,545	2,914,545	2,917,526	2,885,418
2,878,233	2,889,336	2,883,395	436: 2,915,535	2,915,535	2,917,527	2,917,526
2,883,392	2,905,697	2,883,396	437: 2,916,504	2,916,504	2,917,528	433: 2,909,543
2,888,462	2,906,757	2,883,397	438: 2,917,529	2,917,529	2,917,529	2,913,470
2,897,206	2,910,484	2,883,398	439: 2,918,480	2,918,480	2,876,241	437: 2,868,822
2,899,443	340.5: 2,870,164	2,888,464	440: 2,919,281	2,919,281	2,877,242	2,891,977
2,903,461	2,878,266	2,889,339	441: 2,878,267	2,878,267	2,878,271	2,907,780
2,903,462	2,885,407	2,889,340	442: 2,879,278	2,879,278	2,879,272	2,917,527
2,905,693	2,888,464	2,891,969	443: 2,880,219	2,880,219	2,880,215	2,877,252
2,905,694	2,912,438	2,892,848	444: 2,881,188	2,881,188	2,882,283	2,880,223
2,910,481	2,916,499	2,894,959	445: 2,882,284	2,882,284	2,894,961	2,886,800
311: 2,891,070	2,919,281	2,895,966	446: 2,883,404	2,883,404	2,895,970	2,892,857
313: 2,874,163	340.6: 2,899,445	2,898,348	447: 2,884,429	2,884,429	2,897,249	2,894,967
2,889,335	2,903,464	2,902,495	448: 2,885,411	2,885,411	2,899,450	2,909,546
2,894,955	2,912,439	2,907,774	449: 2,886,800	2,886,800	2,902,502	2,911,425
2,900,389	340.7: 2,895,962	2,917,521	450: 2,887,491	2,887,491	2,906,760	2,917,528
2,911,409	2,915,530					
314: 2,867,626						
314.5: 2,873,279						
2,873,280						
2,875,211						
2,891,964						



Class 260—Con.	448. 2:	461:	462:	475:	487:	521:
438: 2, 918, 483	2, 917, 529	2, 875, 235	2, 884, 441	2, 886, 587	2, 875, 240	2, 868, 836
439: Re. 24,653	2, 917, 530	2, 876, 244	2, 889, 352	2, 889, 356	2, 876, 255	2, 870, 199
2, 875, 223	2, 868, 825	2, 876, 245	2, 891, 086	2, 890, 239	2, 889, 358	2, 914, 558
2, 877, 253	2, 868, 826	2, 876, 246	2, 894, 020	2, 892, 864	2, 867, 652	2, 872, 480
2, 890, 233	2, 870, 184	2, 876, 247	2, 894, 975	2, 894, 021	2, 867, 653	2, 888, 485
2, 891, 978	2, 881, 197	2, 876, 248	2, 895, 985	2, 894, 978	2, 870, 197	2, 899, 465
2, 891, 979	2, 881, 198	2, 877, 259	2, 898, 365	2, 894, 979	2, 874, 183	2, 903, 480
2, 898, 359	2, 881, 199	2, 877, 260	2, 904, 578	2, 897, 230	2, 875, 241	2, 907, 792
2, 898, 360	2, 885, 419	2, 878, 255	2, 906, 771	2, 901, 505	2, 880, 233	2, 876, 257
2, 900, 401	2, 892, 859	2, 879, 283	2, 909, 560	2, 902, 509	2, 889, 359	2, 880, 237
2, 904, 573	2, 906, 768	2, 879, 284	463: 2, 873, 291	2, 903, 477	2, 892, 865	2, 883, 421
2, 906, 762	2, 909, 549	2, 879, 285	2, 891, 087	2, 905, 707	2, 898, 366	2, 887, 511
2, 912, 449	2, 909, 550	2, 879, 286	2, 917, 534	2, 905, 708	2, 898, 367	2, 890, 245
442: 2, 889, 347	2, 909, 551	2, 879, 287	464: 2, 882, 292	2, 909, 562	2, 898, 368	2, 892, 868
448: 2, 867, 643	2, 909, 552	2, 880, 224	2, 891, 986	2, 911, 434	2, 901, 506	2, 900, 412
2, 868, 823	2, 910, 496	2, 880, 225	465: 2, 872, 475	2, 912, 457	2, 904, 585	2, 906, 775
2, 872, 470	2, 914, 550	2, 880, 226	2, 891, 088	2, 913, 482	2, 913, 487	2, 879, 291
2, 873, 290	449. 5: 2, 904, 575	2, 881, 200	2, 897, 229	2, 914, 553	2, 917, 539	2, 894, 985
2, 874, 177	449. 6: 2, 871, 253	2, 881, 201	2, 900, 409	2, 914, 554	2, 919, 290	2, 897, 232
2, 875, 224	2, 904, 576	2, 881, 202	2, 901, 504	2, 868, 831	2, 902, 510	2, 899, 466
2, 882, 289	2, 917, 531	2, 883, 411	2, 904, 579	2, 872, 477	491: 2, 911, 437	2, 876, 258
2, 886, 581	2, 917, 532	2, 884, 438	2, 906, 772	2, 886, 588	499: 2, 868, 832	2, 902, 512
2, 892, 858	2, 870, 185	2, 885, 429	2, 906, 773	2, 886, 589	2, 872, 478	527: 2, 867, 655
2, 897, 220	2, 877, 257	2, 885, 430	2, 911, 432	2, 913, 483	500: 2, 872, 479	2, 905, 710
2, 900, 402	2, 892, 858	2, 886, 586	2, 912, 453	2, 913, 484	2, 874, 184	2, 899, 564
2, 903, 469	2, 900, 403	2, 887, 505	2, 914, 551	2, 913, 485	2, 904, 586	528: 2, 881, 211
2, 903, 470	2, 902, 508	2, 887, 506	465. 1: 2, 883, 413	2, 914, 555	2, 917, 540	530: 2, 881, 212
2, 903, 471	2, 918, 486	2, 888, 481	465. 2: 2, 910, 502	2, 874, 182	501: 2, 868, 833	2, 881, 213
2, 903, 472	2, 872, 472	2, 890, 235	465. 3: 2, 904, 580	2, 873, 293	2, 870, 198	2, 881, 214
2, 906, 763	2, 891, 982	2, 890, 236	2, 915, 548	2, 879, 290	2, 874, 185	2, 887, 512
2, 907, 781	2, 894, 970	2, 890, 237	465. 4: 2, 884, 442	2, 880, 231	2, 877, 265	533: 2, 867, 656
2, 909, 547	2, 895, 978	2, 891, 085	2, 904, 581	2, 883, 417	2, 880, 234	2, 870, 200
2, 910, 493	2, 895, 979	2, 891, 984	2, 912, 454	2, 883, 418	2, 887, 509	2, 905, 711
2, 910, 494	2, 878, 276	2, 891, 985	2, 913, 478	2, 891, 091	2, 888, 483	534: 2, 870, 201
2, 915, 541	2, 892, 860	2, 892, 862	2, 915, 549	2, 894, 022	2, 890, 242	2, 876, 259
2, 915, 542	2, 905, 704	2, 892, 863	2, 918, 489	2, 903, 478	2, 898, 369	2, 878, 282
2, 918, 484	2, 908, 702	2, 894, 014	465. 6: 2, 868, 828	2, 904, 582	2, 899, 459	2, 881, 215
2, 918, 485	2, 918, 487	2, 894, 015	2, 890, 238	2, 903, 479	2, 900, 411	2, 882, 302
448. 2: 2, 868, 824	453: 2, 867, 644	2, 894, 016	465. 7: 2, 870, 193	2, 890, 240	2, 914, 557	2, 890, 246
2, 872, 471	2, 875, 225	2, 894, 017	2, 913, 479	2, 899, 458	502: 2, 877, 266	2, 394, 026
2, 877, 254	2, 875, 226	2, 894, 018	2, 913, 480	2, 875, 238	2, 910, 504	2, 394, 027
2, 877, 255	2, 877, 258	2, 894, 019	465. 8: 2, 878, 277	2, 875, 239	504: 2, 881, 206	2, 895, 989
2, 877, 256	2, 884, 435	2, 894, 973	2, 880, 228	2, 887, 504	2, 884, 445	2, 897, 233
2, 884, 432	2, 885, 420	2, 894, 974	2, 912, 455	2, 904, 583	2, 902, 511	2, 906, 776
2, 884, 433	2, 885, 421	2, 895, 981	2, 916, 511	2, 908, 710	2, 909, 563	2, 908, 711
2, 884, 434	2, 885, 422	2, 895, 982	466: 2, 882, 293	2, 871, 258	505: 2, 875, 242	535: 2, 855, 436
2, 886, 552	2, 885, 423	2, 895, 983	2, 912, 456	2, 871, 259	2, 875, 243	2, 899, 467
2, 886, 583	2, 885, 424	2, 895, 984	2, 913, 481	2, 877, 263	2, 880, 235	2, 916, 515
2, 887, 500	2, 885, 425	2, 897, 224	467: 2, 867, 647	2, 878, 279	2, 882, 301	2, 870, 202
2, 887, 501	2, 885, 426	2, 897, 225	468: 2, 867, 648	2, 880, 232	2, 889, 360	536: 2, 867, 657
2, 887, 502	2, 891, 983	2, 897, 226	2, 867, 649	2, 884, 444	2, 889, 361	2, 868, 837
2, 888, 476	2, 892, 861	2, 897, 227	2, 871, 255	2, 885, 433	2, 892, 866	2, 870, 203
2, 888, 477	2, 897, 223	2, 897, 228	2, 876, 250	2, 891, 987	2, 898, 370	2, 884, 450
2, 888, 478	2, 901, 497	2, 898, 364	2, 878, 257	2, 915, 550	2, 899, 460	2, 885, 437
2, 888, 479	2, 908, 703	2, 899, 454	2, 881, 203	2, 917, 535	506: 2, 868, 834	2, 890, 247
2, 889, 348	2, 908, 704	2, 899, 455	2, 889, 353	2, 917, 536	507: 2, 895, 986	2, 913, 490
2, 889, 349	2, 909, 553	2, 899, 456	2, 889, 354	2, 918, 493	2, 898, 371	2, 914, 559
2, 889, 350	2, 911, 429	2, 900, 405	2, 889, 355	2, 883, 420	2, 913, 488	539: 2, 905, 712
2, 890, 234	2, 915, 545	2, 900, 406	2, 889, 356	2, 887, 507	509: 2, 884, 446	2, 915, 552
2, 891, 980	454: 2, 874, 178	2, 900, 407	2, 891, 089	2, 887, 508	512: 2, 911, 438	2, 917, 542
2, 891, 981	2, 885, 428	2, 900, 408	2, 891, 248	2, 891, 988	513: 2, 880, 236	2, 878, 258
2, 894, 012	2, 886, 584	2, 901, 503	2, 894, 976	2, 917, 537	2, 881, 207	2, 878, 257
2, 894, 968	2, 894, 013	2, 903, 474	2, 899, 457	2, 918, 492	2, 895, 987	2, 884, 451
2, 894, 969	2, 898, 363	2, 903, 475	2, 911, 433	2, 919, 289	2, 899, 461	2, 895, 990
2, 895, 977	455: 2, 875, 227	2, 904, 577	468. 5: 2, 874, 179	2, 870, 195	514: 2, 868, 835	2, 898, 372
2, 897, 221	2, 875, 228	2, 905, 705	2, 889, 355	2, 876, 239	2, 874, 186	2, 900, 413
2, 897, 222	2, 876, 243	2, 906, 769	2, 907, 788	2, 881, 204	2, 875, 244	2, 913, 491
2, 898, 361	2, 882, 291	2, 906, 770	2, 918, 490	2, 886, 590	2, 876, 256	541: 2, 878, 283
2, 899, 453	2, 888, 480	2, 907, 787	469: 2, 870, 194	2, 894, 980	2, 881, 208	2, 909, 565
2, 902, 504	2, 895, 980	2, 908, 706	470: 2, 877, 261	2, 904, 584	2, 887, 510	2, 913, 492
2, 902, 505	2, 901, 498	2, 908, 707	471: 2, 868, 829	2, 910, 503	2, 888, 484	2, 918, 494
2, 902, 506	2, 901, 499	2, 908, 708	2, 872, 476	2, 914, 556	2, 894, 025	543: 2, 870, 204
2, 902, 507	2, 901, 500	2, 908, 709	2, 876, 251	2, 915, 551	2, 899, 462	2, 871, 263
2, 903, 473	2, 901, 501	2, 909, 555	2, 882, 294	2, 870, 196	2, 899, 463	2, 875, 245
2, 904, 574	2, 907, 786	2, 909, 556	2, 894, 977	2, 871, 260	2, 899, 463	2, 877, 267
2, 905, 703	2, 910, 497	2, 909, 557	2, 895, 927	2, 871, 261	2, 882, 303	2, 882, 303
2, 906, 764	2, 910, 498	2, 909, 558	2, 905, 706	2, 891, 092	2, 881, 209	2, 882, 304
2, 906, 765	456: 2, 883, 410	2, 909, 559	2, 914, 552	2, 891, 093	2, 884, 448	2, 882, 305
2, 906, 766	2, 889, 351	2, 910, 499	472: 2, 874, 180	2, 891, 989	2, 885, 434	2, 882, 306
2, 906, 767	2, 894, 971	2, 910, 500	2, 882, 295	2, 894, 981	2, 890, 243	2, 882, 307
2, 907, 782	2, 900, 404	2, 910, 501	2, 882, 296	2, 894, 982	2, 891, 992	2, 882, 308
2, 907, 783	2, 913, 475	2, 911, 430	2, 909, 561	2, 894, 983	2, 899, 464	2, 882, 309
2, 907, 784	457: 2, 884, 436	2, 911, 431	473: 2, 874, 181	2, 897, 231	2, 904, 587	2, 882, 310
2, 907, 785	2, 886, 585	2, 911, 435	2, 878, 278	2, 911, 436	2, 905, 709	2, 882, 311
2, 908, 698	458: 2, 909, 554	2, 912, 450	2, 888, 482	2, 912, 458	2, 906, 774	2, 882, 312
2, 908, 699	459: 2, 884, 437	2, 912, 451	474: 2, 891, 090	2, 918, 493	2, 916, 514	2, 882, 313
2, 908, 700	460: 2, 871, 254	2, 912, 452	2, 900, 410	2, 871, 262	516: 2, 884, 449	2, 882, 314
2, 908, 701	461: 2, 867, 645	2, 913, 476	2, 918, 491	2, 876, 254	2, 907, 790	2, 882, 315
2, 909, 548	2, 867, 646	2, 913, 477	475: 2, 867, 650	2, 877, 264	518: 2, 867, 654	2, 882, 316
2, 910, 495	2, 868, 827	2, 915, 546	2, 867, 651	2, 881, 205	2, 873, 294	2, 882, 317
2, 911, 426	2, 870, 186	2, 915, 547	2, 868, 830	2, 882, 297	2, 878, 281	2, 883, 422
2, 911, 427	2, 870, 187	2, 916, 508	2, 871, 256	2, 882, 298	2, 881, 210	2, 884, 452
2, 913, 471	2, 870, 188	2, 916, 509	2, 873, 292	2, 882, 299	2, 884, 453	2, 886, 593
2, 913, 472	2, 870, 189	2, 916, 510	2, 875, 237	2, 882, 300	2, 885, 435	2, 888, 486
2, 913, 473	2, 870, 190	2, 917, 533	2, 876, 252	2, 886, 591	2, 890, 244	2, 900, 414
2, 913, 474	2, 870, 191	2, 918, 488	2, 876, 253	2, 889, 357	2, 895, 988	2, 900, 414
2, 913, 475	2, 870, 192	2, 919, 288	2, 877, 262	2, 890, 241	2, 917, 541	2, 904, 588
2, 914, 548	2, 872, 473	462: 2, 872, 474	2, 879, 288	2, 891, 990	519: 2, 868, 818	2, 911, 439
2, 914, 549	2, 875, 229	2, 875, 236	2, 879, 289	2, 891, 991	2, 886, 592	2, 919, 291
2, 915, 543	2, 875, 230	2, 878, 256	2, 880, 230	2, 903, 479	2, 889, 363	544: 2, 884, 454
2, 915, 544	2, 875, 231	2, 880, 227	2, 883			



551: 2,867,658	570.9: 2,884,457	604: 2,912,464	615: 2,879,305	644: 2,885,447	653.8: 2,908,724	669: 2,906,787
2,892,869	571: 2,901,509	2,919,292	2,853,429	2,888,493	654: 2,877,276	2,909,573
2,894,028	573: 2,876,263	2,867,664	2,885,443	2,894,041	2,879,310	2,916,531
2,905,713	575: 2,913,495	2,867,665	2,901,514	2,905,724	2,879,311	670: 2,889,381
2,917,543	577: 2,880,240	2,868,840	2,919,293	2,917,551	2,888,494	2,918,503
552: 2,867,659	2,887,514	2,877,272	615.5: 2,915,560	645: 2,874,196	2,888,495	671: 2,867,674
2,872,482	2,891,994	2,879,301	617: 2,872,488	2,884,465	2,890,250	2,870,229
2,867,660	2,892,871	2,879,302	2,907,796	2,886,603	2,894,043	2,880,250
553: 2,870,205	578: 2,886,597	2,880,242	2,917,549	2,876,267	2,898,383	2,881,227
2,873,295	2,894,034	2,880,243	618: 2,881,220	2,883,435	2,905,726	2,881,228
2,875,246	2,901,510	2,882,321	2,898,379	2,898,381	2,911,450	2,882,325
2,876,260	580: 2,884,458	2,884,461	2,905,723	648: 2,879,309	2,912,470	2,883,438
2,877,268	2,891,094	2,886,599	2,908,720	2,881,223	2,912,471	2,883,439
2,878,284	2,894,035	2,889,370	2,910,510	2,889,376	2,914,575	2,883,440
2,878,285	2,894,036	2,891,997	2,915,561	2,900,366	2,914,576	2,884,469
2,878,286	2,894,988	2,892,873	2,915,562	2,900,419	2,915,565	2,886,609
2,878,287	583: 2,867,662	2,900,416	2,916,523	2,900,420	2,919,296	2,887,518
2,878,288	2,870,207	2,902,517	619: 2,872,489	2,902,520	2,875,255	2,887,519
2,885,438	2,881,207	2,905,717	2,882,322	2,904,597	2,877,277	2,887,520
2,894,986	2,882,319	2,912,465	2,894,993	2,904,598	2,896,000	2,896,001
2,904,589	2,894,037	2,912,466	2,897,242	2,904,599	2,889,380	2,897,246
2,915,553	2,901,511	2,912,467	2,909,569	2,905,725	2,908,725	2,904,607
555: 2,892,870	2,901,512	2,913,498	2,914,570	2,908,723	658: 2,883,436	2,908,788
2,913,493	2,908,714	2,916,518	2,917,550	2,911,446	2,898,384	2,908,728
2,916,516	2,915,556	2,917,547	2,919,294	2,911,447	2,900,424	2,908,729
556: 2,915,554	2,917,545	2,918,498	620: 2,872,490	2,911,448	2,913,502	2,909,574
557: 2,872,483	584: 2,871,766	607: 2,870,215	2,885,444	2,914,571	660: 2,868,852	2,909,575
2,879,292	2,875,248	2,870,216	2,886,601	2,914,572	2,868,853	2,910,514
2,908,712	2,884,459	2,878,293	2,889,372	2,917,552	2,910,515	2,910,515
558: 2,874,188	2,885,441	608: 2,894,039	2,900,417	2,918,500	2,916,527	2,914,580
2,874,189	2,899,468	2,894,991	621: 2,881,221	649: 2,886,604	662: 2,870,225	2,915,568
2,886,594	2,901,513	2,904,595	2,881,222	2,895,997	2,905,727	2,916,532
2,895,991	2,913,496	2,914,566	2,883,430	2,897,553	664: 2,892,875	2,918,504
2,901,507	586: 2,868,838	609: 2,868,841	2,889,373	650: 2,880,246	2,881,224	672: 2,880,251
2,906,777	2,870,208	2,872,486	2,889,374	2,881,224	2,914,578	2,907,800
2,917,544	2,871,267	2,874,192	2,910,511	2,886,605	2,915,566	2,918,505
559: 2,867,661	2,873,296	2,875,250	622: 2,868,844	2,886,606	666: 2,867,670	673: 2,867,675
2,871,264	2,875,249	2,903,484	623: 2,901,515	2,894,994	2,867,671	2,867,676
2,871,265	2,879,295	2,905,718	624: 2,874,193	2,895,998	2,874,199	2,881,229
2,875,247	2,882,320	2,905,719	2,877,273	2,912,469	2,875,256	2,900,427
2,878,289	2,883,424	2,905,720	2,899,470	2,914,573	2,882,324	2,867,677
2,879,293	2,883,425	2,905,721	2,900,418	2,914,574	2,884,468	2,880,252
2,886,595	2,891,995	2,908,716	2,903,487	651: 2,873,299	2,886,608	2,890,253
2,895,992	2,894,989	2,908,717	2,915,563	2,874,197	2,887,517	2,894,046
2,895,993	2,898,374	2,910,506	2,916,524	2,889,377	2,890,251	2,898,388
2,897,234	2,898,375	2,910,507	625: 2,906,780	2,894,995	2,891,099	2,901,518
2,905,714	2,912,462	2,910,508	627: 2,888,491	2,906,781	2,891,100	674: 2,870,230
2,911,440	2,916,517	2,910,509	628: 2,884,463	2,899,471	2,894,997	2,873,300
2,911,441	587: 2,871,268	2,912,468	631: 2,868,845	2,907,797	2,896,002	2,874,200
2,915,555	2,877,271	2,914,567	2,871,272	2,898,385	2,898,385	2,875,257
561: 2,874,190	2,918,495	2,914,568	2,891,096	652.5: 2,868,851	2,898,386	2,876,268
2,898,373	590: 2,870,209	2,914,569	2,891,097	2,874,198	2,899,473	2,878,261
2,909,566	2,881,218	2,916,519	2,867,666	2,878,296	2,900,425	2,880,253
2,912,459	2,898,376	2,868,842	2,882,323	2,878,297	2,900,426	2,881,230
562: 2,876,261	591: 2,879,296	2,868,846	2,894,040	2,887,516	2,903,490	2,882,326
2,876,262	2,879,297	2,883,427	2,898,380	2,900,421	2,903,491	2,883,441
2,887,513	2,891,996	2,897,239	2,911,442	2,903,488	2,903,492	2,884,470
2,901,508	2,892,872	2,898,377	632: 2,877,274	2,904,600	2,908,726	2,894,471
2,904,590	2,905,715	2,899,469	2,878,295	2,906,782	2,909,572	2,885,453
2,912,460	2,906,778	2,915,557	2,884,462	2,906,783	2,912,472	2,885,454
2,912,461	592: 2,868,839	2,915,558	2,886,604	2,910,512	2,913,503	2,886,610
563: 2,885,439	2,869,367	611: 2,875,251	2,911,443	2,911,449	2,913,504	2,888,496
2,886,596	2,889,367	2,879,303	2,879,306	2,917,554	2,916,528	2,889,382
2,894,987	2,897,237	2,879,304	2,891,098	2,917,555	2,917,514	2,890,254
2,907,793	2,907,794	2,889,371	2,901,516	2,919,295	665.5: 2,867,672	2,890,255
564: 2,872,484	593: 2,867,663	2,894,992	2,902,519	2,875,253	2,915,567	2,892,001
2,872,485	2,870,210	2,897,240	2,911,444	2,880,247	667: 2,898,387	2,894,047
2,877,269	2,870,211	2,897,241	2,871,273	2,880,248	2,906,784	2,894,048
2,878,290	2,870,212	2,898,378	2,879,307	2,884,466	2,910,513	2,898,389
2,894,029	2,888,487	2,898,379	2,888,462	2,898,382	2,867,673	2,900,428
2,894,030	2,889,368	2,873,297	2,888,492	2,904,601	2,868,854	2,905,730
2,895,994	2,904,592	2,881,219	2,911,445	2,904,603	2,870,226	2,906,789
2,902,514	2,904,593	2,883,428	2,907,798	2,907,798	2,870,227	2,909,576
2,908,713	2,913,497	2,884,462	636: 2,873,298	2,909,570	2,872,492	2,910,516
2,910,505	2,917,546	2,886,600	637: 2,870,223	2,916,526	2,878,259	2,910,517
566: 2,870,206	594: 2,871,269	2,887,515	2,895,996	653.1: 2,885,448	2,878,260	2,910,518
2,880,238	2,879,298	2,888,489	2,916,525	653.3: 2,884,467	2,879,312	2,914,581
2,882,318	2,889,369	2,902,518	2,874,194	2,889,378	2,880,249	2,914,582
2,883,423	596: 2,883,426	2,903,485	2,876,265	2,894,996	2,881,226	2,914,583
2,885,440	2,885,442	2,903,486	2,879,308	2,902,521	2,883,437	2,914,584
2,890,248	2,891,095	2,908,718	2,880,244	2,904,602	2,885,451	2,914,585
2,894,031	597: 2,874,191	2,908,719	2,897,243	2,917,556	2,885,452	2,914,586
2,894,032	598: 2,879,299	2,909,568	2,904,596	2,917,557	2,890,252	2,915,569
2,903,482	2,890,249	2,913,499	2,908,721	653.4: 2,885,449	2,892,876	2,916,533
2,914,560	2,894,038	2,915,559	2,915,564	2,889,379	2,897,245	2,917,562
567.5: 2,897,235	2,902,515	2,916,521	639: 2,868,848	2,892,000	2,901,517	676: 2,871,275
567.6: 2,880,239	2,904,594	2,870,217	2,872,491	2,900,422	2,904,604	2,880,254
2,894,033	2,914,565	2,870,218	2,918,499	2,917,558	2,904,605	2,899,474
2,895,995	599: 2,888,488	2,870,219	2,885,445	653.5: 2,877,275	2,905,728	2,901,519
2,913,494	2,902,516	2,871,271	2,876,266	2,886,607	2,905,729	2,908,730
569: 2,889,366	600: 2,871,270	2,872,487	2,883,431	2,894,042	2,906,785	2,909,577
2,909,567	2,878,292	2,888,490	2,908,722	2,894,043	2,906,786	2,910,519
2,877,270	2,897,238	2,891,999	643: 2,868,849	2,900,423	2,907,799	2,912,473
2,878,291	2,903,483	2,905,722	2,885,446	2,903,489	2,908,727	677: 2,872,493
2,879,294	2,906,779	2,907,795	2,892,874	2,909,571	2,911,451	2,885,455
2,881,216	2,918,497	2,913,500	2,897,244	653.6: 2,917,559	2,914,579	2,886,611
2,914,561	601: 2,870,213	2,916,522	2,913,501	653.7: 2,870,224	2,916,529	2,892,877
2,914,562	2,905,716	2,917,548	644: 2,867,669	2,885,427	2,916,530	2,894,049
2,914,563	603: 2,870,214	2,867,667	2,874,195	2,894,044	2,917,560	2,906,790
2,914,564	2,884,460	2,870,220	2,880,245	2,917,561	2,918,502	2,908,731
570.5: 2,897,236	2,908,715	2,870,221	2,883,432	2,875,254	2,870,228	2,909,578
2,904,591	604: 2,879,300	2,875,252	2,883,433	2,885,450	2,879,313	2,911,452
570.6: 2,900,415	2,884,990	2,878,294	2,883,434	2,895,999	2,904,606	2,913,505
570.8: 2,884,455				2,899,472		2,917,563



## Class 260—Con.

678: 2,875,258	683.65: 2,918,511	64: 2,877,004	20: 2,889,141	53: 2,874,950	15: 2,871,007	9: 2,882,040
2,908,732	2,917,566	2,913,233	2,890,872	2,882,033	2,873,108	2,895,727
2,912,474	683.68: 2,871,277	65: 2,916,271	2,912,232		16: 2,878,008	2,900,181
2,914,587	2,905,736	66: 2,875,991	26: 2,872,170		20: 2,885,199	11: 2,891,786
679: 2,868,855	2,915,571	69: 2,871,002	2,906,515		21: 2,878,009	2,893,723
2,868,856	683.73: 2,909,582	2,873,956	2,867,427	1: 2,869,851	2,885,200	2,901,240
2,868,857	2,909,583	2,873,957	2,868,532	2,869,852	2,885,201	2,901,241
2,870,231	723: 2,882,327	2,882,027	2,877,006	2,873,103	2,890,038	2,917,304
2,875,259	2,915,571	2,894,735	2,879,981	2,875,998	2,901,236	15: 2,877,010
2,878,262	757: 2,888,502	2,910,280	2,872,171	2,878,006	2,884,240	2,885,202
2,881,231	762: 2,898,391	2,882,028	2,891,778	2,879,053	2,885,204	2,893,104
2,884,472	769: 2,885,457	2,882,029	2,903,253	2,883,176	2,901,242	2,903,256
2,886,612	770: 2,892,004	2,894,736	Re.24,732	2,888,256	2,903,256	2,905,459
2,905,731	771: 2,917,567	2,899,185	2,872,172	2,899,190	2,910,289	2,896,439
2,907,801	773: 2,868,859	2,868,523	2,873,960	2,907,560	2,915,305	16: 2,896,939
2,907,802	775: 2,909,584	2,883,169	2,890,035	2,909,364	2,880,988	17: 2,882,041
2,907,803	785: 2,918,512	2,906,513	2,890,873	2,915,304	2,886,306	2,911,208
2,907,804	2,918,513	2,907,557	2,893,714	2,916,279	2,879,984	18: 2,874,956
2,908,733	788: 2,883,442	2,913,234	2,899,187	2,917,300	2,886,308	20: 2,877,011
2,912,475	793: 2,875,260	2,913,235	2,900,178	3: 2,880,984	2,890,039	2,886,310
2,916,534	810: 2,880,256	2,880,979	2,901,233	2,905,457	2,904,327	2,887,312
680: 2,873,301	2,888,503	92: 2,879,979	2,907,559	6: 2,903,255	2,906,520	2,896,940
2,877,278	2,903,493	95: 2,867,425	2,916,275	8: 2,890,877	32: 2,900,180	2,916,282
2,884,473	2,905,737	2,911,204		12: 2,898,100	33: 2,878,011	22: 2,880,990
2,886,613	815: 2,888,504	2,888,505		13: 2,884,238	2,891,781	31: 2,902,275
2,886,614				2,909,365	34: 2,869,857	33: 2,904,329
2,888,497				2,907,560	2,872,179	34: 2,882,042
2,888,498				2,906,518	2,872,180	35: Re.24,654
2,888,499				15: 2,873,961	2,879,984	2,883,180
2,889,383	2: 2,882,026			2,909,366	2,886,308	45: 2,890,040
2,894,998	7: 2,917,292			2,872,177	2,890,039	47: 2,882,043
2,900,429	9: 2,918,265			18: 2,904,326	2,893,715	48: 2,884,241
2,901,520	13: 2,879,045			19: 2,873,105	2,893,716	49: 2,872,181
2,902,522	14: 2,872,167			20: 2,886,300	2,906,521	2,873,962
2,906,791	2,886,298					2,890,041
2,911,453	15: 2,892,621					2,891,787
2,914,588	16: 2,883,167					2,896,941
2,915,570	2,885,192					54: 2,905,460
681: 2,910,520	18: 2,890,029					57: 2,892,623
681.5: 2,870,232	2,916,268					2,893,724
2,884,474	21: 2,869,844					2,919,126
2,887,520	23: Re.24,742					57.1: 2,873,110
2,900,430	2,867,422					2,900,182
2,905,732	2,868,520					58: 2,872,182
2,914,589	2,871,001					61: 2,892,624
682: 2,868,858	2,875,990					64: 2,868,536
2,877,279	2,877,002					2,868,537
683: 2,881,232	2,879,046					2,873,963
2,886,615	2,890,030					2,873,964
2,889,384	2,890,031					2,879,985
2,890,256	2,893,711					2,879,986
2,899,475	2,898,095					2,882,039
2,905,733	2,913,231					2,883,181
2,905,734	2,916,269					2,891,788
2,906,792	24: 2,887,307					2,892,625
2,909,579	2,889,140					2,892,626
2,911,454	2,899,183					2,905,461
2,917,564	2,906,511					2,909,368
683.15: 2,871,276	2,906,512					2,915,307
2,881,233	2,910,279					2,891,785
2,881,234	30: 2,872,168					2,893,717
2,886,616	2,877,995					2,893,718
2,889,385	2,890,870					2,893,719
2,892,002	2,905,454					2,893,720
2,897,247	2,915,302					2,893,721
2,902,523	2,919,120					2,893,722
2,904,608	34: 2,877,996					2,894,740
2,906,793	2,879,047					2,894,741
2,906,794	2,879,048					2,896,937
2,907,805	2,914,307					2,898,102
2,908,734	2,915,303					2,899,193
2,909,580	35: 2,896,927					2,899,194
2,913,506	36: 2,874,944					2,901,237
2,918,507	2,887,308					2,901,238
2,918,508	2,905,455					2,902,273
683.3: 2,918,506	37: 2,883,168					2,904,328
683.4: 2,905,735	2,893,712					2,905,458
683.41: 2,914,590	2,898,096					2,906,522
683.43: 2,906,795	2,903,250					2,906,523
2,909,581	2,911,203					2,906,524
683.44: 2,898,390	2,916,270					2,907,562
2,913,507	39: 2,885,193					2,907,563
683.48: 2,881,235	2,901,229					2,908,491
2,890,257	2,917,294					2,911,207
2,894,999	2,918,265					2,912,233
2,906,796	40: 2,913,232					2,913,240
2,910,521	41: 2,868,521					2,914,312
2,910,522	2,877,997					2,914,313
683.49: 2,914,591	2,877,998					2,916,280
683.53: 2,897,248	2,890,871					2,917,302
683.58: 2,894,050	2,892,622					2,918,271
683.61: 2,888,500	2,899,184					2,918,272
2,896,707	43: 2,867,423					2,918,272
683.62: 2,914,592	2,894,734					2,906,525
683.63: 2,880,255	44: 2,895,723					2,883,179
2,888,501	50: 2,868,522					2,912,234
2,892,003	2,887,309					2,912,239
2,906,798	2,890,032					2,913,235
2,910,523	52: 2,867,424					2,913,236
2,913,508	2,880,978					2,913,237
2,917,565	2,885,194					2,913,238
2,918,509	59: 2,908,488					2,913,239
2,918,510	62: 2,877,003					2,913,240
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66: 2,911,210 2,917,306	<b>Class 271</b>	44: 2,906,529 2,919,130	60: 2,886,317 2,914,326	106.5: 2,873,973 2,873,974	9: 2,893,738 2,905,475	4: 2,890,056 2,906,540
72: 2,893,726	2.1: 2,867,435	45: 2,880,997 2,880,998	62: 2,881,002 2,882,052	2,874,968 2,880,000	10: 2,868,545 2,868,546	2,910,301 2,911,222
74: 2,869,862	2,872,187	2,879,992	66: 2,882,052 2,918,281	2,882,055 2,886,322	2,869,876 2,873,977	2,911,223 2,915,316
2,911,211	2,879,993	49: 2,885,261 2,893,731	73: 2,872,191 2,869,872	2,887,319 2,888,264	2,878,024 2,880,003	5: 2,871,022 2,894,757
96: 2,903,257	2,904,332	51: 2,873,968 2,887,317	75: 2,869,872 2,909,370	2,891,794 2,904,338	2,884,255 2,885,208	2,909,374 2,869,880
98: 2,879,988	2.18: 2,876,005	2,880,993	78: 2,874,963 2,890,049	2,905,474 2,909,372	2,886,327 2,887,327	6: 2,869,880 2,878,026
105: 2,899,195	2,880,993	2,911,215	79: 2,871,017 2,909,371	2,912,247 2,918,286	2,891,797 2,893,739	7: 2,876,955 2,896,955
110: 2,890,882	2,917,308	52: 2,880,999 2,910,293	81: 2,918,282 2,919,134	2,905,471 2,886,323	2,898,114 2,898,115	9: 2,893,743 2,867,440
111: 2,893,728	2.2: 2,872,188	2,888,259	<b>Class 273</b>	108: 2,882,055 2,894,747	2,898,116 2,898,117	16: 2,867,440 2,869,881
121: 2,883,183	2,895,732	2,907,565	1: 2,868,542 2,869,873	109: 2,882,055 2,894,747	2,898,116 2,898,117	2,878,027 2,898,118
2,918,275	2.3: 2,869,865	2,871,011	2,872,192	118: 2,882,055 2,894,747	2,898,116 2,898,117	2,878,027 2,898,118
124: 2,872,184	2,871,011	2,871,012	2,881,003	119: 2,869,874 2,872,193	2,898,116 2,898,117	2,878,027 2,898,118
2,901,244	2,876,004	2,876,004	2,884,248	120: 2,899,206 2,882,057	2,898,116 2,898,117	2,878,027 2,898,118
2,902,277	2,877,012	2,879,061	2,893,733	125: 2,882,057 2,878,022	2,898,116 2,898,117	2,878,027 2,898,118
2,907,564	2,879,061	2,879,062	2,904,336	126: 2,878,022 2,887,320	2,898,116 2,898,117	2,878,027 2,898,118
2,914,315	2,879,062	2,879,063	2,916,287	2,900,189 2,914,327	2,898,116 2,898,117	2,878,027 2,898,118
125: 2,911,212	2,879,063	2,879,063	2,872,192	127: 2,872,194 2,875,023	2,898,116 2,898,117	2,878,027 2,898,118
126: 2,876,003	2,882,046	2,883,186	2,881,003	128: 2,875,023 2,891,795	2,898,116 2,898,117	2,878,027 2,898,118
2,900,183	2,883,186	2,889,147	2,884,249	129: 2,891,795 2,905,472	2,898,116 2,898,117	2,878,027 2,898,118
<b>Class 269</b>	2,890,045	2,892,628	2,912,243	130: 2,877,019 2,898,108	2,898,116 2,898,117	2,878,027 2,898,118
104: 2,883,184	2,896,944	2,896,944	2,915,310	131: 2,899,206 2,882,057	2,898,116 2,898,117	2,878,027 2,898,118
109: 2,901,245	2,899,199	2,899,199	2,876,008	132: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
2,914,316	2,916,285	2,916,285	2,876,009	133: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
116: 2,881,966	2,916,285	2,916,285	2,904,334	134: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
117: 2,914,317	2,878,014	2,878,014	2,881,000	135: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
123: 2,919,128	2,878,015	2,878,015	2,882,048	136: 2,880,001 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
126: 2,889,145	2,883,187	2,883,187	2,901,250	137: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
127: 2,900,184	2,899,200	2,899,200	2,867,438	138: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
2,908,492	2,899,200	2,899,200	2,878,017	139: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
130: 2,899,196	2,867,436	2,867,436	2,882,049	140: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
132: 2,879,989	2,868,540	2,868,540	2,898,106	141: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
134: 2,910,291	2,868,541	2,868,541	2,914,324	142: 2,888,265 2,888,265	2,898,116 2,898,117	2,878,027 2,898,118
136: 2,904,331	2,869,866	2,869,866	2,905,467	143: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
145: 2,890,043	2,873,117	2,873,117	2,872,190	144: 2,873,976 2,873,976	2,898,116 2,898,117	2,878,027 2,898,118
155: 2,903,258	2,874,961	2,874,961	2,884,245	147: 2,879,066 2,894,748	2,898,116 2,898,117	2,878,027 2,898,118
156: 2,879,059	2,895,729	2,895,729	2,892,631	148: 2,894,748 2,896,951	2,898,116 2,898,117	2,878,027 2,898,118
2,903,259	2,888,260	2,888,260	2,884,246	2,906,535 2,908,501	2,898,116 2,898,117	2,878,027 2,898,118
163: 2,890,883	2,890,046	2,890,046	2,904,335	2,911,220 2,911,220	2,898,116 2,898,117	2,878,027 2,898,118
185: 2,884,242	2,894,743	2,894,743	2,904,336	152.1: 2,911,220 2,911,220	2,898,116 2,898,117	2,878,027 2,898,118
2,913,241	2,904,333	2,904,333	2,910,294	153: 2,876,012 2,905,474	2,898,116 2,898,117	2,878,027 2,898,118
188: 2,879,990	4: 2,883,183	2,883,183	2,883,191	155: 2,883,195 2,918,287	2,898,116 2,898,117	2,878,027 2,898,118
204: 2,899,197	5: 2,901,247	2,901,247	2,890,885	156: 2,918,287 2,885,207	2,898,116 2,898,117	2,878,027 2,898,118
<b>Class 270</b>	2,905,465	2,905,465	2,916,286	2,886,324 2,886,325	2,898,116 2,898,117	2,878,027 2,898,118
5: 2,887,312	2,914,321	2,914,321	<b>Class 272</b>	2,886,325 2,900,190	2,898,116 2,898,117	2,878,027 2,898,118
12: 2,873,112	6: 2,896,946	2,896,946	1: 2,871,014 2,871,015	2,901,256 2,892,633	2,898,116 2,898,117	2,878,027 2,898,118
2,873,113	2,912,239	2,912,239	2,886,315	73: 2,878,020 2,901,252	2,898,116 2,898,117	2,878,027 2,898,118
31: 2,908,493	7: 2,882,047	2,882,047	2,888,263	79: 2,882,052 2,876,010	2,898,116 2,898,117	2,878,027 2,898,118
32: 2,914,318	8: 2,918,278	2,918,278	2,906,531	81.2: 2,876,010 2,879,065	2,898,116 2,898,117	2,878,027 2,898,118
37: 2,869,863	10: 2,877,014	2,877,014	2,908,492	81.3: 2,873,977 2,873,977	2,898,116 2,898,117	2,878,027 2,898,118
2,895,730	2,880,994	2,880,994	2,883,198	81.4: 2,877,018 2,876,011	2,898,116 2,898,117	2,878,027 2,898,118
2,917,307	2,906,528	2,906,528	2,908,499	82: 2,876,011 2,878,021	2,898,116 2,898,117	2,878,027 2,898,118
40: 2,873,965	2,915,309	2,915,309	2,912,244	85: 2,884,253 2,893,734	2,898,116 2,898,117	2,878,027 2,898,118
41: 2,868,539	11: 2,878,016	2,878,016	2,907,568	2,903,264 2,917,310	2,898,116 2,898,117	2,878,027 2,898,118
2,908,494	2,879,994	2,879,994	2,895,733	86: 2,879,999 2,918,284	2,898,116 2,898,117	2,878,027 2,898,118
52: 2,869,864	2,905,466	2,905,466	2,919,131	88: 2,883,193 2,886,318	2,898,116 2,898,117	2,878,027 2,898,118
54: 2,903,260	13: 2,877,015	2,877,015	2,885,206	2,901,253 2,901,253	2,898,116 2,898,117	2,878,027 2,898,118
55: 2,883,185	14: 2,880,995	2,880,995	2,901,251	89: 2,901,296 2,874,966	2,898,116 2,898,117	2,878,027 2,898,118
2,891,790	18: 2,895,733	2,895,733	2,907,569	93: 2,874,966 2,886,319	2,898,116 2,898,117	2,878,027 2,898,118
2,892,627	19: 2,887,315	2,887,315	2,912,241	2,906,534 2,873,971	2,898,116 2,898,117	2,878,027 2,898,118
57: 2,911,213	20: 2,912,240	2,912,240	2,887,319	96: 2,886,320 2,882,054	2,898,116 2,898,117	2,878,027 2,898,118
58: 2,872,185	21: 2,893,729	2,893,729	2,907,566	98: 2,903,265 2,917,311	2,898,116 2,898,117	2,878,027 2,898,118
2,873,114	22: 2,877,016	2,877,016	2,912,242	100: 2,917,311 2,905,468	2,898,116 2,898,117	2,878,027 2,898,118
2,873,115	2,912,241	2,912,241	2,912,242	101: 2,912,246 2,873,972	2,898,116 2,898,117	2,878,027 2,898,118
2,873,966	26: 2,869,867	2,869,867	2,913,243	101.2: 2,873,972 2,899,205	2,898,116 2,898,117	2,878,027 2,898,118
2,879,991	2,871,013	2,871,013	2,913,244	102: 2,890,051 2,899,204	2,898,116 2,898,117	2,878,027 2,898,118
2,885,203	2,890,047	2,890,047	2,914,323	2,900,188 2,874,967	2,898,116 2,898,117	2,878,027 2,898,118
2,914,319	2,893,730	2,893,730	2,901,249	102.1: 2,874,967 2,892,052	2,898,116 2,898,117	2,878,027 2,898,118
61: 2,889,146	2,904,323	2,904,323	2,874,962	102.2: Re.24,722 2,898,111	2,898,116 2,898,117	2,878,027 2,898,118
2,906,527	2,883,189	2,883,189	2,883,190	2,916,289 2,901,254	2,898,116 2,898,117	2,878,027 2,898,118
2,918,276	2,883,190	2,883,190	2,911,216	103: 2,889,149 2,886,321	2,898,116 2,898,117	2,878,027 2,898,118
2,900,185	2,912,242	2,912,242	2,912,243	105.3: 2,879,999 2,918,285	2,898,116 2,898,117	2,878,027 2,898,118
68: 2,873,967	28: 2,918,279	2,918,279	2,882,050	105.6: 2,883,194 2,905,469	2,898,116 2,898,117	2,878,027 2,898,118
2,899,198	30: 2,902,278	2,902,278	2,912,244	2,905,469 2,911,219	2,898,116 2,898,117	2,878,027 2,898,118
2,901,248	31: 2,869,868	2,869,868	2,912,245	<b>Class 274</b>	2,898,116 2,898,117	2,878,027 2,898,118
2,914,320	32: 2,908,496	2,908,496	2,913,244	1: 2,881,004 2,890,887	2,898,116 2,898,117	2,878,027 2,898,118
69: 2,872,186	2,914,323	2,914,323	2,913,245	2,896,952 2,898,111	2,898,116 2,898,117	2,878,027 2,898,118
71: 2,891,791	33: 2,919,129	2,919,129	2,913,246	2,898,112 2,906,536	2,898,116 2,898,117	2,878,027 2,898,118
73: 2,910,292	35: 2,907,567	2,907,567	2,913,247	2,867,439 2,868,544	2,898,116 2,898,117	2,878,027 2,898,118
2,918,277	36: 2,869,869	2,869,869	2,913,248	2,871,019 2,893,737	2,898,116 2,898,117	2,878,027 2,898,118
79: 2,890,044	2,876,006	2,876,006	2,913,249	2,898,113 2,900,191	2,898,116 2,898,117	2,878,027 2,898,118
81: 2,871,010	2,887,316	2,887,316	2,913,250	2,910,298 2,910,299	2,898,116 2,898,117	2,878,027 2,898,118
2,912,238	39: 2,892,629	2,892,629	2,913,251	<b>Class 275</b>	2,898,116 2,898,117	2,878,027 2,898,118
83: 2,885,204	41: 2,880,996	2,880,996	2,913,252	2: 2,871,020 2,876,013	2,898,116 2,898,117	2,878,027 2,898,118
84: 2,896,942	44: 2,867,437	2,867,437	2,913,			



## Class 280—Con.

11. 12: 2,867,445  
2,917,315  
11. 13: 2,908,506  
2,914,335  
2,918,293  
11. 16: 2,904,342  
11. 19: 2,901,259  
11. 2: 2,872,201  
2,899,209  
11. 23: 2,909,375  
11. 26: 2,868,554  
11. 35: 2,867,446  
2,867,447  
2,868,555  
2,879,071  
2,899,211  
2,899,211  
2,907,574  
12: 2,898,122  
13: 2,883,204  
16: 2,883,205  
2,905,479  
22: 2,894,760  
22: 2,873,122  
2,883,206  
2,893,746  
2,901,260  
30: 2,876,016  
31: 2,902,286  
33. 99: 2,868,556  
2,871,024  
2,882,062  
2,889,151  
2,890,057  
2,890,058  
2,890,059  
2,891,801  
2,896,959  
2,898,123  
2,903,269  
2,906,542  
2,911,227  
2,916,291  
2,918,294  
34: 2,900,194  
2,905,480  
35: 2,878,028  
2,919,138  
36: 2,867,448  
2,872,202  
2,880,011  
2,886,337  
2,891,802  
2,891,803  
2,896,960  
2,901,261  
2,911,228  
2,913,249  
2,918,295  
37: 2,903,270  
38: 2,899,212  
2,902,287  
40: 2,879,072  
2,884,257  
2,886,338  
41: 2,872,003  
2,873,123  
2,901,262  
2,917,316  
2,918,296  
42: 2,879,073  
2,885,215  
2,886,339  
2,890,060  
2,914,336  
2,918,297  
43: 2,879,074  
2,882,063  
2,915,318  
43. 18: 2,904,343  
2,905,481  
43. 20: 2,907,575  
2,902,288  
2,918,298  
43. 24: 2,917,317  
44: 2,869,887  
2,872,204  
2,878,029  
2,879,075  
2,882,064  
2,885,216  
2,893,747  
2,894,761  
46: 2,874,971  
47: 2,876,017  
47. 1: 2,904,344  
47. 12: 2,890,890  
47. 13: 2,868,557  
2,868,558  
2,899,213  
2,904,345  
2,910,304  
2,916,292
47. 17: 2,869,885  
2,881,007  
47. 18: 2,867,449  
2,869,886  
47. 19: 2,880,012  
2,883,207  
2,893,749  
47. 24: 2,905,482  
47. 26: 2,883,731  
2,889,152  
2,890,061  
2,896,961  
2,918,299  
47. 3: 2,893,748  
47. 31: 2,901,263  
47. 33: 2,868,559  
47. 39: 2,886,340  
62: 2,909,377  
63: 2,896,962  
79. 1: 2,909,378  
79. 2: 2,890,891  
79. 3: 2,916,293  
80: 2,918,300  
81: 2,869,888  
2,902,289  
2,912,250  
2,918,301  
86: 2,885,217  
87: 2,873,979  
2,899,214  
87. 01: 2,872,205  
2,913,250  
91: 2,901,264  
2,901,265  
2,915,321  
92: 2,874,972  
2,890,892  
93: 2,889,153  
2,916,294  
95: 2,878,030  
2,884,258  
2,900,195  
2,908,507  
96: 2,911,229  
96. 1: 2,900,196  
2,913,251  
2,916,295  
96. 2: 2,871,025  
2,872,206  
2,873,980  
2,882,065  
2,882,066  
2,886,341  
2,890,062  
2,890,893  
2,892,634  
2,902,290  
2,914,337  
96. 3: 2,895,741  
97: 2,918,302  
103: 2,885,218  
2,890,894  
104: 2,887,322  
2,890,895  
2,893,750  
2,906,543  
2,907,576  
2,911,230  
2,911,231  
2,914,338  
104. 5: 2,869,889  
2,872,207  
2,874,973  
2,877,023  
2,879,076  
2,882,067  
2,888,268  
2,896,963  
2,896,964  
2,900,197  
2,907,577  
2,912,251  
2,912,252  
2,913,252  
106: 2,880,013  
2,892,635  
2,901,266  
2,912,253  
2,915,320  
2,919,139  
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2,876,018  
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109: 2,890,063  
112: 2,880,014  
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2,893,751  
2,903,271  
2,907,578  
116: 2,872,208  
124: 2,869,891  
2,869,892
- 124: 2,869,893  
2,872,209  
2,872,210  
2,873,124  
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2,885,219  
2,887,324  
2,888,270  
2,888,271  
2,888,272  
2,888,273  
2,892,636  
2,893,752  
2,895,742  
2,895,743  
2,895,744  
2,895,745  
2,896,965  
2,902,291  
2,903,272  
2,903,273  
2,904,346  
2,907,579  
2,908,508  
2,910,305  
2,912,254  
2,913,253  
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2,914,339  
2,914,340  
2,915,321  
2,916,296  
2,916,297  
2,916,298  
2,917,319  
2,917,320  
2,918,303  
2,918,304  
2,918,305  
2,918,306  
145: 2,869,894  
2,898,509  
2,909,379  
150: 2,878,031  
2,879,078  
2,880,015  
2,891,804  
2,896,966  
2,902,292  
2,904,347  
2,911,232  
2,917,321  
2,919,140  
2,919,141  
150. 5: 2,885,220  
2,891,805  
2,896,967  
152: 2,888,274  
2,914,341  
2,918,307  
153: 2,892,637  
154. 5: 2,872,211  
2,896,968  
179: 2,876,020  
2,885,221  
2,901,267  
2,903,274  
231: 2,892,638  
234: 2,884,259  
259: 2,916,299  
277: 2,913,255  
281: 2,894,762  
2,908,510  
282: 2,878,032  
289: 2,886,343  
301: 2,912,255  
400: 2,877,024  
404: 2,900,198  
406: 2,872,212  
2,883,208  
2,898,124  
2,906,544  
2,918,308  
407: 2,867,450  
2,868,560  
2,889,154  
2,893,753  
411: 2,869,895  
2,901,268  
415: 2,872,213  
2,911,233  
420: 2,888,275  
421: 2,894,763  
423: 2,871,026  
2,878,033  
2,897,581  
425: 2,871,027  
2,894,764  
426: 2,902,293
- 432: 2,907,582  
2,917,322  
2,918,309  
435: 2,907,583  
436: 2,885,222  
438: 2,908,545  
2,910,306  
444: 2,913,256  
446: 2,879,079  
447: 2,898,125  
449: 2,912,256  
460: 2,892,639  
2,910,307  
2,912,257  
461: 2,873,125  
2,914,342  
462: 2,873,126  
463: 2,878,034  
467: 2,874,975  
2,890,896  
2,898,126  
470: 2,917,323  
472: 2,894,765  
475: 2,882,070  
476: 2,871,028  
477: 2,871,029  
2,873,981  
2,904,348  
478: 2,873,982  
2,879,080  
2,898,127  
2,918,310  
479: 2,867,451  
2,904,349  
2,912,258  
2,916,300  
480: 2,892,640  
481: 2,919,142  
482: 2,878,035  
2,886,344  
2,894,766  
2,906,546  
485: 2,878,036  
489: 2,872,214  
491: 2,880,016  
2,889,155  
2,890,897  
2,896,969  
2,914,343  
2,916,301  
2,916,302  
492: 2,867,452  
2,871,030  
2,890,895  
2,893,756  
495: 2,877,025  
497: 2,919,143  
501: 2,893,753  
502: 2,884,260  
2,887,325  
508: 2,890,898  
510: 2,904,350  
2,918,311  
511: 2,891,806  
2,869,896  
2,874,976  
2,884,261  
2,902,294
- Class 281  
3: 2,887,326  
8: 2,916,303  
15: 2,876,021  
2,878,037  
2,894,767  
2,902,295  
2,907,584  
25: 2,906,547  
33: 2,881,008  
2,883,209  
38: 2,893,754  
44: 2,872,215  
2,876,022  
2,881,009
- Class 282  
3: 2,905,483  
2,917,324  
12: 2,884,262  
15: 2,884,263  
16: 2,873,983  
2,883,210  
2,896,970  
20: 2,869,897  
22: 2,907,585  
27: 2,869,898  
2,886,345  
29: 2,868,561  
2,913,257
- Class 283  
1: 2,887,327  
6: 2,874,977
- 8: 2,912,259  
9: 2,903,276  
18: 2,907,586  
39: 2,903,277  
57: 2,869,899  
68: 2,916,304  
2,917,325
- Class 284  
1: 2,868,563  
2,908,511  
4: 2,896,971  
9: 2,872,216  
2,919,144  
10: 2,879,081  
16: 2,919,145  
17: 2,881,010  
2,898,128  
2,902,286  
2,907,587  
18: 2,881,011  
2,888,276  
2,893,755  
2,905,484  
2,905,485  
19: 2,904,351  
2,905,486  
2,905,487
- Class 285  
5: 2,874,978  
2,916,305  
2,916,306  
6: 2,874,979  
2,879,082  
7: 2,885,223  
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2,899,216  
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21: 2,893,757  
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24: 2,917,326  
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30: 2,881,012  
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31: 2,867,453  
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33: 2,904,353  
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39: 2,894,768  
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41: 2,891,807  
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42: 2,898,129  
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43: 2,904,354  
45: 2,872,217  
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50: 2,896,972  
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53: 2,911,234  
55: 2,878,038  
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58: 2,908,513  
61: 2,917,327  
67: 2,890,066  
81: 2,889,157  
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86: 2,889,158  
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89: 2,919,147  
91: 2,910,310  
93: 2,911,235  
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94: 2,877,026  
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109: 2,871,034
- 110: 2,884,264  
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114: 2,879,083  
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115: 2,885,225  
133: 2,871,035  
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137: 2,876,023  
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140: 2,906,549  
146: 2,908,514  
149: 2,888,277  
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150: 2,915,324  
153: 2,916,310  
158: 2,913,260  
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165: 2,890,067  
166: 2,887,329  
168: 2,887,329  
174: 2,907,591  
175: 2,913,261  
181: 2,869,901  
187: Re. 24,589  
2,900,199  
189: 2,874,980  
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197: 2,884,265  
202: 2,916,311  
219: 2,896,975  
2,907,592  
226: 2,904,356  
227: 2,901,272  
228: 2,873,984  
230: 2,896,976  
231: 2,885,225  
2,898,131  
2,912,262  
233: 2,883,211  
2,913,262  
236: 2,905,488  
238: 2,874,981  
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239: 2,902,298  
2,918,314  
213: 2,868,564  
249: 2,878,039  
255: 2,880,020  
258: 2,902,299  
260: 2,911,237  
269: 2,907,593  
276: 2,915,325  
277: 2,896,977  
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281: 2,901,273  
286: 2,878,040  
2,893,758  
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302: 2,899,218  
308: 2,868,565  
313: 2,888,278  
328: 2,880,021  
332. 3: 2,900,200  
333: 2,909,380  
334: 2,893,759  
341: 2,901,274  
342: 2,873,985  
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345: Re. 24,651  
349: 2,914,347  
354: 2,871,036  
365: 2,910,312  
367: 2,878,041  
368: 2,867,454  
369: 2,872,218  
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371: 2,912,263  
373: 2,903,279  
374: 2,882,073  
408: 2,896,978  
409: 2,882,071  
410: 2,895,748  
415: 2,911,239
- Class 286  
1: 2,876,024  
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5: 2,867,455  
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2,902,300
- Class 287  
14: 2,873,987  
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20: 2,867,459  
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20. 2: 2,883,215  
2,883,216  
2,885,228  
2,890,070
- 5: 2,915,326  
2,916,312  
2,917,323  
6: 2,893,761  
7: 2,868,566  
2,898,132  
2,898,133  
2,912,264  
8: 2,886,346  
2,886,349  
2,902,301  
2,908,515  
2,910,313  
9: 2,886,350  
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10: 2,871,038  
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2,881,014  
2,900,199  
2,882,074  
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11. 11: 2,888,281  
11. 13: 2,886,352  
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11. 14: 2,871,039  
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11. 15: 2,871,041  
2,872,220  
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11. 16: 2,867,457  
12: 2,874,983  
16: 2,892,643  
16. 1: 2,904,357  
16. 3: 2,879,085  
19: 2,883,214  
2,895,751  
22: 2,867,458  
2,908,516  
24: 2,914,348  
26: 2,872,221  
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30: 2,880,022  
31: 2,902,302  
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34: 2,896,980  
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35: 2,903,281  
36: 2,886,353  
37: 2,884,269



20. 2: 2, 893, 762	62: 2, 895, 756	16: 2, 868, 575	92: 2, 872, 233	336: 2, 884, 276	83: 2, 868, 580	23: 2, 912, 274
20. 3: 2, 895, 753	2, 909, 382	2, 908, 521	2, 886, 363	2, 911, 249	2, 868, 581	24: 2, 869, 919
2, 908, 517	75: 2, 871, 045	17: 2, 895, 759	99: 2, 868, 577	336. 3: 2, 869, 912	2, 869, 916	2, 869, 920
20. 5: 2, 894, 771	2, 879, 089	2, 906, 552	111: 2, 873, 134	2, 871, 050	2, 872, 237	2, 878, 054
2, 896, 981	2, 884, 271	2, 918, 316	112: 2, 876, 031	2, 872, 235	2, 873, 137	2, 884, 279
23: 2, 881, 016	2, 903, 284	19: 2, 867, 463	113: 2, 886, 364	2, 872, 236	2, 873, 138	2, 888, 296
52: 2, 867, 460	78: 2, 869, 905	2, 873, 132	2, 893, 771	2, 898, 139	2, 879, 099	26: 2, 872, 239
2, 883, 217	2, 869, 906	2, 896, 986	2, 894, 777	2, 905, 497	2, 886, 368	2, 876, 035
2, 885, 229	2, 883, 220	2, 896, 987	114: 2, 896, 989	2, 912, 270	2, 888, 294	2, 906, 556
2, 886, 354	83: 2, 886, 361	122: 2, 887, 335	122: 2, 898, 138	2, 912, 271	2, 889, 168	27: 2, 876, 036
2, 886, 355	85: Re. 24, 758	22: 2, 867, 464	126: 2, 880, 028	336. 5: 2, 917, 337	2, 894, 779	2, 899, 235
2, 898, 135	2, 868, 570	28: 2, 882, 083	2, 892, 652	340: 2, 912, 272	2, 896, 995	28: 2, 872, 240
2, 898, 136	2, 868, 571	32: 2, 914, 350	140: 2, 883, 227	341. 12: 2, 869, 913	2, 900, 206	2, 873, 998
2, 902, 303	2, 872, 225	33: 2, 868, 576	163: 2, 899, 227	341. 15: 2, 904, 367	2, 904, 369	2, 876, 037
2, 905, 490	2, 877, 031	2, 892, 650	166: 2, 902, 306	341. 16: 2, 903, 288	2, 907, 600	2, 880, 032
2, 908, 518	2, 878, 045		167: 2, 914, 986	2, 916, 319	2, 918, 324	2, 882, 089
2, 913, 265	2, 879, 090		169: 2, 871, 047	341. 17: 2, 893, 775	2, 919, 154	2, 883, 232
2, 916, 315	2, 880, 025		2, 899, 096	341. 18: 2, 884, 277	2, 867, 470	2, 883, 233
52. 01: 2, 883, 218	2, 880, 026	1: 2, 872, 231	2, 890, 074	2, 886, 365	2, 872, 238	2, 885, 242
52. 04: 2, 900, 202	2, 880, 027	1. 5: 2, 879, 095	2, 899, 228	342: 2, 898, 140	2, 874, 990	2, 886, 373
2, 907, 597	2, 882, 079	2: 2, 913, 270	173: 2, 871, 048	347: 2, 874, 988	2, 886, 369	2, 886, 374
52. 05: 2, 893, 763	2, 914, 349	2, 913, 271	2, 900, 204	2, 904, 368	2, 888, 295	2, 888, 297
2, 894, 772	87: 2, 878, 046	5: 2, 873, 133	182: 2, 905, 494	348: 2, 896, 992	2, 890, 906	2, 895, 763
52. 06: 2, 889, 161	2, 879, 091	13: 2, 916, 316	192: 2, 877, 037		2, 912, 273	2, 896, 997
2, 890, 071	2, 883, 221	17: 2, 899, 226	201: 2, 885, 239		2, 874, 991	2, 899, 236
52. 07: 2, 898, 137	2, 885, 235		2, 888, 289		2, 880, 031	2, 901, 283
52. 08: 2, 886, 356	2, 905, 492		2, 910, 318		2, 902, 311	2, 906, 557
2, 886, 357	2, 908, 519		2, 867, 465		2, 918, 325	2, 908, 528
2, 917, 331	2, 911, 244		2, 877, 038		87. 2: 2, 871, 055	2, 910, 322
52. 09: 2, 873, 128	2, 917, 334		2, 877, 039		2, 879, 100	2, 915, 334
2, 910, 315	90: 2, 868, 572	1: 2, 899, 565	2, 892, 653		2, 882, 087	2, 916, 324
53: 2, 872, 222	2, 873, 130	2: 2, 895, 066	223: 2, 868, 578		2, 892, 654	35: 2, 867, 472
2, 874, 985	2, 876, 029	4: 2, 872, 591	2, 893, 772		2, 899, 233	2, 881, 024
2, 882, 077	2, 876, 030	2, 878, 397	2, 893, 773		2, 905, 502	2, 882, 090
2, 882, 078	2, 877, 032	2, 903, 599	228: 2, 873, 990		2, 868, 582	2, 885, 243
2, 885, 230	2, 878, 047	2, 907, 891	2, 915, 329		2, 876, 033	2, 899, 237
2, 885, 231	2, 885, 236	2, 908, 826	229: 2, 881, 021		2, 883, 290	2, 901, 284
2, 885, 232	2, 887, 334	2, 900, 670	2, 889, 164		2, 903, 294	2, 917, 339
2, 886, 358	2, 910, 316	2, 909, 779	2, 896, 990		2, 906, 555	37: 2, 883, 234
2, 888, 282	2, 912, 267	2, 911, 541	2, 903, 285		2, 910, 321	2, 883, 235
2, 888, 283	2, 913, 268	2, 914, 650	241: 2, 873, 991		2, 915, 332	2, 890, 908
2, 890, 072	2, 919, 150	15: 2, 881, 330	244: 2, 867, 466		2, 886, 370	2, 901, 285
2, 892, 646	93: 2, 891, 809	17: 2, 907, 892	2, 905, 495		92: Re. 24, 661	39: 2, 898, 146
2, 893, 764	96: 2, 893, 767	30: 2, 916, 634	246: 2, 913, 273		2, 869, 917	44: 2, 867, 473
2, 895, 754	98: 2, 895, 757	2, 917, 635	247: 2, 874, 987		2, 889, 169	2, 869, 921
2, 899, 222	99: 2, 877, 033	36: 2, 912, 594	251. 5: 2, 867, 467		93: 2, 894, 780	2, 873, 139
2, 899, 223	2, 882, 080	2, 912, 595	2, 867, 468		97: 2, 879, 101	2, 878, 055
2, 901, 275	2, 882, 081	37: 2, 873, 382	2, 877, 041		99: 2, 889, 170	2, 878, 056
2, 904, 358	2, 893, 768	2, 887, 588	2, 888, 290		2, 891, 814	2, 879, 104
2, 906, 550	2, 904, 362	2, 913, 587	2, 888, 291		2, 911, 250	2, 887, 338
2, 913, 266	2, 911, 245	38: 2, 874, 309	2, 889, 778		101: 2, 916, 321	2, 896, 998
53. 5: 2, 903, 282	2, 915, 328	2, 882, 421	2, 896, 991		102: 2, 908, 525	2, 896, 999
54: 2, 868, 568	2, 877, 034	2, 900, 525	2, 901, 278		104: 2, 915, 333	2, 897, 000
2, 869, 902	2, 884, 273	2, 900, 526	2, 904, 364		106: 2, 876, 034	2, 897, 001
2, 869, 903	2, 885, 285	40: 2, 903, 600	2, 906, 553		2, 879, 102	2, 902, 313
2, 876, 027	2, 892, 648	2, 909, 671	2, 909, 384		2, 891, 815	2, 902, 314
2, 877, 030	2, 896, 983	2, 913, 583	2, 910, 319		2, 892, 655	2, 903, 296
2, 878, 042	2, 901, 276	2, 916, 635	253: 2, 918, 319		107: 2, 894, 781	2, 905, 503
2, 879, 087	2, 871, 046	50: Re. 24, 715	256: 2, 869, 909		2, 908, 526	2, 913, 277
2, 880, 024	2, 873, 131	52: 2, 897, 375	2, 872, 234		110: 2, 893, 778	44. 5: 2, 892, 657
2, 881, 017	2, 882, 222	2, 917, 636	2, 877, 042		2, 894, 782	2, 892, 658
2, 885, 233	2, 892, 649	2, 917, 637	2, 879, 097		2, 904, 370	2, 893, 781
2, 886, 359	2, 902, 304		256. 067: 2, 869, 910		2, 911, 251	2, 897, 340
2, 887, 333	108: 2, 881, 018		256. 5: 2, 901, 279		111: 2, 886, 371	47: 2, 914, 340
2, 890, 902	2, 883, 223		256. 6: 2, 902, 307		112: 2, 916, 322	2, 900, 207
2, 894, 773	2, 894, 775		256. 67: 2, 915, 330		115: 2, 899, 234	49. 2: 2, 877, 049
2, 904, 359	2, 911, 246		256. 69: 2, 905, 496		2, 916, 323	2, 899, 238
2, 904, 360	2, 872, 226		256. 71: 2, 883, 228			56: 2, 908, 529
2, 904, 361	119: 2, 867, 461		256. 73: 2, 888, 292			65: 2, 872, 241
2, 906, 551	2, 868, 573		262: 2, 873, 992			2, 874, 993
2, 909, 381	2, 872, 227		2, 912, 268			2, 908, 530
2, 911, 242	2, 890, 073		264: 2, 867, 468			2, 913, 278
2, 911, 243	2, 896, 985		275: 2, 890, 775			2, 916, 325
2, 917, 332	2, 910, 314		278: 2, 880, 029			78: 2, 908, 531
2, 919, 149	125: 2, 889, 162		279: 2, 867, 469			2, 903, 297
54. 1: 2, 868, 569	129: 2, 869, 907		280: 2, 871, 049			84: 2, 907, 602
56: 2, 895, 755	2, 873, 988		2, 873, 135			2, 919, 155
58: 2, 899, 904	2, 884, 274		2, 876, 032			91: 2, 872, 242
2, 871, 043	2, 893, 769		2, 877, 043			2, 916, 326
2, 871, 044	2, 899, 224		2, 877, 044			95: 2, 897, 002
2, 872, 223	2, 908, 520		2, 888, 293			2, 905, 504
2, 873, 129	127: 2, 894, 776		2, 893, 774			97: Re. 24, 706
2, 876, 028	129: 2, 872, 228		2, 904, 365			2, 869, 922
2, 882, 219	2, 879, 092		2, 911, 248			2, 874, 994
2, 884, 270	130: 2, 919, 151		2, 914, 352			2, 877, 050
2, 886, 360			2, 914, 353			2, 904, 371
2, 888, 284			2, 916, 318			2, 912, 275
2, 892, 647			2, 918, 320			15: 2, 878, 053
2, 893, 765	2: 2, 868, 574		2, 919, 152			20: 2, 877, 047
2, 893, 766	2, 878, 048		281: 2, 918, 321			2, 877, 048
2, 894, 774	2, 882, 081		288: 2, 873, 769			21: 2, 909, 388
2, 896, 982	2, 883, 224		2, 899, 229			22: 2, 879, 103
2, 907, 598	3: 2, 867, 462		2, 908, 522			2, 881, 023
2, 915, 327	2, 868, 562		295: 2, 903, 286			2, 890, 907
2, 917, 333	2, 872, 229		300: 2, 904, 366			2, 893, 780
60: 2, 872, 224	2, 879, 093		302: 2, 895, 761			2, 898, 144
2, 873, 043	2, 889, 163		307: 2, 902, 308			2, 898, 145
2, 878, 044	2, 893, 770		2, 912, 269			2, 901, 282
2, 885, 234	7: 2, 879, 094		2, 914, 354			2, 902, 312
2, 900, 203	11: 2, 882, 082		317: 2, 913, 274			2, 907, 601
2, 913, 267	2, 895, 758		324: 2, 869, 911			
61: 2, 879, 088	2, 902, 305		325: 2, 899, 230			
2, 903, 283	13: 2, 888, 286		2, 903, 287			
2, 905, 491	14: 2, 913, 269		333: 2, 908, 523			



**Class 296—Con.**

137: 2, 872, 243  
2, 879, 105  
2, 882, 093  
2, 903, 298  
2, 912, 277

**Class 298**

5: 2, 867, 474  
2, 880, 034  
8: 2, 880, 035  
9: 2, 887, 339  
10: 2, 889, 172  
15: 2, 868, 583  
17: 2, 883, 237  
2, 898, 148  
19: 2, 901, 287  
20: 2, 890, 909  
22: 2, 878, 057  
2, 892, 659  
2, 894, 785  
2, 902, 315  
23: 2, 876, 038  
25: 2, 897, 004  
30: 2, 901, 288  
38: 2, 891, 816

**Class 299**

1: 2, 878, 058  
3: 2, 877, 051  
4: 2, 877, 052  
10: 2, 878, 059  
24: 2, 872, 244  
2, 878, 060  
2, 878, 061  
25: 2, 873, 140  
2, 875, 428  
28, 6: 2, 869, 924  
62: 2, 872, 245  
63: 2, 876, 039  
64: 2, 869, 925  
69: 2, 867, 475  
2, 878, 062  
71: 2, 873, 141  
2, 877, 053  
73: 2, 873, 999  
78: 2, 871, 057  
2, 872, 246  
83: 2, 871, 058  
84: 2, 869, 926  
2, 876, 040  
2, 876, 041  
86: 2, 867, 476  
2, 868, 584  
2, 868, 585  
2, 878, 063  
88: 2, 868, 586  
107, 2: 2, 872, 247  
107, 6: 2, 874, 000  
2, 878, 064  
120: 2, 878, 065  
129: 2, 874, 995  
133: 2, 869, 927  
136: 2, 871, 059  
140: 2, 868, 587  
141: 2, 873, 142  
2, 874, 001  
2, 878, 066  
142: 2, 878, 067  
150: 2, 874, 996  
2, 876, 042  
153: 2, 878, 068

**Class 300**

1: 2, 881, 025  
2: 2, 903, 299  
7: 2, 871, 060  
9: 2, 893, 783  
2, 901, 289  
17: 2, 918, 327  
21: 2, 878, 069  
2, 887, 340

**Class 301**

5: 2, 878, 070  
2, 895, 766  
2, 901, 290  
2, 909, 389  
5, 3: 2, 871, 061  
2, 878, 071  
6: 2, 889, 173  
9: 2, 877, 054  
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2, 885, 244  
2, 890, 910  
2, 895, 767  
2, 906, 558  
10: 2, 884, 280  
12: 2, 911, 255

13: 2, 874, 997  
2, 890, 911  
2, 918, 328  
20: 2, 874, 998  
30: 2, 882, 094  
31: 2, 879, 106  
2, 899, 239  
36: 2, 893, 784  
2, 905, 505  
2, 911, 256  
37: 2, 867, 477  
2, 868, 588  
2, 869, 928  
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2, 916, 328  
2, 917, 341  
2, 918, 329  
46: 2, 869, 930  
47: 2, 899, 241  
55: 2, 916, 329  
63: 2, 878, 074  
124: 2, 911, 262  
128: 2, 902, 319

**Class 302**

2: 2, 890, 913  
2, 912, 282  
14: 2, 868, 589  
2, 915, 336  
17: 2, 868, 590  
2, 873, 143  
2, 880, 036  
2, 889, 174  
2, 895, 768  
2, 898, 157  
2, 907, 605  
2, 909, 391  
20: 2, 901, 293  
21: 2, 872, 248  
22: 2, 879, 109  
24: Re 24, 716  
2, 897, 005  
26: 2, 867, 478  
27: 2, 874, 999  
28: 2, 903, 301  
2, 913, 279  
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2, 915, 330  
29: 2, 882, 097  
2, 883, 240  
2, 912, 283

34: 2, 916, 330  
35: 2, 913, 281  
36: 2, 897, 006  
2, 917, 342  
37: 2, 894, 787  
49: 2, 885, 246  
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2, 918, 331  
50: 2, 868, 591  
51: 2, 878, 075  
2, 919, 157  
52: 2, 891, 817  
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53: 2, 872, 249  
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2, 877, 056  
2, 878, 076  
2, 897, 008  
2, 897, 009  
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56: 2, 876, 043  
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57: 2, 919, 160  
58: 2, 905, 506  
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59: 2, 873, 146  
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2, 917, 344  
66: 2, 894, 788  
2, 914, 357  
2, 917, 345

**Class 303**

2: 2, 874, 002  
3: 2, 919, 161  
4: 2, 910, 324  
6: 2, 882, 098  
2, 911, 263  
6, 1: 2, 914, 358  
10: 2, 897, 010  
16: 2, 897, 011  
19: 2, 872, 250  
21: 2, 892, 660  
2, 907, 607  
2, 919, 162  
22: 2, 918, 332  
2, 919, 163  
2, 919, 164  
23: 2, 919, 165  
24: 2, 876, 044  
2, 906, 561  
2, 914, 359  
26: 2, 871, 063  
29: 2, 897, 012  
30: 2, 910, 325  
31: 2, 871, 064  
2, 871, 065  
35: 2, 913, 282  
49: 2, 912, 286  
50: 2, 905, 507  
59: 2, 889, 175  
60: 2, 880, 039  
63: 2, 873, 148  
2, 876, 045  
2, 891, 818  
2, 910, 326  
2, 910, 327  
2, 911, 264  
67: 2, 900, 209  
68: 2, 878, 077  
2, 886, 377  
70: 2, 867, 479  
85: 2, 905, 508

**Class 304**

2: 2, 872, 251  
2, 872, 252  
2, 877, 058  
2, 882, 099  
2, 882, 100  
2, 897, 013  
3: 2, 892, 661

5: 2, 874, 003  
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2, 876, 046  
2, 889, 176  
2, 889, 177  
2, 889, 178  
2, 911, 265  
11: 2, 881, 028  
12: 2, 888, 298  
14: 2, 882, 101  
2, 893, 786  
15: 2, 878, 078  
18: 2, 881, 029  
24: 2, 868, 592  
29: 2, 881, 030  
2, 888, 299  
2, 890, 082  
2, 896, 091  
2, 899, 588  
32: 2, 883, 241  
2, 891, 819  
40: 2, 876, 048  
2, 878, 079  
2, 879, 110  
2, 891, 820

**Class 305**

1: 2, 877, 059  
2, 893, 787  
2: 2, 900, 210  
3: 2, 891, 821  
4: 2, 869, 931  
9: 2, 887, 342  
10: 2, 867, 480  
2, 869, 932  
2, 874, 005  
2, 876, 049  
2, 877, 060  
2, 882, 102  
2, 882, 103  
2, 883, 242  
2, 886, 378  
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2, 891, 822  
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2, 897, 014  
2, 899, 242  
2, 906, 562  
2, 907, 608  
19: 2, 916, 331  
31: 2, 917, 346  
38: 2, 914, 360  
2, 917, 347  
2, 917, 348  
53: 2, 903, 303  
57: 2, 903, 304

**Class 306**

1: 2, 904, 373  
1, 5: 2, 873, 149  
1, 6: 2, 877, 061  
2, 878, 080  
20: 2, 917, 349

**Class 307**

1: 2, 873, 383  
3: 2, 867, 730  
10: 2, 883, 560  
2, 888, 574  
2, 895, 057  
2, 897, 376  
2, 902, 606  
2, 904, 702  
2, 905, 831  
2, 908, 827  
2, 913, 589  
2, 913, 590  
11: 2, 867, 731  
34: 2, 874, 310  
2, 904, 703  
38: 2, 911, 542  
43: 2, 880, 329  
2, 902, 607  
2, 879, 412  
47: 2, 894, 148  
51: 2, 871, 373  
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57: 2, 871, 374  
2, 871, 375  
2, 882, 422  
2, 885, 566  
2, 888, 575  
2, 889, 466  
2, 894, 149  
2, 900, 527  
2, 909, 672  
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64: 2, 868, 996  
2, 885, 567  
72: 2, 905, 832  
73: 2, 899, 566  
75: 2, 868, 997

81: 2, 888, 576  
2, 899, 567  
83: 2, 868, 998  
2, 879, 408  
84: 2, 892, 098  
86: 2, 917, 638  
87: 2, 885, 568  
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88, 5: Re 21, 678  
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88, 5: 2, 918, 586  
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94: 2, 912, 600  
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95: 2, 869, 003  
101: 2, 878, 400  
105: 2, 895, 059  
106: 2, 871, 280  
2, 874, 314  
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2, 883, 563  
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2, 894, 153  
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2, 902, 610  
2, 904, 706  
2, 906, 895  
2, 906, 896  
2, 907, 900  
2, 909, 681  
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108: 2, 869, 004  
2, 886, 719  
2, 889, 470  
2, 898, 482  
110: 2, 878, 401  
112: 2, 877, 361  
2, 881, 334  
2, 891, 175  
2, 901, 642  
2, 905, 838  
2, 907, 901  
115: 2, 898, 483  
2, 915, 651  
2, 917, 640  
121: 2, 883, 564  
132: 2, 883, 565  
2, 887, 592  
2, 889, 471  
2, 898, 472  
2, 892, 105  
2, 892, 106  
2, 892, 954  
133: 2, 872, 597  
2, 878, 402  
136: 2, 911, 546  
140: 2, 901, 643  
2, 906, 897  
141: 2, 867, 736  
147: 2, 869, 005  
2, 884, 547  
2, 884, 548  
2, 912, 603  
2, 913, 601  
149: 2, 869, 006  
2, 873, 390  
2, 885, 576  
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2, 907, 902  
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2, 915, 650  
2, 916, 636  
2, 916, 637  
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2, 916, 639

**Class 308**

2: 2, 897, 015  
2, 912, 287  
2, 914, 361  
3: 2, 888, 300  
2, 907, 609  
2, 913, 283  
2, 914, 362  
3, 8: 2, 873, 150  
2, 880, 040  
2, 889, 179  
2, 898, 159  
4: 2, 874, 006  
2, 877, 062  
2, 897, 016  
2, 905, 393  
5: 2, 869, 933  
2, 877, 063  
2, 883, 243  
2, 893, 789  
6: 2, 881, 031  
2, 883, 244  
2, 887, 344  
2, 889, 180  
2, 889, 181  
2, 890, 083  
2, 891, 823  
2, 906, 563  
2, 907, 610  
2, 909, 394  
2, 912, 288



6: 2,917,350	160: 2,871,070	243: 2,904,375	<b>Class 310</b>	71: 2,872,599	261: 2,913,607	114: 2,904,379
2,918,333	2,874,007	2,907,613	1: 2,912,604	2,874,317	2,897,387	2,915,350
8. 2: 2,904,374	2,881,034	2,910,330	3: 2,876,368	72: 2,910,600	269: 2,870,357	<b>Class 312</b>
9: 2,868,593	2,890,916	2,910,331	2: 2,900,535	77: 2,876,369		3: 2,876,054
2,879,111	2,906,571	2,915,347	4: 2,915,652	2,879,416		11: 2,871,341
2,884,282	2,912,289		5: 2,919,356	2,879,417		13: 2,902,327
2,899,243	2,908,534		5: 2,881,335	2,911,548		19: 2,883,250
2,916,332	2,927,256		8: 2,892,107	81: 2,892,108		21: 2,878,087
10: 2,869,934	2,908,535	1: 2,880,042	2: 2,892,955	82: 2,871,382		27: 2,899,250
2,869,935	2,910,329	2: 2,883,246	2: 2,892,955	83: 2,879,418		29: 2,875,009
2,900,211	2,912,290	2,890,917	8. 1: 2,875,352	86: 2,911,549		35: 2,901,305
15: 2,868,594	2,916,334	2,899,247	2: 2,878,403	87: 2,876,370		38: 2,867,486
2,869,936	2,917,351	2,903,308	2: 2,901,176	2,883,566		42: 2,879,122
2,884,283	177: 2,903,307	3: 2,869,945	2: 2,896,098	90: 2,889,474		71: 2,879,122
2,897,017	180: 2,875,004	2,879,115	8. 2: 2,871,381	2,890,355		77: 2,879,122
2,906,564	2,878,083	2,879,116	2: 2,875,353	93: 2,906,899		83: 2,879,122
2,913,284	2,891,827	2,880,043	2: 2,875,354	2,916,642		87: 2,879,122
18: 2,898,160	2,901,299	2,903,309	2,879,413	2,906,899		93: 2,879,122
19: 2,897,064	184: 2,869,941	2,890,918	2,880,333	2,909,683		97: 2,879,122
22: 2,891,824	2,874,008	2,891,830	2,881,336	2,911,550		103: 2,879,122
26: 2,869,937	2,893,790	2,907,614	8. 3: 2,873,391	2,913,605		107: 2,879,122
28: 2,873,151	2,897,023	2,918,336	2: 2,913,602	2,871,383		113: 2,879,122
30: 2,872,253	2,902,320	2,918,337	2: 2,917,642	2,885,578		119: 2,879,122
32: 2,891,825	2,902,321	2,882,106	8. 7: 2,872,600	2,899,249		125: 2,879,122
35: 2,872,254	2,902,322	2,882,106	2,885,581	2,900,399		131: 2,879,122
2,875,001	2,906,572	10: 2,884,290	8. 9: 2,877,362	2,909,948		137: 2,879,122
36. 1: 2,881,032	2,867,481	2,915,348	9: 2,915,653	2,883,566		143: 2,879,122
2,892,662	2,872,257	11: 2,874,009	9. 1: 2,901,644	2,897,029		149: 2,879,122
2,901,294	2,882,105	13: 2,869,946	2: 2,912,605	2,888,169		155: 2,879,122
2,901,295	2,885,247	2,874,010	2: 2,914,686	2,898,485		161: 2,879,122
36. 2: 2,882,104	2,888,302	2,874,011	9. 2: 2,891,177	2,872,601		167: 2,879,122
2,899,244	2,902,323	2,882,107	9. 5: 2,875,355	2,873,394		173: 2,879,122
36. 3: 2,899,245	2,911,267	2,911,269	9. 6: 2,880,334	2,890,356		179: 2,879,122
2,906,565	187. 1: 2,868,596	14: 2,880,044	2,895,062	2,902,612		185: 2,879,122
2,910,328	2,869,942	15: 2,889,182	2,900,536	2,908,833		191: 2,879,122
38: 2,868,595	2,878,084	19: 2,913,292	9. 7: 2,877,363	2,908,834		197: 2,879,122
2,897,018	2,888,303	20: 2,877,069	13: 2,870,349	2,872,603		203: 2,879,122
2,903,305	2,907,611	22: 2,880,045	14: 2,915,654	2,873,395		209: 2,879,122
2,913,285	2,908,536	2,882,108	15: 2,895,063	2,881,338		215: 2,879,122
40: 2,887,345	2,911,266	2,893,794	19: 2,867,737	2,885,579		221: 2,879,122
41: 2,879,112	2,913,289	2,877,071	2,877,364	2,892,110		227: 2,879,122
2,901,296	2,914,364	2,881,037	2,886,720	2,912,608		233: 2,879,122
44: 2,871,068	2,915,344	2,884,291	22: 2,914,687	2,894,156		239: 2,879,122
47: 2,869,938	2,916,335	2,893,795	23: 2,894,154	2,907,903		245: 2,879,122
2,900,212	187. 2: 2,873,153	2,894,793	25: 2,872,598	2,912,609		251: 2,879,122
2,906,566	2,879,114	2,895,772	2: 2,877,365	2,867,738		257: 2,879,122
53: 2,906,567	2,884,285	2,895,773	2,888,582	2,873,392		263: 2,879,122
54: 2,888,301	2,888,304	2,898,166	26: 2,873,392	2,874,316		269: 2,879,122
59: 2,918,334	2,914,365	2,898,167	2: 2,874,316	2,885,577		275: 2,879,122
70: 2,877,065	2,915,345	2,899,248	2,885,583	2,893,810		281: 2,879,122
72: 2,875,002	189: 2,909,397	2,909,398	2,890,355	2,901,645		287: 2,879,122
2,886,379	190: 2,884,286	2,911,270	2,890,356	2,907,904		293: 2,879,122
2,886,380	193: Re. 24,686	2,913,293	2,891,178	2,889,475		299: 2,879,122
2,891,826	199: 2,893,791	2,915,349	2,891,179	2,898,486		305: 2,879,122
2,892,663	2,893,792	2,918,339	2,896,099	2,886,722		311: 2,879,122
2,894,789	2,897,021	2,873,154	2,897,350	2,886,727		317: 2,879,122
2,895,769	201: 2,875,005	2,885,249	2,898,060	2,886,728		323: 2,879,122
2,906,568	2,897,024	2,911,271	2,898,061	2,886,729		329: 2,879,122
2,906,569	2,911,268	2,913,293	2,898,486	2,886,730		335: 2,879,122
2,908,532	203: 2,884,287	2,915,349	2,898,487	2,886,731		341: 2,879,122
73: 2,873,152	207: 2,873,154	2,916,336	27: 2,870,350	2,886,732		347: 2,879,122
74: 2,876,050	2,880,041	2,894,790	2,895,064	2,886,733		353: 2,879,122
76: 2,906,570	2,894,790	2,913,336	2,918,590	2,886,734		359: 2,879,122
77: 2,869,939	2,915,336	2,913,337	30: 2,906,888	2,886,735		365: 2,879,122
2,915,342	208: 2,897,022	2,871,071	36: 2,891,181	2,886,736		371: 2,879,122
79. 1: 2,897,019	210: 2,915,346	2,874,012	38: 2,878,404	2,886,737		377: 2,879,122
2,913,286	212: 2,881,035	2,914,368	39: 2,890,355	2,886,738		383: 2,879,122
80: 2,890,084	2,894,791	2,878,085	2,910,598	2,886,739		389: 2,879,122
83: 2,903,306	213: 2,884,288	2,884,292	2,910,599	2,886,740		395: 2,879,122
84: 2,919,166	217: 2,881,036	2,887,347	2,916,641	2,886,741		401: 2,879,122
87: Re. 24,694	2,883,245	2,889,183	40: 2,891,182	2,886,742		407: 2,879,122
2,890,085	227: 2,876,051	2,912,291	2,897,381	2,886,743		413: 2,879,122
88: 2,875,003	2,895,770	2,917,352	2,905,839	2,886,744		419: 2,879,122
2,878,081	2,898,163	2,919,167	41: 2,879,414	2,886,745		425: 2,879,122
2,886,381	2,918,335	2,914,369	42: 2,879,415	2,886,746		431: 2,879,122
2,890,086	235: 2,869,943	2,895,774	2,913,603	2,886,747		437: 2,879,122
2,897,020	2,891,828	40: 2,891,831	2,919,357	2,886,748		443: 2,879,122
2,898,161	236: 2,877,068	2,904,376	46: 2,919,358	2,886,749		449: 2,879,122
2,898,162	2,886,382	2,904,377	51: 2,886,721	2,886,750		455: 2,879,122
2,905,059	2,891,829	2,917,353	2,896,100	2,886,751		461: 2,879,122
2,909,395	2,895,771	41: 2,879,117	2,900,537	2,886,752		467: 2,879,122
2,914,363	237: 2,897,025	43: 2,893,796	52: 2,898,484	2,886,753		473: 2,879,122
2,915,343	2,899,246	44: 2,867,482	54: 2,894,155	2,886,754		479: 2,879,122
90: 2,913,287	2,905,511	2,869,947	55: 2,873,393	2,886,755		485: 2,879,122
91: 2,881,033	2,913,291	2,877,072	56: 2,913,605	2,886,756		491: 2,879,122
121: 2,901,297	2,914,367	2,893,797	57: 2,881,337	2,886,757		497: 2,879,122
2,909,396	2,916,337	2,893,798	58: 2,875,356	2,886,758		503: 2,879,122
122: 2,877,066	2,916,338	2,893,799	59: 2,887,939	2,886,759		509: 2,879,122
2,879,113	238: 2,887,346	2,893,800	58: 2,870,351	2,886,760		515: 2,879,122
2,916,333	2,897,026	2,905,512	2,900,538	2,886,761		521: 2,879,122
127: 2,869,940	2,897,027	2,908,537	60: 2,899,737	2,886,762		527: 2,879,122
2,877,067	2,898,164	2,910,332	62: 2,900,539	2,886,763		533: 2,879,122
2,884,284	2,901,300	2,910,333	64: 2,895,065	2,886,764		539: 2,879,122
132: 2,872,255	2,906,573	2,918,340	2,897,382	2,886,765		545: 2,879,122
2,892,664	239: 2,885,248	45: 2,876,052	2,902,611	2,886,766		551: 2,879,122
134. 1: 2,905,510	2,898,165	2,886,383	2,903,609	2,886,767		557: 2,879,122
135: 2,871,069	240: 2,893,793	2,886,384	2,904,708	2,886,768		563: 2,879,122
2,890,915	2,894,792	2,893,801	2,909,682	2,886,769		569: 2,879,122
138: 2,913,288	243: Re. 24,643	2,907,615	2,917,644	2,886,770		575: 2,879,122
142: Re. 24,754	2,910,334	2,910,334	66: 2,915,657	2,886,771		581: 2,879,122
2,878,082	2,884,289	2,912,292	67: 2,882,427	2,886,772		587: 2,879,122
152: 2,908,533	2,897,028	46: 2,872,258	68: 2,897,383	2,886,773		593: 2,879,122
159: 2,901,298	2,902,324	2,900,213	2,908,831	2,886,774		599: 2,879,122



## Class 312—Con.

242: 2, 911, 275  
 245: 2, 917, 356  
 248: 2, 877, 077  
     2, 882, 113  
     2, 898, 173  
 249: 2, 893, 806  
 253: 2, 887, 351  
     2, 903, 316  
 257: 2, 868, 605  
     2, 899, 253  
     2, 899, 254  
     2, 915, 352  
 261: 2, 904, 382  
 263: 2, 869, 953  
     2, 874, 015  
     2, 884, 296  
 267: 2, 881, 041  
 268: 2, 873, 160  
     2, 875, 014  
     2, 905, 517  
 270: 2, 907, 618  
 273: 2, 872, 267  
 274: 2, 899, 255  
 275: 2, 869, 954  
 276: 2, 886, 394  
 279: 2, 882, 114  
     2, 886, 395  
     2, 893, 807  
 280: 2, 872, 268  
 284: 2, 903, 317  
     2, 915, 353  
 286: 2, 914, 370  
 287: 2, 915, 354  
 290: 2, 895, 782  
 292: 2, 873, 161  
 293: 2, 868, 606  
     2, 904, 383  
 295: 2, 898, 174  
     2, 908, 539  
 296: 2, 880, 049  
     2, 882, 115  
     2, 899, 256  
 297: 2, 869, 955  
     2, 869, 956  
     2, 873, 162  
 298: 2, 869, 957  
 301: 2, 887, 352  
 303: 2, 876, 057  
     2, 901, 308  
 304: 2, 884, 297  
     2, 891, 833  
     2, 903, 318  
 306: 2, 910, 335  
 307: 2, 891, 834  
 308: 2, 886, 396  
 309: 2, 906, 579  
 310: 2, 871, 084  
     2, 878, 092  
     2, 888, 308  
 311: 2, 918, 341  
 313: 2, 894, 794  
 316: 2, 893, 808  
 319: 2, 890, 090  
     2, 905, 518  
 320: 2, 897, 033  
 323: 2, 867, 489  
     2, 869, 958  
 325: 2, 875, 015  
 327: 2, 897, 034  
 328: 2, 869, 959  
     2, 874, 016  
     2, 910, 336  
 330: 2, 872, 269  
     2, 897, 035  
     2, 918, 342  
 332: 2, 868, 607  
     2, 872, 270  
 333: 2, 869, 960  
 337: 2, 868, 608  
 339: 2, 869, 961  
     2, 871, 085  
 345: 2, 872, 271  
 350: 2, 905, 519  
     2, 911, 276  
 351: 2, 875, 016

## Class 313

7: 2, 870, 358  
     2, 882, 429  
     2, 883, 568  
     2, 884, 550  
     2, 896, 103  
 10: 2, 910, 601  
 11. 5: 2, 892, 112  
     2, 913, 608  
 17: 2, 888, 584  
     2, 901, 646  
 23: 2, 906, 901  
 25: 2, 875, 358  
     2, 888, 585  
     2, 901, 647  
     2, 901, 648

25: 2, 904, 710  
     2, 918, 592  
 29: 2, 877, 367  
     2, 906, 902  
 32: 2, 886, 723  
     2, 886, 724  
     2, 900, 541  
     2, 907, 905  
 35: 2, 913, 609  
 36: 2, 870, 359  
 39: 2, 869, 009  
 42: 2, 892, 113  
     2, 896, 104  
 45: 2, 904, 711  
 54: 2, 874, 319  
     2, 919, 361  
 55: 2, 885, 582  
     2, 903, 611  
     2, 905, 841  
     2, 919, 362  
 56: 2, 896, 105  
     2, 900, 542  
 57: 2, 886, 725  
 58: 2, 890, 358  
 59: 2, 909, 686  
 60: 2, 885, 583  
     2, 900, 543  
 61: 2, 885, 584  
     2, 902, 613  
     2, 902, 614  
     2, 906, 903  
 62: 2, 905, 842  
 63: 2, 880, 337  
     2, 892, 114  
     2, 909, 697  
 64: 2, 873, 396  
     2, 882, 430  
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     2, 907, 906  
 65: 2, 869, 010  
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     2, 877, 368  
     2, 880, 338  
     2, 881, 340  
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     2, 913, 610  
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     2, 915, 659  
     2, 917, 645  
 66: 2, 871, 385  
     2, 873, 398  
     2, 875, 360  
     2, 890, 361  
 67: 2, 909, 687  
 68: 2, 870, 360  
     2, 879, 419  
     2, 879, 420  
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     2, 888, 586  
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 69: 2, 888, 587  
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 70: 2, 887, 598  
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     2, 907, 907  
 73: 2, 915, 661  
     2, 916, 643  
 74: 2, 885, 585  
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 75: 2, 880, 339  
 76: 2, 881, 341  
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     2, 903, 612

76: 2, 909, 688  
     2, 913, 611  
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     2, 917, 646  
 77: 2, 870, 361  
     2, 872, 607  
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 78: 2, 904, 712  
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 79: 2, 905, 847  
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 81: 2, 899, 579  
 82: 2, 871, 387  
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 84: 2, 872, 372  
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 85: 2, 875, 361  
     2, 886, 729  
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     2, 892, 115  
     2, 896, 904  
     2, 916, 644  
 86: 2, 886, 730  
 89: 2, 875, 362  
     2, 879, 422  
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 92: 2, 875, 363  
     2, 882, 432  
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 93: 2, 873, 399  
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 94: 2, 908, 840  
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 95: 2, 895, 067  
 96: 2, 919, 364  
 100: 2, 879, 424  
 101: 2, 898, 498  
 102: 2, 876, 374  
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 103: 2, 898, 499  
 104: 2, 881, 343  
 107: 2, 880, 345  
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 108: 2, 867, 739  
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109: 2, 890, 364  
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     2, 916, 645  
 109. 5: 2, 874, 320  
     2, 878, 407  
     2, 891, 184  
     2, 891, 185  
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 111: 2, 899, 480  
 112: 2, 899, 584  
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 113: 2, 869, 011  
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 115: 2, 879, 425  
     2, 880, 347  
 117: 2, 876, 375  
     2, 916, 646  
 123: 2, 890, 365  
 124: 2, 874, 693  
 125: 2, 900, 546  
 130: 2, 867, 740  
     2, 874, 321  
     2, 879, 426  
     2, 883, 575  
     2, 900, 547  
 131: 2, 874, 322  
     2, 883, 570  
     2, 894, 161  
     2, 900, 548  
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     2, 910, 606  
 136: 2, 891, 187  
 141: 2, 871, 388  
     2, 894, 162  
 143: 2, 870, 363  
     2, 895, 069  
     2, 899, 585  
 144: 2, 871, 389  
     2, 874, 323  
     2, 902, 617  
     2, 906, 908  
 145: 2, 875, 365  
     2, 906, 909  
 146: 2, 884, 552  
     2, 907, 912  
     2, 910, 609  
 148: 2, 901, 656  
 149: 2, 892, 118  
     2, 894, 163  
     2, 916, 647  
 151: 2, 891, 188  
 153: 2, 909, 694  
 156: 2, 876, 376  
     2, 897, 393  
     2, 906, 910  
     2, 915, 666  
 157: 2, 869, 012  
 163: 2, 902, 618  
     2, 905, 851  
 164: 2, 886, 732  
 167: 2, 899, 586  
 170: 2, 869, 013  
 171: 2, 917, 649  
     2, 919, 367  
 174: 2, 887, 602  
     2, 898, 501  
 176: 2, 880, 348  
 178: 2, 870, 364  
     2, 900, 549  
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     2, 919, 368  
 179: 2, 883, 571  
 181: 2, 869, 014  
 182: 2, 899, 587  
 184: 2, 876, 377  
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 185: 2, 874, 324  
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 188: 2, 894, 164  
 189: 2, 889, 481  
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 192: 2, 898, 502  
 193: 2, 900, 551  
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 197: 2, 870, 365  
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198: 2, 872, 608  
 204: 2, 908, 841  
 205: 2, 917, 650  
 209: 2, 899, 588  
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 213: 2, 882, 434  
 217: 2, 878, 408  
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 219: 2, 906, 911  
 220: 2, 881, 345  
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 221: 2, 894, 166  
     2, 909, 696  
 222: 2, 882, 435  
 226: 2, 891, 189  
 231: Re. 24,605  
     2, 871, 390  
     2, 873, 400  
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     2, 883, 572  
     2, 883, 573  
     2, 883, 574  
     2, 907, 910  
     2, 919, 370  
 232: 2, 887, 604  
 237: 2, 909, 698  
 238: 2, 871, 391  
     2, 898, 503  
     2, 909, 699  
 242: 2, 877, 372  
     2, 918, 597  
 243: 2, 899, 589  
 244: 2, 880, 349  
     2, 887, 605  
 245: 2, 897, 394  
 247: 2, 867, 741  
     2, 879, 428  
     2, 883, 575  
     2, 885, 588  
 250: 2, 899, 590  
     2, 910, 607  
     2, 916, 649  
 252: 2, 907, 911  
 254: 2, 884, 553  
 256: 2, 872, 609  
     2, 881, 347  
     2, 887, 606  
 257: 2, 883, 576  
     2, 901, 657  
     2, 909, 700  
     2, 918, 596  
 258: 2, 880, 350  
 259: 2, 880, 351  
 260: 2, 867, 743  
     2, 910, 608  
     2, 917, 652  
 261: 2, 887, 607  
     2, 888, 589  
     2, 907, 912  
     2, 910, 609  
 265: 2, 886, 733  
     2, 915, 667  
 270: 2, 884, 554  
     2, 886, 734  
     2, 902, 619  
     2, 914, 694  
 272: 2, 912, 610  
 273: 2, 882, 436  
 274: 2, 886, 735  
 276: 2, 910, 610  
     2, 916, 650  
 278: 2, 877, 373  
     2, 908, 842  
     2, 909, 701  
     2, 915, 668  
 279: 2, 880, 352  
     2, 885, 589  
     2, 901, 658  
     2, 910, 611  
 284: 2, 913, 616  
     2, 918, 598  
 290: 2, 883, 577  
 291: 2, 894, 167  
 292: 2, 919, 371  
 293: 2, 879, 429  
     2, 879, 430  
     2, 913, 617  
 296: 2, 886, 736  
     2, 915, 669  
 298: 2, 873, 401  
 299: 2, 888, 590  
     2, 889, 483  
     2, 898, 504  
 305: 2, 888, 591  
 306: 2, 875, 366  
 307: 2, 898, 505  
     2, 919, 372  
 308: 2, 890, 367  
 309: 2, 901, 659  
 313: 2, 877, 374  
     2, 889, 494  
 315: 2, 877, 375

318: 2, 884, 555  
     2, 904, 716  
 325: 2, 914, 695  
 331: 2, 900, 553  
 332: 2, 917, 653  
 337: 2, 870, 366  
     2, 872, 611  
     2, 899, 591  
     2, 900, 554  
     2, 916, 651  
 339: 2, 869, 016  
 340: 2, 875, 367  
     2, 919, 373  
 341: 2, 879, 431  
 343: 2, 892, 120  
 344: 2, 906, 912  
 346: 2, 867, 742  
     2, 869, 017  
     2, 878, 409  
     2, 878, 410  
     2, 879, 432  
     2, 888, 592  
     2, 895, 070  
     2, 899, 592  
     2, 902, 620  
     2, 902, 621  
     2, 905, 852  
     2, 912, 611  
     2, 916, 652  
     2, 916, 653  
 350: 2, 869, 015  
     2, 897, 395  
 352: 2, 886, 737  
 355: 2, 914, 325  
     2, 900, 555  
     2, 904, 717

## Class 314

47: 2, 896, 108  
 59: 2, 890, 368  
 61: 2, 882, 437  
     2, 916, 654  
 62: 2, 917, 654  
 68: 2, 889, 485  
     2, 906, 913  
 69: 2, 900, 556  
 71: 2, 879, 434  
 72: 2, 912, 612  
 73: 2, 904, 718  
 74: 2, 875, 368  
     2, 913, 618  
 75: 2, 867, 743  
 135: 2, 873, 402

## Class 315

1: 2, 878, 411  
     2, 879, 435  
     2, 885, 590  
     2, 885, 591  
     2, 888, 593  
     2, 898, 506  
 3: 2, 879, 436  
     2, 888, 594  
     2, 890, 366  
     2, 897, 396  
     2, 903, 613  
 3. 5: 2, 867, 744  
     2, 867, 745  
     2, 869, 018  
     2, 869, 019  
     2, 869, 020  
     2, 869, 021  
     2, 871, 392  
     2, 871, 393  
     2, 871, 394  
     2, 871, 395  
     2, 876, 378  
     2, 876, 379  
     2, 878, 412  
     2, 879, 437  
     2, 879, 438  
     2, 880, 353  
     2, 880, 354  
     2, 880, 355  
     2, 882, 438  
     2, 882, 439  
     2, 884, 556  
     2, 887, 608  
     2, 915, 669  
     2, 888, 595  
     2, 888, 596  
     2, 888, 597  
     2, 889, 486  
     2, 890, 370  
     2, 890, 371  
     2, 890, 372  
     2, 891, 190  
     2, 897, 397  
     2, 899, 593  
     2, 899, 594  
     2, 899, 595  
     2, 900, 557  
     2, 900, 558

3. 5: 2, 906, 914  
     2, 907, 913  
     2, 908, 843  
     2, 911, 554  
     2, 911, 555  
     2, 916, 655  
     2, 916, 656  
     2, 917, 655  
     2, 919, 374  
     2, 919, 375  
     2, 869, 022  
     2, 869, 023  
     2, 870, 367  
     2, 876, 380  
     2, 878, 413  
     2, 878, 414  
     2, 880, 356  
     2, 881, 348  
     2, 881, 349  
     2, 882, 441  
     2, 885, 592  
     2, 885, 593  
     2, 886, 738  
     2, 887, 609  
     2, 888, 598  
     2, 889, 487  
     2, 890, 373  
     2, 890, 374  
     2, 891, 191  
     2, 894, 168  
     2, 895, 071



8.6: 2,918,600	21: 2,867,749	36: 2,891,193	84.6: 2,880,371	205: 2,895,080	14: 2,910,625	101: 2,907,924
2,919,376	2,871,403	2,891,194	2,887,617	2,897,404	16: 2,910,626	2,907,925
10: 2,869,024	2,875,375	2,896,116	2,896,118	2,907,921	17: 2,870,380	2,907,926
2,870,369	2,877,377	2,899,602	2,896,119	2,895,081	18: 2,880,377	2,909,710
2,870,370	2,877,378	2,900,566	2,897,402	2,884,567	2,881,361	2,910,628
2,871,400	2,878,417	2,913,626	2,898,513	2,900,575	2,917,673	2,911,572
2,875,370	2,879,446	2,915,674	2,903,624	2,916,670	22: 2,871,414	2,912,625
2,878,416	2,884,560	2,917,662	2,905,860	2,917,670	2,875,381	2,913,632
2,879,441	2,884,561	2,917,674	2,913,628	2,879,451	2,883,585	2,913,633
2,881,353	2,885,595	2,886,742	85: 2,896,120	219: 2,873,409	2,895,084	2,913,634
2,881,354	2,887,612	2,895,075	86: 2,880,372	2,901,671	2,909,707	2,914,706
2,885,594	2,896,111	2,900,567	2,894,173	224: 2,871,413	23: 2,909,708	2,915,678
2,892,960	2,896,112	2,900,568	89: 2,892,966	2,872,623	27: 2,897,406	2,915,679
2,897,398	2,900,563	2,903,623	92: 2,870,377	2,895,082	28: 2,873,410	2,915,680
2,897,399	2,905,854	2,910,620	93: 2,874,331	2,901,672	2,879,453	2,917,678
2,903,616	2,913,622	2,912,619	2,881,358	228: 2,901,673	2,879,454	103: 2,888,615
2,909,703	2,916,664	39.3: 2,888,609	97: 2,869,037	230: 2,869,038	2,917,674	2,914,707
2,910,615	2,867,750	2,888,610	2,870,378	2,874,334	29: 2,874,337	108: 2,889,494
2,911,561	2,873,405	2,889,488	2,918,605	2,874,335	2,909,709	109: 2,880,380
2,911,562	2,879,447	2,890,384	99: 2,871,409	2,894,174	31: 2,895,085	2,882,454
2,914,696	2,880,364	2,892,963	100: 2,875,378	2,908,846	35: 2,871,415	2,907,927
2,869,025	2,881,356	2,896,117	2,878,421	234: 2,907,922	2,892,127	2,907,928
2,875,371	2,884,562	2,905,858	2,889,489	237: 2,877,386	36: 2,875,382	2,886,745
2,882,444	2,892,123	2,905,859	2,902,624	239: 2,916,671	2,884,568	2,916,674
2,887,611	2,898,510	2,914,700	2,906,923	240: 2,877,387	2,902,625	113: 2,878,430
2,888,601	2,901,664	39.51: 2,869,031	2,911,569	241: 2,900,576	2,902,626	116: 2,902,631
2,901,661	2,907,918	2,869,032	103: 2,897,403	2,910,623	40: 2,896,127	2,869,042
2,906,916	2,911,564	2,870,375	2,913,629	219,918,383	43: 2,905,865	2,869,043
2,916,661	2,917,659	2,894,171	106: 2,875,379	248: 2,901,674	46: 2,894,176	2,876,394
12: 2,871,401	2,918,602	2,899,603	2,898,514	2,913,631	47: 2,897,407	2,883,586
2,872,612	23: 2,880,365	2,901,666	107: 2,916,668	250: 2,897,405	48: 2,914,703	2,883,587
2,872,613	2,898,511	39.53: 2,884,563	108: 2,880,373	252: 2,882,453	51: 2,912,622	2,897,410
2,873,404	24: 2,869,026	2,876,383	2,887,618	2,883,583	2,914,704	2,902,632
2,874,328	2,869,027	2,877,380	2,899,605	257: 2,900,577	54: 2,884,569	2,910,629
2,875,372	2,872,614	2,906,920	2,913,630	272: 2,896,125	60: 2,884,570	2,910,630
2,875,373	2,885,596	39.63: 2,871,406	111: 2,883,580	273: 2,915,677	2,897,408	2,914,708
2,877,376	2,896,113	2,882,448	2,895,078	277: 2,916,672	61: 2,886,744	2,916,675
2,879,442	2,906,919	2,897,401	118: 2,882,448	284: 2,878,425	2,896,128	123: 2,870,382
2,884,557	2,913,623	39.69: 2,871,407	119: 2,896,121	289: 2,880,375	2,906,925	2,871,417
2,884,558	2,869,028	2,906,921	120: 2,871,410	289: 2,880,376	70: 2,881,362	2,887,622
2,886,739	2,870,372	2,899,604	121: 2,878,422	292: 2,876,388	2,890,389	2,887,623
2,888,602	2,871,404	39.77: 2,887,615	135: 2,899,606	320: 2,885,598	80: 2,892,128	2,891,197
2,890,376	2,873,406	2,915,675	136: 2,905,861	325: 2,911,570	2,902,627	2,892,970
2,892,122	2,887,613	41: 2,912,620	138: 2,874,332	335: 2,883,584	2,903,625	2,897,411
2,895,073	2,890,380	2,918,603	2,877,382	336: 2,917,671	2,908,847	2,898,524
2,896,110	2,895,074	43: 2,875,376	2,883,581	340: 2,911,571	83: 2,881,363	2,904,726
2,899,600	2,905,855	44: 2,895,076	2,885,597	353: 2,879,433	87: 2,912,623	2,905,866
2,901,662	2,914,697	49: 2,879,449	151: 2,882,450	Class 316	91: 2,867,753	2,907,929
2,901,663	2,919,379	2,880,369	153: 2,895,079	1: 2,915,355	98: 2,917,675	2,913,635
2,903,617	2,869,029	52: 2,875,377	155: 2,918,606	2: 2,884,298	99: 2,870,381	2,915,681
2,903,618	2,869,030	55: 2,877,381	157: 2,872,622	2,871,416	2,871,416	2,917,679
2,910,616	2,870,373	2,892,964	158: 2,889,490	2,872,624	2,872,624	124: 2,898,525
2,910,617	2,871,405	58: 2,879,450	159: 2,891,195	2,910,337	2,873,411	2,913,636
2,912,614	2,872,615	2,890,385	160: 2,891,196	4: 2,871,086	2,874,338	2,914,709
2,912,615	2,872,616	59: 2,870,376	162: 2,905,862	6: 2,881,042	2,876,389	128: 2,913,637
2,913,620	2,874,329	2,906,922	163: 2,874,333	9: 2,877,078	2,878,429	130: 2,869,044
2,916,662	2,876,382	2,916,667	165: 2,881,359	17: 2,865,609	2,885,600	2,876,395
2,918,601	2,877,379	61: 2,911,567	166: 2,878,423	18: 2,903,319	2,895,086	2,892,971
2,919,377	2,879,448	69: 2,878,418	2,906,924	19: 2,868,610	2,904,725	2,894,178
13: Re.24,740	2,880,366	72: 2,880,370	2,915,676	2,871,087	2,914,705	2,905,867
2,875,374	2,880,367	77: 2,886,743	2,918,607	2,874,017	2,916,673	2,905,868
2,880,358	2,882,446	80: 2,873,407	165: 2,900,573	2,882,116	2,917,676	131: 2,885,604
2,880,359	2,882,447	81: 2,876,384	166: 2,877,383	2,910,338	2,917,677	132: 2,900,391
2,880,360	2,886,740	82: 2,888,611	2,882,451	2,882,117	2,917,678	133.5: 2,885,605
2,880,361	2,886,741	2,910,621	2,892,125	2,914,371	2,910,627	134: 2,909,711
2,880,362	2,888,607	2,914,701	2,918,608	21: 2,878,093	2,912,624	135: 2,869,045
2,880,363	2,890,381	2,917,663	2,892,967	2,907,619	101: 2,869,040	2,882,455
2,890,377	2,890,382	2,918,604	2,898,515	23: 2,890,920	2,869,041	2,882,456
2,890,378	2,891,192	83: 2,869,033	2,909,705	25: 2,889,188	2,872,625	137: 2,887,624
2,904,722	2,892,961	2,872,618	2,919,382	2,897,036	2,876,390	2,892,132
2,906,917	2,896,114	2,884,564	2,918,609	2,899,257	2,876,391	139: 2,895,088
2,907,915	2,896,115	2,887,616	169: 2,876,385	2,913,297	2,876,392	140: 2,871,418
2,910,618	2,898,512	2,890,386	2,881,360	2,892,665	2,876,393	2,883,588
2,915,671	2,899,601	2,890,387	2,883,582	2,913,298	2,877,388	2,896,129
2,915,672	2,900,564	2,892,124	2,884,566	27: 2,917,357	2,877,399	2,901,675
2,917,658	2,900,565	2,894,172	2,892,968	30: 2,894,795	2,879,455	2,914,710
14: 2,871,402	2,901,665	2,900,570	2,896,122	31: 2,906,580	2,880,378	2,917,680
2,879,443	2,903,621	2,907,920	2,900,574	Class 317	2,880,379	141: 2,869,046
2,879,444	2,903,622	2,911,568	2,917,667	2: 2,879,452	2,884,571	2,876,396
2,884,559	2,905,856	2,912,621	2,876,386	2,885,599	2,885,601	2,892,133
2,888,603	2,905,857	2,917,664	2,898,516	2,885,602	2,885,602	2,908,848
2,888,604	2,906,918	2,917,665	171: 2,876,387	2,888,614	2,888,614	142: 2,867,754
2,890,379	2,907,919	2,917,666	173: 2,891,196	2,889,491	2,889,493	2,871,419
2,897,400	2,911,565	2,917,667	174: 2,870,379	2,904,724	2,890,390	2,889,495
2,910,619	2,912,618	2,869,035	2,917,669	2,907,923	2,892,129	2,891,198
2,912,616	2,913,624	2,871,408	176: 2,871,411	3: 2,890,388	2,892,130	2,907,930
15: 2,879,445	2,913,625	2,872,619	177: 2,896,123	5: 2,909,706	2,892,131	2,912,626
2,888,605	2,916,665	2,874,330	183: 2,873,408	2,910,624	2,894,177	2,913,638
2,902,623	2,917,660	2,883,578	2,877,384	2,919,384	2,895,087	2,919,385
2,905,853	2,917,661	2,883,579	2,905,863	6: 2,878,426	2,897,409	146: 2,889,496
2,909,704	29: 2,915,673	2,884,565	2,910,622	2,878,427	2,898,517	2,894,179
16: Re.24,673	30: 2,867,751	2,885,612	2,916,669	2,887,621	2,898,519	147: 2,897,412
2,881,355	2,872,617	2,892,965	186: 2,878,424	9: 2,895,083	2,898,521	2,908,526
2,888,606	2,880,368	2,900,571	2,904,723	2,896,126	2,898,522	148: 2,894,180
2,907,916	2,919,380	2,900,572	191: 2,882,452	2,905,864	2,898,523	2,904,727
2,919,378	31: 2,892,962	2,901,668	195: 2,899,607	11: 2,874,336	2,898,524	148.5: 2,874,339
17: 2,911,563	2,914,698	2,913,627	198: 2,892,969	2,889,492	2,899,608	2,879,456
18: 2,900,562	2,914,699	2,916,666	200: 2,896,124	12: 2,878,428	2,900,580	2,896,130
2,903,619	2,916,666	2,919,381	202: 2,877,385	2,885,613	2,902,628	2,897,413
2,903,620	2,916,667	2,881,357	204: 2,887,620	2,900,578	2,902,629	2,906,926
19: 2,916,663	2,887,614	2,888,608	2,878,419	13: 2,869,039	2,902,630	2,907,931
20: 2,882,445	2,890,383	2,878,420	2,892,126	2,917,672	2,903,626	2,907,932
2,913,621					2,903,627	2,918,609



Class 317—Con.		230: 2, 871, 426	237: 2, 909, 716	28: 2, 869, 058	166: 2, 871, 433	467: 2, 884, 581	23: 2, 905, 881
		2, 872, 629	2, 916, 678	2, 872, 631	167: 2, 914, 718	2, 886, 758	24: 2, 891, 211
149: 2, 890, 392		2, 881, 368	238: 2, 887, 632	2, 874, 343	169: 2, 867, 760	2, 888, 624	25: 2, 879, 463
2, 896, 131		2, 884, 575	2, 887, 633	2, 877, 398	170: 2, 876, 405	2, 888, 625	2, 882, 478
2, 905, 869		2, 885, 607	239: 2, 871, 427	2, 878, 434	171: 2, 898, 533	2, 899, 621	2, 888, 630
2, 911, 573		2, 890, 394	2, 877, 396	2, 881, 375	175: 2, 916, 682	2, 913, 655	2, 896, 147
2, 914, 711		2, 897, 418	240: 2, 874, 341	2, 885, 611	176: 2, 871, 434	2, 915, 691	27: 2, 872, 636
150: 2, 901, 676		2, 900, 579	2, 878, 432	2, 885, 612	186: 2, 891, 207	2, 917, 695	2, 881, 383
2, 911, 574		2, 907, 933	2, 891, 203	2, 885, 613	197: 2, 896, 143	2, 918, 615	2, 891, 212
151: 2, 906, 927		2, 908, 849	2, 906, 932	2, 886, 751	204: 2, 872, 632	2, 886, 759	2, 899, 627
153: 2, 906, 928		2, 910, 633	241: 2, 873, 414	2, 886, 752	207: 2, 884, 579	2, 870, 392	2, 899, 628
155.5: 2, 878, 431		2, 917, 683	2, 881, 371	2, 886, 753	208: 2, 885, 619	2, 888, 626	2, 905, 882
		2, 909, 712	233: 2, 877, 391	2, 887, 636	2, 894, 189	2, 899, 622	31: 2, 911, 583
156: 2, 882, 457		234: 2, 875, 384	2, 889, 500	2, 889, 504	2, 910, 637	2, 915, 692	39: 2, 899, 629
2, 890, 393		2, 876, 399	2, 892, 136	2, 889, 505	2, 910, 638	2, 908, 553	43: 2, 876, 419
2, 913, 639		2, 877, 392	2, 898, 528	2, 889, 506	2, 915, 690	2, 908, 853	2, 917, 698
2, 914, 712		2, 877, 393	2, 903, 631	2, 894, 185	2, 916, 683	2, 905, 877	48: 2, 880, 386
157: 2, 870, 383		2, 877, 394	2, 903, 632	2, 897, 426	2, 918, 614	2, 899, 063	2, 880, 387
2, 880, 381		2, 877, 395	2, 915, 687	2, 901, 680	210: 2, 886, 756	2, 871, 436	2, 882, 479
2, 887, 625		2, 879, 458	2, 918, 613	2, 904, 734	211: 2, 899, 618	2, 873, 418	2, 883, 600
2, 905, 870		2, 881, 369	242: 2, 871, 428	2, 905, 874	2, 906, 935	2, 876, 409	2, 883, 601
158: 2, 871, 420		2, 881, 370	2, 876, 402	2, 906, 933	212: 2, 869, 061	2, 884, 582	2, 883, 602
2, 888, 616		2, 883, 591	2, 892, 137	2, 906, 934	221: 2, 874, 344	2, 886, 760	2, 883, 603
2, 889, 497		2, 883, 592	2, 895, 093	2, 907, 936	224: 2, 896, 144	2, 889, 509	2, 884, 583
2, 900, 582		2, 884, 576	2, 899, 611	2, 907, 937	2, 898, 534	2, 891, 208	2, 884, 584
2, 912, 627		2, 885, 608	244: 2, 900, 585	2, 909, 717	2, 898, 535	2, 895, 098	2, 884, 585
2, 913, 640		2, 886, 746	245: 2, 883, 593	2, 913, 648	2, 900, 587	2, 896, 145	2, 884, 586
159: 2, 869, 047		2, 886, 747	2, 889, 501	29: 2, 867, 759	225: 2, 890, 398	2, 898, 538	2, 889, 511
2, 884, 572		2, 887, 627	2, 889, 612	2, 870, 393	2, 900, 588	2, 901, 683	2, 895, 101
2, 888, 617		2, 887, 628	2, 892, 138	2, 871, 429	227: 2, 876, 406	2, 905, 878	2, 904, 741
2, 897, 414		2, 887, 629	2, 899, 613	2, 884, 577	2, 919, 391	2, 905, 883	2, 905, 883
2, 915, 682		2, 887, 630	2, 912, 628	2, 886, 754	228: 2, 894, 190	2, 910, 639	2, 905, 884
2, 918, 610		2, 888, 618	246: 2, 867, 757	2, 886, 755	229: 2, 894, 191		2, 870, 394
163: 2, 882, 458		2, 889, 498	2, 896, 138	2, 889, 507	230: 2, 867, 761	1: 2, 885, 622	2, 875, 397
165: 2, 869, 048		2, 890, 395	2, 904, 732	2, 907, 938	231: 2, 877, 400	2, 887, 643	2, 878, 438
2, 880, 382		2, 892, 135	2, 911, 576	2, 911, 577	232: 2, 874, 345	2, 889, 510	2, 888, 631
2, 885, 606		2, 896, 134	2, 916, 679	2, 914, 717	2, 912, 631	2, 891, 209	2, 878, 439
2, 894, 181		2, 896, 135	249: 2, 881, 372	2, 915, 689	240: 2, 872, 633	2, 905, 879	2, 910, 641
2, 895, 089		2, 896, 136	2, 892, 138	2, 870, 386	247: 2, 919, 392	2, 899, 623	2, 883, 604
2, 909, 713		2, 897, 419	2, 897, 422	2, 871, 430	251: 2, 902, 634	3: 2, 869, 064	2, 883, 605
2, 916, 676		2, 897, 420	2, 903, 633	2, 871, 431	254: 2, 867, 762	7: 2, 904, 739	2, 875, 398
166: 2, 869, 049		2, 899, 610	2, 910, 635	2, 883, 595	2, 890, 399	18: 2, 869, 065	2, 887, 644
2, 910, 631		2, 902, 633	2, 913, 644	2, 885, 614	2, 890, 400	28: 2, 877, 402	2, 907, 944
167: 2, 871, 421		2, 903, 628	2, 913, 645	2, 889, 508	2, 900, 589	32: 2, 898, 539	
2, 872, 626		2, 903, 629	250: 2, 867, 758	2, 896, 142	2, 911, 578	45: 2, 885, 623	Class 322
171: 2, 869, 050		2, 904, 731	2, 896, 139	2, 901, 681	257: 2, 888, 622	46: 2, 916, 686	2: 2, 881, 384
2, 876, 397		2, 906, 930	253: 2, 873, 415	2, 907, 939	258: 2, 902, 635	48: 2, 876, 410	2, 883, 606
2, 881, 365		2, 907, 934	2, 876, 403	2, 917, 690	259: 2, 892, 674	2, 899, 624	12: 2, 883, 607
2, 883, 559		2, 907, 935	254: 2, 913, 646	2, 873, 416	261: 2, 904, 737	59: 2, 900, 591	13: 2, 871, 438
2, 897, 415		2, 908, 850	257: 2, 874, 342	2, 875, 389	2, 912, 632		17: 2, 890, 404
2, 917, 681		2, 909, 714	2, 875, 386	2, 883, 596	266: 2, 909, 718		2, 908, 856
172: 2, 876, 398		2, 911, 575	2, 901, 678	2, 887, 637	268: 2, 912, 633	2: 2, 880, 385	2, 911, 584
2, 898, 527		2, 914, 715	258: 2, 870, 385	2, 905, 875	269: 2, 876, 407	2, 881, 380	24: 2, 879, 464
176: 2, 867, 755		2, 915, 684	2, 872, 630	2, 878, 435	270: 2, 890, 401	2, 890, 403	2, 886, 762
2, 913, 641		2, 915, 685	2, 886, 749	2, 904, 735	2, 911, 579	2, 894, 194	2, 896, 148
2, 914, 713		2, 915, 686	2, 887, 634	2, 913, 649	282: 2, 913, 651	2, 896, 146	2, 899, 066
2, 915, 683		2, 917, 684	2, 890, 396	2, 879, 460	283: 2, 884, 580	2, 899, 625	2, 877, 404
177: 2, 869, 051		2, 917, 685	2, 892, 139	2, 889, 619	286: 2, 885, 620	2, 903, 636	2, 883, 608
178: 2, 904, 728		2, 917, 686	2, 892, 972	2, 870, 387	290: 2, 898, 536	2, 904, 740	2, 883, 609
180: 2, 883, 590		2, 918, 612	2, 897, 423	2, 878, 436	293: 2, 875, 391	2, 906, 938	2, 886, 763
182: 2, 900, 583		2, 919, 386	2, 904, 733	2, 883, 597	298: 2, 875, 392	2, 917, 696	2, 886, 764
187: 2, 867, 756		2, 919, 387	2, 916, 680	2, 887, 638	302: 2, 898, 537	2, 919, 393	2, 899, 630
2, 916, 677		2, 919, 388	259: 2, 882, 472	2, 887, 639	308: 2, 871, 435	2, 912, 634	2, 912, 635
188: 2, 887, 626		2, 899, 053	2, 899, 614	2, 894, 186	309: 2, 913, 652	2, 916, 687	2, 913, 656
2, 895, 090		2, 899, 054	260: 2, 881, 373	2, 885, 615	311: 2, 869, 062	7: 2, 892, 141	27: 2, 873, 420
189: 2, 871, 422		2, 899, 055	2, 887, 649	2, 889, 509	317: 2, 867, 763	2, 892, 142	2, 879, 465
191: 2, 877, 390		2, 899, 056	2, 891, 204	2, 891, 204	318: 2, 886, 767	2, 894, 195	2, 906, 939
2, 892, 134		2, 899, 057	2, 913, 647	2, 913, 648	325: 2, 883, 598	2, 905, 880	2, 879, 466
2, 899, 609		2, 899, 058	2, 917, 687	2, 878, 437	2, 894, 196	2, 911, 581	2, 882, 480
2, 904, 729		2, 899, 059	2, 917, 688	2, 885, 616	327: 2, 870, 391	2, 911, 582	2, 885, 624
192: 2, 873, 412		2, 899, 060	261: 2, 873, 412	2, 886, 748	2, 890, 738	8: 2, 900, 592	2, 886, 765
2, 895, 091		2, 899, 061	2, 875, 387	2, 887, 634	2, 916, 684	2, 910, 640	2, 892, 143
195: 2, 884, 573		2, 899, 062	2, 878, 433	2, 887, 635	328: 2, 881, 379	2, 914, 719	2, 896, 149
2, 897, 416		2, 899, 063	2, 903, 634	2, 887, 636	331: 2, 875, 393	9: 2, 888, 627	2, 901, 940
2, 901, 677		2, 899, 064	2, 917, 688	2, 887, 637	332: 2, 876, 408	11: 2, 872, 634	2, 918, 617
196: 2, 882, 459		2, 899, 065	262: 2, 885, 610	2, 887, 638	335: 2, 876, 409	2, 888, 628	31: 2, 886, 766
197: 2, 872, 627		2, 899, 066	2, 886, 748	2, 887, 639	337: 2, 885, 621	2, 895, 099	2, 887, 645
2, 872, 628		2, 899, 067	2, 887, 631	2, 887, 640	338: 2, 886, 768	2, 895, 100	2, 911, 585
2, 882, 460		2, 899, 068	2, 888, 619	2, 887, 641	339: 2, 887, 649	2, 911, 586	32: 2, 879, 467
2, 891, 199		2, 899, 069	2, 889, 499	2, 887, 642	340: 2, 888, 620	2, 911, 587	2, 882, 481
2, 905, 871		2, 899, 070	2, 890, 397	2, 887, 643	341: 2, 889, 531	2, 911, 588	2, 885, 625
198: 2, 875, 383		2, 899, 071	2, 891, 205	2, 887, 644	342: 2, 890, 402	2, 911, 589	2, 900, 594
2, 881, 366		2, 899, 072	2, 892, 140	2, 887, 645	343: 2, 891, 206	2, 911, 590	2, 918, 618
2, 884, 574		2, 899, 073	2, 892, 141	2, 887, 646	344: 2, 892, 141	2, 911, 591	33: 2, 919, 394
2, 891, 200		2, 899, 074	2, 892, 142	2, 887, 647	345: 2, 893, 446	2, 911, 592	36: 2, 869, 067
2, 918, 611		2, 899, 075	2, 892, 143	2, 887, 648	346: 2, 894, 197	2, 911, 593	2, 897, 428
199: 2, 881, 367		2, 899, 076	2, 892, 144	2, 887, 649	347: 2, 895, 097	2, 911, 594	2, 898, 540
2, 896, 132		2, 899, 077	2, 892, 145	2, 887, 650	348: 2, 896, 147	2, 911, 595	37: 2, 883, 610
2, 904, 730		2, 899, 078	2, 892, 146	2, 887, 651	349: 2, 897, 427	2, 911, 596	2, 912, 636
2, 905, 872		2, 899, 079	2, 892, 147	2, 887, 652	350: 2, 898, 532	2, 911, 597	39: 2, 870, 395
200: 2, 873, 413		2, 899, 080	2, 892, 148	2, 887, 653	351: 2, 899, 633	2, 911, 598	2, 903, 641
2, 917, 682		2, 899, 081	2, 892, 149	2, 887, 654	352: 2, 900, 590	2, 911, 599	40: 2, 883, 611
201: 2, 894, 182		2, 899, 082	2, 892, 150	2, 887, 655	353: 2, 901, 684	2, 911, 600	42: 2, 891, 213
2, 895, 092		2, 899, 083	2, 892, 151	2, 887, 656	354: 2, 902, 635	2, 911, 601	47: 2, 871, 439
2, 906, 929		2, 899, 084	2, 892, 152	2, 887, 657	355: 2, 903, 636	2	



**Class 323**

4: 2,870,396  
2,888,632  
2,897,429  
7: 2,882,482  
2,888,633  
2,915,693  
9: 2,892,145  
22: Re.24,598  
Re.24,671  
2,867,764  
2,869,068  
2,878,440  
2,885,626  
2,889,512  
2,896,151  
2,897,430  
2,897,431  
2,897,432  
2,904,742  
2,906,941  
2,912,637  
2,912,638  
2,917,700  
29: 2,888,634  
43.5: 2,875,399  
2,909,721  
2,913,657  
2,915,694  
44: 2,878,441  
2,891,214  
2,896,152  
2,899,631  
2,917,701  
45: 2,886,767  
47: 2,882,483  
2,884,587  
51: 2,882,484  
2,888,635  
2,912,639  
53: 2,880,388  
56: 2,870,397  
2,885,627  
2,904,743  
57: 2,883,612  
58: 2,873,421  
2,899,632  
60: 2,876,412  
2,907,945  
2,914,721  
61: 2,870,398  
64: 2,887,646  
2,898,543  
65: 2,911,586  
66: 2,869,069  
2,885,628  
2,886,768  
2,892,146  
2,901,684  
2,908,857  
2,914,722  
2,915,695  
2,918,619  
69: 2,898,544  
2,917,702  
74: 2,867,765  
2,871,440  
2,875,400  
2,885,629  
2,901,685  
2,909,722  
75: 2,870,399  
2,878,442  
2,885,630  
2,888,636  
76: 2,906,942  
77: 2,898,545  
79: 2,892,147  
2,894,197  
89: 2,870,417  
2,871,441  
2,871,442  
2,873,422  
2,883,613  
2,884,588  
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2,888,637  
2,892,148  
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2,894,198  
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2,910,643  
2,912,640  
2,916,689  
2,918,620  
2,919,395  
93: 2,887,647  
100: 2,897,433

**Class 324**

109: 2,883,614  
114: 2,901,686  
122: 2,869,070  
2,917,703  
125: 2,887,648  
5: 2,871,443  
2,878,443  
2,878,444  
2,888,638  
2,894,199  
2,908,858  
2,911,587  
2,912,641  
2,913,658  
2,916,690  
1: 2,871,444  
2,872,637  
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2,874,347  
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2,884,589  
2,885,632  
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2,891,215  
2,901,687  
2,915,696  
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2,916,691  
2,917,704  
2: 2,890,405  
5: 2,919,396  
6: 2,874,348  
2,887,650  
2,900,595  
2,901,688  
2,901,689  
2,903,642  
2,919,397  
8: 2,902,636  
10: 2,876,413  
2,894,200  
2,899,633  
2,902,637  
13: 2,875,401  
2,894,201  
14: 2,904,745  
15: 2,892,149  
2,899,634  
2,913,659  
16: 2,867,766  
2,875,402  
2,907,948  
2,908,859  
17: 2,898,546  
19: 2,910,644  
20: 2,894,202  
2,904,746  
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22: 2,870,400  
2,881,385  
2,901,690  
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23: 2,897,434  
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24: 2,885,634  
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26: 2,873,424  
2,882,485  
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2,883,615  
2,902,638  
2,903,644  
27: 2,896,154  
28: 2,877,405  
2,885,635  
2,888,639  
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29: 2,915,698  
29.5: 2,899,635  
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30: 2,869,071  
2,871,445  
2,876,414  
2,879,469  
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2,886,771  
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2,890,406  
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2,897,434  
2,898,549  
2,899,636

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33: 2,884,591  
2,897,437  
2,904,749  
2,916,693  
34: Re.24,641  
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2,870,401  
2,878,445  
2,879,470  
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2,888,641  
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37: 2,869,073  
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40: 2,918,621  
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41: 2,869,074  
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42: 2,869,075  
43: 2,876,415  
2,877,407  
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2,891,216  
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45: 2,906,948  
2,914,728  
47: 2,918,622  
51: 2,869,076  
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2,901,692  
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52: 2,901,693  
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53: 2,899,638  
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54: 2,873,425  
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55: 2,896,156  
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56: 2,873,426  
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57: 2,870,402  
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57: 2,901,695  
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58: 2,876,416  
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58.5: 2,877,410  
2,882,493  
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59: 2,890,411  
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60: 2,906,949  
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61: 2,870,403  
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2,884,593  
2,892,152  
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2,904,751  
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2,908,861  
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62: 2,872,641  
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2,891,218  
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2,898,551  
2,908,862  
2,912,644  
63: 2,906,951  
2,919,400  
64: 2,871,446  
2,896,159  
65: 2,870,404  
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2,885,637  
2,906,952  
2,912,645  
66: 2,869,077  
67: 2,908,863  
68: 2,877,412  
2,877,413  
2,877,414  
2,881,390  
2,882,495  
2,885,638  
2,886,775  
2,887,653  
2,896,160  
2,904,752  
2,905,887  
2,905,888  
2,910,647  
2,913,660  
2,915,702  
69: 2,913,661  
2,915,703  
70: 2,877,415  
2,881,391  
2,887,654  
2,898,552  
2,905,889  
2,905,890  
2,906,953  
2,913,662  
2,914,730  
71: 2,869,078  
2,888,642  
2,912,646  
72: 2,900,598  
72.5: 2,883,619  
2,894,205  
2,912,647  
2,916,698  
2,916,699  
73: 2,886,776  
2,892,153  
2,892,978  
2,902,646  
2,905,891  
2,905,892  
2,912,648  
2,917,706  
74: 2,890,412  
2,890,413  
2,919,401  
76: 2,876,417  
2,917,707

77: 2,875,403  
2,897,442  
2,901,697  
2,905,893  
2,905,894  
2,906,954  
2,906,955  
2,913,663  
78: 2,867,707  
2,886,777  
2,891,220  
2,900,599  
2,900,600  
2,901,698  
2,901,699  
2,902,647  
2,908,864  
2,908,865  
2,913,664  
2,919,402  
79: 2,878,448  
2,896,161  
2,896,162  
2,899,639  
2,900,601  
2,902,648  
2,905,895  
2,909,727  
2,919,403  
80: 2,916,700  
81: 2,879,473  
82: 2,888,643  
2,889,516  
2,902,649  
83: 2,874,352  
2,877,416  
2,906,956  
2,911,592  
2,918,625  
2,919,404  
87: 2,875,404  
2,905,896  
2,911,593  
89: 2,880,391  
2,902,650  
94: 2,890,414  
2,910,648  
95: 2,875,405  
2,877,417  
2,884,595  
2,887,655  
2,890,415  
2,891,221  
2,899,640  
2,901,700  
2,913,665  
97: 2,873,427  
2,874,353  
2,892,154  
2,897,443  
2,907,952  
2,908,866  
98: 2,881,392  
2,905,897  
2,906,957  
99: 2,870,406  
2,878,449  
2,880,392  
2,889,517  
2,904,753  
2,912,649  
100: 2,880,393  
2,886,178  
2,910,649  
102: 2,916,701  
103: 2,870,407  
2,895,105  
2,897,444  
2,905,898  
2,914,731  
2,915,704  
104: 2,888,644  
106: 2,883,620  
2,896,163  
2,912,650  
107: 2,909,728  
2,919,405  
2,919,406  
110: 2,902,651  
2,919,407  
111: 2,872,642  
2,883,621  
2,897,445  
2,915,705  
2,916,702  
2,917,447  
114: 2,871,447  
115: 2,870,408  
2,885,639  
2,889,518  
2,905,899  
2,915,706  
117: 2,888,645  
2,892,155  
2,901,701

118: 2,879,474  
119: 2,872,643  
121: 2,878,450  
123: Re.24,756  
2,877,418  
2,903,646  
125: 2,882,496  
2,896,164  
2,913,666  
127: 2,886,779  
2,889,519  
2,905,900  
2,915,707  
130: 2,874,354  
131: 2,873,428  
132: 2,870,409  
133: 2,877,419  
2,910,650  
137: 2,883,622  
2,884,596  
2,900,602  
2,909,729  
2,913,667  
2,917,708  
138: 2,871,448  
2,875,406  
2,879,475  
2,879,476  
2,900,603  
2,900,604  
2,905,901  
140: 2,875,407  
2,883,623  
2,886,780  
2,896,165  
2,896,166  
2,913,668  
141: 2,870,410  
2,875,408  
142: 2,879,477  
2,880,394  
2,894,207  
2,897,446  
2,900,605  
2,919,408  
146: 2,867,768  
2,867,769  
2,889,520  
147: 2,875,409  
2,897,447  
2,908,867  
149: 2,884,597  
150: 2,875,410  
2,883,624  
2,887,656  
2,907,953  
151: 2,875,411  
2,887,657  
2,901,702  
2,903,647  
152: 2,879,478  
2,879,479  
154: 2,867,770  
2,871,449  
2,871,450  
2,873,429  
2,882,497  
2,886,781  
2,886,782  
2,890,416  
2,899,641  
2,917,709  
155: 2,886,783  
2,896,167  
2,901,703  
156: 2,882,498  
2,896,170  
2,901,704  
2,901,705  
2,902,652  
2,904,754  
158: 2,867,771  
2,872,642  
2,872,643  
2,887,658  
2,892,156  
2,894,206  
2,895,106  
2,896,168  
2,897,448  
2,899,642  
2,906,958  
2,907,954  
2,909,730  
2,911,594  
2,913,669  
2,917,710

**Class 330**

8: 2,918,626  
9: 2,919,409  
13: 2,918,627  
39: 2,918,628  
51: 2,918,629  
53: 2,917,711

**Class 331**

4: 2,896,169  
2,897,449  
6: 2,917,713  
9: 2,905,902  
2,909,731  
17: 2,892,945  
2,899,643  
2,912,651  
18: 2,897,450  
2,914,732  
20: 2,905,903  
26: 2,908,868  
35: 2,905,904  
37: 2,892,944  
39: 2,914,733  
40: 2,894,208  
43: 2,913,670  
45: 2,917,714  
46: 2,898,553  
47: 2,903,648  
48: 2,901,706  
49: 2,906,959  
50: 2,913,671  
51: 2,906,960  
52: 2,919,412  
54: 2,903,649  
56: 2,903,650  
60: 2,897,451  
65: 2,913,672  
66: 2,916,703  
72: 2,898,554  
76: 2,897,452  
77: 2,915,708  
77: 2,906,961  
84: 2,912,652  
86: 2,899,645  
2,910,651  
87: 2,895,107  
2,908,870  
2,914,734  
2,919,414  
88: 2,910,652  
94: 2,894,209  
2,915,709  
96: 2,898,555  
2,899,646  
97: 2,899,647  
2,902,654  
107: 2,898,556  
108: 2,908,871  
2,910,653  
109: 2,898,557  
111: 2,916,705  
112: 2,902,655  
2,904,755  
2,915,710  
113: 2,894,210  
2,900,606  
2,905,906  
2,912,653  
2,916,704  
116: 2,909,732  
117: 2,894,211  
135: 2,896,171  
2,902,656  
143: 2,906,962  
144: 2,904,756  
2,906,963  
2,906,964  
2,911,595  
145: 2,897,453  
2,906,965  
148: 2,894,212  
151: 2,894,213  
159: 2,913,673  
165: 2,905,820  
2,910,654  
172: 2,899,649  
173: 2,901,707  
2,905,907  
174: 2,911,596  
176: 2,895,108  
2,906,966  
177: 2,907,955  
178: 2,906,967  
2,913,674  
180: 2,897,454  
2,904,757



**Class 332**

1: 2, 876, 418  
2, 887, 659  
2: 2, 876, 420  
2, 877, 420  
2, 878, 451  
2, 887, 660  
2, 898, 558  
4: 2, 917, 715  
7: 2, 888, 646  
2, 897, 455  
8: 2, 874, 355  
9: 2, 876, 419  
2, 877, 421  
2, 887, 661  
2, 889, 521  
2, 892, 979  
2, 902, 657  
2, 913, 675  
11: 2, 869, 079  
2, 888, 647  
2, 894, 214  
12: 2, 875, 412  
14: 2, 892, 980  
2, 894, 215  
2, 917, 716  
2, 919, 415  
15: 2, 917, 717  
16: 2, 870, 411  
2, 870, 412  
2, 879, 480  
2, 881, 393  
2, 887, 662  
2, 888, 648  
2, 890, 417  
2, 892, 981  
2, 900, 607  
2, 902, 658  
2, 906, 968  
2, 913, 676  
17: 2, 888, 649  
20: 2, 880, 395  
22: 2, 877, 422  
23: 2, 886, 784  
24: 2, 887, 663  
25: 2, 871, 451  
26: 2, 878, 452  
2, 906, 969  
2, 913, 677  
27: 2, 917, 718  
28: 2, 869, 080  
2, 884, 598  
29: 2, 919, 416  
31: 2, 870, 413  
2, 890, 418  
2, 906, 970  
37: 2, 877, 423  
38: 2, 877, 424  
41: 2, 872, 646  
2, 881, 394  
2, 907, 956  
43: 2, 875, 413  
44: 2, 870, 414  
2, 883, 625  
45: 2, 872, 647  
2, 896, 172  
47: 2, 902, 659  
49: 2, 883, 626  
51: 2, 870, 415  
2, 870, 416  
2, 881, 395  
2, 884, 599  
2, 902, 660  
2, 914, 735  
2, 914, 736  
52: 2, 875, 414  
2, 879, 481  
2, 879, 482  
2, 882, 499  
2, 895, 109  
2, 900, 608  
2, 911, 597  
2, 915, 711  
54: 2, 892, 157  
57: 2, 903, 652  
64: 2, 918, 631  
68: 2, 916, 706

**Class 333**

5: 2, 883, 627  
6: 2, 872, 648  
2, 874, 356  
2, 888, 650  
7: 2, 869, 081  
2, 870, 418  
2, 877, 425  
2, 879, 483  
2, 894, 216  
2, 896, 173  
2, 901, 708  
2, 905, 908  
2, 917, 719

8: 2, 891, 222  
2, 914, 737  
2, 915, 712  
9: 2, 867, 772  
2, 877, 426  
2, 877, 427  
2, 879, 484  
2, 884, 600  
2, 884, 601  
2, 887, 664  
2, 897, 456  
2, 899, 650  
2, 908, 872  
2, 913, 678  
10: 2, 870, 419  
2, 871, 452  
2, 896, 177  
2, 875, 415  
2, 883, 628  
2, 896, 174  
2, 897, 457  
2, 898, 559  
2, 901, 709  
11: 2, 867, 773  
2, 876, 421  
2, 880, 396  
2, 882, 500  
2, 885, 640  
2, 892, 982  
2, 903, 653  
2, 909, 733  
2, 918, 632  
2, 919, 417  
12: 2, 896, 175  
2, 903, 654  
13: 2, 879, 485  
2, 880, 397  
2, 884, 602  
2, 890, 419  
2, 892, 983  
2, 897, 458  
2, 903, 655  
2, 916, 707  
16: 2, 867, 774  
2, 881, 396  
17: 2, 867, 775  
2, 910, 655  
18: 2, 908, 873  
2, 908, 874  
2, 916, 708  
19: 2, 894, 217  
20: 2, 871, 453  
2, 879, 486  
2, 881, 397  
2, 890, 420  
21: 2, 867, 776  
2, 869, 082  
2, 881, 398  
2, 886, 785  
2, 894, 218  
2, 899, 651  
22: 2, 877, 428  
2, 880, 398  
2, 881, 399  
2, 884, 603  
2, 894, 219  
2, 901, 710  
2, 901, 711  
2, 908, 875  
24: 2, 875, 416  
2, 877, 429  
2, 883, 629  
2, 884, 604  
2, 887, 665  
2, 892, 158  
2, 892, 159  
2, 894, 220  
2, 895, 110  
2, 903, 656  
2, 909, 734  
2, 913, 679  
2, 915, 713  
26: 2, 877, 430  
2, 886, 786  
2, 892, 160  
2, 892, 161  
2, 908, 876  
27: 2, 874, 357  
2, 882, 501  
28: 2, 895, 111  
2, 896, 176  
2, 900, 609  
2, 914, 738  
29: 2, 869, 083  
2, 874, 358  
2, 892, 162  
2, 894, 221  
2, 907, 957  
2, 911, 598  
2, 916, 709  
30: 2, 867, 777  
2, 877, 431  
2, 894, 222  
2, 907, 958  
2, 910, 656  
2, 913, 680

31: 2, 885, 641  
2, 888, 651  
2, 892, 984  
2, 894, 223  
2, 895, 112  
2, 897, 459  
2, 903, 657  
2, 911, 599  
2, 915, 714  
2, 916, 710  
2, 916, 711  
2, 919, 418  
33: 2, 867, 778  
2, 870, 420  
2, 878, 453  
2, 896, 177  
2, 897, 460  
2, 898, 560  
2, 901, 712  
2, 907, 959  
2, 909, 735  
34: 2, 875, 417  
2, 894, 224  
35: 2, 873, 430  
2, 900, 610  
70: 2, 867, 779  
2, 888, 652  
2, 911, 600  
2, 913, 681  
2, 918, 633  
71: 2, 895, 113  
2, 905, 909  
2, 906, 971  
2, 906, 972  
2, 918, 634  
72: 2, 867, 780  
2, 877, 432  
2, 878, 454  
2, 886, 787  
2, 906, 973  
2, 908, 877  
2, 910, 657  
2, 913, 682  
73: 2, 867, 781  
2, 867, 782  
2, 877, 433  
2, 890, 421  
2, 892, 163  
2, 896, 178  
2, 915, 715  
2, 916, 712  
76: 2, 907, 960  
77: 2, 872, 649  
2, 890, 422  
2, 912, 656  
78: 2, 889, 522  
2, 890, 423  
2, 892, 985  
79: 2, 884, 605  
2, 918, 635  
80: 2, 869, 084  
2, 870, 421  
2, 892, 164  
2, 892, 165  
2, 899, 652  
2, 904, 758  
81: 2, 875, 418  
2, 880, 399  
2, 881, 400  
2, 884, 606  
2, 890, 424  
2, 891, 223  
2, 898, 561  
2, 903, 658  
2, 907, 961  
2, 909, 736  
2, 911, 601  
2, 885, 642  
2, 888, 653  
2, 890, 425  
2, 894, 225  
2, 903, 659  
2, 907, 962  
2, 907, 963  
2, 910, 658  
2, 913, 683  
2, 915, 717  
2, 918, 636  
2, 918, 637  
83: 2, 883, 630  
2, 911, 602  
2, 913, 684  
2, 913, 685  
2, 914, 739  
2, 919, 419  
84: 2, 913, 686  
2, 915, 718  
95: 2, 872, 650  
2, 897, 461  
96: 2, 894, 226  
2, 909, 737  
2, 915, 719  
97: 2, 876, 422  
2, 890, 426

97: 2, 894, 227  
2, 914, 740  
2, 918, 638  
98: 2, 869, 085  
2, 869, 086  
2, 876, 423  
2, 877, 434  
2, 879, 487  
2, 881, 401  
2, 882, 502  
2, 883, 631  
2, 883, 632  
2, 884, 607  
2, 891, 224  
2, 891, 225  
2, 892, 986  
2, 892, 987  
2, 894, 228  
2, 894, 229  
2, 895, 114  
2, 898, 562  
2, 903, 660  
2, 904, 759  
2, 905, 910  
2, 906, 974  
2, 906, 975  
2, 907, 964  
2, 908, 878  
2, 909, 738  
2, 910, 659  
2, 913, 687  
2, 914, 741

**Class 336**

5: 2, 911, 603  
10: 2, 915, 720  
20: 2, 880, 400  
30: 2, 869, 087  
2, 870, 422  
2, 882, 503  
2, 883, 633  
2, 884, 608  
2, 894, 230  
2, 897, 462  
2, 899, 653  
2, 909, 739  
2, 912, 657  
40: 2, 890, 427  
2, 906, 976  
58: 2, 872, 651  
2, 912, 658  
60: 2, 904, 760  
2, 912, 659  
65: 2, 897, 463  
2, 903, 661  
68: 2, 906, 977  
69: 2, 915, 721  
70: 2, 874, 359  
2, 905, 911  
73: 2, 905, 912  
75: 2, 897, 666  
79: 2, 886, 788  
82: 2, 901, 713  
2, 901, 714  
83: 2, 875, 419  
2, 894, 231  
2, 904, 761  
2, 905, 913  
84: 2, 904, 762  
2, 907, 965  
87: 2, 901, 715  
90: 2, 879, 488  
2, 889, 523  
2, 894, 232  
2, 909, 740  
2, 911, 604  
94: 2, 892, 166  
96: 2, 871, 454  
2, 880, 401  
2, 882, 504  
2, 882, 505  
2, 885, 643  
2, 903, 662  
2, 916, 713  
100: 2, 900, 611  
2, 909, 741  
110: 2, 869, 088  
2, 870, 423  
2, 899, 654  
2, 913, 688  
2, 916, 714  
115: 2, 915, 722  
116: 2, 895, 115  
117: 2, 905, 914  
119: 2, 885, 644  
120: 2, 883, 634  
2, 885, 645  
2, 910, 660  
123: 2, 867, 783  
2, 900, 612  
134: 2, 867, 784  
2, 879, 489  
2, 903, 663  
135: 2, 873, 431

135: 2, 901, 716  
136: 2, 881, 402  
2, 897, 464  
139: 2, 910, 661  
141: 2, 896, 179  
142: 2, 898, 563  
149: 2, 894, 233  
155: 2, 886, 789  
2, 886, 790  
2, 896, 180  
2, 915, 723  
165: 2, 907, 966  
174: 2, 892, 167  
175: 2, 913, 689  
178: 2, 867, 785  
180: 2, 872, 652  
181: 2, 905, 913  
182: 2, 904, 763  
183: 2, 878, 455  
185: 2, 918, 639  
192: 2, 869, 089  
2, 873, 432  
2, 875, 420  
2, 876, 424  
2, 883, 635  
2, 889, 524  
2, 906, 978  
2, 918, 640  
196: 2, 902, 661  
197: 2, 886, 791  
2, 898, 564  
198: 2, 899, 655  
200: 2, 874, 360  
2, 910, 662  
2, 911, 605  
207: 2, 892, 168  
209: 2, 874, 361  
210: 2, 882, 506  
2, 897, 465  
2, 908, 879  
2, 910, 663  
211: 2, 899, 656  
212: 2, 909, 742  
213: 2, 892, 169  
2, 908, 880  
215: 2, 889, 525  
2, 912, 660  
217: 2, 890, 428  
2, 896, 181  
2, 898, 565  
2, 907, 967  
218: 2, 906, 979  
221: 2, 872, 653  
2, 885, 646  
2, 888, 654  
2, 907, 968  
223: 2, 882, 507  
2, 901, 717  
234: 2, 896, 182

**Class 338**

1: 2, 899, 657  
2: 2, 889, 526  
2, 899, 658  
2, 913, 690  
3: 2, 913, 691  
4: 2, 889, 527  
2, 906, 980  
2, 909, 743  
2, 918, 641  
6: 2, 889, 528  
2, 900, 613  
2, 905, 916  
2, 909, 744  
2, 913, 692  
2, 913, 693  
8: 2, 909, 745  
9: 2, 892, 988  
15: 2, 907, 969  
17: 2, 899, 659  
20: 2, 904, 764  
21: 2, 914, 742  
23: 2, 903, 664  
2, 915, 724  
27: 2, 906, 981  
28: 2, 888, 655  
2, 890, 429  
32: 2, 894, 234  
35: 2, 894, 765  
38: 2, 891, 226  
39: 2, 898, 566  
40: 2, 908, 881  
2, 901, 718  
2, 914, 743  
2, 915, 725  
2, 916, 715  
42: 2, 892, 170  
2, 911, 606  
43: 2, 903, 665  
44: 2, 890, 430  
48: 2, 913, 694  
51: 2, 902, 662  
52: 2, 894, 235

52: 2, 915, 726  
57: 2, 909, 746  
58: 2, 912, 661  
62: 2, 891, 227  
76: 2, 890, 431  
89: 2, 918, 642  
91: 2, 896, 183  
92: 2, 898, 567  
95: 2, 918, 643  
97: 2, 896, 184  
105: 2, 897, 466  
106: 2, 906, 982  
116: 2, 894, 236  
2, 906, 983  
117: 2, 898, 568  
128: 2, 890, 432  
130: 2, 909, 747  
131: 2, 908, 882  
135: 2, 901, 719  
137: 2, 916, 716  
143: 2, 899, 660  
144: 2, 899, 661  
148: 2, 912, 662  
149: 2, 900, 614  
150: 2, 894, 237  
151: 2, 907, 970  
154: 2, 916, 717  
2, 917, 720  
158: 2, 909, 748  
163: 2, 901, 720  
2, 909, 749  
164: 2, 914, 744  
2, 917, 721  
166: 2, 905, 917  
170: 2, 912, 663  
171: 2, 906, 984  
174: 2, 894, 238  
2, 899, 662  
176: 2, 900, 615  
2, 902, 663  
2, 902, 664  
2, 904, 766  
2, 909, 750  
180: 2, 892, 171  
2, 895, 116  
2, 898, 569  
184: 2, 915, 727  
190: 2, 909, 751  
2, 915, 728  
202: 2, 889, 529  
2, 896, 185  
210: 2, 905, 918  
215: 2, 908, 883  
224: 2, 905, 919  
226: 2, 909, 752  
229: 2, 912, 664  
231: 2, 915, 729  
237: 2, 898, 570  
238: 2, 898, 571  
2, 899, 663  
239: 2, 892, 989  
2, 897, 467  
240: 2, 899, 664  
258: 2, 901, 721  
261: 2, 888, 656  
262: 2, 891, 228  
293: 2, 907, 971  
298: 2, 909, 753  
300: 2, 910, 664  
309: 2, 895, 117  
2, 915, 730  
311: 2, 904, 767  
317: 2, 913, 695  
325: 2, 899, 665  
329: 2, 899, 666  
330: 2, 903, 666  
332: 2, 907, 972

**Class 339**

2: 2, 918, 644  
2, 918, 645  
5: 2, 874, 362  
2, 877, 435  
2, 879, 490  
2, 880, 402  
2, 885, 647  
2, 889, 530  
2, 889, 531  
2, 915, 731  
7: 2, 911, 607  
8: 2, 871, 455  
2, 883, 636  
2, 894, 239  
2, 897, 468  
2, 898, 572  
2, 919, 420  
9: 2, 881, 403  
12: 2, 903, 667  
14: 2, 876, 426  
2, 880, 403  
2, 897, 469  
2, 911, 608

17: 2, 869, 090  
2, 870, 424  
2, 874, 363  
2, 879, 491  
2, 879, 492  
2, 881, 404  
2, 881, 405  
2, 884, 609  
2, 891, 229  
2, 891, 230  
2, 894, 240  
2, 904, 768  
2, 905, 920  
2, 905, 921  
2, 911, 609  
2, 911, 610  
2, 916, 718  
18: 2, 879, 493  
2, 882, 508  
2, 889, 532  
2, 906, 985  
19: Re. 24, 705  
21: 2, 899, 668  
22: 2, 875, 421  
2, 883, 637  
26: 2, 904, 769  
2, 913, 696  
29: 2, 869, 091  
2, 877, 436  
31: 2, 918, 646  
33: 2, 912, 665  
36: 2, 885, 648  
2, 892, 172  
37: 2, 879, 494  
42: 2, 871, 456  
44: 2, 878, 456  
45: 2, 879, 495  
2, 884, 610  
2, 886, 792  
2, 899, 669  
48: 2, 882, 509  
2, 890, 433  
52: 2, 883, 639  
2, 888, 657  
57: 2, 869, 092  
58: 2, 886, 793  
59: 2, 869, 093  
2, 869, 094  
2, 872, 655  
2, 881, 406  
2, 882, 510  
2, 907, 972  
2, 919, 421  
60: 2, 892, 990  
2, 906, 986  
2, 916, 719  
61: 2, 869, 095  
2, 912, 666  
2, 915, 732  
62: 2, 869, 096  
63: 2, 903, 668  
64: 2, 875, 422  
66: 2, 885, 649  
2, 904, 770  
69: 2, 869, 097  
74: 2, 918, 647  
75: Re. 24, 647  
2, 869, 098  
2, 870, 425  
2, 871, 457  
2, 888, 658  
2, 895, 118  
77: 2, 903, 669  
89: 2, 897, 470  
91: 2, 869, 099  
2, 871, 458  
2, 877, 437  
2, 885, 650  
2, 890, 434  
2, 892, 991  
2, 895, 119  
2, 916, 720  
93: 2, 891, 231  
94: 2, 892, 173  
2, 897, 471  
2, 897, 472  
95: 2, 873, 433  
97: 2, 869, 100  
2, 873, 434  
2, 873, 435  
99: 2, 869, 101  
2, 888, 659  
2, 892, 174  
2, 908, 884  
100: 2, 887, 667  
2, 896, 186  
101: 2, 869, 102  
2, 897, 473  
2, 909, 754  
105: 2, 906, 989  
109: 2, 874, 364  
2, 911, 611  
2, 915, 733



110: 2,888,660	255: 2,890,435	42: 2,879,497	173: 2,876,435	174: 2,896,193	174: 2,919,430	261: 2,891,241
113: 2,892,175	256: 2,882,514	43: 2,883,646	2,876,436	2,896,194	2,919,431	262: 2,880,408
114: 2,901,722	2,889,533	44: 2,912,674	2,877,446	2,897,482	2,919,432	2,890,443
2,901,723	258: 2,877,441	52: 2,872,660	2,877,447	2,897,483	2,919,433	263: 2,877,454
115: 2,869,103	2,877,442	2,873,436	2,877,448	2,897,484	2,919,434	2,903,684
2,906,987	2,881,407	2,887,672	2,884,617	2,898,577	177: 2,909,764	2,911,635
116: 2,906,988	2,890,436	2,894,246	2,884,618	2,898,578	178: 2,907,990	264: 2,887,679
117: 2,883,638	2,902,666	2,904,774	2,885,656	2,898,579	182: 2,874,375	266: 2,877,455
125: 2,874,365	2,907,976	2,916,725	2,885,657	2,898,580	2,879,501	267: 2,896,197
2,877,438	263: 2,867,786	2,918,652	2,886,798	2,898,581	2,919,435	268: 2,898,582
2,907,974	2,884,614	54: 2,907,979	2,887,673	2,900,623	183: 2,908,894	270: 2,908,898
126: 2,875,423	2,887,669	56: 2,917,725	2,888,666	2,900,624	2,919,436	271: 2,877,456
128: 2,897,474	264: 2,867,787	61: 2,902,671	2,889,538	2,900,625	184: 2,918,665	2,911,636
2,903,670	265: 2,900,617	64: 2,876,429	2,889,539	2,900,626	186: 2,900,627	274: 2,884,623
141: 2,874,366	272: 2,877,443	2,892,181	2,890,439	2,901,731	187: 2,903,678	276: Re.24,672
2,905,922	2,885,654	69: 2,891,234	2,892,182	2,901,732	2,903,679	2,874,376
143: 2,884,611	2,900,618	70: 2,870,428	2,899,673	2,901,733	190: 2,882,520	2,909,767
2,899,670	2,901,725	73: 2,873,437	2,900,622	2,901,734	2,883,649	279: 2,875,430
2,914,254	2,907,977	74: 2,876,430	2,901,730	2,901,735	2,891,239	2,888,668
2,915,734	2,907,978	2,897,479	2,902,674	2,901,736	195: 2,911,632	280: 2,908,899
145: 2,869,104	273: 2,905,924	2,902,672	2,905,928	2,901,737	2,918,666	2,913,712
2,892,992	275: 2,878,461	2,911,620	2,906,999	2,901,738	199: 2,880,407	2,916,733
2,896,187	276: 2,887,677	75: 2,896,190	2,907,000	2,902,675	2,885,660	282: 2,876,443
2,899,671	278: 2,918,649	81: 2,876,431	2,907,984	2,902,676	203: 2,917,728	2,884,624
146: 2,913,697	2,882,515	2,876,432	2,907,985	2,902,677	206: 2,869,113	2,885,661
2,919,422	<b>Class 340</b>	2,880,405	2,907,986	2,902,678	2,883,650	2,887,680
147: 2,888,661	1: 2,913,700	2,892,996	2,909,763	2,902,679	2,902,680	2,894,252
2,916,721	2: 2,869,108	2,919,424	2,914,750	2,903,677	207: 2,907,991	288: 2,904,782
150: 2,884,612	2,918,648	84: 2,905,925	2,918,655	2,904,775	2,915,741	310: 2,867,795
151: 2,877,439	3: 2,910,665	87: 2,901,235	2,918,656	2,904,776	208: 2,877,452	2,915,743
154: 2,901,724	2,869,109	107: 2,912,675	2,867,791	2,904,777	2,919,437	311: 2,910,680
159: 2,878,457	2,871,459	147: 2,870,429	2,869,112	2,904,778	212: 2,910,678	312: 2,870,435
164: 2,875,424	2,881,408	2,877,444	2,870,433	2,904,779	213: 2,883,651	316: 2,875,431
2,913,698	2,883,642	2,884,615	2,871,464	2,904,780	2,887,677	2,889,546
2,915,735	2,887,671	2,895,121	2,871,465	2,905,929	2,889,544	2,914,756
166: 2,912,667	2,890,437	2,895,122	2,872,663	2,905,930	2,896,195	319: 2,908,900
170: 2,915,736	2,901,726	2,897,450	2,872,664	2,905,931	2,900,628	321: Re.24,631
174: 2,869,105	2,908,888	2,905,926	2,872,665	2,905,932	2,901,739	2,915,744
176: 2,875,425	2,912,671	2,906,996	2,872,666	2,905,933	2,903,680	2,907,012
2,882,511	2,919,423	149: 2,870,430	2,872,667	2,907,002	2,908,895	2,907,012
2,911,612	5: 2,910,666	2,876,433	2,873,438	2,907,003	2,910,679	2,889,547
177: 2,878,458	2,911,617	2,877,445	2,874,369	2,907,004	2,911,633	2,892,186
182: 2,911,613	6: 2,867,788	2,879,498	2,874,370	2,907,005	2,917,729	2,901,727
2,912,668	2,896,189	2,884,616	2,874,371	2,907,006	2,917,731	2,902,684
183: 2,878,459	2,918,650	2,885,655	2,874,372	2,907,007	2,899,674	2,907,018
184: 2,902,665	8: 2,903,673	2,889,534	2,874,373	2,907,008	220: 2,903,681	2,910,681
2,904,771	2,906,991	2,889,535	2,874,374	2,907,009	221: 2,909,765	2,911,638
188: 2,912,669	2,906,992	2,894,247	2,875,429	2,907,010	225: 2,902,681	326: 2,888,669
192: 2,872,656	2,918,651	2,894,248	2,876,437	2,907,011	227: 2,867,792	331: 2,918,668
2,875,426	9: 2,891,232	2,897,451	2,876,438	2,907,986	2,867,793	332: 2,902,685
2,909,755	2,897,475	2,898,576	2,876,439	2,907,987	2,870,434	2,915,745
193: 2,872,657	10: 2,906,993	2,900,620	2,876,440	2,907,988	2,886,804	334: 2,903,685
2,882,512	11: 2,876,427	2,905,927	2,876,442	2,907,989	2,891,240	2,917,733
2,904,772	2,879,496	2,906,997	2,877,449	2,908,893	2,894,251	336: 2,907,995
2,904,773	2,880,404	2,910,667	2,877,451	2,910,668	2,895,125	340: 2,880,410
2,908,885	2,886,794	2,914,746	2,878,463	2,910,669	2,897,485	345: 2,877,458
194: 2,917,723	13: 2,892,993	2,918,653	2,879,499	2,910,670	2,903,682	2,880,409
195: 2,894,242	15: Re.24,648	2,919,425	2,879,500	2,910,671	2,907,013	2,883,653
2,915,737	2,871,461	2,919,426	2,880,406	2,910,672	2,907,982	2,884,625
196: 2,907,975	2,876,428	150: 2,875,427	2,881,411	2,910,673	2,908,896	2,888,670
198: 2,869,106	2,886,795	2,918,654	2,881,412	2,910,674	2,913,709	2,889,548
2,877,440	2,888,663	152: 2,906,998	2,881,413	2,910,675	2,915,742	2,894,253
2,882,513	2,894,245	154: 2,871,462	2,881,414	2,910,676	2,916,730	2,902,686
2,884,613	2,897,476	2,903,675	2,881,415	2,910,677	2,919,438	2,902,687
2,885,651	2,897,477	155: 2,914,747	2,882,516	2,911,621	2,907,014	2,907,996
2,885,652	2,898,574	160: 2,883,654	2,882,517	2,911,622	2,911,623	2,910,682
2,892,176	2,900,619	162: 2,909,761	2,882,518	2,911,624	2,901,740	2,910,683
2,896,188	2,908,889	163: 2,874,368	2,882,519	2,911,625	2,901,741	347: 2,867,796
2,903,671	2,912,672	2,883,647	2,883,648	2,911,626	2,914,755	2,867,797
2,905,923	2,912,673	2,901,728	2,884,619	2,911,627	2,916,731	2,869,115
2,909,756	2,916,724	2,907,980	2,884,620	2,911,628	2,872,668	2,870,436
2,909,757	2,870,427	2,907,981	2,884,621	2,911,629	2,877,453	2,870,437
2,911,615	16: 2,870,427	2,907,982	2,884,622	2,911,630	2,902,682	2,872,670
2,917,724	17: Re.24,709	2,913,703	2,885,658	2,911,631	2,907,993	2,872,671
2,883,640	2,890,438	164: 2,876,434	2,885,659	2,912,677	2,907,015	2,873,439
202: 2,890,990	2,891,233	2,881,410	2,886,799	2,912,678	2,889,545	2,873,440
205: 2,906,990	2,898,575	2,889,536	2,886,801	2,912,679	2,902,683	2,873,441
206: 2,894,243	2,902,667	2,909,762	2,886,802	2,912,680	2,907,994	2,873,442
210: 2,916,722	2,902,668	2,912,676	2,886,803	2,912,681	2,909,766	2,875,432
213: 2,916,723	2,906,994	2,919,427	2,887,674	2,913,705	2,913,710	2,876,444
216: 2,883,641	2,906,995	166: 2,886,797	2,887,675	2,913,706	2,887,678	2,881,416
217: 2,888,662	2,908,890	2,889,537	2,887,676	2,913,707	2,899,675	2,881,417
220: 2,869,107	2,909,759	2,900,621	2,887,677	2,913,708	2,869,114	2,881,418
2,872,658	2,913,701	2,903,676	2,888,667	2,914,751	2,882,521	2,881,419
2,892,177	2,915,738	2,913,704	2,889,540	2,914,752	2,883,652	2,882,524
2,899,672	18: 2,897,478	2,914,748	2,889,541	2,914,753	2,882,522	2,885,662
2,908,886	2,915,739	167: 2,919,428	2,889,542	2,914,754	2,886,805	2,885,663
2,909,758	22: 2,902,669	168: 2,888,665	2,889,543	2,915,740	2,890,442	2,888,671
2,912,670	24: 2,907,670	2,896,191	2,890,440	2,916,726	2,901,634	2,888,672
2,914,745	26: 2,892,994	2,907,983	2,890,441	2,916,727	2,912,682	2,888,673
221: 2,892,178	2,913,702	2,908,892	2,891,236	2,916,728	2,913,711	2,889,549
223: 2,908,887	2,886,796	2,914,749	2,891,237	2,916,729	2,917,732	2,894,254
2,911,616	2,892,180	170: 2,870,431	2,891,238	2,917,726	2,918,667	2,894,255
225: 2,892,179	2,911,618	2,901,729	2,892,183	2,917,727	2,907,016	2,894,256
226: 2,887,668	31: 2,874,367	2,871,463	2,892,184	2,917,728	2,903,683	2,896,198
231: 2,870,426	2,892,995	171: 2,902,673	2,892,185	2,918,658	2,907,017	2,897,486
232: 2,903,672	2,908,891	172: 2,869,110	2,892,186	2,918,659	2,908,897	2,898,583
236: 2,894,244	33: 2,881,409	173: 2,867,789	2,892,187	2,918,660	2,912,683	2,898,584
239: 2,878,460	2,903,674	2,867,790	2,892,188	2,918,661	2,917,732	2,899,676
243: 2,885,653	36: 2,883,643	2,869,111	2,892,189	2,918,662	2,882,523	2,900,629
246: 2,898,573	2,883,644	2,870,432	2,892,190	2,918,663	2,896,196	2,903,686
249: 2,895,120	2,883,645	2,872,661	2,892,191	2,918,664	2,896,197	2,905,934
251: 2,913,699	41: 2,911,619	2,872,662	2,892,192	2,919,429	2,911,634	2,905,935
255: 2,872,659						



## Class 340—Con.

347: 2, 907, 019  
2, 907, 020  
2, 907, 021  
2, 907, 997  
2, 909, 768  
2, 909, 769  
2, 910, 684  
2, 910, 685  
2, 910, 686  
2, 912, 684  
2, 914, 757  
2, 914, 758  
2, 916, 734  
2, 917, 734  
2, 919, 439  
348: 2, 905, 936  
355: 2, 918, 669  
356: 2, 869, 116  
359: 2, 867, 798  
2, 876, 445  
2, 913, 713  
364: 2, 892, 999  
365: 2, 885, 664  
2, 903, 687  
2, 914, 759  
366: 2, 867, 799  
2, 890, 444  
2, 891, 242  
2, 894, 257  
2, 903, 688  
2, 905, 937  
2, 907, 998  
367: 2, 870, 438  
2, 884, 626  
2, 893, 000  
2, 896, 199  
2, 896, 200  
2, 896, 201  
2, 897, 487  
2, 898, 585  
2, 900, 630  
2, 900, 631  
2, 903, 689  
2, 910, 687  
2, 917, 735  
369: 2, 874, 377  
2, 897, 488  
2, 898, 586  
2, 909, 770  
2, 918, 670  
377: 2, 912, 685  
378: 2, 880, 411  
2, 890, 445  
2, 914, 760  
379: 2, 886, 806  
381: 2, 913, 714  
383: 2, 881, 420  
384: 2, 890, 446  
2, 898, 587  
2, 908, 901  
2, 910, 688  
2, 910, 689  
2, 913, 715  
386: 2, 917, 736  
388: 2, 896, 202  
392: 2, 872, 672  
2, 875, 433  
2, 890, 447  
2, 893, 001  
2, 895, 126  
2, 904, 783  
2, 909, 771  
393: 2, 883, 654  
396: 2, 886, 807  
397: 2, 886, 808

397: 2, 892, 187

400: 2, 878, 464  
2, 889, 550  
401: 2, 886, 809

## Class 343

5: 2, 878, 465  
2, 881, 421  
2, 882, 525  
2, 890, 448  
2, 891, 243  
2, 903, 690  
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7: 2, 878, 466  
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7.7: 2, 876, 446  
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714: 2, 881, 428  
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732: 2, 910, 694  
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756: 2, 867, 801  
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757: 2, 877, 459  
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781: 2, 870, 441  
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803: 2, 897, 495  
805: 2, 872, 680  
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806: 2, 875, 441  
808: 2, 869, 125  
810: 2, 919, 441  
812: 2, 870, 443  
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889: 2, 875, 442  
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7: 2, 868, 611  
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2, 903, 320  
8: 2, 872, 272  
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2, 906, 581  
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109: 2, 871, 089  
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139: 2, 868, 613  
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184, 956  
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185, 386  
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185, 611  
185, 637  
186, 069  
186, 165  
186, 216  
186, 371  
186, 372  
186, 373  
186, 374  
186, 432

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1: 184, 663  
186, 019  
186, 020  
186, 272  
186, 273  
2: 186, 882  
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**Class D20**

2: 184, 449  
185, 196  
185, 309  
185, 853  
186, 884  
4: 184, 578  
184, 637  
185, 240  
186, 375  
186, 376  
186, 766  
186, 885

**Class D21**

1: 186, 070  
186, 311  
186, 507  
186, 711  
6: 185, 764  
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**Class D22**

2: 184, 385  
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186, 106  
186, 107  
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186, 274  
186, 312  
186, 886  
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184, 623  
185, 166  
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185, 567  
185, 616  
185, 904  
185, 958  
186, 021  
186, 108  
186, 167  
186, 168  
186, 217  
186, 313  
186, 433  
5: 185, 170  
186, 767  
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1: 186, 218  
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**Class D25**

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186, 071  
186, 169  
186, 593

**Class D26**

1: 184, 294  
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1: 184, 440  
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184, 498  
184, 533  
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184, 995  
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185, 959  
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184, 915  
185, 078  
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185, 240  
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186, 766  
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6: 184, 531  
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7: 184, 316  
184, 469  
185, 104  
185, 175  
185, 487  
186, 595  
186, 889  
9: 186, 171  
186, 768  
10: 184, 432  
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186, 598  
186, 599  
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185, 158  
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185, 409  
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185, 638  
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186, 074  
186, 075  
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186, 318  
186, 319  
186, 378  
186, 438  
186, 601  
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184, 971  
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185, 262  
185, 271  
185, 413  
185, 453  
185, 454  
185, 459  
185, 505  
185, 520  
185, 647  
185, 712  
185, 713  
185, 729  
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185, 905  
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186, 111  
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186, 439  
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186, 602  
186, 603  
186, 668  
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186, 772  
186, 815  
186, 892  
15: 184, 470  
184, 960  
185, 222  
185, 864  
185, 865  
185, 866  
186, 381  
186, 447  
186, 515  
186, 606  
186, 775

**Class D28**

1: 184, 982  
184, 997  
185, 099  
186, 275  
186, 379  
186, 512

**Class D29**

1: 184, 251  
184, 476  
184, 477  
184, 850  
184, 981  
185, 127  
185, 274  
185, 275  
185, 276  
185, 565  
185, 906  
186, 023  
186, 229  
186, 443  
2: 184, 565  
185, 092

2: 185, 728  
186, 513  
17: 184, 340  
185, 907  
19: 184, 344  
185, 382  
185, 861  
185, 862  
20: 184, 233  
184, 436  
185, 430  
185, 509  
186, 380  
186, 671  
186, 773  
23: 184, 454  
184, 607  
184, 823  
184, 857  
184, 961  
185, 151  
185, 152  
185, 219  
185, 220  
185, 355  
185, 512  
185, 597  
185, 703  
185, 800  
185, 863  
185, 908  
186, 076  
186, 444  
186, 445  
186, 514  
186, 774  
186, 845  
186, 893  
186, 946  
28: 184, 932  
186, 604

**Class D30**

1: 184, 538  
184, 774  
184, 885  
185, 223  
185, 374  
186, 446

**Class D31**

2: 184, 737  
185, 682  
186, 605  
3: 186, 024  
186, 816  
4: 184, 271  
184, 291  
184, 304  
184, 318  
184, 427  
184, 443  
184, 460  
184, 579  
184, 618  
185, 062  
185, 149  
185, 347  
185, 566  
185, 730  
185, 864  
185, 865  
185, 866  
186, 381  
186, 447  
186, 515  
186, 606  
186, 775

**Class D34**

2: 184, 359  
184, 457  
185, 499  
185, 802  
185, 803  
186, 323  
186, 521  
3: 184, 329  
184, 674  
184, 769  
184, 891  
184, 931  
186, 119  
186, 120  
186, 174  
5: 184, 240  
184, 326  
184, 495  
184, 535  
184, 552  
184, 570  
184, 652  
184, 669  
184, 675  
184, 714  
184, 775  
184, 826  
184, 827  
184, 926  
184, 979  
185, 002  
185, 003  
185, 037  
185, 109  
185, 177  
185, 278  
185, 327  
185, 334  
185, 335  
185, 508  
185, 513

**Class D32**

1: 186, 320

**Class D33**

2: 184, 551  
186, 672  
3: 184, 595  
184, 697  
184, 882  
184, 900  
185, 060  
185, 298  
185, 403  
185, 559  
185, 801  
6: 184, 871  
184, 935  
185, 096  
185, 544  
185, 708  
185, 709

6: 185, 710  
185, 758  
185, 759  
185, 760  
185, 761  
185, 762  
186, 112  
186, 113  
186, 382  
186, 383  
7: 184, 530  
185, 867  
186, 516  
186, 894  
8: 186, 230  
186, 517  
186, 607  
9: 184, 677  
186, 114  
10: 186, 895  
186, 122  
11: 184, 996  
185, 868  
186, 321  
186, 322  
186, 384  
13: 186, 115  
186, 385  
14: 184, 260  
184, 261  
184, 759  
184, 828  
184, 837  
184, 978  
184, 990  
185, 185  
185, 305  
185, 371  
185, 372  
185, 539  
185, 585  
185, 671  
185, 735  
186, 025  
186, 026  
186, 173  
186, 231  
186, 518  
186, 519  
186, 520  
186, 776  
186, 896  
19: 184, 520  
184, 779  
185, 396  
185, 502  
185, 769  
186, 116  
186, 117  
186, 118  
186, 386  
186, 448

**Class D34**

2: 184, 359  
184, 457  
185, 499  
185, 802  
185, 803  
186, 323  
186, 521  
3: 184, 329  
184, 674  
184, 769  
184, 891  
184, 931  
186, 119  
186, 120  
186, 174  
5: 184, 240  
184, 326  
184, 495  
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184, 652  
184, 669  
184, 675  
184, 714  
184, 775  
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184, 827  
184, 926  
184, 979  
185, 002  
185, 003  
185, 037  
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185, 177  
185, 278  
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185, 513

5: 185, 522  
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185, 804  
185, 965  
186, 027  
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186, 714  
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186, 777  
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186, 846  
186, 847  
186, 848  
186, 947  
11: 185, 493  
13: 184, 447  
14: 184, 397  
184, 398  
184, 499  
184, 650  
185, 966  
186, 178  
186, 451  
15: 184, 235  
184, 273  
184, 293  
184, 302  
184, 303  
184, 352  
184, 370  
184, 437  
184, 438  
184, 444  
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184, 912  
184, 951  
185, 007  
185, 041  
185, 107  
185, 249  
185, 333  
185, 354  
185, 378  
185, 400  
185, 415  
185, 489  
185, 497  
185, 521  
185, 546  
185, 571  
185, 583  
185, 587  
185, 599  
185, 600

15: 185, 627  
185, 667  
185, 680  
185, 681  
185, 694  
185, 733  
185, 749  
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185, 806  
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185, 869  
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185, 910  
185, 967  
186, 032  
186, 033  
186, 034  
186, 079  
186, 080  
186, 081  
186, 179  
186, 178  
186, 326  
186, 387  
186, 388  
186, 452  
186, 453  
186, 526  
186, 527  
186, 610  
186, 611  
186, 675  
186, 778  
186, 897

**Class D35**

1: 184, 592  
185, 968  
186, 779  
2: 186, 035  
186, 036  
3: 184, 515  
184, 569  
184, 758  
184, 877  
185, 137  
185, 215  
186, 236  
186, 454  
186, 849

**Class D36**

2: 184, 933  
8: 184, 285  
184, 976  
185, 649  
186, 327  
186, 528

**Class D37**

1: 184, 423  
184, 653  
185, 556  
185, 645

**Class D40**

1: 184, 324  
184, 568  
184, 804  
184, 861  
184, 862  
185, 264  
186, 455  
186, 456  
186, 676  
186, 948

**Class D41**

1: 184, 313  
184, 343  
184, 346  
184, 544  
184, 561  
184, 880  
185, 070  
185, 071  
185, 243  
185, 808  
186, 279  
186, 389  
186, 898

**Class D42**

1: 184, 355  
185, 242



7: 184, 300 184, 466 184, 491 184, 696 185, 255 185, 366 185, 370 185, 442 185, 545 185, 580 185, 745 185, 871 186, 457 186, 458 186, 529 186, 530 186, 531 186, 532 186, 533 186, 612 186, 613 186, 614 186, 615 186, 677 186, 678 186, 780 186, 850 186, 899 186, 948 8: 184, 270 184, 542 185, 969 186, 180 186, 390 186, 397 186, 398 186, 534 186, 818	15: 185, 147 185, 244 185, 281 185, 330 185, 399 185, 426 185, 443 185, 444 185, 445 185, 446 185, 447 185, 448 185, 449 185, 450 185, 451 185, 452 185, 607 185, 872 185, 873 185, 911 185, 914 186, 038 186, 039 186, 040 186, 041 186, 042 186, 852 186, 950 18: 184, 504 21: 184, 715 184, 814 185, 063 185, 772 185, 810 186, 392 186, 681 22: 184, 223 184, 667 184, 762 184, 778 185, 811 186, 536 24: 185, 390 186, 537 26: 184, 507 184, 606 184, 874 185, 054 186, 055 186, 417 186, 043 186, 182 186, 237 186, 238 29: 184, 234 184, 246 184, 335 184, 613 184, 638 184, 640 184, 726 185, 088 185, 089 185, 090 185, 472 185, 515 185, 568 185, 648 185, 677 185, 695 185, 912 185, 913 185, 972 186, 044 186, 045 186, 046 186, 125 186, 126 186, 239 186, 280 186, 393 186, 394 186, 395 186, 396 186, 459 186, 617 186, 853 186, 902	4: 184, 832 184, 930 185, 257 185, 258 185, 316 185, 349 185, 916 186, 047 186, 048 186, 049 186, 050 186, 281 186, 538 186, 539 186, 540 186, 541 186, 542 186, 716 186, 781 186, 782 186, 783 186, 820 186, 821 186, 854 186, 903 186, 951 9: 184, 980 10: 184, 833 186, 183 186, 822 15: 186, 543 16: 185, 083 186, 460 186, 682 186, 784 17: 184, 536 184, 807 184, 959 185, 290 185, 915 19: 184, 269	20: 186, 785 186, 904 23: 185, 301 185, 410 185, 874 185, 980 186, 129 186, 329 186, 400 186, 719 186, 855 186, 952 24: 184, 377 184, 378 184, 379 184, 380 184, 381 184, 382 184, 701 185, 304 185, 496 185, 603 186, 051 186, 330 186, 401 27: 184, 321 184, 581 184, 795 184, 869 184, 904 185, 361 185, 495 185, 582 186, 052 186, 402 186, 621 186, 720 31: 184, 226 184, 314 186, 130 186, 547 186, 786 32: 184, 364 184, 509 184, 841 185, 359 185, 621 185, 688 185, 696 185, 813 185, 875 186, 548 186, 622 186, 683 186, 721 186, 722 186, 723 186, 823 186, 905 186, 906	6: 184, 948 185, 005 185, 011 185, 190 185, 318 7: 184, 312 185, 144 186, 724	Class D52 1: 184, 212 184, 372 184, 442 184, 608 184, 639 184, 740 184, 771 184, 805 184, 834 184, 845 184, 853 184, 920 184, 953 185, 045 185, 394 185, 405 185, 596 185, 920 185, 921 185, 984 186, 084 186, 243 186, 283 186, 284 186, 403 186, 549 186, 550 2: 184, 218 184, 229 184, 250 184, 256 184, 259 184, 557 184, 734 184, 782 184, 967 185, 458 185, 626 185, 982 186, 186 186, 465 186, 551 186, 725 186, 726 186, 824 186, 825 3: 184, 389 184, 906 185, 086 185, 087 185, 148 185, 365 185, 436 185, 437 185, 506 185, 983 186, 285 186, 466 186, 624 186, 684 186, 788 186, 909 4: 185, 105 186, 789 186, 857 7: 184, 289 184, 650 185, 419 185, 598 185, 620 185, 642 186, 404 186, 727 10: 185, 250 186, 286 186, 287 184, 798 184, 987 185, 073 185, 094 185, 192 185, 315 185, 461 185, 486 186, 133 186, 468 186, 469 186, 627 186, 728 184, 730 184, 731 184, 799	2: 185, 121 185, 122 185, 123 185, 124 185, 125 185, 236 185, 252 185, 373 185, 549 185, 558 186, 288 186, 289 186, 406 186, 407 186, 467 186, 687 3: 185, 637 6: 185, 922 9: 185, 171 186, 858 11: 185, 411 12: 184, 572 184, 609 184, 648 184, 767 184, 777 184, 858 185, 732 184, 859 184, 867 184, 899 184, 918 184, 940 184, 941 184, 942 184, 944 184, 957 184, 970 185, 085 185, 132 185, 133 185, 208 185, 209 185, 210 185, 211 185, 288 185, 362 185, 479 185, 480 185, 481 185, 524 185, 569 185, 619 185, 679 185, 685 185, 707 185, 923 186, 054 186, 187 186, 625 186, 790 13: 184, 413 185, 536 185, 629 185, 655 185, 815 185, 877 186, 290 186, 408 186, 626 14: 184, 624 185, 159 185, 360 185, 555 186, 953 15: 185, 651 186, 193 16: 184, 280 184, 451 185, 434 186, 131 186, 132 186, 188 186, 189	Class D56 1: 185, 097 185, 235 185, 984 185, 985 186, 332 186, 470 186, 688 186, 826 2: 185, 294 186, 191 186, 334 186, 334 4: 184, 502 184, 604 184, 770 184, 883 184, 969 185, 049 185, 226 185, 282 185, 297 185, 306 185, 711 185, 732 185, 986 186, 134 186, 244 186, 335 186, 471 186, 628 186, 629 186, 689 186, 690 186, 691 186, 791 186, 957 9: 186, 192 186, 827	Class D57 1: 184, 236 184, 237 184, 274 184, 341 184, 395 184, 456 184, 487 184, 512 184, 554 184, 555 184, 702 184, 703 184, 705 184, 806 184, 881 185, 034 185, 059 185, 080 185, 139 185, 161 185, 216 185, 225 185, 341 185, 578 185, 663 185, 664 185, 816 185, 878 185, 987 186, 135 186, 193 186, 552 186, 630 186, 792 186, 910 186, 911 186, 912 186, 958 7: 184, 351 184, 356	Class D58 2: 185, 229 186, 410 4: 184, 796 185, 314 185, 879 185, 988 185, 989 186, 194 186, 692 186, 693 5: 184, 999 185, 551 185, 990 6: 184, 392 184, 394 184, 611 184, 636
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186, 093	186, 836	184, 994	186, 422	184, 928	185, 704	185, 114
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# LIST OF PATENT, DESIGN, PLANT PATENT, AND REISSUE NUMBERS APPEARING IN THE OFFICIAL GAZETTE FOR 1959

Issue of	Vol.	No.	First Number in Issue			
			Patents	Designs	Plant Patents	Reissues
Jan. 6	738	1	2, 866, 973	184, 204	1, 792	24, 584
Jan. 13		2	2, 867, 806	184, 247	1, 795	24, 586
Jan. 20		3	2, 869, 126	184, 272	1, 801	24, 590
Jan. 27		4	2, 870, 445	184, 297	1, 804	24, 594
Feb. 3	739	1	2, 871, 479	184, 327	1, 805	24, 597
Feb. 10		2	2, 872, 682	184, 388	1, 808	24, 598
Feb. 17		3	2, 873, 446	184, 416	1, 811	24, 600
Feb. 24		4	2, 874, 383	184, 471	1, 812	24, 606
Mar. 3	740	1	2, 875, 445	184, 503	1, 814	24, 612
Mar. 10		2	2, 876, 450	184, 552	1, 816	24, 616
Mar. 17		3	2, 877, 460	184, 593	1, 820	24, 621
Mar. 24		4	2, 878, 474	184, 652	1, 822	24, 623
Mar. 31		5	2, 879, 509	184, 700	1, 823	24, 624
Apr. 7	741	1	2, 880, 419	184, 790	1, 825	24, 626
Apr. 14		2	2, 881, 437	184, 846	1, 826	24, 629
Apr. 21		3	2, 882, 528	184, 905	None	24, 634
Apr. 28		4	2, 883, 666	184, 973	1, 827	24, 640
May 5	742	1	2, 884, 634	185, 056	1, 829	24, 644
May 12		2	2, 885, 679	185, 112	1, 832	24, 645
May 19		3	2, 886, 815	185, 184	1, 835	24, 651
May 26		4	2, 887, 685	185, 253	1, 836	24, 652
June 2	743	1	2, 888, 679	185, 341	1, 838	24, 654
June 9		2	2, 889, 554	185, 409	1, 839	24, 656
June 16		3	2, 890, 453	185, 485	1, 845	24, 657
June 23		4	2, 891, 249	185, 525	1, 848	24, 661
June 30		5	2, 892, 192	185, 589	1, 849	24, 662
July 7	744	1	2, 893, 005	185, 621	None	24, 665
July 14		2	2, 894, 262	185, 655	1, 850	24, 667
July 21		3	2, 895, 135	185, 692	1, 853	24, 668
July 28		4	2, 896, 208	185, 729	None	24, 672
Aug. 4	745	1	2, 897, 500	185, 780	1, 856	None
Aug. 11		2	2, 898, 594	185, 832	1, 858	24, 678
Aug. 18		3	2, 899, 679	185, 898	1, 859	24, 681
Aug. 25		4	2, 900, 637	185, 949	None	24, 689
Sept. 1	746	1	2, 901, 749	186, 013	1, 861	24, 693
Sept. 8		2	2, 902, 689	186, 064	1, 862	24, 695
Sept. 15		3	2, 903, 696	186, 098	1, 864	24, 698
Sept. 22		4	2, 904, 785	186, 152	1, 866	24, 702
Sept. 29		5	2, 905, 941	186, 208	1, 869	24, 704
Oct. 6	747	1	2, 907, 037	186, 260.	1, 870	24, 709
Oct. 13		2	2, 908, 007	186, 301	1, 872	24, 718
Oct. 20		3	2, 908, 908	186, 355	1, 873	24, 721
Oct. 27		4	2, 909, 780	186, 424	1, 874	24, 725
Nov. 3	748	1	2, 910, 697	186, 491	1, 876	24, 731
Nov. 10		2	2, 911, 645	186, 568	1, 878	24, 732
Nov. 17		3	2, 912, 697	186, 651	1, 879	24, 734
Nov. 24		4	2, 913, 728	186, 707	1, 881	24, 738
Dec. 1	749	1	2, 914, 768	186, 758	1, 882	24, 740
Dec. 8		2	2, 915, 753	186, 809	1, 883	24, 745
Dec. 15		3	2, 916, 740	186, 839	1, 889	24, 747
Dec. 22		4	2, 917, 747	186, 867	1, 890	24, 757
Dec. 29		5	2, 918, 674	186, 936	1, 891	24, 759
Last number of 1959			2, 919, 442	186, 972	1, 892	24, 760







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# LIST OF DISCLAIMERS AND DEDICATIONS

- Adler, Robert, Northfield, Ill. Disclaimer filed by the assignee, Zenith Radio Corporation. No. 2,845,697; disclaimer filed May 13, 1959; v. 743; p. 733.
- Aeberly, Robert A., Elmhurst, Ill., and Ralph A. Clark, Berkeley, Mich. Disclaimer filed by the assignee, Union Carbide Corporation. No. 2,778,732; disclaimer filed June 12, 1959; v. 744; p. 349.
- Ankersen, Borge Richard, Butler, Pa. Disclaimer filed by the inventor; the exclusive licensee, Ajax Electric Company, approving. No. 2,816,849; disclaimer filed Apr. 23, 1959; v. 742; p. 857.
- Baermann, Max, Cologne, Germany. Disclaimer filed by the inventor. No. 2,854,598; disclaimer filed Oct. 21, 1959; v. 748; p. 871.
- Baker, Floyd A., Los Angeles, Calif. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,752,560; disclaimer filed July 1, 1959; v. 745; p. 2.
- Banko, George, Cleveland, Ohio. Dedication filed by the assignee, Allegheny Ludlum Steel Corporation. Re. No. 2,734,439; dedication filed June 15, 1959; v. 744; p. 349.
- Barnhart, Philip W., University Park, Md. Disclaimer filed by the inventor; the assignee, United States Government as represented by the Secretary of the Navy, assenting. No. 2,754,474; disclaimer filed Oct. 1, 1959; v. 748; p. 278.
- Batdorf, Jack B., Wilmington, Del. Dedication filed by the assignee, Hercules Powder Company. No. 2,865,853; dedication filed Oct. 23, 1959; v. 749; p. 1100.
- Biswell, Charles B., Woodstown, N.J. Disclaimer filed by the assignee, E. I. du Pont de Nemours and Company. No. 2,734,808; disclaimer filed July 22, 1959; v. 746; p. 1.
- Bivens, Maurice E., Schenectady, N.Y. Disclaimer filed by the assignee, General Electric Company. No. 2,614,240; disclaimer filed July 1, 1959; v. 745; p. 2.
- Brockwell, Lloyd A., Moorestown, N.J., and William N. Moule, Haddonfield, N.J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,762,881; disclaimer filed Mar. 5, 1959; v. 741; p. 289.
- Brown, Walter J., Cleveland Heights, and John E. Shomer, Lakewood, Ohio. Disclaimer filed by the assignee, Cleveite Corporation. No. 2,405,134; disclaimer filed May 18, 1959; v. 744; p. 2.
- Carlisle, Benjamin H., South Euclid, Ohio. Disclaimer filed by the assignee, The Clark Controller Company. No. 2,798,170; disclaimer filed Sept. 28, 1959; v. 748; p. 582.
- Chase, Leland H., Port Washington, N.Y. Disclaimer filed by the assignee, Holmes Electric Protective Company. No. 2,877,361; disclaimer filed Apr. 27, 1959; v. 742; p. 857.
- Corbin, Robert B., Oak Park, Ill. Disclaimer filed by the assignee, Motorola, Inc. No. 2,846,596; disclaimer filed Mar. 23, 1959; v. 741; p. 918.
- Croco, Charles P., and Charles H. Jennings, Buffalo, Ray Verne Lester, Kenmore, and Emil F. Steinert, Williams-ville, N.Y. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,752,529; disclaimer filed Nov. 6, 1959; v. 749; p. 271.
- De Groot, Melvin, University City, and Owen H. Pettingill, Kirkwood, Mo. Disclaimer and dedication filed by the assignee, Petrolite Corporation. No. 2,819,213; disclaimer and dedication filed Jan. 28, 1959; v. 740; p. 2.
- De Groot, Melvin, University City, and Owen H. Pettingill, Kirkwood, Mo. Disclaimer and dedication filed by the assignee, Petrolite Corporation. No. 2,819,214; disclaimer and dedication filed Jan. 28, 1959; v. 740; p. 2.
- Ditman, John G., Newark, and Frederic T. Mertens, Rutherford, N.J. Disclaimer filed by the assignee, Foster Wheeler Corporation. No. 2,809,885; disclaimer filed July 20, 1959; v. 746; p. 271.
- Dodson, Alfred Mead, Hopewell, Va. Dedication filed by the assignee, Hercules Powder Company. No. 2,478,379; dedication filed Oct. 23, 1959; v. 749; p. 1099.
- Dorf, Richard H., New York, N.Y. Disclaimer filed by the inventor. No. 2,835,814; disclaimer filed Feb. 2, 1959; v. 740; p. 281.
- Earle, William R., Burtonsville, and Frederick Highhouse, Germantown, Md. Dedication filed by the assignee, United States of America as represented by the Secretary of Health, Education and Welfare. No. 2,858,036; dedication filed Feb. 27, 1959; v. 741; p. 1.
- Epstein, Herman, West Chester, Pa. Disclaimer filed by the assignee, Burroughs Corporation. No. 2,795,776; disclaimer filed June 10, 1959; v. 744; p. 349.
- Fan, Sin-pih, Philadelphia, Pa. Disclaimer filed by the assignee, Burroughs Corporation. No. 2,806,979; disclaimer filed Mar. 17, 1959; v. 741; p. 595.
- Farber, Eduard, and Matthew Sciascia, Washington, D.C. Dedication filed by the assignee, Timber Engineering Company. No. 2,655,454; dedication filed Jan. 6, 1959; v. 739; p. 2.
- Ferlauto, Robert J., Doylestown, and Russell E. Rhodes, Ardley, Pa. Disclaimer filed by the assignee, Smith Kline & French Laboratories. No. 2,822,314; disclaimer filed Jan. 26, 1959; v. 739; p. 805.
- Gailliot, Paul, Paris, and Jean Baget, Erment, France. Disclaimer filed by the inventors and the assignee, Societe des Usines Chimiques Rhone-Poulenc. No. 2,837,513; disclaimer filed Aug. 18, 1959; v. 746; p. 863.
- Gow, James D., Berkeley, Calif. Disclaimer filed by the inventor; the assignee, Chromatic Television Laboratories, Inc., assenting. No. 2,721,293; disclaimer filed Jan. 7, 1959; v. 740; p. 1.
- Griebisch, Eugen, Berlin-Charlottenburg, Gerhard Zuchsdorff, Berlin-Frohnau, and Klaus Pirner, Berlin-Britz, Germany. Disclaimer filed by the assignee, Schering A.G. No. 2,828,306; disclaimer filed Feb. 17, 1959; v. 741; p. 1.
- Grinspoon, Harold, Springfield, Mass. Disclaimer filed by the assignee, Multi-Carton Corporation. No. 2,798,603; disclaimer filed Feb. 19, 1959; v. 741; p. 1.
- Gross, Bernard, and Leo W. Cornwall, San Diego, Calif. Disclaimer filed by the assignee, Rohr Aircraft Corporation. No. 2,396,005; disclaimer filed July 20, 1959; v. 745; p. 883.
- Harrel, Chastain G., and Helen A. Baeder, Minneapolis, Minn. Disclaimer filed by the assignee, The Pillsbury Company. No. 2,850,394; disclaimer filed Dec. 5, 1958; v. 738; p. 1.
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